

# **EUROPEAN COMMISSION**DG Research and Innovation – RTD

# HORIZON 2020 PROGRAMME SOCIETAL CHALLENGES – SMART, GREEN AND INTEGRATED TRANSPORT

Coordination and Support Action – Grant Agreement Number 724086



# D6.2: Proceedings of the 1<sup>st</sup> EC CAD Conference

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#### **Executive Summary**



The European Commission, with the support of the EC-funded projects CARTRE and SCOUT, have hosted the first European conference on connected and automated driving. The high-level conference was held in Brussels on the 3rd and 4th April 2017. Major road transport stakeholders – automotive and telecom industry, users, road operators, public transport operators, regulators, research centres, universities and representatives of both the EC and EU Member States were present. The four main themes at the conference were transport policy issues, technological challenges, legal and regulatory frameworks and digital transformation.

The programme was organised by the four European Commission DGs RTD, MOVE, CNECT, and GROW with the support of the CARTRE coordination action. The plenary sessions equally covered European Commission's initiatives: DG RTD's Strategic Road Transport Innovation Agenda (STRIA), DG CONNECT's Connected and Automated Driving Round Table, DG MOVE's C-ITS platform and DG GROW's GEAR2030.

The high-level conference provided a platform for open communication and for two days, EU leaders, CEOs and representatives from major road transport stakeholders discussed interactively on the role of Research & Innovation and policy making to accelerate roll-out in Europe.

The conference focussed on the significant progress made in developing automated road transport technologies, such as advanced vehicle control, vehicle localisation systems, data processing, artificial intelligence or user interfaces, fostered by Horizon 2020, the EU research and innovation programme.

Carlos Moedas, Commissioner for Research, Science and Innovation, said: Automated road transport is such a fast-moving and important area that it requires a coordinated and a collaborative approach within and between the public and the private sphere. A vast range of sectors, from the automotive industry and road infrastructure to IT and telecoms, have a role to play in exploring this new frontier. That's why this first European event is so important.

Violeta Bulc, European Commissioner for Mobility and Transport (MOVE) reaffirmed Europe's worldwide lead affirming that; Europe needs to lead and shape the future of

#### CARTRE D6.2 Proceeding of the 1st ART Conference

connected and automated driving and collaboration is the keyword for the deployment of connected vehicles.

In addition, CARTRE organised a large networking event at the AutoWorld with the opportunity to experience a couple of CAD demonstrations outside the venue from the EC projects AdaptIVe and AUTOPILOT.

The venue also accommodated for a series of exhibitions displaying the currently active EC-funded projects.

With more than 580 participants, this first conference can be qualified as a real success. This is thanks to the good cooperation between the projects and the European Commission services. CARTRE is proud to have actively contributed to make it a success.

Discussions for the second edition, probably in 2019, are ongoing.

# CARTRE D6.2 Proceeding of the 1<sup>st</sup> ART Conference

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#### 1. Overview

The European Commission, with the support of the EC-funded projects CARTRE and SCOUT, have hosted the first European conference on connected and automated driving. The high-level conference was held in Brussels on 3-4 April 2017. Major road transport stakeholders – automotive and telecom industry, users, road operators, public transport operators, regulators, research centres, universities and representatives of both the EC and EU Member States were present. The four main themes at the conference were transport policy issues, technological challenges, legal and regulatory frameworks and digital transformation.

The high-level conference provided a platform for open communication and for two days, EU leaders, CEOs, industry executives and representatives from major road transport stakeholders discussed interactively on the role of Research & Innovation and policy making to accelerate roll-out in Europe.

The conference focussed on the significant progress made in developing automated road transport technologies, such as advanced vehicle control, vehicle localisation systems, data processing, artificial intelligence or user interfaces, fostered by Horizon 2020, the EU research and innovation programme. It looked forward to the next 20 years of Connected and Automated Driving.

Carlos Moedas, Commissioner for Research, Science and Innovation, captured the needs as follows: "Automated road transport is such a fast-moving and important area that it requires a coordinated and a collaborative approach within and between the public and the private sphere. A vast range of sectors, from the automotive industry and road infrastructure to IT and telecoms, have a role to play in exploring this new frontier. That is why this first European event is so important."

Violeta Bulc, European Commissioner for Mobility and Transport (MOVE) reaffirmed Europe's worldwide lead affirming that Europe needs to lead and shape the future of connected and automated driving and collaboration is the keyword for the deployment of connected vehicles."

#### 1.1.Motivation

Increased connectivity and automation are major trends that are expected to shape the future of road transport and mobility. They hold the promise of addressing many of the major challenges facing today's transport system, such as user safety, energy efficiency, air quality and traffic congestion, and to enhance the drivers' comfort and convenience.

For many years huge Research & Innovation efforts have been invested in developing and demonstrating systems for connected and automated driving. Significant progress has been made in key technologies for innovative connected and automated driving functions and applications (e.g. advanced vehicle control, systems to detect vehicle location and environment, data processing, artificial intelligence, human-machine interaction, etc.). To make the next step towards roll out, large-scale pilots are necessary to test and improve the performance and safety of innovative connected and automated driving systems and to study market potentials and risks.

The combination of advanced connectivity systems and automated vehicles could disrupt the entire automotive ecosystem. Connected and automated vehicles will enable higher level of safety and the emergence of new "mobility-on-demand" services and innovative digital services in the area of entertainment, commerce, vehicle management, etc.

Connectivity and automation represent a critical testing ground to support the international competitiveness of the European automotive industry. Car manufacturers are part of a worldwide race towards connectivity and automation which includes new entrants from the global IT sector.

All relevant services of the European Commission (DG RTD, DG CONNECT, DG MOVE, DG GROW) are contributing to the development of connectivity and automation with actions ranging from R&I funding to policy guidance. In addition, trilateral cooperation between the EU, US and Japan has been established under the framework of the ITS (Intelligent Transport Systems) cooperation agreement in 2013. This cooperation has been extended to other countries such as South Korea and Australia, recently.

Over the past years, a series of events have been organised in the US and Japan to substantiate the progress in the field of Connected and Automated Driving. These events have been attracting large international audiences – the recent Automated Vehicles Symposium in San Francisco was attended by more than 1200 participants. Europe is still lacking a similar central meeting place for its research, industry and policy community. Therefore, the time is ripe to organise a Conference on Connected and Automated Road Transport in Europe.

#### 1.2. Objectives

This conference was considered as a very good opportunity for European Commissioners Moedas, Oettinger, Bulc, and Bieńkowska to present jointly the recent European Commission policies on Connected and Automated Road Transport. Commissioners Oettinger, Bulc and Bieńkowska could present their initiatives (e.g. Round Tables on Connected and Automated Driving, C-ITS Platform and GEAR 2030) and show their commitment to support a fast deployment of Connected and Automated Driving technologies. Commissioner Moedas could outline aspects of the new R&I agenda on Connected and Automated Driving and present recently funded EU projects as well as the Call for proposals on "Automated Road Transport".

The main objectives of the conference were:

- To discuss key challenges in terms of, policy, legal and regulatory framework, research and innovation, standardisation, digital issues, infrastructure, cyber-security, use and sharing of data, etc. on the way to the deployment of Connected and Automated Driving technologies on our roads,
- To show where policy and research and innovation are coming together on these new technologies,
- To create an understanding of innovation needs across the various sectors (automotive, ICT and telecom),
- To include the perspectives of all road users, transport service providers and road operators,

- To reflect the EU Member States' activities and initiate a forum for collaboration and exchange within the EU,
- To include an international dimension beyond Europe for benchmarking and outreach, covering current international activities, especially in the US, Japan, South Korea, Australia, China and Singapore,
- To provide opportunities for networking between EC officials, policy makers, key academics, industry and societal stakeholders.

The long term ambition is still to establish this conference as an annual event beyond the duration of the supporting projects. Exhibit space, sponsors and participants fees may eventually be required in order to continue organization of the conference without funding support.

#### 1.3.Format

The first Conference was organised over two full days with the motto "Bringing real-life connected and automated road transport to the heart of Europe" in the EC Charlemagne conference centre in Brussels with more than 700 participants. The two newly EU-funded Coordination and Support actions CARTRE and SCOUT have cooperated to prepare this conference. No additional sponsors are planned for this first edition.

The conference consisted of a series of plenary morning sessions complemented with nine afternoon thematic breakout discussions with 3 parallel tracks (see figure 1). The Conference was concluded with a wrap-up of each of the break out session by the nominated rapporteur before the closing session.

Limited Exhibition spaces were organised outside the plenary room in order to display active European and National activities.

## 2. Overall programme of the conference

|                     | 09:15 - 09:35<br>(20 min) | Opening  • Carlos Moedas, European Commissioner for Research, Science and Innovation (RTD)  • Violeta Bulc, European Commissioner for Mobility and Transport (MOVE)                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |                                  |  |
|---------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|--|
|                     | 09:35 - 10:45<br>(70 min) | <ul> <li>Plenary panel discussion</li> <li>Violeta Bulc, European Commissioner for Mobility and Transport (MOVE)</li> <li>Håkan Samuelsson, President &amp; CEO, Volvo Cars</li> <li>Roberto Vavassori, President, CLEPA</li> <li>Uwe Janßen, Vice President Innovation and Research, Deutsche Telekom</li> </ul>                                                                                                                                                                                                                                                                                 |                                        |                                  |  |
| 17:10               | 10:45 - 11:30<br>(45 min) | <ul> <li>Research and Innovation Challenges of Connected and Automated Driving</li> <li>Clara de la Torre, DG Research and Innovation (RTD), Transport Directorate, European Commission</li> <li>Dr. Carlo JT van de Weijer, Director Smart Mobility, Technical University of Eindhoven, The Netherlands</li> <li>José Manuel Viegas, Secretary-General, International Transport Forum, OECD</li> <li>Jean-Luc di Paola-Galloni, Vice-President for Sustainability and External Affairs, Valeo Group &amp; Vice-Chairman of ERTRAC (European Road Transport Research Advisory Council)</li> </ul> |                                        |                                  |  |
| :15-                | 11:30 - 12:00             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Break                                  |                                  |  |
| Day 1 - 09:15-17:10 | 12:00- 13:15<br>(75 min)  | Shared and automated mobility services for our cities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Physical and Digital<br>Infrastructure | In-vehicle technology<br>enabler |  |
|                     | 13:15 - 14:45             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lunch                                  |                                  |  |
|                     | 14:45 – 16:00<br>(75 min) | Vehicle<br>Validation/certification<br>Roadworthiness testing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Big Data, IoT, AI, Deep<br>Learning    | Human Factors &User<br>awareness |  |
|                     | 16:10 – 16:25             | Introductory speech • Roberto Viola, Director General, DG CONNECT, European Commission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |                                  |  |
|                     | 16:25 – 17:10<br>(45 min) | <ul> <li>Digital technologies enabling Connected and Automated Driving</li> <li>Despina Spanou, Director, DG Communication Networks, Content and Technology (CNECT), European Commission</li> <li>Nadine Leclair, Senior Vice President Global Expertise Management &amp; Member of the Board of Directors, Renault</li> <li>Prof. Ralf Herrtwich, Head of Automotive Business Group, HERE</li> <li>Matteo Gatta, Director Tech Strategy &amp; Innovation, PROXIMUS</li> </ul>                                                                                                                    |                                        |                                  |  |
|                     |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Change of venue                        |                                  |  |
|                     | 17:30 – 20:00             | Social networking event at AutoWorld                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |                                  |  |

|                     | 09:00 - 09:15             | Opening • Melanie Schultz van Haegen-M Environment, The Netherlands (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 | nfrastructure and the                                  |
|---------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------|
|                     | 09:15 - 10:15<br>(60 min) | <ul> <li>EU MS programmes on Connected and Automated Driving</li> <li>Antti Vehviläinen, Director General, Finnish Transport Agency, Finland</li> <li>Jean-François Sencerin, Program Director, Autonomous Vehicle PFA/NFI, France</li> <li>Hamid Zarghampour, Programme Officer, Swedish Transport Administration, Sweden</li> <li>Ian Forbes, Head of the Centre for Connected and Autonomous Vehicles, Department for Transport, The United Kingdom</li> <li>Henriette Spyra, Strategic Coordinator Mobility Transformation &amp; Transport, Austria</li> <li>Jaime Moreno García-Cano, Deputy-Director General for Mobility, Directorate General for Traffic, Spain</li> <li>Dr. Tobias Miethaner, Director General Digital Society, Federal Ministry of Transport and Digital Infrastructure (BMVI), Germany</li> </ul> |                                 |                                                        |
|                     | 10:15 - 11:00<br>(45 min) | <ul> <li>Cooperative systems deployment towards Connected and Automated Driving</li> <li>Claire Depré, Head of Unit, DG Mobility and Transport (MOVE), European Commission</li> <li>Dr. Teodor Buburuzan, Leading Communication Engineer, Volkswagen AG</li> <li>Joël Valmain, Adviser for European and International Affairs, Ministry of Interior, France</li> <li>Martin Böhm, Head of Mobility Systems &amp; ITS Deployment, Austriatech</li> </ul>                                                                                                                                                                                                                                                                                                                                                                      |                                 |                                                        |
| 6:30                | 11:00- 11:30              | Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                        |
| Day 2 - 09:00-16:30 | 11:30 - 12:15<br>(45 min) | <ul> <li>Which policy and regulatory EU frameworks for CAD</li> <li>Gwenole Cozigou, Director, Industrial Transformation and Advanced Value Chains, DG Internal Market, Industry, Entrepreneurship and SMEs (GROW), European Commission</li> <li>Edwin Nas, Dep. Project Leader Connected and Automated Driving, Ministry of Infrastructure and the Environment, The Netherlands</li> <li>Jos Vantomme, Smart Mobility Director, European Automobile Manufacturers' Association (ACEA)</li> <li>Ferry Smith, Director Public Affairs, ANWB</li> </ul>                                                                                                                                                                                                                                                                        |                                 |                                                        |
|                     | 12:15 – 13:00<br>(45 min) | <ul> <li>International Cooperation</li> <li>Dr. Gereon Meyer, Dept. Future Technologies and Europe, VDI/VDE-I&amp;T, Germany</li> <li>Seigo Kuzumaki, Program Director of SIP-adus, Chief Safety Technology Officer Secretary, Chief Professional Engineer - Safety, R&amp;D and Engineering Management Div., Toyota Motor Corporation, Japan</li> <li>Lam Wee Shann, Group Director, Technology and Industry Development, Land Transport Authority, Ministry of Transport, Singapore</li> <li>Dr. Steven Shladover, California PATH Program Manager, University of California Berkeley, USA</li> </ul>                                                                                                                                                                                                                      |                                 |                                                        |
|                     | 13:00 – 14:15             | Lunch (75 min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                                        |
|                     | 14:15 – 15:30<br>(75 min) | Digital IT Infrastructure &<br>Connectivity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Socio-economic<br>Impact of CAD | Shared economy –<br>automation and<br>electro-mobility |
|                     | 15:30 – 16:15<br>(45 min) | Breakout wrap-up session (45 min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                 |                                                        |
|                     | 16:15 - 16:30             | Closing • Paraskevi Michou, Deputy Secretary-General, European Commission                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                        |

#### 3. Plenary sessions

The plenary programme was organised by the four European Commission DGs RTD, MOVE, CNECT, and GROW with the support of the CARTRE coordination action. The plenary sessions equally covered European Commission's initiatives: DG RTD's Strategic Road Transport Innovation Agenda (STRIA), DG CONNECT's Connected and Automated Driving Round Table, DG MOVE's C-ITS platform and DG GROW's GEAR2030.

#### 3.1. Opening session and high level panel discussion

The opening session and following panel discussion addressed a number of open topics. Each panellist represented a part of the sector directly concerned by the development of CAD. The panellists gave details about:

What are the driving forces for your sector to deploy connected and automated driving systems and technologies? What are the potential benefits for users?



- How can we best support the deployment of connected and automated driving systems to keep the global competitive position of the EU automotive industry?
- Are existing international, European and national rules sufficient to facilitate the introduction of connected and automated vehicles on the market and enable their cross-border use?

#### **Speakers**

#### **Opening**

- Carlos Moedas, European Commissioner for Research, Science and Innovation (RTD)
- Violeta Bulc, European Commissioner for Mobility and Transport (MOVE)

#### Plenary panel discussion

- Violeta Bulc, European Commissioner for Mobility and Transport (MOVE)
- Håkan Samuelsson, President & CEO, Volvo Cars
- Roberto Vavassori, President, CLEPA
- Uwe Janßen, Vice President Innovation and Research, Deutsche Telekom

#### **Highlights**



Carlos Moedas, Commissioner for Research, Science and Innovation, said: Automated road transport is such a fast-moving and important area that it requires a coordinated and a collaborative approach within and between the public and the private sphere. A vast range of sectors, from the automotive industry and road infrastructure to IT and telecoms, have a role to play in exploring this new frontier.

That's why this first European event is so important.

Violeta Bulc, European Commissioner for Mobility and Transport (MOVE) reaffirmed Europe's worldwide lead affirming that; Europe needs to lead and shape the future of connected and automated driving and collaboration is the keyword for the deployment of connected vehicles. CONTROLS AND CONTR

Roberto Vavassori, President of CLEPA said; we welcome the fact that four DG's have prepared this conference. Additionally in the last months the



automotive and telecommunications industry have worked together to deploy the connected and automated driving applications. President Vavassori also stressed that data is at the core of connected and automated driving and that data will need to be differentiated for effective use and regulation.



Volvo Cars believes governments and car makers should join hands in sharing traffic data in order to improve global traffic safety - Håkan Samuelsson, president and chief executive

Dr. Bruno Jacobfeuerborn, CTO of Deutsche Telekom, expressed its deep support to the automotive industry to engage in various trials and pre-deployment activities, such as the activities taking

place on the A9 in Germany. He also mentioned the role of the round table on CAD to bring these two industries closer to each other.

The following discussions rotated around the role of digital technologies for CAD, how to cooperate between public and private sectors, what actions are needed to make data available, and how CAD will look like in 2030.

#### 3.2. Research and Innovation challenges of CAD

For several years huge R&I efforts are being invested in developing and demonstrating systems for connected and automated driving (CAD). Significant progress has been made in key technologies for innovative CAD functions and applications (e.g. advanced vehicle control, systems to detect vehicle location and environment, data processing, artificial intelligence, human-machine interaction, etc.). To make the next step towards roll out, large-scale pilots are necessary to test and improve the performance and safety of innovative CAD systems and to study market potentials and risks.

There are still many challenges to overcome before automated driving will be widely available on the market for use in many different environments and conditions. More research work is needed in areas such as automated driving in mixed conditions and complex environments, data collection and management, security and privacy aspects of sensitive data, communication technologies for higher levels of automation, design of fail-operational systems, safety validation methodologies, etc.

CAD systems will not become available only by integrating more and better technologies. In order to identify promising use cases that have social and economic benefits, we have to better understand how users perceive and value future use of CAD for specific purposes. For making decisions on investments related to CAD systems, it is necessary to assess the short, medium and long term impacts, benefits and costs of the deployment of CAD vehicles.

This plenary session brought together the academic research community and automated driving industry to outline the research challenges of future transport systems, where connected and automated driving can bring its added value to different use cases, for urban environments or for long-haul transport. The focus of this session was to discuss R&I priorities for the next 10 to 20 years and key policy actions to support R&I towards deployment of connected and highly automated driving systems in Europe.

#### **Speakers**

#### Research and Innovation Challenges of Connected and Automated Driving

- Clara de la Torre, DG Research and Innovation (RTD), Transport Directorate, European Commission
- Dr. Carlo JT van de Weijer, Director Smart Mobility, Technical University of Eindhoven, The Netherlands
- · José Manuel Viegas, Secretary-General, International Transport Forum, OECD
- Jean-Luc di Paola-Galloni, Vice-President for Sustainability and External Affairs, Valeo Group & Vice-Chairman of ERTRAC (European Road Transport Research Advisory Council)

#### **Highlights**



Clara de la Torre, Director, DG Research & Innovation (RTD), Transport Directorate, European Commission said; we must seriously consider autonomous vehicles role in the transport system. Connected and automated driving will address the needs of users in particular and society in general.

Dr Carlo JT van de Weijer, Director of Smart Mobility at the Technical University of Eindhoven said; we need to put the human at the centre of connected and automated driving. Dr Weijer demonstrated the challenges for connected and automated using bike traffic in Amsterdam as an example. "The urban space is the major left over challenge for mobility. Driverless cars, faced with



indecisive, distracted humans, may just park and start carrying. Smart mobility is more than just automation."



José Manuel Viegas, Secretary-General of the International Transport Forum (OECD) called Europe to be social ready and for a fair distribution of automated vehicles among EU member states. "European standers will be crucial for the effective deployment of connected and automated vehicles."

#### 3.3. Digital Technologies enabling CAD

Cooperative, Connected and Automated Mobility (CCAM) holds the promise to help addressing many of the major challenges of today's transport system. CCAM has the potential to increase safety and energy efficiency, improve air quality, reduce congestion and enhance user comfort and convenience. An even bigger impact is expected from shifting value chains: connectivity and high levels of automation enable innovative services as well as third parties "accessing the dashboard" and providing the driver new choices.

Car manufactures around the world are unanimous in predicting the emergence of higher level of automation on our roads sometime in the near future.

Digital technologies are enablers for convergence of connectivity and automation in vehicles. To make CCAM commercially viable, a pan-European enabling digital framework is needed, focusing on connectivity, 5G and wise use of data. Well-promising solutions focusing on interoperability needs and secure and unhampered communication will pave the way for quick and efficient deployment of CCAM.

The European automotive and the telecom sectors joined forces last year to jointly overcome the remaining barriers to the roll-out of increasing levels of automation on Europe's roads.

These joint efforts will at the same time help European industries to preserve and consolidate its global leadership in Connected and Automated Driving.

#### **Speakers**

#### **Introductory speech**

• Roberto Viola, Director General, DG CONNECT, European Commission

#### Digital technologies enabling Connected and Automated Driving

- Despina Spanou, Director, DG Communication Networks, Content and Technology (CNECT), European Commission
- Nadine Leclair, Senior Vice President Global Expertise Management & Member of the Board of Directors, Renault
- Prof. Ralf Herrtwich, Head of Automotive Business Group, HERE
- Matteo Gatta, Director Tech Strategy & Innovation, PROXIMUS

#### **Highlights**

This session examined the current status and possible future scenarios of CCAM, and discussed the emerging issues from the perspectives of different stakeholder groups. We focused on core opportunities and challenges, such as those related to seamless connectivity, 5G, security, safety, liability and consumer acceptance.

Main questions addressed during the session were:

- What is the added value of connectivity in terms of automation?
- What could the telecom industry do more to make the cellular connectivity more appealing to the car industry?
- Which areas you think are the easiest ones to strike an agreement among all stakeholders on the openness/use of data and which are the most difficult ones and how could the recent Commission initiative on Data Economy help in this respect?
- What do you see as main strengths/opportunities/risks for Europe (vis-à-vis our international competitors) in the race to connected and automated driving?



Roberto Viola opened the topic by highlighting the recent signature of a Letter of Intent between 29 ministers (27 MS signed and Norway and Switzerland) at the digital day of the 60<sup>th</sup> anniversary of the EU in Rome. This was an important signal to support that all MS want to work together to enable the realisation of cross-border connected driving solutions supporting automation. As a next step,

EC will identify these corridors over the whole Europe. Additionally, spectrum allocation is needed for the future 5G mobile networks. The role of the EC is to facilitate the process and put the financial means to realise these ambitious goals.

Despina Spanou (DG CNECT) introduced CAD as a major real-life experiment for the overall accomplishment of the digital economy; three areas emerged as fundamental: seamless Connectivity of CAD with the roll out of 5G,

Cybersecurity integrated in automated vehicles and infrastructure, and Trust to enable acceptance of data exchange (including liability issues).



Nadine Leclair (Renault) introduced the Platform for connected cars which includes essential technology building blocks: integrated communication using anything available to transfer data, large data collection and processing in cars and outside, life-cycle continuous improvement with over-the-air updates, and

operational performance.



Prof. Ralf Herrtwich (HERE) insisted on importance of the backend challenges for enabling CAD. Beyond location and guidance, self-learning high-definition maps for CAD will become a reality index that are collected by vehicles, aggregated in the cloud and fed back to all others. For this to happen, connectivity, coverage, bandwidth and cost will be keys to success. Give-and-get models

will trigger more willingness to share data.

Matteo Gatta (PROXIMUS) presented the evolution towards 5G as an important building block to enable CAD passing by 4G+ and 4.5G gradual evolution of the mobile communication networks. This will offer new opportunities in coverage, capacity, latency and QoS.



#### 3.4. Ministerial speech and European Member States panel

Since last year Connected and Automated Driving (CAD) is put high on the agenda of the EU and national governments. There is increasing awareness amongst decision makers that action from public authorities is needed to create the right conditions for safe deployment of CAD. Several national and regional plans have been launched in Europe and a number of European Member States have started to prepare and implement large scale testing of CAD functions on public roads.

This session will provide an overview of current policy measures adopted by European Member States including available funding programmes and support to large-scale testing facilities.

National activities regarding pilots and testing of CAD will be illustrated by elaborating on objectives, scale, type of tests, and levels of automation.

In particular, aspects related to required modification of road infrastructure and types of infrastructure (e.g. physical, ITS communication) will be considered.

The main objective of the session is to support mutual understanding of current initiatives, to discuss alignment between national and EU initiatives and to identify possible areas of cooperation.

#### **Speakers**

#### **Opening**

• Melanie Schultz van Haegen-Maas Geesteranus, Ministry of Infrastructure and the Environment, The Netherlands (to be confirmed)

#### EU MS programmes on Connected and Automated Driving

- Antti Vehviläinen, Director General, Finnish Transport Agency, Finland
- Jean-François Sencerin, Program Director, Autonomous Vehicle PFA/NFI, France
- Hamid Zarghampour, Programme Officer, Swedish Transport Administration, Sweden
- Ian Forbes, Head of the Centre for Connected and Autonomous Vehicles, Department for Transport, The United Kingdom
- Henriette Spyra, Strategic Coordinator Mobility Transformation & Transport, Austria
- Jaime Moreno García-Cano, Deputy-Director General for Mobility, Directorate General for Traffic, Spain
- Dr. Tobias Miethaner, Director General Digital Society, Federal Ministry of Transport and Digital Infrastructure (BMVI), Germany

#### **Highlights**



The opening speech on the second day of the conference was given by the Dutch Minister of Infrastructure and the Environment Melanie Schultz van Haegen. The minister's core message was for national member states to work together on cross border testing and trials for self-driving cars. The Minister further stated that regulations should be forward looking and stressed the importance of learning by doing.

The session on the EU Member States programmes on connected and automated driving regrouped representatives from Finland, France, Sweden, UK, Austria, Spain, Germany and Netherlands. It provided an overview of current policy measures adopted by the European Member States including available funding programmes and support to large-scale testing facilities. The session supported mutual understanding of current initiatives and encouraged alignment between national and EU initiatives. Possible areas of cooperation at European level were still unclear.



Antti Vehviläinen presented the Finish National Action Plan 2016-2020 focussing on Infrastructure, Roads, Services, Vehicles, and Drivers. Testing on open roads has been facilitated and different pilots have started on allocated infrastructure e.g. the Aurora Test Ecosystem offering a test bed for CAD in real Arctic weather conditions. Additionally, Finland is investing in their "road 2.0"

programme to improve the exchange of relevant data across the public-private clouds.

Jean-François Sencerin introduced the Autonomous Vehicle French national programme (PFA) part of the "Nouvelle France Industrielle (NFI)". France has the intention to be a place for automated vehicle experimentation with access to a center of excellence for embedded intelligence and a great expertise in critical system safety. During the last year, the French programme



has more than doubled the number of authorised CAD prototypes on public roads. VEDECOM and SystemX are mentioned as major centres of excellence for CAD.



Hamid Zarghampour spoke about their Strategic Innovation Programme called Drive Sweden which includes a large variety of partners (56) from different sectors to work on next generation mobility solutions. Among other, it includes the Drive Me Volvo Car project making L4 Volvo's available to 100 families around Gothenburg. Other activities are mentioned: Truck Platooning, off-

road truck in mining environment, commuter shuttles, 5G cloud and AstaZero, a collaborative test ground for CAD.

Ian Forbes talked about the work of the UK DfT Centre for Connected and Autonomous Vehicles (CCAV). CCAV is jointly funding a CAD programme of more than 100 m£ which is matched funded by the industry; it has also worked on regulatory reform actions such as the UK code of practice for testing CAD, the sales and use of CAD vehicles, the vehicle insurance bill.



Finally, CCAV is investing in building up an integrated suite of testing environments for CAD.



Henriette Spyra emphasised the involvement of Austria in C-ITS activities building up their digital infrastructure with the automotive, IT and robotic industry. Austria has established a legal framework for testing with a single point of contact at AustriaTech. In Addition, Austria is investing in research and testing environment with more than 20m€. Finally, the ministry looks at the combination of

electrification, automation, digitalisation towards societal goals especially decarbonisation.

Finally, Jaime Moreno presented DGT's proactive work on CAD. Spain is one of the countries with little legal barriers for higher levels of automation: all road network is open for CAD testing. Spain is a leader in automotive environment for CAD with high engagement of the industry, research and innovation and policy support. DGT promoted their connected platform offering



anonymous free data hubs especially for road safety data using the cellular network.

*Dr. Tobias Miethaner*, Director General Digital Society at the Federal Ministry of Transport and Digital Infrastructure (BMVI) could unfortunately not attend the conference and present the progress in Germany.

#### 3.5.Cooperative systems deployment towards CAD

As outlined in the European Commission's strategy on Cooperative Intelligent Transport Systems in many respects today's vehicles are already connected devices. However, in the very near future they will also interact directly with each other and with road infrastructure.



This interaction is the domain of Cooperative Intelligent Transport Systems (C-ITS), which will allow road users and traffic managers to share and use information previously not available and to coordinate their actions. This cooperative element – enabled by digital connectivity – is expected to significantly improve road safety, traffic efficiency and comfort of driving, by

supporting the driver.

Cooperation, connectivity, and automation are not only complementary technologies; they reinforce each other and over time will merge completely. Truck platooning (trucks communicating automatically and safely following each other at very short distance) is a good example: connectivity, cooperation and automation must all come together to make it work.

To ensure coordinated deployment of C-ITS services in 2019, an unprecedented level of cooperation across many sectors is required to make Connected Automated Driving (CAD) a success.

Since November 2014, the Commission has hosted the C-ITS platform to identify remaining barriers and propose solutions for C-ITS deployment in Europe. In 2016, Member States and the Commission launched the C-Roads Platform to link C-ITS deployment activities, jointly develop and share technical specifications and to verify interoperability through cross-site and cross-border testing.

This plenary session on C-ITS brought together experts from both the public and private sector. They will expand on what Cooperative ITS brings to them, what they get out of the work being done within the C-ITS platform and why they felt the need to get involved in this platform. On the C-Roads Platform, we heard about who is involved in this project, what services it is deploying and what are the expected outcomes and feedback into the C-ITS policy work.

#### **Speakers**

Cooperative systems deployment towards Connected and Automated Driving

- Claire Depré, Head of Unit, DG Mobility and Transport (MOVE), European Commission
- Dr. Teodor Buburuzan, Leading Communication Engineer, Volkswagen AG
- Joël Valmain, Adviser for European and International Affairs, Ministry of Interior, France
- Martin Böhm, Head of Mobility Systems & ITS Deployment, Austriatech

#### **Highlights**



Claire Depré talked about C-ITS on the European roads. Thanks to the joint efforts of the public and private sector, the date of 2019 has been set for deployment of C-ITS over Europe. Interoperability is seen as a key for success and all EU Member States are working towards this goal.

Joël Valmain reframed the discussion around road safety and the work done at the UNECE. The "ITS/AD" informal group of experts on automated driving (IGEAD) has been formed in 2015. Driver engagement in secondary tasks is being considered in a forthcoming amendment. Also, a non-binding advisory article for CAD may be proposed. Remote parking is the subject of a



discussion paper.



Dr. Teodor Buburuzan talks about electric mobility and digitalisation including connectivity. VW sees connectivity as the combination of cellular based and 802.11p technologies. VW considers 5G as an evolution path to improve scalability unlocking

new user centric services. ITS-G5 is seen as an additional connectivity which will evolve from information delivered to drivers towards machine-to-machine data. As an OEM, VW is asking more clarity on some essential elements before deployment of C-ITS: Certificate policy to prepare for broad deployment, data protection clarity on CAM/DENM messages, spectrum clarity, and transparency on IPRs.



Martin Böhm presented C-ROADS as a platform grouping many European Member States deployment activities facilitated by the CEF programme. C-ROADS prepares the MS for the 2019 deployment of C-ITS. The focus is to enable interoperability with handover of services across borders. C-ROADS puts together the experts working on national pilots and feeding the working groups

so that they deliver practical recommendations to facilitate EU-wide deployment. Martin invited to the TRA2018 conference.

#### 3.6. European Policy and regulatory framework for CAD

Policy expectations are high on Connected and Automated Driving (CAD): offering new transport services, improving traffic management, saving fuel, reducing road fatalities, creating a new area for jobs and competitiveness in the EU to mention just a few of the potential benefits.

Policy and regulatory actions in favour of CAD are already taking place within the Commission and the Member States. But automated and connected vehicles raise crosscutting issues (traffic law, liability, vehicle certification, connectivity infrastructure, etc.) involving different departments within the Commission or within the Member States which require working together in a coherent manner.

This is the reason why the Commission launched at the beginning of 2016 the GEAR 2030 High level group launched by the Commission gathering the relevant Commissioners, Member States and stakeholders representing various industries: automotive, telecoms, IT, insurance. The High Level Group will assist the Commission in developing a long-term EU strategy for highly automated and connected vehicles by the end of 2017. The Group will build on complementary EU initiatives (e.g. C-ITS Platform, 5G Action Plan, etc.) and will in particular make recommendations to ensure that the relevant policy, legal framework and public support are in place for the roll-out of highly automated and connected vehicles by

2030. The Group has delivered its first recommendations for automated and connected vehicles up to 2020 and will deliver by the end of summer 2017 recommendations for automated and connected vehicles up to 2030.

The main objective of this Plenary Session is to give an overview of the GEAR 2030 work and discuss the first recommendations for CAD.



#### **Speakers**

#### Which policy and regulatory EU frameworks for CAD

- Gwenole Cozigou, Director, Industrial Transformation and Advanced Value Chains, DG Internal Market, Industry, Entrepreneurship and SMEs (GROW), European Commission
- Edwin Nas, Dep. Project Leader Connected and Automated Driving, Ministry of Infrastructure and the Environment, The Netherlands
- Jos Vantomme, Smart Mobility Director, European Automobile Manufacturers' Association (ACEA)
- Ferry Smith, Director Public Affairs, ANWB

#### **Highlights**



Gwenole Cozigou presented CAD deployment from a point of view of industry policy. Policy and regulatory actions in favour of connected and automated driving are already taking place within the Commission and the Member States. But automated and connected vehicles raise cross-cutting issues (traffic law, liability, vehicle certification, connectivity infrastructure, etc.) involving

different departments within the Commission or within the Member States which require working together in a coherent manner. This is the reason why the Commission launched at the beginning of 2016 the GEAR 2030 High-level group. The work on CAD consisted of two phases: actions up to 2020 and until 2030. It was confirmed that pilots of automated vehicles is widely needed and exchange of data is important. Eventually, data generated by cars may require specific regulations if we compare to the mobile phone. A EU strategy on CAD policy will be published by the end of 2017.

Edwin Nas claims that many automated vehicles functions are already on the roads. So the work in GEAR2030 WG on CAD is very timely. First, at UNECE WP1, the revision of the role of the driver gives room to higher levels of automation. For the short term introduction of 2020 CAD, the WG issued recommendations on cross-border testing, HMI, connectivity, data and liability. Especially, the role of data recorders was emphasised to solve the liability bottlenecks. The future of type approval is under consideration. Additionally, for the longer term, the WG added issues on road safety.





Jos Vantomme enumerated electrification, connectivity, shared mobility and automation as a combined set of disruptive technology trends. These will change the industry as we know it towards new alliances with non-automotive actors such as ICT sector. The role of regulations should be to create a level playing field where needed, provide legal certainty for stable investment opportunities

and only intervene where market forces fail. Two approaches are ongoing at the moment to regulate the CAD deployment: vertically (vehicles, road and ICT infrastructure), and horizontally (data economy, enabling technologies, and international dialogue). The industry's priority is to go beyond products towards services, collect and access large amount of data while fostering trust and confidence, facilitate higher levels of automation, and ensure continued and coherent cooperation with all stakeholders.

Ferry Smith talked about the challenges from a consumer point of view: Simple systems with intuitive interactions and similarities between brands, Driver training needs even for non-

automated vehicle drivers in mixed traffic, Clarity during a transition period to avoid mode confusions and distraction, Access to data generated by vehicle and from event data recorder, and finally, the conclusion raised the question on "what is safe enough"?



The panel concluded that it is crucial that the European Union provides the right legal and regulatory framework,

innovation-friendly conditions and support to research projects as well as large-scale trials. This includes support through Horizon 2020.

#### 3.7.International Cooperation

Many of the challenges on the way towards deployment of CAD systems can be better addressed in cooperation with international partners. It is essential to develop and maintain close cooperation with other regions of the world to exchange knowledge, expertise and best practises and to work towards a global framework and international standards for connectivity and automation technologies. Close international cooperation will also help to reduce duplication of efforts, and encourage sharing of knowledge and data collected in research projects and large-scale pilots. Cooperation is also needed on complementary research in areas, such as human-machine interface, social acceptances of CAD and ITS technologies.

International cooperation in the field of intelligent transport systems, road safety and road automation is already ongoing for several years, in particular between EU, US and Japan. In 2012 a tri-lateral working group (EU, US, JPN) on road automation has been established. The European Commission and the US Department of Transport support "twinning arrangements" of road automation projects funded by the EU and the US to expand the breadth of learning, optimize the use of mutual resources, and improve outcomes in both regions.

The objective of this session is to present policies and actions of different regions of the world to support the development and deployment of connected and automated driving systems and to discuss main benefits and future priorities for International Cooperation in the area of connected and automated driving.

#### **Speakers**

#### **International Cooperation**

- *Dr. Gereon Meyer*, Dept. Future Technologies and Europe, VDI/VDE-I&T, Germany
- Seigo Kuzumaki, Program Director of SIP-adus, Chief Safety Technology Officer Secretary, Chief Professional Engineer - Safety, R&D and Engineering Management Div., Toyota Motor Corporation, Japan
- Lam Wee Shann, Group Director, Technology and Industry Development, Land Transport Authority, Ministry of Transport, Singapore
- Dr. Steven Shladover, California PATH Program Manager, University of California Berkeley,

#### **Highlights**

Dr. Gereon Meyer presented the results of a study assessing the degree of the transport system maturity in a number of countries around the world and across all modes. Specific attention was on Automation and Connectivity. A series of best practices were identified from which lessons learned were



extracted. US California Regulatory exercise, Japan's SIP-adus and Singapore's Electrified Automated Shared Mobilty emerged as good use cases to learn from international activities; which is the reason they are represented in this panel.



Seigo Kuzumaki presented SIP-adus, a 5 year R&D effort with cross ministerial cooperation. The programme integrates all technologies which needs common concepts: Sensors, Maps, actuators, HMI, Cyber-security, Simulation, Connectivity, next generation transport, etc... the programme is now entering an intensive Field operational testing phase including industry,

research and government. The tests will take place around the Tokyo area on expressway, on arterial roads and at the JARI new test facility. The FOTs will help to validate the concepts developed in SIP-adus. SIP-adus will use a common platform as a basis to enable the data exchange while the OEMs will be allowed retain their proprietary data. Foreign industries are also invited to test.

Lam Wee Shann presented a concept for future urban mobility integrating CAD for people and goods mobility. The Committee on Autonomous Road Transport for Singapore (CARTS) covers both public and private stakeholders and works on planning, regulations and industry development. Several trials are taking place with fixed schedule services on small shuttles and larger busses, on-demand self-driving eTaxis, truck platoons, and autonomous utility vehicles



(cleaning and waste collection). The Centre of Excellence of Testing & Research of AVs-NTU (CETRAN) builds up technical knowledge for testing and certifying AVs. Invitation to the forthcoming 2019 ITS World Congress in Singapore.



Dr. Steven Shladover promoted the benefits of mutual exchange. He provided an extensive list of research cooperation topics which could be addressed internationally: fundamental technological research, testing methods, impact assessment, Safety assurance, Human interaction from inside and outside the vehicles, and cyberattack protection. On the other hand a few examples of topics

which are less interesting for cooperation are linked to either competitive aspects and/or national peculiarities (public education, regulatory process, political engagement).

#### 4. Thematic Breakout sessions

The breakout sessions were organised in order to encourage expert discussions on technical or non-technical ART topics. The thematic sessions will present the SoA in research, identify possible cooperation areas, identify gaps in research or policy, and outline the next steps. The thematic breakouts consisted of 75 minutes presentations and discussions with three sessions running in parallel in the three available conference rooms.

The list of the thematic areas (9 themes) addressed is:

- Shared and automated mobility services for our cities
- Physical and Digital Infrastructure
- o In-vehicle Technology enablers
- Vehicle Validation/Certification and Roadworthiness testing
- Big data, IoT, AI/Deep Learning
- Human Factors & User awareness
- o Digital IT Infrastructure and Connectivity (ITS G5, LTE-V2X, LTE-advanced, 5G)
- Socio-Economic Impact Assessment
- Shared economy automation and electro-mobility

The thematic breakouts were organised by recognised experts in the thematic field. The organisers were in charge of selecting the panellist for their breakout as well as listing a series of questions to be debated. The organiser reported their findings during the plenary at the end of the second day.

Each session is reported in this conference report.

#### 4.1.BO 01 - Shared and automated mobility services for our cities

**Organiser/s:** Vincent Blervaque (VEDECOM), Patrick Mercier-Handisyde (EC – DG RTD)

Moderator/s: Siegfried Rupprecht, RUPPRECHT CONSULT - Forschung & Beratung Gmb

#### Speakers:

- Koen De Broeck, Manager mobility & market research, De Lijn, Belgium
- Kawamoto Masayuki, SIP-adus Next Generation Transport WG Co-Chair, University of Tsukuba, Japan
- Yann Leriche, Chief Performance Officer, TRANSDEV, France
- Mikael Ivari, Senior Advisor, Development & International, City of Gothenburg, Sweden
- Dennis Potter, senior advisor, Program Manager Rivium-Campus, Gemeente Capelle aan den IJssel, The Netherlands
- David O'Neil, Head of the Political Service Department at Syndicat des Transports d'Îlede-France (STIF), France

#### **Introduction**

Shared and automated mobility services are a unique opportunity to bridge the gap between individual mobility needs and community interests by delivering complementary mobility offer integrated with existing high capacity multimodal public transport. They can contribute to make public transport more attractive, support modal shift and reduce pressure from the use of private vehicles by offering a well-integrated and cost-effective public transport service with a high frequency and short waiting times, at peak and off-peak periods. Introduction of on-demand and door-to-door services will improve accessibility of public transport services

to all users and sustain development of public transport as urban mobility backbone with complementary line services offering viable business models and service flexibility.

#### Main topics addressed

Mobility in urban and suburban areas faces significant challenges with respect to accessibility, safety, security, environment, service quality of public transport and financing. Shared and automated mobility services have the potential to address these challenges and to offer concrete solutions which are not technically or economically feasible with conventional public transport systems. This session will report on expectations from local authorities to meet policy goals in cities, strategies developed by transport authorities to facilitate integration of automated vehicles and associated shared mobility services in existing public transport systems, and lessons learnt from trials and commercial operations by public transport operators and mobility service providers.

Main topics addressed during this session are:

- How to provide efficient and flexible 24/7 mobility services in all urban / sub-urban areas including those with medium/low demand, that are with accessibility to all, including persons with reduced mobility capabilities?
- How to reduce negative environmental and health impacts in cities from transport such as congestion, air pollution, noise?
- How to improve road safety in urban and sub-urban environments, especially for vulnerable road users?
- How to offer high-quality mobility services and to make public transport a more attractive option in a way that is both affordable to users and economically viable for operators and service providers?
- How shared and automated mobility services can be a game changer for sustainable urban mobility?

#### Main outcomes and open issues identified

This session brought together local authorities, transport authorities and public transport operators who have already gained deep knowledge on shared and automated mobility services. This session was not about what technology can deliver but what policy makers and decision makers need to improve and sustain urban mobility for all users. Based on their past experiences of shared mobility services, speakers expressed their views on how to benefit from the next evolution towards shared and automated mobility services. All speakers made similar statement on the need to fully integrate to the existing public transport systems to complement them with new mobility services that are not feasible or not economically viable with conventional vehicles (e.g. night service, door-to-door, on-demand). When talking about automated driving, cities give preference to shared automated driving vehicle scenario in order to make better use of public space (expected reduction of parking spaces) and mitigate risk of increasing congestion linked to private automated driving vehicles.

Beyond technology, first experiences of shared and automated mobility services have raised the issue about human presence in vehicles. Because public transport vehicle drivers are doing more than just driving, it is important to learn about the impact of driverless vehicle with respect to user acceptance, passengers' safety and security and ticketing.

All speakers agreed that public and private stakeholders representing demand and supply sectors need to gain more knowledge to get ready for full scale deployment through pilots and demonstrations of shared and automated mobility services in real-life conditions in different urban environments and with different categories of shared automated vehicles.

#### 4.2.BO 02 - Physical and Digital Infrastructure

**Organiser/s:** Risto Kulmala, Finnish Transport Agency & Geert van der Linden, EC DG MOVE

Moderator/s: Risto Kulmala, Finnish Transport Agency

#### Speakers:

- Stephen T'Siobbel, Sr. Partner Development Manager, Tom Tom Maps
- Manfred Harrer, Austrian national operator of the highways and motorways (ASFINAG)
- Armin Gräter, Driver Assistance Development, BMW Group
- Frank Försterling, Head of Advanced Dev and Innovations Infotainment Solutions, Continental AG
- Tom Alkim, Senior Advisor Connected & Automated Driving, Ministry of Infrastructure and the Environment, The Netherlands

#### Introduction

The adaptation of physical infrastructure and its link with the digital infrastructure is a key issue for the deployment of connected and automated vehicles. Physical infrastructure, from roads and bridges to traffic signals and lamp posts, may need to be updated with regard to its planning, building, maintenance and operation processes, guidelines and practices. The "Digital Road infrastructure" may be defined as "the digital representation of road environment required by Automated Driving Systems, C-ITS and Advanced Road/Traffic Management System". It can be understood as the integration of multiple geo-located information layers containing:

- Static Basic Map Database (e.g. Digital cartographic data, Topological data, Road Facilities)
- Semi-static Planned activities and forecast (e.g. traffic regulations, road works, weather forecast)
- Semi-dynamic Traffic Information (e.g. accidents, congestion, local weather)
- Dynamic Information through V2X (vehicle to anything communication, e.g. surrounding vehicles, pedestrians, timing of traffic signals)

In addition, it contains the infrastructures for integrating the afore-mentioned elements, i.e. the positioning infrastructures (e.g. satellite positioning, cellular and LAN positioning, roadside landmarks), communication infrastructures, and the back-office processes (e.g. information management centres, servers and databases, data interchange servers).

#### Main topics addressed

The session discussed the main issues related to the deployment, operation and maintenance of the physical and digital infrastructures for connected and automated driving and transport. The roles and responsibilities of the different stakeholders, the likely deployment scenarios and the time plans were discussed by representatives of stakeholders

from both the demand and supply side of the infrastructure. The speakers shared their views on the needs of connected and automated vehicles and transport towards physical and digital infrastructure as well as the objectives and plans of the infrastructure providers and operators. The session addressed issues such as real-time infrastructure maintenance, security, economic feasibility, business models, differences in operating environments ranging from rural roads in remote areas to busy interurban motorways and from residential areas to central business districts, and the specific problems in the transition phase towards full connectivity and automation. The session brought up many needs for actions on the European, national and local scale with regard to accelerating the deployment, coverage and quality of the physical and digital infrastructure to facilitate connected and automated driving. These actions covered the domains of research, innovation, deployment, maintenance, operation and service provision.

#### Main outcomes and open issues identified

The session brought up the fact that road operators must deal with challenges first to the profit of only a few drivers but gets the benefits later for the community, providing a business case and public investment model issue. Managing mixed traffic of both highly automated and non-automated vehicles is the major challenge in the near and medium term.

The issue of adding elements or leaving out elements of the infrastructure due to automation was also highlighted. Leaving out elements is only possible if there is no mixed traffic. Full benefits from higher automation will be reached only when all vehicles using the road in question are highly automated. This was seen as one driver for allocating specific roads, lanes and areas for highly automated vehicles.

Good road markings and signs as well as well-marked shoulders are important in the start to support the operation of the in-vehicle sensors of automated vehicles; this would also be beneficial to all road users with or without automation. Landmarks and roadside reflectors may turn out to be important as well.

Digital map stakeholders are pushing the innovation mostly towards high-definition real-time maps. The solution of using crowd souring techniques for building up digital infrastructure via interpretation of sensor data is showing good promise.

Maintaining real-time eHorizon based cloud data and reliable hybrid communications with low latency and good security and privacy protection was regarded as essential for safe automated driving.

#### 4.3.BO 03 - In-vehicle Technology Enablers

Organisers: Alessandro Coda (CLEPA), Patrick Pype (NXP)

Moderator: Alessandro Coda (CLEPA)

#### Speakers:

- Eckard Steiger, Director Chassis Systems Control, Robert Bosch GmbH
- Mark Mages, Manager Legal Regulations & Public Affairs, Division Chassis & Safety Systems, Continental
- Maurice Geraets, New Business / Board Member NXP Netherlands, NXP Semiconductors
- Jochen Langheim, VP Advanced Systems R&D Programs, STMicroelectronics
- Dominique Bolignano, CEO and Founder, Prove&run

#### Introduction

Enhanced vehicle automation functions have been implemented in the past years and more will come in the short future to improve road safety and reduce emissions and congestion.

Improvement of understanding of areas in the context of the vehicles could help to better perform vehicle functions. Connectivity, in-vehicle networks, Vehicle-to-everything (V2X) functions and Internet of Things (IoT), play a fundamental role in increasing the levels of automation in different environment: motorways, urban, inter-urban, rural, different traffic conditions, critical whether situations.

In-vehicle technology is today ready to implement at affordable cost in Connected and Automated - CAD and this is where, the suppliers of these system, devices and components are becoming an essential part of the evolution.

#### Main topics addressed and outcomes

The session focused on how suppliers are contributing to build the different elements of the improved layers and platforms towards the full CAD vehicle.

Vehicles integrating Internet of Things technology interact with each other and with personal devices, wearables, the cloud to deliver innovative services and applications.

This will require a revised view on what the future electronics platform in the car will look like and will consist of secure and reliable communication gateways and networks, data links among vehicles as well as between humans, vehicles and infrastructure.

New sensors and very high-speed multi-gigabit wireless communication networks need to be installed.

Drivers will have optimal guidance, avoiding traffic jams, respecting the vulnerable road users or find the most rational route to points of interest (e.g. electrical charging stations).

Smart sensors and accurate positioning methods will need to be able to detect potholes in the road and send a signal to road infrastructure operators to repair them. Software engineering and sensor fusion are becoming vital disciplines in the automotive industry due to the increasing amount and complexity of automotive control systems.

Security and privacy protection are becoming high relevant factors to avoid hacking and leakage of private data.

#### 4.4. BO 04 - Vehicle validation/certification and Roadworthiness testing

Organiser/s: IDIADA (Álvaro Arrúe), TNO (Bastiaan Krosse)

**Moderator/s:** Margriet van Schijndel, Secretary General, European Automotive Research Partners Association (EARPA)

#### **Speakers:**

- Dr. Adrian Zlocki, Senior Manager Driver Assistance, IKA
- Richard Schram, Technical Manager, EuroNCAP
- Arjan Van Vliet, Senior Advisor Corperate Strategy, RDW
- Takahiko Uchimura, Senior Vice President, ITS Japan

#### Introduction

Safety verification/validation and roadworthiness testing of automated vehicles involve the definition of a comprehensive set of methodologies and tools aiming to verify whether they comply with regulatory and technological requirements. This verification/validation of higher levels of automation is difficult to achieve with the existing technology but is one of the building blocks for the safe deployment of automated road transport on public roads. Strong challenges must be addressed to create complete, reliable and continuously evolving procedures that cover the whole vehicle lifecycle.

#### Main topics addressed

Safety validation and roadworthiness testing must cover different types of testing (compliance, commercial and up to type approval) but should also include different levels of granularity, the interaction with all road users (including the vehicle occupants) and with the environment (large amount of highly dynamic and highly variable scenarios) during the whole development process and beyond. Simulation and virtual testing will play an increasingly relevant role as it provides the way to deal with the high number of scenarios CAD will encounter. Verification/validation of CAD is a very complex process which is not solved yet.

For SAE level 4/5 systems, verification and validation can still not be fully achieved with current knowledge. Further research in the area is fundamental to build up from the existing regulatory framework while promoting a European wide approach. Exhaustive (safety) validation and trustful roadworthiness testing of increasingly complex systems are key elements to both guarantee and promote the successful deployment of safe, socially accepted automated road transport in our roads. This session provided further insight on the current status of the topic with special focus legal and technical requirements through the presence of worldwide key experts on the topic.

Several questions arise and should be answered in order to define a harmonized approach to the challenge:

- How to prove completeness of AD validation?
- How to speed up time to road test exemption?
- How to make test results more comparable?
- How to create a common benchmark for automated driving?
- How to identify the minimum performance requirements for automated driving?
- How can we develop and maintain a common safety methodology?
- How to handle an exploding number of validation tests?

#### Main outcomes and open issues identified

The panellists had the chance to present to the audience some of the worldwide initiatives that are trying to give an answer to these questions:

- RDW overviewed some of the challenges and needs for testing on public roads with two of its latest initiatives: the Dutch license exemption procedure and the European Truck Platoon Challenge as practical case.
- Euro NCAP highlighted its commitment to inform the users of the market situation, also for future AD functions. Their approach to introduce AD rating is based in functions and some defined use cases and they also informed about the importance and differences of how each OEM decides to implement these functions.
- IKA presented the German national project PEGASUS which is dealing with the topic. Among some of its activities a common scenario database is being created as a repository of (shared) scenarios and data that may be used for testing in the whole development process of an AD function.
- ITS Japan introduced the SIP-adus initiative, its topic areas, and the planned FOTs (2017-2019) that are going to test AD technologies on public roads and to improve user acceptance. Japan considers that roadworthiness testing and impact assessment should be considered together as a way to identify benefits and risks.

During the presentations and also during the discussion that followed, the importance of (international) cooperation was raised. This cooperation could take the following next steps:

- Harmonisation of regulation between Member States and regions or at least mutual recognition. This is critical for cross-border testing scenarios.
- Cooperation to develop cost efficient, harmonised vehicle validation
- Japan invited the audience to participate in Japanese open roads FOTs and SIPadus (November 2017)
- Euro NCAP explained its cooperation activities on active safety with other NCAPs
   They explained how their activities may complement regulation that may set (not very strict) minimum performance
- The potential was discussed to extend PEGASUS scenario database to other AD functions, countries and stakeholders i.e. technical centres, traffic authorities, etc.
- Stakeholder cooperation: RTOs, Industry, Member States and other stakeholders should work together in order to solve the technical challenge. At some point, industry needs to jump in to solve the technical challenge and road authorities should support these efforts.

#### 4.5. BO 05 - Big data, IoT, AI and deep learning

Organiser/Moderator: Sytze Kalisvaart, TNO.

#### Speakers:

- Tom Lüders, Hella
- Pieter Colpaert, Ghent University, IMEC
- Roberto Baldessari, NEC Europe Ltd.

#### Introduction

Modern vehicles are equipped with sensors monitoring the state of the vehicle itself and the world around it, thus becoming a source of big data. By applying artificial intelligence like machine learning and deep learning, they become learning devices as well. With the Internet of Things the cars will become a node in the network. In this session some key challenges of cars as sources of big data were discussed.

Vehicles use sensors to perceive the world around them. Verification of the sensors is an essential step towards automated driving, because the decision making in the automated car is based on the sensor output. However, sensor verification itself already brings some big challenges. The sensors produce a massive amount of data. A typical test setup has at least a number of cameras and radar and a LIDAR to determine the ground truth of the measurement. These sensors combined produce almost a gigabyte of data per second, which cannot be sent over the internet but needs to be recorded on a hard drive. This makes data transfer a slow process. In addition, the sensor output needs to be combined into a ground truth. This task still needs to be done primarily by humans, with the aid of suggestions by a deep learning algorithm. Typical standards require 100 000 km of driving for sensor verification, which means that millions of frames need to be annotated with the ground truth - is an immense task. Unfortunately re-using information from a previous test is not possible when validating a new sensor: the entire process needs to be redone.

An essential ingredient for connected automated driving is data sharing, for example on the infrastructure or traffic flow. For maximum re-use of data, the legal, technical, syntactic, and semantic interoperability needs to be raised. On the legal and syntactic side, open licenses/standards exist and are in use. On the technical side, the internet is already used to share data worldwide. The main challenges are therefore on the semantic level: how to access the data? The data interface should strike the golden mean between data publishing (cheap and reliable but user-unfriendly) and data services (expensive and unreliable but user-friendly).

On the technological side, object recognition appears to be a solved issue from an academic point of view; the current focus is on scene recognition. In the future, the software architecture abstraction might be foregone entirely, instead going directly from sensor input to path planning and control as a whole. Connecting cars with the Internet of Things can be done with existing technology, thus enabling connected driving. However, many challenges for connected automated driving still exist. Technical challenges include the definition of benchmarks to test against, how to make the burden of testing tractable, and how to ensure security, especially when cars are connected through the IoT.

#### Main outcomes and open issues identified

During the session, safety-related issues have been considered as the most important ones and different aspects/issues have been identified:

- The importance of the in-vehicle architecture that has a product-cycle of 5-10 years and therefore is a critical factor. The main elements are:
  - Hardware:
    - Digital maps that need to be continuously and accurately updated;
    - Sensors: whose raw data needs to be elaborated with other (redundancy of the sources) and "fused" into robust information
  - Software and communication: importance of the:
    - CAR2CAR consortium for the Vehicle-to-Vehicle and Vehicle-to-Infrastructure communication:
    - Automotive-Telecom Alliance for the deployment of the 5G mobile communication:
    - Cyber-security is becoming a fundamental aspect to be considered.
  - Importance of the subjects: Artificial Intelligence, Machine Learning, Internet of Things to build the applications.
- Validation, Certification and Authorisation of the new functionalities/systems/components.
- Affordability is a key success factor and the impact on the users with cost/benefit analysis is essential.

A few systems seem to be ready for the broader market introduction:

- Autonomous Emergency Braking,
- Parking Assistance,
- Lane Keeping Assistance,
- Truck Platooning.

#### 4.6. BO 06 - Human Factors & User awareness

Organisers/Moderators: Emma Johansson (Volvo Trucks) & Anna Schieben (DLR)

#### Speakers:

- Natasha Merat- Professor, Research Group Leader for Human Factors and Safety, ITS Leeds, UK
- Satoshi Kitazaki Director, AIST Automotive Human Factors Research Center, Japan
- Trent Victor Senior Technical Leader Crash Avoidance, Volvo Cars, Sweden.
- Andreas Keinath Head of Usability, BMW Group, Germany

#### Introduction

The role of the driver is often considered to be diminishing when increased degree of automation is introduced in vehicles. However, vehicles today and in the future will offer different levels of automation and will be used in in different traffic environments. That is why humans will still play a central role as e.g.:

- o drivers of these vehicles where their tasks and roles will shift according to the automation level.
- o *other road users*, including drivers of manually driven vehicles as well as vulnerable road users (cyclists, pedestrians).
- o remote operators of highly automated vehicles.

Proper design of the human-vehicle automation interaction is crucial in order to reach safe introduction of driving automation systems and driverless, automated driving system-dedicated vehicles and to ensure user acceptance and adoption.

Initial Human Factors related design recommendations have been suggested in order to support the design of safe, easy to use systems, ensuring positive outcomes from the implementation of driving automation systems whilst safe-guarding against potential downsides.

User-involved evaluation methodologies have been proposed which could capture intended as well as unintended effects of different levels of automation.

#### Main topics addressed

Driving automation systems can change the role of the human driver from an active operator of a vehicle towards a monitor or passenger. The session on **Human Factors and User Awareness** addressed challenges associated with the introduction of driving automation systems vehicles in mixed traffic environments, and outlined research needs within that domain.

Human Factors research supports the introduction of driving automation systems by providing knowledge and human-centred evaluation and design solutions to address different user groups with different needs (age, mobility behaviour, driving experience etc.) and cultural backgrounds.

Fundamental Human Factors challenges are to ensure safety, ease of use, trust, acceptance and comfort, for users/passengers of automated vehicles. Likewise, we shall ensure a safe and acceptable interaction with other road users including pedestrians and cyclists.

Key Human Factors research questions related to the above mentioned challenges are:

- to understand the interaction between humans and driving automation systems (invehicle and outside vehicle) at different levels of automation,
- to understand effects of vehicle automation on humans such as unintended use, skill degradation, trust, and motion sickness,
- to raise awareness and increase acceptance for automated driving,
- to adapt the vehicle automation to human needs and states and to establish adequate driver training,
- to derive interaction design concepts for the driving automation systems so that both the human driver and other humans in the surrounding sufficiently understand the capabilities and limitations of the vehicle.

The session on Human Factors and User Awareness addressed challenges associated with the introduction of driving automation systems in mixed traffic environments, and outlines current progress as well as future research needs. The two first presentations presented the international state-of-the art, followed by a description of the Human Factors results by industrial partners. The session was rounded up by a voting of the audience and discussion of CARTRE Statements (developed by the two specific CARTRE themes of interests on Human Factors and User Awareness) by the experts on the podium.

#### Main outcomes and open issues identified

The main outcomes of the session were the following:

- It is important to have a user centred design approach both in research as well as in development instead of designing and then hoping for (and measure) positive user experience, acceptance and high adoption. There is a strong need to study user interaction with vehicles in real world conditions. However, Human Factors research still need to iterate with more controlled laboratory settings/evaluations.
- There is a paradigm shift from looking at how to minimize secondary task engagement and how different types of secondary effect influence the causation of accidents and critical incidents. The new approach is to look if and how automation can actually be a distraction enabler. Will driving automation systems be the solution to distraction in traffic?
- The SAE levels of automation are often misunderstood by the general community including presentations at conferences on automated driving. Do the levels make sense since they are misinterpreted/ mistreated? For whom? One vehicle can contain several levels of automation. E.g. lower level 2 functions in certain Operational Driving Domains while level 4 only in other Operational Driving Domains. A level 5 function needs to be able to operate in any driving context a human driver would be able to handle. Thus, a vehicle without a steering wheel and pedals that is only able to run on certain roads (e.g. a campus) or in certain weather conditions is still level 4. A manufacturer can say that this is a level 2, 3, 4 function but what differs for the driver is whether s/he understands his/her role: "Am I in charge, are you? Do you drive or do I?". There can be collaboration and situations where both driver and system co-exist but who has authority needs to be clearly indicated.
- Take over response time from automation to manual: Human factors research should not be about finding a specific figure of x seconds. Studies are showing ranges from 2-45 seconds or even minutes. It is important to look at quality of take over and what happens after a driver has regained control. A lot of work is on-going trying to find good ways to measure both driver alertness and general activation state, response times as well as quality of take over.
- Humans both over-trust automation and under-trust automation. For lower levels of
  automation drivers are sometimes not using the technology enough (low adoption
  rates) even though ACC and automatic braking systems have been proven to have a
  strong safety benefit. Drivers might at the same time over-rely on actual higher level
  of automation or systems they perceive to offer high level of automation especially if
  it works very well 99% of the time (described as "irony of automation" by Bainbridge,
  1983).
- Driver training is often said to be key when introducing driving automation systems but if we rely on drivers to be trained – did we do our job properly? Does that mean functions in vehicles need to be standardised? There is a high risk relying on training for the systems to be safely used.
- In the session we had disagreement whether automation in vehicles needs to be clearly indicated to the surrounding environment, other road users etc. There are various pros and cons for indicating that an automated vehicle is driving in automated mode.
- The audience as well as the experts indicated a strong belief that people will change their behaviour after becoming accustomed to high level of automation in vehicles and that this will change the complete traffic system.

#### 4.7. BO 07 - Digital IT Infrastructure and Connectivity

**Moderator**: Steve Phillips, General Secretary, CEDR

#### Speakers:

- Håkan Andersson, Director, ITS strategy ERICSSON
- Refi-Tugrul Güner, Head of Innovation and Standardization, KAPSCH
- Dr. Teodor Buburuzan, Leading Communication Engineer, Volkswagen
- Bob Banks, R&D Programme Manager, Vodafone, Germany

#### Introduction

Automated driving could leverage on the recent advances in telecommunication technologies (e.g. ITS G5, 4G/LTE/5G) and connectivity can extend the electronic horizon and the environment perception of on-board-sensors which have physical limitations. It can also work during harsh weather conditions (e.g. snow, fog, heavy rain) where some sensors are malfunctioning or providing significant errors. Several activities have been developed in the framework of EU funded projects (e.g. AutoNet2030, i-GAME, AdaptIVe) and EC initiative (C-ITS Platform - European Automotive-Telecom Alliance)

#### Main topics addressed

- Håkan Andersson
  - Automotive and C-ITS
  - o Cellular-technology based V2X
  - Trials and Proof-of-concepts: Nordic Way, Convex, Kista 5G Test Network, BMW Driving Seoul
- Refi-Tugrul Güner:
  - o C-ITS utilizing ITS G5 for V2X
  - Communication efficiency
  - o Communication security (authenticity, integrity, pseudonymity and anonymity)
- Teodor Buburuzan:
  - Technology development roadmap
  - o 5G including new use-cases and new technical requirements
  - o ITS-G5 / 802.11p Towards Cooperative Driving
- Bob Banks
  - o Future of connected vehicle
  - Association and alliances
  - o Current pilots (e.g. UK Cites (road and tracks); Germany LTE V2X pilot network)

#### Main outcome and open issues identified

This session involved various stakeholders, from telecom operators to industry. The focus was on the current activities and challenges related to the digital IT Infrastructure to support the deployment of connected and automated vehicles.

All the aspects related to connectivity were discussed including different technologies (ITS G5, LTE-V2X, LTE-advanced, 5G) and referring in particular to the challenges posed by the requirements of connected and automated vehicles e.g. safety, latency, reliability, localization, digital IT infrastructure etc. This took into account the different deployment phases/timelines of connected and automated vehicles.

The ITS G5 status and framework was presented considering frequency allocation, standards and evolution and complementary with other technologies.

C-ITS Platform activities are well underway for supporting C-ITS deployment. However, there are several topics with direct impact on the deployment process:

- certificate policy should focus on enabling a broad deployment in 2019 and integrate existing solutions and protocols;
- legal-basis for exchanging CAM and DENM information;
- challenging spectrum developments and the availability of harmonized norms;
- transparent policies regarding IPRs inside standards as well as clear guidelines that prevent an abusive use of SEPs and in consequence slow down innovation.

Associations and alliances (e.g. 5GAA and EATA) have been established to support collaboration among stakeholders. Several pilot sites have been set-up (e.g. UK CITE, Germany A9 LTE V2X pilot network) and projects are under development. For instance, the EATA Concorda project will focus on enabling services for highway chauffeur and high density truck platooning focusing on the following communication: LTE, ITS G5, LTE- V, MEC applications, network slicing, LTE broadcasting (GNSS offset, hazards and HD-map updates). The project will study business models responsibilities, safety concepts, quality of service, security and data protection, regulation and standardization.

#### 4.8.BO 08 - Socio-economic impacts of CAD

Organiser: Satu Innamaa, VTT

Moderator: Satu Innamaa, VTT

#### Speakers:

- Scott Smith, Volpe Center, US DOT, US;
- Hiroaki Miyoshi, Doshisha University, Japan;
- Bart van Arem, TU Delft, The Netherlands:
- Torsten Geissler, BASt, Germany

#### Introduction

Connected and automated driving and transport technologies can have the potential to transform the world's road transportation system as a whole. Potential impacts are far reaching and complex. There are high expectations on what connected and automated vehicles shall be able to contribute to several societal goals. Some impacts will be direct and others in-direct, some intended and others unintended, and some will take place in short-term while others will take longer time to form.

#### Main topics addressed

The breakout session on Socio-economic impacts of CAD addressed methods for assessing impacts in different impact areas and underlying dependencies (in-direct impacts). It also provided examples on results obtained in the field of socio-economic impacts of connected and automated driving. Specifically, the topics coved by the presentations included:

- Scott Smith, VOLPE, US DoT
  - Framework for assessing the impacts

- Different direct and in-direct impact, impact mechanisms
- o Areas of uncertainty: technology, policy, user response
- Short review on US activities
- Hiroaki Miyoshi, Doshisha University
  - Safety impacts of level 1 & 2 automation systems
  - Monetary and non-monetary losses
  - o Economic benefits of automated driving systems for users and non-users
- Bart van Arem, TU Delft
  - Spatial and transport impacts of CAD
  - o Longer-term in-direct implications of CAD
  - o Scientific challenges in this area
  - STAD activities
- Torsten Geissler, BASt
  - o Cost-benefit assessment framework of CAD
  - Existing tools and knowledge
  - o Process threats to Socio-economic Impact Assessment, different dimensions

#### Main outcomes and open issues identified

- Direct impacts include safety, vehicle operations, energy/emissions and personal mobility
- Indirect impacts include network efficiency, travel behavior, public health, infrastructure, land use and economic impacts
- Direct impacts provide a foundation for assessing the indirect impacts that are of interest to society
- · Need for a clearinghouse on research, to facilitate sharing
  - o What data are collected?
  - O What methods (models) are used?
  - O What are the most important key performance indicators?
  - o What results are reported?
- Understand the big picture, to ensure the right data are collected
- Passive safety technologies have contributed significantly to the reduction of economic losses due to road traffic accidents; diffusion of active safety technologies will be needed in order to reduce the economic losses further.
- Economic benefits of the automated driving systems will be enjoyed not only by the
  users but also by many other economic entities; redistribution of costs burden among
  them will be necessary.
- The impacts of driver assistance/partial automation were related to comfort, efficiency, safety, costs; the impacts of conditional/high automation will also include mode choice, location choice, urban and transport planning; car driving will become more attractive.
- Spatial implications of CAD will include: geometric redesign of infrastructure, increasing sprawl of residential, commercial and employment locations, concentration of activities, combinations with car sharing and electric driving.
- Much progress on short term and small-scale impacts on driver behaviour and traffic flow. Research on longer term, indirect, wider scale impacts on mobility, logistics, residential patterns and spatial-economic structure in its infancy.
- Research shows that automated autonomous vehicles may decrease the road network capacity by 5% but automated cooperative vehicles may increase it by 10-15% and have 10% decrease in value of time for commuting and business car trips.
- Likely developments: in-depth measurements of impacts based on FOT and pilot data, as well as broader view resulting in multi-actor multi-domain assessment.

- All factors point towards more complex and time-consuming analyses. Can we afford it? – Constraints in terms of budget/time.
- Assessment processes are highly automated but e.g. data mining, arranging input data and drawing conclusions (How to generalise from the details, etc.) still involves human work, skills and time.
- Compensation might be sought in introducing more rule-of-thumb elements (reducing level of detail) in some parts of the assessment.
- Guiding star: Be economic in the Socio-economic Impact Assessment.

### **Open discussion**

- Societal impact is underrepresented in this conference, more knowledge is needed on how to optimise the benefits of automated driving in cost-benefits analyses, i.e. how to turn insights into actions, what are the opportunities?
  - Make decision makers aware of impacts, create awareness
  - "Learning by doing"
- What steps do we need to take next to get the big picture of the socio-economic impacts of CAD?
  - Safety is on top of the list
  - More economists to do these studies
  - Monitoring of use of all automated vehicles now on the road, look at acceptance and share data

## 4.9. BO 09 - Shared economy - automation and electro-mobility

Organiser/s: VDI-VDE (Gereon Meyer)

**Moderator/s**: Gereon Meyer

#### Speakers:

- Prof. Wolfgang Gruel, Stuttgart Media University, Moovel Hochschule der Medien;
- Luc Texier, Head of Business Development, Bestmile;
- Dr. Wolfgang Dettmann, Director Funding Projects & Coordination, Infineon / Vice Chair Smart Systems Industry, EGVIA;
- Dr. Daniel Watzenig, Head of the E/E & Software department, Virtual Vehicle Centre, Graz;
- Marius Macku, Senior Associate, Public Policy & Government Relations, UBER

#### Introduction

Automation and electrification of road transport are both revolutionary topics, but considered in isolation, market acceptance is not guaranteed. In combination, and supported by new user and business models of the shared economy, however, automated and electrified vehicles can be brought into market with a social and economic impact. The synergies of automation, electrification and shared mobility can thus be expected to cause disruptive innovation. Additional synergies of automation and electrification can be found at the level of electric and electronic architecture. Those synergies can also be used independent of sharing concepts in form of automated light weight vehicles (no passive safety systems necessary), either resulting in longer fully electric driving range or decreased battery size of the vehicles. The topic of this session reflected current discussions on technology development, business models and user acceptance e.g. in the framework of European Technology Platforms, the Transportation Research Board and the International Energy Agency's Technology Collaboration Programme Hybrid and Electric Vehicles (HEV TCP,

where this session was motivated by the respective working group Task 29 "Electrified, connected and automated vehicles").

### Main topics addressed

The opportunities and challenges of electrification in combination with connectivity and automation of road vehicles have been discussed. The question is how automated driving changes the mobility sector and consequently changes our lives in cities. The general benefits of automated driving result in an increase in attractiveness. This in turn increases the travel volume, leading to more congestion and finally to a gain in traffic. Furthermore autonomous vehicles could be an attraction for people to move out of cities, resulting in a longer everyday commute and leading to a wider urban sprawl. All of this might increase the traffic use. Therefore, we should consider autonomous driving as a tool to find smart alternatives for our everyday mobility. Challenges like security and privacy issue also have to be taken into account. Additionally, new legal frameworks for automated driving have to be developed and implemented. The role of shared economy as an enabler for disruptive mobility solutions has been highlighted throughout the session. Although there are already a few car sharing operators on the market, there is still some need for further changes e.g. from vehicle sharing to a ride sharing. To make the use of autonomous vehicles as convenient and efficient as possible, sharing concepts have to be brought together with public transport, especially solving the first and the last mile problem. For further increase in attractiveness, vehicles that can be transformed regarding their task would make their usage (goods and/or passenger transport) more flexible. Moreover, the user perspective as an important factor for the implementation of automation and electrification has been considered. Finally, roadmaps related to automation (European roadmap smart systems for automated driving) and electrification (Roadmap for electrification of road transport) have been presented and the need for high performance technologies (control towers for automated driving) has been discussed.

#### Main outcomes and open issues identified

Autonomous vehicles are a first step towards smart mobility, but it also needs to go along with electrification, shrinking of vehicle size and shared economy. Automation by itself could possibly lead to unintended consequences as for example the initial increase in traffic use due to the high attractiveness of automated driving and additional user groups (elderly, young, etc.) mobilised. To reduce the number of car ownership, car sharing is a good solution. However, that might not necessarily help to reduce road use und congestion as well as emissions. Therefore, we need to make more efficient use of vehicles. One possibility to go along with automation is electrification to reduce overall emissions. A second possibility is ride sharing as a smart alternative to car sharing, which would directly cut down road use. Those sharing concepts need to be brought together with public transportation to provide a wide range of transport possibilities and make urban transport convenient and attractive for its users. Further changes have to be done regarding the size of the vehicles and their use. Small cars and vehicles that can be transferred regarding its special use should be preferred for our future mobility. Moreover, concepts like pay per use could help to decrease the road traffic.

Nevertheless, there are still some open issues regarding the broad use of automated vehicles in general and also regarding special use within the shared economy. Legal frameworks have to be developed and implemented and data security and privacy have to be further improved.

In summary, automated driving has to go along with electrification and shared economy to make changes towards an environmental-friendly and efficient, smart mobility in the future and to overall improve our lives in cities.

### 5. Evening event and demonstration

A networking evening was held after the first day (Monday 3 April) at Autoworld, within the vintage car museum itself.

The evening provided an opportunity to network, visit the museum, with possibility to experience CAD demonstrations.







The coordinators of CARTRE and SCOUT gave a short thank you speech and Urban Wass from EUCAR welcomed everyone to this gathering event.



Two demonstrations were on display:

Valet Parking feature: Vehicles could park themselves. The system was trigged using a smartphone. The cars would drive from a drop-off position to the parking spot and back-up into it. Using the smartphone again, the vehicle was triggered to drive back to the pick-up location. The demonstration was based on the results of the EC-funded project AdaptIVe which will end in June. IKA was the demonstration organiser.

Vehicle following mode was demonstrated by TNO as part of an IoT network. The manoeuvers demonstrated Gap closing, Hook up and CACC. The demonstration consisted of 2 loops of the circuit realized at the parking lot in front of the social event building. Beside the driver, a TNO manager was sitting in the car to explain the scope of the manoeuvers, emphasizing the benefits of having Connected Vehicles to perform the automated driving functionalities. The demonstrations were facilitated by the AUTOPILOT EC-funded pilot project.



### 6. Conclusions

The 1st European Conference on Connected and Automated Driving attracted over 540 industry, authority and academic representatives. The conference showed an important mixture of policy related and technology related sessions.

From the various sessions the following conclusions can be drawn:

- The involvement of four EC DGs illustrates how broad the impact of Connected and Automated Driving is. Further alignment of policy and research is desired.
- For shared and automated mobility services, real-life conditions large scale pilots and cross border testing, in different urban environments and with different categories of shared automated vehicles, are needed to determine the success factors and constraints.
- For the physical and digital infrastructure, the costs savings of CAD are only reached when CAD is widely adopted. Decisions on changes to infrastructure need to be made now where much uncertainty is still present.
- The key in-vehicle technology enablers require a common view on the future car electronics platform. They will be based on high speed and secure wireless communication, new and highly and integrated sensors and accurate positioning. Software engineering and sensor fusion are crucial.
- For vehicle validation, CAD still presents a methodological challenge and a major cost factor. Scenario based safety validation seems a promising approach. Crossborder and international collaboration and harmonisation is crucial for competitive speed.
- For artificial intelligence, benchmarking and validation of the AI enabled sensors and automated driving functionality is still a major issue. For sensor validation, annotation of raw data requires a huge effort. AI work is shifting from object recognition to scene recognition.
- More knowledge is needed on the socio-economic impacts of driverless vehicles as well as a better understanding of the methodology and data needed therefor.
- Human factors: a user centred design approach should be adopted from the start in both research and development; there is a strong need to study user interaction with vehicles in real world conditions, with more controlled laboratory settings/evaluations.
- Automated driving has to go along with electrification and shared economy to make changes towards an environmental-friendly and efficient, smart mobility in the future and to overall improve our lives in cities.

#### 7. References

- 1st European Conference on Connected and Automated Driving (CAD), EC links: <a href="https://ec.europa.eu/transport/themes/its/events/2017-cad-conference\_en">https://ec.europa.eu/transport/themes/its/events/2017-cad-conference\_en</a>; CARTRE link: <a href="https://connectedautomateddriving.eu/conference/">https://connectedautomateddriving.eu/conference/</a>
- 2. All presentations of the conference are accessible on CARTRE website: https://connectedautomateddriving.eu/conference/
- 3. Picture of the conference are accessible on: <a href="https://connectedautomateddriving.eu/conference-pictures/">https://connectedautomateddriving.eu/conference-pictures/</a>
- 4. Overview video, <a href="https://youtu.be/XFCKqNZI2I8">https://youtu.be/XFCKqNZI2I8</a>
- 5. Recordings of the sessions are accessible on:
  - a. Day 1, 03.04.2017, Morning sessions (three plenaries and breakout session 'Shared and automated mobility services for our cities'), 9:15 – 13:15 <a href="https://webcast.ec.europa.eu/cad-day-1a">https://webcast.ec.europa.eu/cad-day-1a</a>
  - b. Day 1, 03.04.2017, Afternoon sessions (breakout session 'Big Data, IoT, AI, Deep Learning' and two plenaries), 14:45 17:30
     https://webcast.ec.europa.eu/cad-day-1b
  - c. Day 2, 04.04.2017, Morning sessions (five plenaries), 9:00 13:00 https://webcast.ec.europa.eu/cad-day-2a
  - d. Day 2, 04.04.2017, Afternoon sessions (breakout session 'Digital IT infrastructure and connectivity' and two plenaries), 14:15 16:30 <a href="https://webcast.ec.europa.eu/cad-day-2b">https://webcast.ec.europa.eu/cad-day-2b</a>
- 6. Strategic Transport Research & Innovation Agenda, STRIA, <a href="http://ec.europa.eu/programmes/horizon2020/en/news/towards-strategic-transport-research-innovation-agenda-stria">http://ec.europa.eu/programmes/horizon2020/en/news/towards-strategic-transport-research-innovation-agenda-stria</a>
- 7. Cooperative, connected and automated mobility (C-ITS) platform, https://ec.europa.eu/transport/themes/its/c-its\_en
- 8. High Level Roundtable on Connected and Automated Driving: <a href="https://ec.europa.eu/digital-single-market/en/news/cooperative-connected-and-automated-mobility-stepping-efforts-frankfurt">https://ec.europa.eu/digital-single-market/en/news/cooperative-connected-and-automated-mobility-stepping-efforts-frankfurt</a>
- 9. High Level Group on Automotive Industry 'GEAR 2030'; https://ec.europa.eu/growth/sectors/automotive/policy-strategy\_en
- 10. EU-US-Japan Trilateral Working Group on Road Vehicle Automation; no specific webpage; see <a href="http://vra-net.eu/news/trilateral-eu-us-japan-wg-on-automation-in-road-transportation-meeting-14-january-2016/">http://vra-net.eu/news/trilateral-eu-us-japan-wg-on-automation-in-road-transportation-meeting-14-january-2016/</a>

# **Annex 1: Survey results**

# **Participant statistics**

|                                              | Ţ        |         |                    |
|----------------------------------------------|----------|---------|--------------------|
| Day 1 breakout sessions 12:00-13:15          | Approved | On site | <b>Grand Total</b> |
| In-vehicle technology enabler                | 96       |         | 96                 |
| Physical and Digital Infrastructure          | 94       |         | 94                 |
| Shared and automated mobility services for o | oul 343  | 1       | 344                |
| Grand Total                                  | 533      | 1       | 534                |

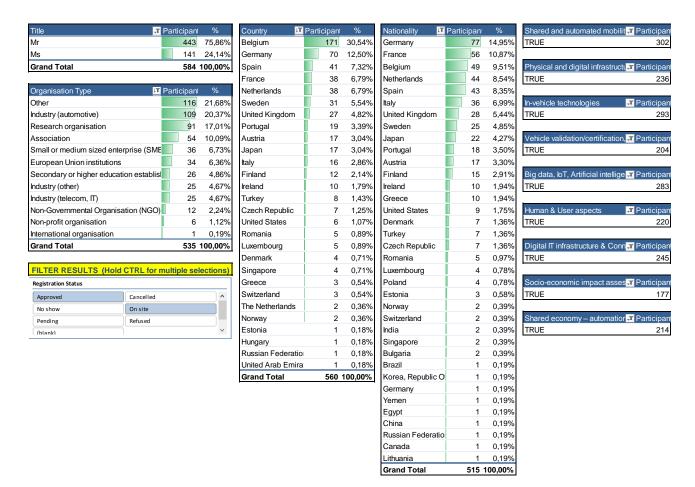
|                                               | Ţ,       |         |              |      |
|-----------------------------------------------|----------|---------|--------------|------|
| Day 1 breakout sessions 14:45-16:00           | Approved | On site | <b>Grand</b> | Tota |
| Big Data, loT, Al, Deep Learning              | 341      | 1       |              | 342  |
| Human Factors & User awareness                | 97       |         |              | 97   |
| Vehicle Validation/Certification, Roadworthin | nes 95   |         |              | 95   |
| Grand Total                                   | 533      | 1       |              | 534  |

|                                           | Ţ        |         |                 |     |
|-------------------------------------------|----------|---------|-----------------|-----|
| Day 2 breakout session 14:30-15:45        | Approved | On site | <b>Grand To</b> | ota |
| Digital IT Infrastructure & Connectivity  | 344      | 1       | 34              | 45  |
| Shared economy - Automation and Electro-m | ol 89    |         |                 | 89  |
| Socio-economic Impact of CAD              | 100      |         | 10              | 00  |
| Grand Total                               | 533      | 1       | 5               | 34  |

|                                        | Ţ.       |         |                   |  |
|----------------------------------------|----------|---------|-------------------|--|
| Social Networking Event, 18:00 - 20:00 | Approved | On site | <b>Grand Tota</b> |  |
| Yes                                    | 473      | 1       | 474               |  |
| Grand Total                            | 473      | 1       | 474               |  |

|             | Ţ.                | <mark>.▼</mark> |                   |  |  |
|-------------|-------------------|-----------------|-------------------|--|--|
| Status      | <b>▼</b> Approved | On site         | <b>Grand Tota</b> |  |  |
| Participant | 452               | 18              | 470               |  |  |
| Press       | 5                 | 3               | 8                 |  |  |
| Speaker     | 68                |                 | 68                |  |  |
| Staff       | 23                | 1               | 24                |  |  |
| Moderator   | 9                 |                 | 9                 |  |  |
| Exhibitor   | 5                 |                 | 5                 |  |  |
| Grand Total | 562               | 22              | 584               |  |  |

## **Annex - Survey statistics**



| Registration Status     | Participants |     |
|-------------------------|--------------|-----|
| Approved                |              | 562 |
| Cancelled               |              | 63  |
| No show (Approved who r | never        | 147 |
| On site                 |              | 22  |
| Pending                 |              | 3   |
| Refused                 |              | 85  |
| Grand Total             |              | 882 |

| ACTUAL PARTICIPANTS |  |
|---------------------|--|
| 584                 |  |

# CARTRE D6.2 Proceeding of the 1<sup>st</sup> ART Conference

| Where did you hear about the 1st CAD conference?   #            |     | %        | Catering #                   |     | %        |
|-----------------------------------------------------------------|-----|----------|------------------------------|-----|----------|
| Another website                                                 | 13  | 8,90%    | -                            | 35  | 23,97%   |
| Another website;Invitation                                      | 2   | 1,37%    |                              | 34  | 23,29%   |
| DG RTD/Transport web-page                                       | 25  | 17,12%   | +                            | 60  | 41,10%   |
| Invitation                                                      | 47  | 32,19%   | ++                           | 9   | 6,16%    |
| Other                                                           | 51  | 34,93%   | Not Applicable               | 8   | 5,48%    |
| Promotional material (posters, postcards, etc.)                 | 2   | 1,37%    | Grand Total                  | 146 | 100,00%  |
| Promotional material (posters, postcards, etc.);Invitation      | 1   | 0,68%    |                              |     | ,        |
| Twitter (@EUScienceInnov, #EUCAD2017)                           | 2   | 1,37%    |                              |     |          |
| DG RTD/Transport web-page; Another website                      | 1   | 0,68%    | Twitter (@EU_CAD2017, @I = # | :   | %        |
| DG RTD/Transport web-page; Promotional material (poster         | 1   | 0,68%    | -                            | 10  | 6,85%    |
| DG RTD/Transport web-page;Invitation                            | 1   | 0,68%    | +                            | 43  | 29,45%   |
| Grand Total                                                     | 146 | 100,00%  | ++                           | 24  | 16,44%   |
|                                                                 |     | ,        | Not Applicable               | 68  | 46,58%   |
| Did you attend the 1st CAD conference in Brussels, B - #        |     | %        |                              | 1   | 0,68%    |
| No, I did not attend the event, and I did not (yet) follow the  | 3   | 2,05%    | Grand Total                  | 146 | 100,00%  |
| No, I did not attend the event, but I did follow it via the rec | 4   | 2.74%    |                              |     | .00,0070 |
| Yes, I did attend the event                                     | 139 | 95,21%   | CAD web-page #               |     | %        |
| Grand Total                                                     | 146 | 100,00%  | -                            | 19  | 13,01%   |
|                                                                 |     | ,        | +                            | 68  | 46,58%   |
| On-line registration #                                          |     | %        | ++                           | 46  | 31,51%   |
| -                                                               | 4   | 2,74%    | Not Applicable               | 13  | 8,90%    |
|                                                                 | 3   | 2,05%    | Grand Total                  | 146 | 100,00%  |
| +                                                               | 42  | 28,77%   |                              |     | .00,0070 |
| ++                                                              | 93  | 63,70%   |                              |     |          |
| Not Applicable                                                  | 4   | 2,74%    | Opening panel discussion #   |     | %        |
| Grand Total                                                     |     | 100,00%  | -                            | 8   | 5,48%    |
|                                                                 |     | ,        |                              | 2   | 1,37%    |
|                                                                 |     |          | +                            | 58  | 39,73%   |
| On-site registration #                                          |     | %        | ++                           | 64  | 43,84%   |
| -                                                               | 4   | 2,74%    | Not Applicable               | 14  | 9,59%    |
| +                                                               | 30  | 20,55%   | Grand Total                  | 146 | 100,00%  |
| ++                                                              | 63  | 43,15%   | Grana rota.                  | 140 | 100,0070 |
| Not Applicable                                                  | 47  | 32,19%   |                              |     |          |
|                                                                 | 2   | 1,37%    | Plenary sessions ##          |     | %        |
| Grand Total                                                     | 146 | 100,00%  | -                            | 5   | 3,42%    |
| ordina rotar                                                    | 140 | 100,0070 |                              | 3   | 2,05%    |
| Signposting inside the venue #                                  |     | %        | +                            | 66  | 45,21%   |
| -                                                               | 7   | 4,79%    | ++                           | 69  | 47,26%   |
| +                                                               | 55  | 37,67%   | Not Applicable               | 3   | 2,05%    |
| ++                                                              | 69  | 47,26%   | Grand Total                  | 146 | 100,00%  |
| Not Applicable                                                  | 14  | 9,59%    | orana rotar                  | 140 | .00,0070 |
|                                                                 | 14  | 0,68%    |                              |     |          |
| <del></del>                                                     |     | 0,00%    |                              |     |          |

| 3                               |   |     |          |                                         |        |          |
|---------------------------------|---|-----|----------|-----------------------------------------|--------|----------|
| Breakout sessions               | # | (   | %        | In-vehicle technology enabler (03/ #    |        | %        |
| -                               |   | 15  | 10,27%   | -                                       | 7      | 4,79%    |
| <del></del>                     |   | 2   | 1,37%    | +                                       | 23     | 15,75%   |
| +                               |   | 65  | 44,52%   | ++                                      | 14     | 9,59%    |
| ++                              |   | 58  | 39,73%   | Not Applicable                          | 102    | 69,86%   |
| Not Applicable                  |   | 6   | 4,11%    | Grand Total                             | 146    | 100,00%  |
| Grand Total                     |   | 146 | 100,00%  |                                         |        |          |
|                                 |   |     |          |                                         |        |          |
| Endella fallena de enada e      | ш |     | %        | Vehicle Validation/certification Rc ▼ # |        | % 400/   |
| Exhibition booths               | # |     |          | -                                       | 5<br>2 | 3,42%    |
| -                               |   | 47  | 32,19%   |                                         |        | 1,37%    |
| <del></del>                     |   | 8   | 5,48%    | +                                       | 24     | 16,44%   |
| +                               |   | 63  | 43,15%   | H+                                      | 10     | 6,85%    |
| H+                              |   | 12  | 8,22%    | Not Applicable                          | 105    | 71,92%   |
| Not Applicable                  |   | 16  | 10,96%   | Grand Total                             | 146    | 100,00%  |
| Grand Total                     |   | 146 | 100,00%  |                                         |        |          |
|                                 |   |     |          | Big Data, IoT, AI, Deep Learning 🕶 #    |        | %        |
| Social networking event and c   | # | (   | %        | - Big Data, 101, Al, Deep Learning      | 10     | 6,85%    |
| -                               | " | 10  | 6,85%    |                                         | 4      | 2,74%    |
|                                 | T | 2   | 1,37%    | +                                       | 48     | 32,88%   |
| +                               |   | 48  | 32,88%   | ++                                      | 18     | 12,33%   |
| ++                              |   | 59  | 40,41%   | Not Applicable                          | 66     | 45,21%   |
| Not Applicable                  |   | 27  | 18,49%   | Grand Total                             | 146    | 100,00%  |
| Grand Total                     |   | 146 | 100,00%  | Grand Total                             | 140    | 100,0070 |
|                                 |   |     | 100,0070 |                                         |        |          |
|                                 |   |     |          | Human Factors & User awarenes ▼ #       |        | %        |
| Shared and automated mobili     | # | (   | %        | -                                       | 5      | 3,42%    |
| -                               |   | 8   | 5,48%    | +                                       | 29     | 19,86%   |
|                                 |   | 3   | 2,05%    | ++                                      | 23     | 15,75%   |
| +                               |   | 43  | 29,45%   | Not Applicable                          | 88     | 60,27%   |
| ++                              |   | 29  | 19,86%   |                                         | 1      | 0,68%    |
| Not Applicable                  |   | 63  | 43,15%   | Grand Total                             | 146    | 100,00%  |
| Grand Total                     |   | 146 | 100,00%  |                                         |        |          |
|                                 |   |     |          | Digital IT Infrastructure & Connec # #  |        | %        |
|                                 |   |     |          | -                                       | 11     | 7,53%    |
| Physical & Digital Infrastructu | # |     | %        | +                                       | 42     | 28,77%   |
| _                               |   | 7   | 4,79%    | ++                                      | 24     | 16,44%   |
| <del></del>                     |   | 2   | 1,37%    | Not Applicable                          | 69     | 47,26%   |

33

15

89

146

Not Applicable

**Grand Total** 

22,60%

10,27%

60,96%

100,00%

**Grand Total** 

146

100,00%

| Socio-economic Impact of CAD (04    | _    | %         | I gained a better understanding of CAD #          |     | %       |
|-------------------------------------|------|-----------|---------------------------------------------------|-----|---------|
| -                                   | 6    | ,         | TRUE                                              | 72  | 49,32%  |
| +                                   | 32   |           | FALSE                                             | 74  | 50,68%  |
| ++                                  | 16   |           | Grand Total                                       | 146 | 100,00% |
| Not Applicable                      | 90   |           |                                                   |     |         |
| <u></u>                             | 2    |           |                                                   |     |         |
| Grand Total                         | 146  | 100,00%   | I gained an overview of current CAD poli        # |     | %       |
|                                     |      |           | TRUE                                              | 109 | 74,66%  |
| Shared Economy – Automation & 🔽     | #    | %         | FALSE                                             | 37  | 25,34%  |
| -                                   | 3    | 2,05%     | Grand Total                                       | 146 | 100,00% |
| +                                   | 27   |           |                                                   |     |         |
| ++                                  | 16   | 10,96%    |                                                   |     |         |
| Not Applicable                      | 100  | 68,49%    | I networked with people from other cour        #  |     | %       |
| Grand Total                         | 146  | 100,00%   | TRUE                                              | 89  | 60,96%  |
|                                     |      |           | FALSE                                             | 57  | 39,04%  |
|                                     |      |           | Grand Total                                       | 146 | 100,00% |
| Overall, to what extent were your e | #    | %         |                                                   |     |         |
| Excellent                           | 46   | 31,51%    |                                                   |     |         |
| Good                                | 71   |           | I networked with people from other sect   #       |     | %       |
| Insufficient                        | 4    |           | TRUE                                              | 64  | 43,84%  |
| No opinion                          | 1    |           | FALSE                                             | 82  | 56,16%  |
| Sufficient                          | 24   |           | Grand Total                                       | 146 | 100,00% |
| Grand Total                         | 146  |           |                                                   |     | ,       |
|                                     |      | ,         |                                                   |     |         |
|                                     |      |           | I met potential project collaborators ##          |     | %       |
| Age                                 | #    | %         | TRUE                                              | 36  | 24,66%  |
| 18-30                               | 14   | 9,59%     | FALSE                                             | 110 | 75,34%  |
| 31-45                               | 63   |           | Grand Total                                       | 146 | 100,00% |
| 46-64                               | 63   |           |                                                   |     |         |
| 65+                                 | 6    |           |                                                   |     |         |
| Grand Total                         | 146  |           | I gained ideas for future projects #              |     | %       |
|                                     |      |           | TRUE                                              | 46  | 31,51%  |
|                                     |      |           | FALSE                                             | 100 | 68,49%  |
| Would you attend another EU-orga    | #    | %         | Grand Total                                       | 146 | 100,00% |
| No                                  | 2    | 1,37%     |                                                   |     |         |
| Yes                                 | 144  |           |                                                   |     |         |
| Grand Total                         | 146  |           | I learned more about CAD research and   # #       |     | %       |
|                                     |      | ,         | TRUE                                              | 80  | 54,79%  |
|                                     |      |           | FALSE                                             | 66  | 45,21%  |
| Would you recommend that the Eu▼    | #    | %         | Grand Total                                       | 146 | 100,00% |
| No                                  | 7    |           |                                                   |     | ,       |
| Yes                                 | 139  |           |                                                   |     |         |
| Grand Total                         | 146  |           | I gained little benefit from the event #          |     | %       |
| J. a.i.a. i otal                    | 1-70 | .00,00 /0 | TRUE                                              | 5   | 3,42%   |
|                                     |      |           | FALSE                                             | 141 | 96,58%  |
|                                     |      |           | Grand Total                                       | 146 | 100,00% |
|                                     |      |           | Grand Iolai                                       | 140 | 100,00% |
|                                     |      |           |                                                   |     |         |
|                                     |      |           | Other #                                           |     | %       |
|                                     |      |           | TRUE                                              | 101 | 69,18%  |
|                                     |      |           | FALSE                                             | 45  | 30,82%  |
|                                     |      |           | Grand Total                                       | 146 | 100,00% |
|                                     |      |           | Grand Total                                       | 140 | 100,00% |

## **Suggestions for future events**

The following suggestions only reflect the opinion of their authors.

Suggestions for future events - Please note any suggestions (if any) on how to improve similar EU-organised events on CAD?

I would try to introduce a start-up "pitch" or presentation (5-7 min. each) to get the "new" feeling of CAD in this conference beside all the political debates. Some technical sessions would also help to increase the attractiveness.

Avoid any speaker tempting to promote his/her own products/firm, as we have has during the Connectivity and the Big Data sessions

As a researcher at industry I preferred the breakout sessions much more than the high level plenaries. I assume that's a bit of a challenge when you have that wide of an audience. Would have liked more technical sessions as well on vehicle technology. And longer sessions to allow for more interaction with audience as well as talks/presenters. And a pity there was so many parallel sessions. I often enjoy going to sessions which normally doesn't fit with my primary research field - to learn something completely new as well as bring in new ideas.

The amount of presentations was too dense. Maybe next time I would suggest having more space for discussions with each other.

I would highly appreciate it, if there would be room for exchanging information on concrete outcomes of running EU funded projects on CAD. The combination with side events later on in the week was excellent

Less security gates, better catering, more interactivity / networking opportunities

Involve end users such as professional drivers and fleet operators who were not sufficiently represented

Overall it was excellent, but here are a couple of things that could be improved:

Catering-wise, some fruit or other healthy options would have been good; it was all sandwiches (more than enough though) with zero salad, very large unhealthy desserts, and the only fruit was made of plastic for display! Also the biscuits ran out before many people got any in the breaks. (The food was really good at Volvo Truck for the 3rd day events though.).

Registration-wise, it was good for the main event but not for the 3rd day side events, where there was no automatic confirmation at all. I wanted some definite confirmation before booking hotels and travel!

Best plenary session by far was "EU Member States programmes on connected and automated driving"; Unfortunately speakers were urged to make their intervention extremely short.

A bit more time between the tight schedule of activities for networking and social get together

Longer breakout sessions with possibility to go deeper into different topics

It would be good to have broader representation from the industry - there was no one there from the aftermarket.

Keep up with these events, excellent moderator Katrina Sichel.

Improve the space and time of the demonstrations and the Exhibition booths.

Maybe more speakers from academia and the insurance industry. It would be great if this could be a early event!

Ask companies and start-ups that actually value already

Too many sessions in parallel, I could not attend everything I wanted

Although the experience and information provided by panellists were so valuable more time for comments and questions from floor would enhance the discussion.

Further develop the excellent side events, exhibitions & demonstrations.

Unfortunately, due to other meetings, I could not attend the social event. I would suggest to provide more opportunities and organisations for contacts during the conference.

Improve the registration process and give possibilitity to attend on site more people

The discussions were more like short presentations and it didn't evolve naturally into a discussion. I also

hoped to have a bit more specific information about all the projects in Europe. A few countries are very active and I would have liked to hear what they have done, what they want to do in the near future and what the long term goal is.

More room for discussion, Q&A and interaction with the audience in panel debates.

More technology than policy, statements.

There may also be sub events, basicly more focused on some dedicated topics.

Try to source speakers that are considered leading experts in their field so they can provide a background for the discussions in the breakout sessions

Please provide a common road map as starting point. It was highly confusing switching between visions, research, eventualities and realities.

Reduce the number of speakers during the sessions and allow for more interaction/discussion with the audience.

Please improve availability to breakout sessions. Organisation of this seemed somewhat arbitrary and was not monitored heavily at the venue.

Get speakers that have something other to represent than their business ideas!

Some countries were not represented at all (both business and gov) while some were simply overrepresented in the panel discussions

The event was a good overview but there wasn't anything particularly new presented or discussed. the breakout sessions especially on the socio-economic impact of CAD was too technical focused. it was a missed opportunity to be very dynamic and talk about CAD in a way that the average person can understand and engage with

The Commission must ensure better participation of women in the panel discussions. There are women experts in all fields and should make the effort to engage them. The panels themselves would probably become a lot more interesting.

Bring more leaders & thinkers also from other countries

Bring innovators, there are many great start-ups who are active in the field

more interaction with audience, smaller sessions

The venue should be big enough to accommodate all interested to participate.

Should be held every 2 years--key message is that Comm DGs work together

There may also be sub events, basically more focused on some dedicated topics.

Please give more possibilities for spreading the number of people that could attend the event.

Consider organizing a B2B session for pre-arranged 1-to-1 meetings

A participant's list / contacts would be useful

More depth, more findings from the projects, more research findings, more participation from member states' programs.

Keep up with these events, excellent moderator Katrina Sichel.

improve the space and time of the demonstrations and the exhibition stands

more 2 way communication and discussion

## **Recommendations for improvement**

The following recommendations only reflect the opinion of their authors.

# Please share with us any further comments or recommendations to improve this type of conference:

As a researcher at industry I preferred the breakout sessions much more than the high level plenaries. I assume that's a bit of a challenge when you have that wide of an audience. Would have liked more technical sessions as well on vehicle technology. And longer sessions to allow for more interaction with audience as well as talks/presenters. And a pity there was so many parallel sessions. I often enjoy going to sessions which normally doesn't fit with my primary research field - to learn something completely new as well as bring in new ideas.

More focus on the transition period. Involvement of end users, professional drivers and fleet operators representatives.

It is a good and strong concept to bring the quadruple helix (government authorities, research, industry and users/consumers) together!

Due to the extension and importance of CAD in the future, this event should be done in 3 days, in order to give more time to the debate with the audience.

Ideally, Member states representative should have a louder voice

Further develop the excellent side events, exhibitions & demonstrations.

I recommend more specialised breakout sessions. Excellent event overall.

The days were packed with interesting speakers so I would definitely come back. Just a bit more in depth would be nice.

Next time have it in a location with some "real" action, to allow true demonstrations. Take advantage of all that goes on. Sweden should be a logical place for such a conference!

make somewhat better lunches, e.g. Belgium gas station sandwiches are substantially better

Get support from external experts on who to invite as speaker to the event. There was hardly any structure in any of the panels or session, no leading questions, the content was simply poor. Good for networking though.

The Commission must ensure better participation of women in the panel discussions. There are women experts in all fields and should make the effort to engage them. The panels themselves would probably become a lot more interesting.

The reception on the first morning at 8AM was BADLY managed, we were asked to be there very early, and when we arrived the reception team wasn't ready and we had to wait for them to get ready. This is not kind

organise more interaction with the audience, more parallel sessions or extended duration to accomodate more sessions

Better mix of policy and research - the April 2017 event was quite policy-oriented

Very well organised-- for future-- more high level speakers- CEOs

This was a wonderful first meeting. I hope there will be more. More of the world's research on CAD is being done in EU -- bring it forward

Due to the extension and importance of CAD in the future, this event should be done in 3 days, in order to give more time to the debate with the audience.

Less politically correct contributions and more focus on the real issues and dilemma's

## **Annex 2: Participants**

| Annex 2: Partici  | First name      | Company                                                 |
|-------------------|-----------------|---------------------------------------------------------|
| GESSNER           | Wolfgang        | - Company                                               |
| Vallejos          | Jorge           |                                                         |
| Keating           | David           | 2025AD                                                  |
| Doering           | Marcel          | 3M                                                      |
| Nuyttens          | Rik             | 3M Company                                              |
| Allison           | Matt            | Access Partership                                       |
| Jonnaert          | Erik            | ACEA                                                    |
| Kloos             | Alfred          | ACEA                                                    |
| VANTOMME          |                 | ACEA                                                    |
| VANTOMME          | Joost<br>Ulrich |                                                         |
|                   |                 | ACEA                                                    |
| May               | Claudia         | ADAC e.V.                                               |
| Nissen            | Michael         | ADAC e.V.                                               |
| Stoyanov          | Hristiyan       | AdaptIVe Project                                        |
| Nikolau           | Stella          | ADAS&ME project                                         |
| Zube              | Manfred         | Adient Engineering and IP GmbH                          |
| Walravens         | Jean            | Agency for Roads & Traffic                              |
| Di Gennaro        | Federico        | AISCAT                                                  |
| BAURENS           | Benoit          | AKKA Technologies                                       |
| Al-Gazali         | Osama           | AlbrechtConsult GmbH                                    |
| Ledwon            | Benjamin        | ALDE                                                    |
| Phillips          | Alexandra       | Allen & Overy                                           |
| Lymes             | Thomas          | Alliance Renault-Nissan                                 |
| amselem           | jacques         | allianz                                                 |
| ANNESE            | LEONARDO        | ANAS S.P.A.                                             |
| Netto             | Karen           | Anglicity                                               |
| Bento             | Sofia           | ANSR                                                    |
| Fonseca           | Ricardo         | ANSR - Portugal National Road Safety Authority          |
| Rosiers           | Luc             | AP                                                      |
| Boulnois          | Wallerand       | APCO Worldwide                                          |
| Aparicio          | Andrés          | Applus IDIADA                                           |
| Arrúe             | Álvaro          | Applus IDIADA                                           |
| Wartnaby          | Charlie         | Applus IDIADA                                           |
| Pillado           | Marcos          | Applus+ IDIADA                                          |
|                   |                 | APRE Italian Agency for the Promotion of European       |
| Damiani           | Alessandro      | Research                                                |
| Amelink           | Maarten         | Arcadis the Netherlands                                 |
| De Simone         | Fabrizio        | ARCTURUS GROUP                                          |
| Harrer            | Manfred         | ASFINAG                                                 |
| Hintenaus         | Dieter          | ASFINAG                                                 |
|                   |                 | Association of German Chambers of Commerce and          |
| Kindler           | Holger          | Industry (DIHK)                                         |
| Adler             | Martin          | AtAdlerAdvisory                                         |
| PAGNY             | ROGER           | Atec-ITS France                                         |
| Tapié             | Léonard         | Athenora                                                |
| Spyra             | Henriette       | Austrian Ministry of Transport, Innovation & Technology |
| Böhm              | Martin          | Austria Tech  Austria Tech                              |
| Russ              | Martin          | AustriaTech Gmbh                                        |
| VAVALIDIS         | KYRIAKOS        | AUTOLIV                                                 |
| SENCERIN          | Jean François   | Autonomous Vehicle PFA/NFI                              |
| Affenzeller       | Josef           | AVL List GmbH                                           |
| Pfluegl           | Horst           | AVL List GmbH                                           |
| ,                 | Orhan           | Bantboru San Tic A.S.                                   |
| Tosun<br>Geissler | Torsten         |                                                         |
|                   |                 | BASt  Palaian Road Safatu Institute                     |
| Maes              | Julie           | Belgian Road Safety Institute                           |
| Sehgal            | Sunil           | Belron International                                    |

| Ness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Last name   | First name | Company                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------------------------------------------------|
| Dijkink         Lotte         Benelux Business Roundtable           van der Niet         André         Benelux Union           Texier         Luc         Bestmile           Relange         Mathieu         Bird & Bird LLP           Federle         Anne         Bird & Bird LLP           Bishop         Richard         Bishop Consulting           Molin         Helge         BMVTT           Gräter         Armin         BMW           Keinath         Andreas         BMW Group           Noutatore         Pietro         Bode           Tosun         Mchmet Oğuz         Bogacici University           HÅCKEL         MARKO         BOSCH           Vavassori         Roberto         BERMBO SPA           Wevers         Kees         BrightAngel TTS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung GBCIJ e. V.           Aheam         Jeff         Cartell.ic           Whelan         Leff         Cartell.ic           Whelan         Keith         Cartell.ic           Petrescu         Alexandre         CEA           STREE         Bernard                                                                                                                                   |             |            |                                                       |
| van der Niet         André         Benelux Union           Texier         Lue         Bestmile           Relange         Mathieu         Bird & Bird LLP           Federle         Anne         Bird& Bird LLP           Bishop         Richard         Bishop Consulting           Molin         Helge         BMVIT           Gräter         Armin         BMW           Keinath         Andreas         BNW Group           Nuotatore         Pietro         Bode           Tosun         Mehmet Oguz         Bogaziei University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BEEMBO SPA           Wevers         Kees         Brighangel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Einsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Welan         Reith         Cartell.ie           Welan         Reith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA <td></td> <td></td> <td></td>                                                                                                                    |             |            |                                                       |
| Texier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |            |                                                       |
| Relange         Mathieu         Bird & Bird & LIP           Federle         Anne         Bird & Bird LIP           Bishop         Richard         Bishop Consulting           Molin         Helge         BMVIT           Gräter         Armin         BMW           Nuotatore         Pietro         Bode           Nuotatore         Pietro         Bode           Tosun         Mehmet Oğuz         Bogazici University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         BrightAngel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Bolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           STREE         Bernard         CEA <tr< td=""><td></td><td></td><td></td></tr<>                                                                                                              |             |            |                                                       |
| Federle                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            |                                                       |
| Bishop         Richard         Bishop Consulting           Molin         Helge         BNVTT           Gräter         Armin         BWW           Keinath         Andreas         BMW Group           Nuotatore         Pietro         Bode           Tosun         Mehmet Oğuz         Bogazici University           HÅCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         BrightAngel ITS           Moura         Lara         Brisa Imovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Prilips         Steve         CEDR           Vicente         Carmen         Cellax           Vicente         Carmen         Celnex Telecom           Guinea         Iker         Centro de innovación de infraestructuras                                                                                                                                     |             |            |                                                       |
| Molin         Helge         BMVT           Gräter         Armin         BMW           Keinath         Andreas         BMW Group           Nuotatore         Pietro         Bode           Tosum         Mehmet Oguz         Bogazici University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         Bright/negl ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e. V.           Aheam         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Felizardo         José Rui         CEIIA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes <td></td> <td></td> <td></td>                                                                       |             |            |                                                       |
| Gräter         Armin         BMW           Keinath         Andreas         BWW Group           Mototatore         Pietro         Bode           Tosun         Mehmet Oguz         Bogazici University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         BrightAngel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Veland         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           STREE         Bernard         CEA           Felizardo         José Rui         CEñiA           Silva         Helena         CEliA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes                                                                                                        | •           |            |                                                       |
| Keinath         Andreas         BMW Group           Nuotatore         Pietro         Bode           Tosun         Mehmet Oguz         Bogazici University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         Bright Angel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Aheam         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Perescu         Alexandre         CEA           STREE         Bernard         CEA           Felizardo         José Rui         CEBA           Felizardo         José Rui         CEBA           Felizardo         José Rui         CEIIA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERH-HIT           Guinea <td< td=""><td></td><td>ĕ</td><td></td></td<>                                                                                     |             | ĕ          |                                                       |
| Nuotatore         Pietro         Bode           Tosun         Mehmet Oğuz         Bogazici University           HÄCKEL         MARKO         BOSCH           Vavassori         Roberto         BREMBO SPA           Wevers         Kees         BrightAngel TTS           Moura         Lara         Brisa Innovation           Saile         Dirk         Brisa Innovation           Ahearn         Jeff         Cartell.ie           Olado         Julio         CDTI           Petruscu         Alexandre         CEA           STREE         Bernard         CEA           STREE         Bernard         CEA           Felizardo         José Rui         CEilA           Silva         Helena         CEilA           Vicente         Carmen         Cellex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centre for innovation de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CEIM           OSORO         ERMAN         CIE AUTOMOTIVE           Ivari                                                                                                                                |             |            |                                                       |
| Tosun Mehmet Oğuz Bogazici University HÄCKEL MARKO BOSCH Vavassori Roberto BREMBO SPA Wevers Kees BrightAngel ITS Moura Lara Brisa Innovation Saile Dirk Bundesverband Güterkraftverkehr Logistik und Entsorgung (RGL) e.V. Aheam Jeff Cartell.ie Whelan Keith Cartell.ie Whelan Keith Cartell.ie Dolado Julio CDTI Petrescu Alexandre CEA STREE Bernard CEA Phillips Steve CEDR Pelizardo José Rui CEiiA Silva Helena CEiiA Vicente Carmen Celinex Telecom Kay Alison Psychology, Trinity College Dublin Guinea Iker Centro de innovación de infraestructuras inteligentes Mitsakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO BERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Stephan CLEPA Mo Millen Stephen CLEPA Mo Millen Stephen CLEPA Thibaudat Pierre CLEPA Romanna Collera CLEPA LEPA LEPA LEPA LEPA LEPA LA Statarzyna CLEPA LICEPA LICEPA LICEPA LICEPA LA Sigrid CLEPA Romanna Chris CLEPA LICEPA - The European Association of Automotive Suppliers RIOU Yves CNPA Blakemore Tim Commercial Vehicle Engineer Marse Continental Forsterling Frank Continental Forsterling Frank Continental Mages Mark Continental Mages Mark Continental Mages Mark Continental Automotive Romania Nicosevici Tudor Continental Automotive Romania |             |            | <u> </u>                                              |
| HÄCKEL MARKO BÖSCH Vavassori Roberto BREMBO SPA Wevers Kees BrightAngel ITS Moura Lara Brisa Innovation Saile Dirk Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V. Ahearn Jeff Cartell.ie Dolado Julio CDTI Petrescu Alexandre CEA STREE Bernard CEA Phillips Steve CEDR Phillips Steve CEDR Pelizardo José Rui CEiiA Vicente Carmen Cellnex Telecom Kay Alison Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin Guinea Iker Centro de innovación de infraestructuras inteligentes Mitsakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO kERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Di Stefano Amalia CLEPA Mc Millen Stephen CLEPA Mc Millen Stephen CLEPA Mc Millen Stephen CLEPA Alborn Salla Confederation of Finnish Industries EK Alburno Rarke Marke Collins Desmond Continental Frank Continental Markes Marke Marke Marke Continental Markes Continental Markes Marke Continental Markes Markes Continental Automotive Romania Ravan Jurea Continental Automotive Romania                                                                                                |             |            |                                                       |
| Vavassori         Roberto         BREMBO SPA           Wevers         Kees         BrightAngel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Felizardo         José Rui         CEBIA           Silva         Helena         CEBIA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centro for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitisakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         RERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahman         Chris         CK<                                                                                        |             |            |                                                       |
| Wevers         Kees         Bright Angel ITS           Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Phillips         Steve         CEDR           Felizardo         José Rui         CEiiA           Silva         Helena         CEiiA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         IERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Helmond           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA                                                                                                       |             |            |                                                       |
| Moura         Lara         Brisa Innovation           Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Phillips         Steve         CEDR           Felizardo         José Rui         CEiiA           Silva         Helena         CEiiA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahman         Chris         CK           Di Stefano         Amalia         CLEPA                                                                                                       |             |            |                                                       |
| Saile         Dirk         Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V.           Ahearn         Jeff         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Whelan         Keith         Cartell.ie           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Phillips         Steve         CEDR           Felizardo         José Rui         CEiiA           Silva         Helena         CEiiA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahman         Chris         CK           Kahman         Chris         CK      <                                                                                                      |             |            |                                                       |
| Aheam Jeff Cartell.ie Whelan Keith Cartell.ie Dolado Julio CDTI Petrescu Alexandre CEA STREE Bernard CEA Phillips Steve CEDR Felizardo José Rui CEiiA Vicente Carmen Cellnex Telecom  Kay Alison Psychology, Trinity College Dublin Guinea Iker Centro de innovación de infraestructuras inteligentes Mistakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO RERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Di Stefano Amalia CLEPA Doraczynska Katarzyna CLEPA Thibaudat Pierre CLEPA Mc Millen Stephen CLEPA Thibaudat Pierre CLEPA Alessandro Alessandro Alessandro Chris CLEPA - automotive suppliers association CLEPA - The European Association of Automotive Suppliers Albonen Salla Conficental Dovaczynska Continental Ahonen Salla Conficental Försterling Frank Continental Försterling Frank Continental Forstevici Tudor Continental Automotive Romania Razvan Jurca Continental Automotive Romania Ficosevici Tudor Continental Automotive Romania Ficosevici Tudor Continental Automotive Romania                                                                                                                                                                                                                                  | Moura       | Lara       |                                                       |
| Ahearn Jeff Cartell.ie Whelan Keith Cartell.ie Dolado Julio CDTI Petrescu Alexandre CEA STREE Bernard CEA Phillips Steve CEDR Felizardo José Rui CEiiA Silva Helena CEiiA Vicente Carmen Cellnex Telecom Kay Alison Psychology, Trinity College Dublin Guinea Iker Centro de innovación de infraestructuras inteligentes Mitsakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO kERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Di Stefano Amalia CLEPA Mc Millen Stephen CLEPA Mc Millen Stephen CLEPA Mc Millen Stephen CLEPA Coda Alessandro CLEPA - automotive suppliers association CLEPA - The European Association of Automotive Suppliers Alburno PAOLO CLEPA European Association of Automotive Suppliers Alburno Paolo Connect I Tim Commercial Vehicle Engineer Ahonen Salla Confederation of Finnish Industries EK De Vreeze Marije Connect I Thomas Continental Hofmann Karsten Continental Försterling Frank Continental Ficator Continental Florian Callin Continental Automotive Romania Razvan Jurca Continental Automotive Romania                                                                                                                                                                                                | Saile       | Dirk       |                                                       |
| Whelan         Keith         Cartell.ie           Dolado         Julio         CDTI           Petrescu         Alexandre         CEA           STREE         Bernard         CEA           Philips         Steve         CEDR           Felizardo         José Rui         CEIIA           Silva         Helena         CEIIA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Misakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Gothenburg           Blom         Geert         City of Helmond           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA           Doraczynska         Katarzyna         CLEPA           Mc Willen         Stephen         CLEPA           Coda         Ales                                                                                                                           | Ahearn      | Jeff       |                                                       |
| Dolado                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |            |                                                       |
| Petrescu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |            |                                                       |
| STREE         Bernard         CEA           Philips         Steve         CEDR           Felizardo         José Rui         CEiiA           Silva         Helena         CEIiA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA           Doraczynska         Katarzyna         CLEPA           Mc Millen         Stephen         CLEPA           Thibaudat         Pierre         CLEPA           de Vries         Sigrid         CLEPA - automotive suppliers association           Coda         Alessandro         CLEPA - The European Association of Automotive Suppliers           RIOU         Yves                                                                                          |             |            |                                                       |
| Phillips         Steve         CEDR           Felizardo         José Rui         CEiiA           Silva         Helena         CEiiA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Gothenburg           Blom         Geert         City of Helmond           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA           Doraczynska         Katarzyna         CLEPA           Mc Millen         Stephen         CLEPA           Thibaudat         Pierre         CLEPA           de Vries         Sigrid         CLEPA - automotive suppliers association           Coda         Alessandro         CLEPA - The European Association of Automotive Suppliers           RIOU         Yv                                                                               |             |            |                                                       |
| Felizardo José Rui CEiiA Silva Helena CEiiA Vicente Carmen Cellnex Telecom  Kay Alison Psychology, Trinity College Dublin Guinea Iker Centro de innovación de infraestructuras inteligentes Misakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO KERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Di Stefano Amalia CLEPA Doraczynska Katarzyna CLEPA Mc Millen Stephen CLEPA Thibaudat Pierre CLEPA de Vries Sigrid CLEPA - automotive suppliers association Coda Alessandro CLEPA European Association of Automotive Suppliers RIOU Yves CNPA Blakemore Tim Commercial Vehicle Engineer Ahonen Salla Confederation of Finnish Industries EK De Vreeze Marije Conniental Mages Mark Continental Mages Mark Nicosevici Tudor Continental Automotive Romania Razvan Jurca Continental Automotive Romania Nicosevici Tudor Continental Automotive Romania Nicosevici Tudor Continental Automotive Romania Nicosevici Tudor Continental Automotive Romania Purca Central Tumps Continental Automotive Romania Nicosevici Tudor Continental Automotive Romania                                                                                                                                                                                          |             | ı          |                                                       |
| Silva         Helena         CEIIA           Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Mitsakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         KERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA           Doraczynska         Katarzyna         CLEPA           Mc Millen         Stephen         CLEPA           Thibaudat         Pierre         CLEPA           de Vries         Sigrid         CLEPA - automotive suppliers association           Coda         Alessandro         CLEPA - The European Association of Automotive Suppliers           RIOU         Yves         CNPA           Blakemore         Tim         Commercial Vehicle Engineer           Ahonen         Salla         Confederation of Finnish Industries EK                                                                       |             |            |                                                       |
| Vicente         Carmen         Cellnex Telecom           Kay         Alison         Centre for Innovative Human Systems, School of Psychology, Trinity College Dublin           Guinea         Iker         Centro de innovación de infraestructuras inteligentes           Misakis         Evangelos         CERTH-HIT           Cervioni         Giovanni         CETM           OSORO         kERMAN         CIE AUTOMOTIVE           Ivari         Mikael         City of Gothenburg           Blom         Geert         City of Helmond           Kahmann         Chris         CK           Kahmann         Chris         CK           Di Stefano         Amalia         CLEPA           Mc Millen         Stephen         CLEPA           Mc Millen         Stephen         CLEPA           Thibaudat         Pierre         CLEPA           de Vries         Sigrid         CLEPA - automotive suppliers association           Coda         Alessandro         CLEPA - The European Association of Automotive Suppliers           RIOU         Yves         CNPA           Blakemore         Tim         Commercial Vehicle Engineer           Ahonen         Salla         Confederation of Finnish Industries EK           <                                                                  |             |            |                                                       |
| KayAlisonCentre for Innovative Human Systems, School of Psychology, Trinity College DublinGuineaIkerCentro de innovación de infraestructuras inteligentesMitsakisEvangelosCERTH-HITCervioniGiovanniCETMOSOROkERMANCIE AUTOMOTIVEIvariMikaelCity of GothenburgBlomGeertCity of HelmondKahmannChrisCKDi StefanoAmaliaCLEPADoraczynskaKatarzynaCLEPAMc MillenStephenCLEPAThibaudatPierreCLEPAde VriesSigridCLEPA - automotive suppliers associationCLEPA - The European Association of Automotive SuppliersALBURNOPAOLOCLEPA European Association of Automotive SuppliersRIOUYvesCNPABlakemoreTimCommercial Vehicle EngineerAhonenSallaConfederation of Finnish Industries EKDe VreezeMarijeConnekt / ITS NetherlandsCollinsDesmondContinentalFörsterlingFrankContinentalHofmannKarstenContinentalMagesMarkContinentalSalbertThomasContinentalNicoseviciTudorContinental Automotive RomaniaNicoseviciTudorContinental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                    |             |            |                                                       |
| Guinea Iker Centro de innovación de infraestructuras inteligentes  Mitsakis Evangelos CERTH-HIT Cervioni Giovanni CETM OSORO KERMAN CIE AUTOMOTIVE Ivari Mikael City of Gothenburg Blom Geert City of Helmond Kahmann Chris CK Di Stefano Amalia CLEPA Doraczynska Katarzyna CLEPA Mc Millen Stephen CLEPA Thibaudat Pierre CLEPA  de Vries Sigrid CLEPA - automotive suppliers association  CLEPA - The European Association of Automotive Suppliers  RIOU Yves CNPA Blakemore Tim Commercial Vehicle Engineer Ahonen Salla Confederation of Finnish Industries EK De Vreeze Marije Connekt / ITS Netherlands Continental Försterling Frank Continental Hofmann Karsten Continental Mages Mark Continental Nicosevici Tudor Continental Automotive Romania Razvan Jurca Continental Automotive Romania Razvan Jurca Continental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |            |                                                       |
| MitsakisEvangelosCERTH-HITCervioniGiovanniCETMOSOROkERMANCIE AUTOMOTIVEIvariMikaelCity of GothenburgBlomGeertCity of HelmondKahmannChrisCKDi StefanoAmaliaCLEPADoraczynskaKatarzynaCLEPAMc MillenStephenCLEPAThibaudatPierreCLEPAde VriesSigridCLEPA - automotive suppliers associationCodaAlessandroCLEPA - The European Association of Automotive SuppliersALBURNOPAOLOCLEPA European Association of Automotive SuppliersRIOUYvesCNPABlakemoreTimCommercial Vehicle EngineerAhonenSallaConfederation of Finnish Industries EKDe VreezeMarijeConnekt / ITS NetherlandsCollinsDesmondContinentalFörsterlingFrankContinentalHofmannKarstenContinentalMagesMarkContinentalCeaucaFlorian CatalinContinental Automotive RomaniaNicoseviciTudorContinental Automotive RomaniaRazvanJurcaContinental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Kay         | Alison     | Psychology, Trinity College Dublin                    |
| CervioniGiovanniCETMOSOROkERMANCIE AUTOMOTIVEIvariMikaelCity of GothenburgBlomGeertCity of HelmondKahmannChrisCKDi StefanoAmaliaCLEPADoraczynskaKatarzynaCLEPAMc MillenStephenCLEPAThibaudatPierreCLEPAde VriesSigridCLEPA - automotive suppliers associationCodaAlessandroCLEPA - The European Association of Automotive SuppliersRIOUYvesCNPABlakemoreTimCommercial Vehicle EngineerAhonenSallaConfederation of Finnish Industries EKDe VreezeMarijeConnekt / ITS NetherlandsCollinsDesmondContinentalFörsterlingFrankContinentalHofmannKarstenContinentalMagesMarkContinentalCeaucaFlorian CatalinContinental Automotive RomaniaNicoseviciTudorContinental Automotive RomaniaRazvanJurcaContinental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |            | Centro de innovación de infraestructuras inteligentes |
| OSOROkERMANCIE AUTOMOTIVEIvariMikaelCity of GothenburgBlomGeertCity of HelmondKahmannChrisCKDi StefanoAmaliaCLEPADoraczynskaKatarzynaCLEPAMc MillenStephenCLEPAThibaudatPierreCLEPAde VriesSigridCLEPA - automotive suppliers associationCodaAlessandroCLEPA - The European Association of Automotive SuppliersALBURNOPAOLOCLEPA European Association of Automotive SuppliersRIOUYvesCNPABlakemoreTimCommercial Vehicle EngineerAhonenSallaConfederation of Finnish Industries EKDe VreezeMarijeConnekt / ITS NetherlandsCollinsDesmondContinentalFörsterlingFrankContinentalHofmannKarstenContinentalMagesMarkContinentalSalbertThomasContinentalCeaucaFlorian CatalinContinental Automotive RomaniaNicoseviciTudorContinental Automotive RomaniaRazvanJurcaContinental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mitsakis    |            | CERTH-HIT                                             |
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| Razvan Jurca Continental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |            |                                                       |
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| Regep Cezar Continental Automotive Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                                       |
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| Son                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Last name   | First name | Company                               |
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| Lauxmann                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |            |                                       |
| Cruz         Pedro         CONTROLAR - Innovating Industry           Diels         Cyriel         Coventry University           Kanarachos         Stratis         Coventry University           Vincent         Kevin         Coventry University           Kahmann         Siobhan         Covington & Burling           DAFONTE         PABLO         CTAG           Sanchez         Francisco         CTAG           Sinchez         Francisco         CTAG           Nielsen         Thomas A. S.         Danish Road Safety Agency           De Broeck         Koen         De Lijn           Deiters         Oliver         DEKRA SE           Deiters         Oliver         DEKRA SE           Boersma         Reanne         Dellit University of Technology & University of Applied Sciences Rotterdam           Feyder         Camille         Delphi Automotive Systems Luxembourg S.A.           Narula         Prasant         Delphi Deutschland GmbH           Goto         Hirotaka         DENSO           Jean-Michel         DENSO           Leinmueller         Tim         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Toshina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |            |                                       |
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| DAFONTE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |            |                                       |
| Paul         Ana         CTAG           Sánchez         Francisco         CTAG           Nivelsen         Thomas A. S.         Danish Road Directorate/Vejdirektoratet           Svendsen         Nicklas Vigand         Danish Road Safety Agency           De Broeck         Koen         De Ligin           Deiters         Oliver         DEKRA SE           Boersma         Reanne         Delft University of Technology & amp; University of Applied Sciences Rotterdam           Feyder         Camille         Delphi Deutschland GmbH           Feyder         Camille         Delphi Deutschland GmbH           Henchoz         Jean-Michel         DENSO           Leinmueller         Tim         DENSO Automotive Deutschland GmbH           Henchoz         Jean-Michel         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO International Asia PTE. LTD. </td <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                       |
| Sánchez         Francisco         CTAG           Nielsen         Thomas A. S.         Danish Road Directorate/Vejdirektoratet           Svendsen         Nicklas Vigand         Danish Road Safety Agency           De Brock         Koen         De Lipn           Deiters         Oliver         DEKRA e.V.           du Boispéan         Stéphane         DEKRA SE           Boersma         Reanne         Delft University of Technology & Amp; University of Applied Sciences Rotterdam           Feyder         Camille         Delphi Automotive Systems Luxembourg S.A.           Narula         Prasant         Delphi Deutschland GmbH           Goto         Hirotaka         DENSO           Henchoz         Jean-Michel         DENSO           Leinmueller         Tim         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Teshima         Kentaro         DENSO Automotive Deutschland GmbH           Shimonomot         Ifushi         DENSO Corporation           Akatsuka         Hideliko         DENSO Corporation           Akatsuka         Hideliko         DENSO Corporation           Akatsuka         Hideliko         DENSO Corporation           Syling <td< td=""><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |            |                                       |
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| Svendsen   Nicklas Vigand   Danish Road Safety Agency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |            |                                       |
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| Deiters         Oliver         DEKRA SE           du Boispéan         Stéphane         DEKRA SE           Boersma         Reanne         Delft University of Technology & Description of Applied Sciences Rotterdam           Feyder         Camille         Delphi Automotive Systems Luxembourg S.A.           Narula         Prasant         Delphi Deutschland GmbH           Goto         Hirotaka         DENSO           Henchoz         Jean-Michel         DENSO           Leinmuelle         Tim         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Corporation           Akatsuka         Hidehiko         DENSO Corporation           Akatsuka         Hidehiko         DENSO International Asia PTE, LTD.           Blythe         Phil         Department for Transport           Gómez Garrido         Susana         DEPUTY DIRECTOR OF VEHÍCLES           Dr. Springer         Johannes         Deutsche Telekom AG           Macridis         Michail         DG Joint Research Centre           Makridis         Michail         DG Joint Research Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | <u> </u>   |                                       |
| du Boispéan         Stéphane         DEKRA SE           Boersma         Reanne         Delft University of Technology & Eamp; University of Applied Sciences Rotterdam           Feyder         Camille         Delphi Automotive Systems Luxembourg S.A.           Narula         Prasant         Delphi Deutschland GmbH           Goto         Hirotaka         DENSO           Henchoz         Jean-Michel         DENSO           Leinmueller         Tim         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Jutomotive Deutschland GmbH           Shimonomoto         Deutsche Telekon AG           Kasara         Phill         Department for Trainsport           Gorez Garcia         Disannee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |            |                                       |
| Reanne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |            |                                       |
| Peyder   Camille   Delphi Automotive Systems Luxembourg S.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | du Boispean |            |                                       |
| Feyder Camille Delphi Automotive Systems Luxembourg S.A. Narula Prasant Delphi Deutschland GmbH Goto Hirotaka DENSO Henchoz Jean-Michel DENSO Leinmueller Tim DENSO Automotive Deutschland GmbH Mittal Prachi DENSO Automotive Deutschland GmbH Mittal Prachi DENSO Automotive Deutschland GmbH Teshima Kentaro DENSO Automotive Deutschland GmbH Shimonomoto Ifushi DENSO Corporation Akatsuka Hidehiko DENSO International Asia PTE. LTD. Blythe Phil Department for Transport Gómez Garrido Susana DEPUTY DIRECTOR OF VEHICLES Dr. Springer Johannes Deutsche Telekom AG Koch Rainer Deutsche Telekom AG Makridis Michail DG Joint Research Centre tassara francesca DG MOVE Torre Agnese DG MOVE Torre Agnese DG MOVE Torre Agnese DG MOVE Torre Agnese DG MOVE Dri Febbraro Angela DIME - UNIVERSITY OF GENOVA Blanco Bergareche Ana Directoria General de Tráfico Mosebach Henning DLR Beckmann Dirk DLR - German Aerospace Center Miyoshi Hiroaki Doshiha university Hiroaki Doshiha university Hiroaki Doshiha university Lu Meng Dynniq van Schijndel-de Nathila EC RTD Smit Frank EC RTD Smit Frank EC RTD Antonissen Tom ECG - The Association of European Vehicle Logistics Foster Alun ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Boersma     | Reanne     |                                       |
| Narula         Prasant         Delphi Deutschland GmbH           Goto         Hirotaka         DENSO           Henchoz         Jean-Michel         DENSO           Leinmueller         Tim         DENSO Automotive Deutschland GmbH           Mittal         Prachi         DENSO Automotive Deutschland GmbH           Teshima         Kentaro         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Corporation           Akatsuka         Hidehiko         DENSO International Asia PTE, LTD.           Blythe         Phil         Department for Transport           Gómez Garrido         Susana         DEPUTY DIRECTOR OF VEHÍCLES           Dr. Springer         Johannes         Deutsche Telekom /T-Systems International           Jacobfeuerborn         Bruno         Deutsche Telekom AG           Koch         Rainer         Deutsche Telekom AG           Makridis         Michail         DG Joint Research Centre           tassara         francesca         DG MOVE           Torre         Agnese         DG MOVE           Ordás         Jorge         DGT           Di Febbraro         Angela         DIME - UNIVERSITY OF GENOVA           Blanco Bergareche         Ana         Dirección                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fouder      | Camilla    |                                       |
| Goto   Hirotaka   DENSO   Jean-Michel   DENSO   Jean-Michel   DENSO   Jean-Michel   DENSO Automotive Deutschland GmbH   Mittal   Prachi   DENSO Automotive Deutschland GmbH   Teshima   Kentaro   DENSO Automotive Deutschland GmbH   DENSO Automotive Deutschland GmbH   DENSO Automotive Deutschland GmbH   DENSO Automotive Deutschland GmbH   DENSO Mittal GmbH   DENSO Corporation   Akatsuka   Hidehiko   DENSO International Asia PTE. LTD.   DENSO Internatio   |             |            |                                       |
| Henchoz   Jean-Michel   DENSO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            |                                       |
| Leinmueller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |            |                                       |
| Mittal         Prachi         DENSO Automotive Deutschland GmbH           Teshima         Kentaro         DENSO Automotive Deutschland GmbH           Shimonomoto         Ifushi         DENSO Corporation           Akatsuka         Hidehiko         DENSO International Asia PTE. LTD.           Blythe         Phil         Department for Transport           Gómez Garrido         Susana         DEPUTY DIRECTOR OF VEHÍCLES           Dr. Springer         Johannes         Deutsche Telekom AG           Jacobfeuerborn         Bruno         Deutsche Telekom AG           Koch         Rainer         Deutsche Telekom AG           Makridis         Michail         DG Joint Research Centre           tassara         francesca         DG MOVE           Ordás         Jorge         DGT           Torre         Agnese         DG MOVE           Ordás         Jorge         DGT           Di Febbraro         Angela         DIME - UNIVERSITY OF GENOVA           Blanco Bergareche         Ana         Directorate General for Traffic           Moreno García-Cano         Jaime         Directorate General for Traffic           Mosebach         Henning         DLR           Beckmann         Dirk         DLR - German Aerospace Cen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |            |                                       |
| Teshima Kentaro DENSO Automotive Deutschland GmbH Shimonomoto Ifushi DENSO Corporation Akatsuka Hidehiko DENSO International Asia PTE. LTD. Blythe Phil Department for Transport Gómez Garrido Susana DEPUTY DIRECTOR OF VEHÍCLES Dr. Springer Johannes Deutsche Telekom / Tr-Systems International Jacobfeuerborn Bruno Deutsche Telekom AG Koch Rainer Deutsche Telekom AG Makridis Michail DG Joint Research Centre tassara francesca DG MOVE Torre Agnese DG MOVE Ordás Jorge DGT Di Febbraro Angela DIME - UNIVERSITY OF GENOVA Blanco Bergareche Ana Dirección General de Tráfico Moreno García-Cano Jaime DIR - German Aerospace Center Miyoshi Hiroaki Doshisha university Hellaker Jan Drive Sweden Dufeu Sylvain Drust Dols Han DSM Zhang rui DSM Lu Meng Dynniq van Schijndel-de Nooij Ghiba Dorina EC RTD Smit Frank EC RTD Almeras Caroline ECREI JU Almeras Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                       |
| Shimonomoto         Ifushi         DENSO Corporation           Akatsuka         Hidehiko         DENSO International Asia PTE. LTD.           Blythe         Phil         Department for Transport           Gómez Garrido         Susana         DEPUTY DIRECTOR OF VEHÍCLES           Dr. Springer         Johannes         Deutsche Telekom AG           Nestore Telekom AG         Deutsche Telekom AG           Koch         Rainer         Deutsche Telekom AG           Makridis         Michail         DG Joint Research Centre           tassara         francesca         DG MOVE           Ordás         Jorge         DGT           Di Febbraro         Angela         DIME - UNIVERSITY OF GENOVA           Blanco Bergareche         Ana         Dirección General de Tráfico           Moreno García-Cano         Jaime         Directorate General for Traffic           Mosebach         Henning         DLR           Beckmann         Dirk         DLR - German Aerospace Center           Schieben         Anna         DLR - German Aerospace Center           Miyoshi         Hiroaki         Doshisha university           Hellaker         Jan         Drive Sweden           Dufeu         Sylvain         Drust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |            |                                       |
| Akatsuka         Hidehiko         DENSO International Asia PTE. LTD.           Blythe         Phil         Department for Transport           Gómez Garrido         Susana         DEPUTY DIRECTOR OF VEHÍCLES           Dr. Springer         Johannes         Deutsche Telekom AG           Jacobfeuerborn         Bruno         Deutsche Telekom AG           Koch         Rainer         Deutsche Telekom AG           Makridis         Michail         DG Joint Research Centre           tassara         francesca         DG MOVE           Torre         Agnese         DG MOVE           Ordás         Jorge         DGT           Di Febbraro         Angela         DIME - UNIVERSITY OF GENOVA           Blanco Bergareche         Ana         Dirección General de Tráfico           Moreno García-Cano         Jaime         Dirección General de Tráfico           Mosebach         Henning         DLR           Beckmann         Dirk         DLR - German Aerospace Center           Schieben         Anna         DLR - German Aerospace Center           Miyoshi         Hiroaki         Doshisha university           Hellaker         Jan         Drive Sweden           Dufeu         Sylvain         Drust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |            |                                       |
| Blythe Phil Department for Transport Gómez Garrido Susana DEPUTY DIRECTOR OF VEHÍCLES Dr. Springer Johannes Deutsche Telekom / T-Systems International Jacobfeuerborn Bruno Deutsche Telekom AG Koch Rainer Deutsche Telekom AG Makridis Michail DG Joint Research Centre tassara francesca DG MOVE Torre Agnese DG MOVE Ordás Jorge DGT Di Febbraro Angela DIME - UNIVERSITY OF GENOVA Blanco Bergareche Ana Dirección General de Tráfico Moreno García-Cano Jaime Directorate General for Traffic Mosebach Henning DLR Beckmann Dirk DLR - German Aerospace Center Schieben Anna DLR - German Aerospace Center Miyoshi Hiroaki Doshisha university Hellaker Jan Drive Sweden Dufeu Sylvain Drust Dols Hann DSM Zhang rui DSM Lu Meng Dynniq van Schijndel-de Nooij Margriet EARPA Ghiba Dorina EC RTD Perault Nathalie EC RTD Sotter Alun ECSEL Joint Undertaking Lenoir Carbine ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |            |                                       |
| Gómez Garrido Susana DEPUTY DIRECTOR OF VEHÍCLES Dr. Springer Johannes Deutsche Telekom / T-Systems International Jacobfeuerborn Bruno Deutsche Telekom AG Koch Rainer Deutsche Telekom AG Koch Rainer Deutsche Telekom AG Makridis Michail DG Joint Research Centre tassara francesca DG MOVE Torre Agnese DG MOVE Ordás Jorge DGT Di Febbraro Angela DIME - UNIVERSITY OF GENOVA Blanco Bergareche Ana Directorate General de Tráfico Moreno García-Cano Jaime Directorate General for Traffic Mosebach Henning DLR Beckmann Dirk DLR - German Aerospace Center Schieben Anna DLR - German Aerospace Center Miyoshi Hiroaki Doshisha university Hellaker Jan Drive Sweden Dufeu Sylvain Drust Dols Han DSM Zhang rui DSM Lu Meng Dynniq Van Schijndel-de Nooij Margriet Ghiba Dorina EC RTD Smit Frank EC RTD Antonissen Tom ECG - The Association of European Vehicle Logistics Foster Alun ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |            |                                       |
| Dr. Springer         Johannes         Deutsche Telekom / T-Systems International           Jacobfeuerborn         Bruno         Deutsche Telekom AG           Koch         Rainer         Deutsche Telekom AG           Makridis         Michail         DG Joint Research Centre           tassara         francesca         DG MOVE           Torre         Agnese         DG MOVE           Ordás         Jorge         DGT           Di Febbraro         Angela         DIME - UNIVERSITY OF GENOVA           Blanco Bergareche         Ana         Dirección General de Tráfico           Moreno García-Cano         Jaime         Directorate General for Traffic           Mosebach         Henning         DLR           Beckmann         Dirk         DLR - German Aerospace Center           Schieben         Anna         DLR - German Aerospace Center           Miyoshi         Hiroaki         Doshisha university           Hellaker         Jan         Drive Sweden           Dufeu         Sylvain         Drust           Dols         Han         DSM           Zhang         rui         DSM           Lu         Meng         Dynniq           van Schijndel-de<br>Nooij         Margriet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |            |                                       |
| JacobfeuerbornBrunoDeutsche Telekom AGKochRainerDeutsche Telekom AGMakridisMichailDG Joint Research CentretassarafrancescaDG MOVETorreAgneseDG MOVEOrdásJorgeDGTDi FebbraroAngelaDIME - UNIVERSITY OF GENOVABlanco BergarecheAnaDirección General de TráficoMoreno García-CanoJaimeDirectorate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDSmitFrankECG - The Association of European Vehicle LogisticsFosterAlunECSEL Juit UndertakingLenoirCatherineECSEL JuitAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |            |                                       |
| KochRainerDeutsche Telekom AGMakridisMichailDG Joint Research CentretassarafrancescaDG MOVETorreAgneseDG MOVEOrdásJorgeDGTDi FebbraroAngelaDIME - UNIVERSITY OF GENOVABlanco BergarecheAnaDirección General de TráficoMoreno García-CanoJaimeDirectorate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Jut UndertakingLenoirCatherineECSEL Jut                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |            |                                       |
| MakridisMichailDG Joint Research CentretassarafrancescaDG MOVETorreAgneseDG MOVEOrdásJorgeDGTDi FebbraroAngelaDIME - UNIVERSITY OF GENOVABlanco BergarecheAnaDirección General de TráficoMoreno García-CanoJaimeDirectionate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDSmitFrankEC RTDAntonissenTomECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |            |                                       |
| tassara francesca DG MOVE  Torre Agnese DG MOVE  Ordás Jorge DGT  Di Febbraro Angela DIME - UNIVERSITY OF GENOVA  Blanco Bergareche Ana Dirección General de Tráfico  Moreno García-Cano Jaime Directorate General for Traffic  Mosebach Henning DLR  Beckmann Dirk DLR - German Aerospace Center  Schieben Anna DLR - German Aerospace Center  Miyoshi Hiroaki Doshisha university  Hellaker Jan Drive Sweden  Dufeu Sylvain Drust  Dols Han DSM  Zhang rui DSM  Lu Meng Dynniq  van Schijndel-de Nooij  Ghiba Dorina EC RTD  Perault Nathalie EC RTD  Antonissen Tom ECG - The Association of European Vehicle Logistics  Foster Alun ECSEL Jut  Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |            |                                       |
| TorreAgneseDG MOVEOrdásJorgeDGTDi FebbraroAngelaDIME - UNIVERSITY OF GENOVABlanco BergarecheAnaDirección General de TráficoMoreno García-CanoJaimeDirectorate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAllmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Makridis    |            |                                       |
| OrdásJorgeDGTDi FebbraroAngelaDIME - UNIVERSITY OF GENOVABlanco BergarecheAnaDirección General de TráficoMoreno García-CanoJaimeDirectorate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |            |                                       |
| Di Febbraro Angela DIME - UNIVERSITY OF GENOVA Blanco Bergareche Ana Dirección General de Tráfico Moreno García-Cano Jaime Directorate General for Traffic Mosebach Henning DLR Beckmann Dirk DLR - German Aerospace Center Schieben Anna DLR - German Aerospace Center Miyoshi Hiroaki Doshisha university Hellaker Jan Drive Sweden Dufeu Sylvain Drust Dols Han DSM Zhang rui DSM Lu Meng Dynniq van Schijndel-de Margriet EARPA Ghiba Dorina EC RTD Ferault Nathalie EC RTD Smit Frank EC RTD Antonissen Tom ECG - The Association of European Vehicle Logistics Foster Alun ECSEL JU Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                       |
| Blanco Bergareche Ana Dirección General de Tráfico  Moreno García-Cano Jaime Directorate General for Traffic  Mosebach Henning DLR  Beckmann Dirk DLR - German Aerospace Center  Schieben Anna DLR - German Aerospace Center  Miyoshi Hiroaki Doshisha university  Hellaker Jan Drive Sweden  Dufeu Sylvain Drust  Dols Han DSM  Zhang rui DSM  Lu Meng Dynniq  van Schijndel-de Nooij EARPA  Ghiba Dorina EC RTD  Perault Nathalie EC RTD  Antonissen Tom ECG - The Association of European Vehicle Logistics  Foster Alun ECSEL Juint Undertaking  Lenoir Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | ,          |                                       |
| Moreno García-CanoJaimeDirectorate General for TrafficMosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Angela     |                                       |
| MosebachHenningDLRBeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |            |                                       |
| BeckmannDirkDLR - German Aerospace CenterSchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |            |                                       |
| SchiebenAnnaDLR - German Aerospace CenterMiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |            |                                       |
| MiyoshiHiroakiDoshisha universityHellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             | Dirk       |                                       |
| HellakerJanDrive SwedenDufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                       |
| DufeuSylvainDrustDolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | Hiroaki    |                                       |
| DolsHanDSMZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |            | Drive Sweden                          |
| ZhangruiDSMLuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |            |                                       |
| LuMengDynniqvan Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Dols        | Han        | DSM                                   |
| van Schijndel-de<br>NooijMargrietEARPAGhibaDorinaEC RTDPeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Zhang       | rui        | DSM                                   |
| Nooij  Ghiba  Dorina  EC RTD  Perault  Nathalie  EC RTD  Smit  Frank  EC RTD  Antonissen  Tom  ECG - The Association of European Vehicle Logistics  Foster  Alun  ECSEL Joint Undertaking  Lenoir  Catherine  ECSEL JU  Almeras  Caroline                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lu          | Meng       | Dynniq                                |
| Ghiba Dorina EC RTD  Perault Nathalie EC RTD  Smit Frank EC RTD  Antonissen Tom ECG - The Association of European Vehicle Logistics  Foster Alun ECSEL Joint Undertaking  Lenoir Catherine ECSEL JU  Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             | Margriet   | EARPA                                 |
| PeraultNathalieEC RTDSmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |            |                                       |
| SmitFrankEC RTDAntonissenTomECG - The Association of European Vehicle LogisticsFosterAlunECSEL Joint UndertakingLenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |            |                                       |
| Antonissen Tom ECG - The Association of European Vehicle Logistics Foster Alun ECSEL Joint Undertaking Lenoir Catherine ECSEL JU Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |            |                                       |
| Foster Alun ECSEL Joint Undertaking Lenoir Catherine ECSEL JU Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |            |                                       |
| LenoirCatherineECSEL JUAlmerasCarolineECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |            |                                       |
| Almeras Caroline ECTRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |            | · ·                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Lenoir      | Catherine  | ECSEL JU                              |
| Hinto Helena EE permanent representation to the EU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Almeras     | Caroline   | ECTRI                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Hinto       | Helena     | EE permanent representation to the EU |

| Back   Stefan   FFSC (Swedish Confederation of Transport Enterprise)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Last name | First name   | Company                        |
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| Beaumel         Lucie         EGVIA           Pégán         Stéphane         EIT Digital           Flynn         bob         Enterprise-ireland.com           Charlafitis         Angelos         ePAPHOS ADVISORS TEAMWORK           Stagl         Sebastian         EpoSS           Andersson         Håkan         ERICSSON           Benton         Jonathan         ERTICO - ITS Europe           Jansseume         Lue         ERTICO - ITS Europe           Jansseume         Lue         ERTICO - ITS Europe           Janseume         Lue         ERTICO - ITS Europe           Brizzolara         Davide         ERTICO - ITS Europe           Brizzolara         Davide         ERTICO - ITS Europe           Brizzolara         Jacob         ERTICO - ITS Europe           Bangsgaard         Jacob         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Fischer         Francois         ERTRAC           Neugebauer         Stephan         ERTRAC           Neugebauer         Stephan         ERTRAC           Neises         Milko         Estonian Permanent Representation to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                                |
| Péan         Stéphane         ETT Digital           Flynn         bob         Enterprise-ireland.com           Charlaftis         Angelos         cPAPHOS ADVISORS TEAMWORK           Stagl         Sebastian         EpoSS           Anderson         Håkan         ERICSON           Fagerholt         Anders         Ericsson           Benton         Jonathan         ERTICO - ITS Europe           Jansseune         Lue         BRTICO - ITS Europe           Augarde         Benoit         ERTICO - ITS Europe           Augarde         Benoit         ERTICO - ITS Europe           Somma         Giacomo         ERTICO - ITS Europe           Valente         Pamela         ERTICO - ITS Europe           Valente         Pamela         ERTICO - ITS Europe           Valente         Pamela         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Aertsens         Xavier         RETRAC           Neugebauer         Stephan         ERTRAC           Peris         Miiko         Estonian Permanent Representation to the EU           Vicente         Natalia         ETNO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |              |                                |
| Flynn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |              |                                |
| Charlaftis   Angelos   CPAPHOS ADVISORS TEAMWORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | 1            |                                |
| Stage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |              |                                |
| Andersson Håkan BRICSSON Fagerholt Anders Briesson Benton Jonathan BRTICO - ITS Europe Jansseune Luc BRTICO - ITS Europe Brizzolara Davide Benoit BRTICO - ITS Europe Brizzolara Davide BRTICO - ITS Europe Somma Giacomo BRTICO - ITS Europe Bangsgaard Jacob BRTICO - ITS Europe Bangsgaard Jacob BRTICO - ITS Europe Fischer Francois BRTICO - ITS Europe Fischer BRTICO - ITS Europe Fischer Francois BRTICO - ITS Europe Fischer BRTICO - ITS Europe Aertsens Asavier BRTICO - ITS Europe Aertsens Navier BRTICO - ITS Europe Aertsens Miiko Bestonian Permanent Representation to the EU Vicente Natalia BTNO Townsend Ellen BTSC Deix Stefan BUCAR BRESLIN LIAM BUR COMMISSION BIEGET HARAID BUR COMMISSION BIEGET BUR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Ü            |                                |
| Fagerholt   Anders   Ericsson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |              | 1                              |
| Benton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |              |                                |
| Jansseune   Luc   ERTICO - ITS Europe     Augarde   Benoit   ERTICO - ITS Europe     Brizzolara   Davide   ERTICO - ITS Europe     Brizzolara   Davide   ERTICO - ITS Europe     Somma   Giacomo   ERTICO - ITS Europe     Somma   Giacomo   ERTICO - ITS Europe     Bangsgaard   Jacob   ERTICO - ITS Europe     Bangsgaard   Jacob   ERTICO - ITS Europe     Fischer   Francois   ERTICO - ITS Europe     Flament   Maxime   ERTICO - ITS Europe     Farment   Maxime   ERTICO - ITS Europe     Aertsens   Xavier   ERTRAC     Neugebauer   Stephan   ERTRAC     Neugebauer   Stefan   EUCAR     For the the thick   Europea     Stefan   EUCAR     Stefan   EUCAR     Stefan   EUCAR     BRESLIN   LIAM   EUR COMMISSION     Elfert   Harald   EUR AG     Hirschberg   Ralph   EUR AG     Stefan   EUROPEA     Cory   Michael   EuroGeographics     GUIDI   MATTEO   EURONEWS     Bettini   Stefania   European Commission     Bulc   Violeta   European Commission     Carbone   Maria   European Commission     Denir   Mesut   European Commission     Denir   Mesut   European Commission     Denir   Mesut   European Commission     Merice-Handisyde   Patrick   European Commission     Merice-Handisyde   Patrick   European Commission     Sakovica   Julija   European Commission     ON PETER   NIKOLAUS   European Commission     ON PETER   ON PETER   European Commission     ON PETER   ON PETER   European Commission     ON    |           |              |                                |
| Augarde Benoit ERTICO - ITS Europe Brizzolara Davide ERTICO - ITS Europe Somma Giacomo ERTICO - ITS Europe Valente Pamela ERTICO - ITS Europe Bangsgaard Jacob ERTICO - ITS Europe Bangsgaard Jacob ERTICO - ITS Europe Flament Maxime ERTICO - ITS Europe Flament ERTICO -  |           | _            | <u>.</u>                       |
| Brizzolara         Davide         ERTICO - ITS Europe           Somma         Giacomo         ERTICO - ITS Europe           Valente         Pamela         ERTICO - ITS Europe           Bangsgaard         Jacob         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Flament         Maxime         ERTICO - ITS Europe           Aertsens         Xavier         ERTRAC           Neugebauer         Stephan         ERTRAC           Peris         Milko         Estonian Permanent Representation to the EU           Vicente         Natalia         ETNO           Townsend         Ellen         ETSC           Deix         Stefan         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Euro NAB         EUR COMMISSION           Eifert         Harald         EurA AG           Hirschberg         Ralph         Eur AG           Gury         Michael         European Commission           GUIDI         MATTEO         EURONEWS           Bettini         Stefania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |              | *                              |
| Somma         Giacomo         ERTICO - ITS Europe           Valente         Pamela         ERTICO - ITS Europe           Bangsgaard         Jacob         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Flament         Maxime         ERTICO - ITS Europe           Aertsens         Xavier         ERTRAC           Neugebauer         Stephan         ERTRAC           Vicente         Natalia         ETNO           Townsend         Ellen         ETSC           Deix         Stefan         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Annika         EUCAR           BRESLIN         LIAM         EUR COMMISSION           Eifert         Harald         EurA AG           Hirschberg         Ralph         EurA AG           Schram         Richard         Euro NCAP           Cory         Michael         EuroGeographics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bulc         Violeta         European Commission           Carbone         Maria         European Commission <td></td> <td></td> <td>*</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |              | *                              |
| Valente         Pamela         ERTICO - ITS Europe           Bangsgaard         Jacob         ERTICO - ITS Europe           Fischer         Francois         ERTICO - ITS Europe           Flament         Maxime         ERTICO - ITS Europe           Aertsens         Xavier         ERTRAC           Neugebauer         Stephan         ERTRAC           Peris         Miiko         Estonian Permanent Representation to the EU           Vicente         Natalia         ETNO           Townsend         Ellen         ETSC           Deix         Stefan         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Annika         EUCAR           Stromdahl         Annika         EUCAR           BRESLIN         LIAM         EUR COMMISSION           Eifert         Harald         EurA AG           Hirschberg         Ralph         Eur AG           Schram         Richard         Euro NCAP           Cory         Michael         EuroGegraphics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Chiarini         Paola         European Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |              | *                              |
| Bangsgaard   Jacob   ERTICO - ITS Europe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |              | *                              |
| Fischer Francois ERTICO - ITS Europe Flament Maxime ERTICO - ITS Europe Aertsens Xavier ERTRAC Neugebauer Stephan ERTRAC Peris Miiko Estonian Permanent Representation to the EU Vicente Natalia ETNO Townsend Ellen ETSC Deix Stefan EUCAR Stromdahl Annika EUCAR BRESLIN LIAM EUR COMMISSION Eifert Harald Eura AG Hirschberg Ralph Eura AG Schram Richard Euro NCAP Cory Michael Euro Geographics GUIDI MATTEO EURONEWS Bettini Stefania European Commission Eule Violeta European Commission Carbone Maria European Commission Demir Mesut European Commission Demir Mesut European Commission Mercier-Handisyde Patrick European Commission Mercier-Handisyde Patrick European Commission VAN GAEVER ALAIN European Commission Von PETER NIKOLAUS Wolfean European Commission Von PETER NIKOLAUS Wolfean European Commission Demir Beuropean Commission Demir Beuropean Commission Mercier-Handisyde Patrick European Commission Won PETER NIKOLAUS European Commission Von PETER NIKOLAUS European Commission Von PETER NIKOLAUS European Commission United European Commission Demir School European Commission Wolfseng European Commission DG CONNECT Coulon Cantuer Myriam European Commission DG GONNECT Coulon Cantuer Myriam European Commission DG GONNECT Coulon Cantuer Myriam European Commission DG GONNECT European Data Protection Supervisor Spinaci Stefano European Parliament Ujhelyi Istvan European Parliament Ujhelyi Istvan European Parliament Ujhelyi Istvan European Parliament Ujhelyi Istvan European Union Road Federation Diez Jose European Union Road Federation                                          |           |              | *                              |
| Flament Maxime ERTICO - ITS Europe Aertsens Xavier ERTRAC Neugebauer Stephan ERTRAC Neugebauer Stephan ERTRAC Peris Miiko Estonian Permanent Representation to the EU Vicente Natalia ETNO Townsend Ellen ETSC Deix Stefan EUCAR Stromdahl Annika BUCAR BRESLIN LIAM EUR COMMISSION Eifert Harald Eur A AG Hirschberg Ralph Eur A AG Schram Richard Euro NCAP Cory Michael EuroGeographics GUIDI MATTEO EURONEWS Bettini Stefania European Commission Bulc Violeta European Commission Chiarini Paola European Commission Demir Mesut European Commission Lobo Georges European Commission Mercier-Handisyde Patrick European Commission Mercier-Handisyde Patrick European Commission Sakovica Julija European Commission Van GAEVER ALAIN European Commission Von PETER NIKOLAUS European Commission Demir Georges European Commission Domir Demir Depart Commission Demir Depart Commission Demir Depart Commission Demir Mesut European Commission Demir Depart Commission Demir Depart Commission Demir Depart Commission Demir Mesut European Commission Demir Depart Commission Depart Depart Compean Commission Depart Depart Commission Depart Depart Compean Demirsion Depart Depart Compean Demirsion Depart Depart Compean Demirsion Depart De |           |              | *                              |
| Aertsens                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |              | *                              |
| Neugebauer   Stephan   ERTRAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |              | *                              |
| Peris Miiko Estonian Permanent Representation to the EU Vicente Natalia ETNO Townsend Ellen ETSC Deix Stefan EUCAR Stromdahl Annika EUCAR BRESLIN LIAM EUR COMMISSION Eifert Harald Eur AG Hirschberg Ralph Eur AG Schram Richard Eur OKAP Cory Michael EuroGeographics GUIDI MATTEO EURONEWS Bettini Stefania European Commission Bulc Violeta European Commission Carbone Maria European Commission Demir Mesut European Commission Demir Mesut European Commission Mercier-Handisyde Patrick European Commission Mercier-Handisyde Patrick European Commission Vi European Commission Vi European Commission Demir Baskelainen Juhani European Commission Mercier-Handisyde Patrick European Commission VAN GAEVER ALAIN European Commission VAN GAEVER ALAIN European Commission VON PETER NIKOLAUS European Commission John European Commission Demir European Commission VON PETER NIKOLAUS European Commission John European Commission DG CONNECT John European Commission DG RTD John European Data Protection Supervisor John European Parliament John European Parliament John Diamandouros Konstandinos European Union Road Federation John European Julien John European Union Road Federation John European Julien John European Union Road Federation John European Julien John European Union Road Federation  |           |              |                                |
| Vicente         Natalia         ETNO           Townsend         Ellen         ETSC           Deix         Stefan         EUCAR           Stromdahl         Annika         EUCAR           BRESLIN         LIAM         EUR COMMISSION           Eifert         Harald         EurA AG           Hirschberg         Ralph         EurA AG           Schram         Richard         EurOAP           Cory         Michael         EuroGeographics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bulc         Violeta         European Commission           Carbone         Maria         European Commission           Carbone         Maria         European Commission           Demir         Mesut         European Commission           Jaaskelainen         Juhani         European Commission           Lobo         Georges         European Commission           Mercier-Handisyde         Patrick         European Commission           Mercier-Handisyde         Patrick         European Commission           Moreire-Handisyde         Patrick         European Commission           Van GaeVER </td <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |              |                                |
| Townsend Ellen ETSC Deix Stefan EUCAR Stromdahl Annika EUCAR BRESLIN LIAM EUR COMMISSION  Eifert Harald EurA AG Hirschberg Ralph EurA AG Schram Richard Euro NCAP  Cory Michael Euro Geographics  GUIDI MATTEO EURONEWS  Bettini Stefania European Commission  Bulc Violeta European Commission  Carbone Maria European Commission  Chiarini Paola European Commission  Demir Mesut European Commission  Lobo Georges European Commission  Mercier-Handisyde Patrick European Commission  Mercier-Handisyde Patrick European Commission  VAN GAEVER ALAIN European Commission  VON PETER NIKOLAUS European Commission  Johan European Commission  Zobbi Roberta European Commission  Domir Beuropean Commission  VON PETER NIKOLAUS European Commission  John European Commission  John European Commission  John European Commission  Von Petra Nikolaus European Commission  John European Commission  John European Commission  John European Commission  Von Petra Nikolaus European Commission  John European Commission  John European Commission  John European Commission  John European Commission  Von Petra Nikolaus European Commission  John European Commission  J |           |              |                                |
| Deix   Stefan   EUCAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |              |                                |
| Stromdahl         Annika         EUCAR           BRESLIN         LIAM         EUR COMMISSION           Eifert         Harald         EurA AG           Hirschberg         Ralph         EurA AG           Schram         Richard         Euro NCAP           Cory         Michael         EuroGeographics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bulc         Violeta         European Commission           Carbone         Maria         European Commission           Chiarini         Paola         European Commission           Demir         Mesut         European Commission           Jaaskelainen         Juhani         European Commission           Lobo         Georges         European Commission           Mercier-Handisyde         Patrick         European Commission           Mercier-Handisyde         Patrick         European Commission           Sakovica         Julija         European Commission           VAN GAEVER         ALAIN         European Commission           Vitiello         Luigi         European Commission           Vohleta         European Commission         European Comm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                                |
| BRESLIN  Eifert Harald EurA AG  Hirschberg Ralph EurA AG  Schram Richard Euro NCAP  Cory Michael EuroGeographics  GUIDI MATTEO EURONEWS  Bettini Stefania European Commission  Bulc Violeta European Commission  Carbone Maria European Commission  Chiarini Paola European Commission  Demir Mesut European Commission  Lobo Georges European Commission  Mercier-Handisyde Patrick European Commission  Maria European Commission  Mercier-Handisyde Patrick European Commission  Maria European Commission  Mercier-Handisyde Patrick European Commission  Morcier-Handisyde Patrick European Commission  Morcier-Handisyde Patrick European Commission  Morcier-Handisyde Patrick European Commission  VAN GAEVER ALAIN European Commission  VON PETER NIKOLAUS European Commission  VON PETER NIKOLAUS European Commission  Von Peter European Commission  Jobbi Roberta European Commission  Cobbi Roberta European Commission  European Commission  Jobbi Roberta European Commission  European Commission  Dor Peter European Commission  Dor Peter European Commission  Soborta European Commission  Dor Peter European Commission  Dor Coulon Cantuer Myriam European Commission - DG CONNECT  Coulon Cantuer Myriam European Commission - DG CONNECT  Coulon Cantuer Myriam European Commission DG RTD  Cozigou Gwenole European Commission DG RTD  Cozigou Gwenole European Commission DG GROW  Wiewiorowski Wojciech European Parliament  Ujhelyi Istvan European Parliament  Ujhelyi Istvan European Parliament  Diamandouros Konstandinos European Union Road Federation  Diez Jose European Union Road Federation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                                |
| Eifert         Harald         EurA AG           Hirschberg         Ralph         EurA AG           Schram         Richard         Euro NCAP           Cory         Michael         EuroGeographics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bulc         Violeta         European Commission           Carbone         Maria         European Commission           Chiarini         Paola         European Commission           Demir         Mesut         European Commission           Jaaskelainen         Juhani         European Commission           Lobo         Georges         European Commission           Mercier-Handisyde         Patrick         European Commission           Mercier-Handisyde         Patrick         European Commission           Morester Handisyde         Patrick         European Commission           VAN GAEVER         ALAIN         European Commission           VAN GAEVER         ALAIN         European Commission           VON PETER         NIKOLAUS         European Commission           Wolfagng         European Commission           Vobi         Roberta         European Commis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |              |                                |
| Hirschberg Ralph EurA AG Schram Richard Euro NCAP Cory Michael EuroGeographics GUIDI MATTEO EURONEWS Bettini Stefania European Commission Bulc Violeta European Commission Carbone Maria European Commission Chiarini Paola European Commission Demir Mesut European Commission Lobo Georges European Commission Lobo Georges European Commission Mercier-Handisyde Patrick European Commission Mercier-Handisyde Patrick European Commission Sakovica Julija European Commission VAN GAEVER ALAIN European Commission VON PETER NIKOLAUS European Commission Worled Werner European Commission Worled Werner European Commission Worled European Commission Worled European Commission Von Petter Nikolaus European Commission Von Petter Nikolaus European Commission Von Petter Suropean Commission Worled Werner European Commission Cobbi Roberta European Commission Von Gaerta European Commission Cobbi Roberta European Commission Cobbi Roberta European Commission Conductor Myriam European Commission - DG CONNECT Coulon Cantuer Myriam European Commission - DG CONNECT Cozigou Gwenole European Commission DG RTD Cozigou Gwenole European Commission, DG GROW Wiewiorowski Wojciech European Data Protection Supervisor Spinaci Stefano European Parliament Ujhelyi Istvan European Parliament Van Der Kamp Menno European Parliament Diamandouros Konstandinos European Union Road Federation Diez Jose European Union Road Federation Diez Jose European Union Road Federation European Pauliaine-Euskadi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |              |                                |
| Schram         Richard         Euro NCAP           Cory         Michael         EuroGeographics           GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bulc         Violeta         European Commission           Carbone         Maria         European Commission           Chiarini         Paola         European Commission           Demir         Mesut         European Commission           Jaaskelainen         Juhani         European Commission           Mercier-Handisyde         Patrick         European Commission           Mercier-Handisyde         Patrick         European Commission           Makovica         Julija         European Commission           VAN GAEVER         ALAIN         European Commission           VAN GAEVER         ALAIN         European Commission           VON PETER         NIKOLAUS         European Commission           Wohlschlegel         werner         European Commission           Zobbi         Roberta         European Commission           Hoefs         Wolfgang         European Commission - DG CONNECT           Coulon Cantuer         Myriam         European Commission - DG CONNECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |              |                                |
| CoryMichaelEuroGeographicsGUIDIMATTEOEURONEWSBettiniStefaniaEuropean CommissionBulcVioletaEuropean CommissionCarboneMariaEuropean CommissionChiariniPaolaEuropean CommissionDemirMesutEuropean CommissionJaaskelainenJuhaniEuropean CommissionLoboGeorgesEuropean CommissionMercier-HandisydePatrickEuropean CommissionmissenrobertEuropean CommissionSakovicaJulijaEuropean CommissionVAN GAEVERALAINEuropean CommissionVON PETERNIKOLAUSEuropean CommissionVON PETERNIKOLAUSEuropean CommissionWohlschlegelwernerEuropean CommissionZobbiRobertaEuropean CommissionHoefsWolfgangEuropean Commission - DG CONNECTCoulon CantuerMyriamEuropean Commission - DG CONNECTCozigouGwenoleEuropean Commission DG RTDCozigouGwenoleEuropean Data Protection SupervisorSpinaciStefanoEuropean Data Protection SupervisorSpinaciStefanoEuropean ParliamentVan Der KampMennoEuropean ParliamentDiamandourosKonstandinosEuropean Union Road FederationDiezJoseEuropean Union Road Federationde LabacaJulienEurorégion Aquitaine-Euskadi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ŭ         | •            |                                |
| GUIDI         MATTEO         EURONEWS           Bettini         Stefania         European Commission           Bule         Violeta         European Commission           Carbone         Maria         European Commission           Chiarini         Paola         European Commission           Demir         Mesut         European Commission           Jaaskelainen         Juhani         European Commission           Lobo         Georges         European Commission           Mercier-Handisyde         Patrick         European Commission           Mercier-Handisyde         Patrick         European Commission           Missen         robert         European Commission           Sakovica         Julija         European Commission           VAN GAEVER         ALAIN         European Commission           VON PETER         NIKOLAUS         European Commission           VON PETER         NIKOLAUS         European Commission           Wohlschlegel         werner         European Commission           Zobbi         Roberta         European Commission - DG CONNECT           Coulon Cantuer         Myriam         European Commission - DG CONNECT           Coulon Cantuer         Myriam         European Commission -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |              |                                |
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| DiezJoseEuropean Union Road Federationde LabacaJulienEurorégion Aquitaine-Euskadi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                                |
| de Labaca Julien Eurorégion Aquitaine-Euskadi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | Konstandinos | European Union Road Federation |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Diez      |              | European Union Road Federation |
| Kewitz Daniel EWE AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | de Labaca | Julien       |                                |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Kewitz    | Daniel       | EWE AG                         |

| Last name           | First name         | Company                                       |
|---------------------|--------------------|-----------------------------------------------|
| Potenza             | Giacomo            | EY                                            |
| Andreone            | Luisa              | FCA-Centro Ricerche Fiat                      |
| Maia                | Luis               | FCT                                           |
| Cronin              | Brian              | Federal Highway Administration, USDOT         |
| Linget              | Thomas             | Fédération Internationale de Motocyclisme     |
| Taal                | Wim                | FEMA                                          |
| Willigers           | Dolf               | FEMA                                          |
|                     | Gabriel            | Ferrovial                                     |
| Cuervo<br>Fernandez | Julia              |                                               |
|                     | Juna<br>José Pedro | Ferrovial Servicios                           |
| Tavares             |                    | FEUP                                          |
| Lenz                | Olivier            | FIA                                           |
| Smith               | Ferry              | FIA Project 1                                 |
| Corazza             | Francesca          | FIA Region 1                                  |
| Krid                | Laurianne          | FIA Region I                                  |
| Ferragina           | Francesca          | FIAT CHRYSLER AUTOMOBILES                     |
| Quintero            | Ramiro             | FICOSA                                        |
| Koskela             | Alina              | Finnish Transport Agency                      |
| Kulmala             | Risto              | Finnish Transport Agency                      |
| Vehvilainen         | Antti              | Finnish Transport Agency                      |
| Viinanen            | Reija              | Finnish Transport Agency                      |
| Willgren            | Tuuli              | Finnish Transport and Logistics               |
| Jalko               | Reijo              | Finnish Transport Safety Agency               |
| Schirokoff          | Anna               | Finnish Transport Safety Agency               |
| Pilli-Sihvola       | Eetu               | Finnish Transport Safety Agency (Trafi)       |
| Sillanpää           | Marko              | Finnish Transport Safety Agency Trafi         |
| Kenraali            | Juha               | Finnish Transport Safety Agengy               |
| Lott                | Alyssa             | Fipra International                           |
| Zlocki              | Adrian             | fka                                           |
| Burkard             | Christian          | fka Forschungsgesellschaft Kraftfahrwesen mbH |
| Kenis               | Eric               | Flanders Gov - Mobility & Public Works        |
| Dedene              | Nele               | Flemish government                            |
| Maitre              | Isabelle           | FNTR                                          |
| Yalcin              | Anıl Dilara        | FORD OTOSAN                                   |
| Felber              | Wolfgang           | Fraunhofer IIS                                |
| Commeau             | André              | Frencg Senate                                 |
| Miyata              | Hiroshi            | Fujitsu Laboratories Ltd.                     |
| Nakano              | Yasuhiko           | Fujitsu Ten (Europe) GmbH                     |
| Garrido             | Graciela           | FundingBox                                    |
| Seoane              | David              | Fundingbox                                    |
| Potter              | Dennis             | Gemeente Capelle aan den Ijssel               |
| Goedickemeier       | Simon              | General Motors Europe: Adam Opel AG           |
| Fritsch             | Geoffrey           | Geoffrey Fritsch Photography                  |
| Cyganski            | Rita               | German Aerospace Center                       |
| Busnadiego          | Carlos             | GMV                                           |
| Gutiérrez Lanza     | Sara               | GMV                                           |
| Delé                | François           | Goodyear Dunlop Tires Operations SA           |
| Jensen              | Rene               | Government                                    |
| Sandrock            | Paul               | Groupe PSA                                    |
| Hazenberg           | Joop               | GSMA                                          |
| Rooney              | Shane              | GSMA                                          |
| Reuter              | Judith             | Hanse-Office                                  |
| Ectors              | Wim                | Hasselt University                            |
| Becker              | Lars               | Hella Aglaia Mobile Vision GmbH               |
| Lueders             | Tom                | Hella Aglaia Mobile Vision GmbH               |
| Nasr                | Ahmed              | HERE                                          |
| Herrtwich           | Ralf G.            | HERE Deutschland GmbH                         |
|                     |                    |                                               |
| Hirose              | Junichi            | Highway Industry Development Organization     |

| Last name               | First name        | Company                                                                                   |
|-------------------------|-------------------|-------------------------------------------------------------------------------------------|
| Dalle Vedove            | Mattia            | HITACHI, LTD                                                                              |
| Aigner                  | Walter            | HiTec                                                                                     |
| Guel                    | Wolfgang          | Hochschule der Medien/MOOVEL                                                              |
| Sergeys                 | Filip             | Honda Motor Europe Ltd.                                                                   |
| Roberts                 | Joanna            | Horizon magazine                                                                          |
| Lou                     | David             | Huawei                                                                                    |
| Bretaudeau              | Jean - Pierre     | Hutchinson                                                                                |
| Fickel                  | Frank             | IAV GmbH                                                                                  |
| FICKEI                  | FIAIIK            | IBM Deutschland Management & Business Support                                             |
| Fricke                  | Volker            | GmbH                                                                                      |
| Amditis                 | Angelos           | ICCS                                                                                      |
| Arnold                  | Martina           | IDA Ireland                                                                               |
| Finnegan                | Ken               | IDA Ireland                                                                               |
| Brimont                 | Laura             | Iddri                                                                                     |
| Tobar                   | Marta             | IDIADA AUTOMOTIVE TECHNOLOGY S.A.                                                         |
| Barrios                 | Jose-Manuel       | IDIADA AUTOMOTIVE TECHNOLOGY S.A.                                                         |
| Arbeit de Chalendar     | Odile             | IFSTTAR                                                                                   |
| Bourquin                | Frédéric          | IFSTTAR                                                                                   |
| HAUTIERE                | Nicolas           | IFSTTAR                                                                                   |
| Marin Lamellet          | Claude            | IFSTTAR                                                                                   |
| Etienne                 | Virginie          | IFSTTAR - Department of Transport health & safety                                         |
| Kotte                   | Jens              | ika - RWTH Aachen University                                                              |
| Guaspare                | Françoise         | Ile-de-France Europe                                                                      |
| Colpaert                | Pieter            | IMEC                                                                                      |
| Curry                   | Phillip           | IMI                                                                                       |
| Angiolini               | Elena             | impulse.brussels                                                                          |
| Tiago                   | Ricardo           | IMT - Instituto da Mobilidade e dos Transportes, I.P.                                     |
| Castiñeira              | Rodrigo           | Indra                                                                                     |
| Gil                     | Mauro             | Indra Sistemas                                                                            |
| Sarros                  | Georgios          | INEA                                                                                      |
| Dettmann                | Wolfgang          | Infineon Technologies AG                                                                  |
| Meillaud                | Laurent           | Ingénieurs de l'Automobile                                                                |
| Schroeder               | Joel              | Inmarsat                                                                                  |
| Mothersole              | Louise            | Innovate UK                                                                               |
| Pereira da Silva        | Maria de Fátima   | InOuCister, Lda & Institute Polythecnique of Coimbra-<br>Traffic Psychology International |
| Andersson               | Kristina          | Inquiry into self-driving vehicles on the road                                            |
| Jimenez                 | Felipe            | INSIA-UPM                                                                                 |
| Cabrera Garcia          | Juan Jose         | INSPIDE                                                                                   |
| Gomez Castaño           | Jose              | INSPIDE                                                                                   |
| Will                    | Devid             | Institut für Kraftfahrzeuge - RWTH Aachen University                                      |
|                         |                   |                                                                                           |
| Lytrivis                | Panagiotis Carlos | Institute of Communication and Computer Systems Instituto Pedro Nunes                     |
| Bento                   |                   |                                                                                           |
| Macario Formandaz Angol | Rosario           | Instituto Superior Técnico, Universidade de Lisboa                                        |
| Fernandez Angel         | Grisel            | Insurance Europe                                                                          |
| Gelin                   | Thomas            | Insurance Europe                                                                          |
| Makowitz                | Rainer            | Intel Labs Europe                                                                         |
| Maly                    | Matej             | INTENS Corporation                                                                        |
| Robson                  | Matthew           | Interel                                                                                   |
| Libbrecht               | Amaury            | Interel Group                                                                             |
| steel                   | Richard           | Intererel group                                                                           |
| Viegas                  | José              | INTERNATIONAL TRANSPORT FORUM (OECD)                                                      |
| Nogueira                | Marcos            | IrRADIARE,Lda                                                                             |
| Giannini                | Monica            | IRU                                                                                       |
| Hadrovic                | Emma              | ITD, Association for the Danish road transport of goods                                   |
| Elmore                  | Mark              | ITS Ireland                                                                               |
| Akiba                   | Toru              | ITS Japan                                                                                 |
|                         |                   |                                                                                           |

| Amano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Last name          | First name | Company                                   |
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| Tamoto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |            |                                           |
| Ichimura                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Tamoto             |            |                                           |
| Merat   Natasha   ITS UNIVERSITYOF LEEDS     Uchida   Nobuyuki   Japan Automobile Research Institute     Shibata   JUN   Japan Digital Road Map Association     Alonso Raposo   María   Joint Research Centre - European Commission     Güner   Refi Tugrul   Kapsch TrafficCom     Fest-Bamonti   Karin   KFV     Lee   Yoon Been   KIC-Europe     Threlfall   Richard   KPMG LLP     Lam   Wee Shann   Lam   Transport Authority of Singapore     Poh   Patrick   Land Transport Authority, Ministry of Transport     Doyle   Hugh   Lero, the Irish Software Research Centre     Gill   James   Lewis Silkin LLP     Falliti   Elisa   LOGOS Public Affairs     Ferrero   Francesco   Luxembourg Institute of Science and Technology (LIST)     Vaz Raposo   Ana   Magellan     Vaz Raposo   Ana   Magellan     Dietl   Philip   Magna Steyr     Ogawa   Norifumi   Mazda Motor Corporation     Coupe   Charlotte   MEEM - DGITM     Toussaint   Philippe   MENESR     Santamala   Harri   Metropolia UAS     Irirot   Grégoire   Ministère de l'économie et des finances - France     Valmain   Joël   Ministère de l'inconomie et des finances - France     Valmain   Joël   Ministère de l'Intérieur     Iorio   Luciana   Ministero Infrastrutture Trasporti   IT     Fernique   Louis   Ministry of Environment, Energy and The Sea, France     Valmain   Joël   Ministry of Environment   Environment / Rijkyadard     Royath   Asa   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Ministry of Transport of the Czech Republic     Schultz van Haegen   Melanie   Minis   |                    |            |                                           |
| Idehida                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |            |                                           |
| Shibata   JUN   Japan Digital Road Map Association                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Uchida             |            |                                           |
| Alonso Raposo María Joint Research Centre - European Commission Güner Refi Tugrul Kapsch TrafficCom Lax Richard Kapsch TrafficCom Fest-Bamonti Karin KFV Lee Yoon Been KLC-Burope Threlfall Richard KPMG LLP Lam Wee Shann Land Transport Authority of Singapore Poh Patrick Land Transport Authority of Singapore Wee Shan Lam Land Transport Authority. Ministry of Transport Doyle Hugh Lero, the Irish Software Research Centre Gill James Lewis Silkin LLP Falliti Elisa LOGOS Public Affairs Ferrero Francesco Luxembourg Institute of Science and Technology (LIST) Costa Fernandez Ana Magellan Vaz Raposo Ana Magellan Vaz Raposo Ana Magellan Dietl Philip Magna Steyr Ogawa Norifumi Mazda Motor Corporation Coupe Charlotte MEEM - DGITM Tirot Grégoire Ministère de l'économie et des finances - France Valmain Joël Ministère de l'Intérieur Iorio Grégoire Ministère de l'Intérieur Iorio Marcel Ministry of Enterprise and Innovation Tidström Catrin Ministry of Enterprise and Innovation Ministry of Transport Czech Republic Stojanovova Marie Ministry of Transport Czech Republic Ministry of Transport of the Czech Rep |                    |            |                                           |
| Gillar   Refi Tugrul   Kapsch TrafficCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |            | <u> </u>                                  |
| East   Richard   Kapsch TrafficCom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                  |            |                                           |
| Fest-Bamonti   Karin   KFV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |            |                                           |
| Lee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |            | 1                                         |
| Threlfall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |            |                                           |
| Lam   Wee Shann   Land Transport Authority of Singapore                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |            |                                           |
| Poh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |            |                                           |
| Wee Shan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |            |                                           |
| Doyle   Hugh   Lero, the Irish Software Research Centre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |            |                                           |
| Gill James Lewis Silkin LLP Falliti Elisa LOGOS Public Affairs Ferrero Francesco Luxembourg Institute of Science and Technology (LIST) Costa Fernandez Ana Magellan Magellan Dietl Philip Magna Steyr Ogawa Norifumi Mazda Motor Corporation Coupe Charlotte MEEM - DGITM Toussaint Philipp MEEM Santamala Harri Metropolia UAS Santamala Harri Metropolia UAS Tirot Grégoire Ministère de l'Intérieur Iorio Luciana Minister de l'Intérieur Iorio Luciana Minister de Intérieur Iorio Luciana Ministry of Entriprise and Innovation Peetre Johann Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation Ministry of Infrastructure and the Environment / Rijkswaterstaat Ministry of Transport and the Environment Netherlands Horváth Zoltán Ministry of Transport and the Environment Netherlands Ministry of Transport Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Ministry of Transport of the Czech Republic Ministry of Transport of t |                    |            |                                           |
| Falliti Elisa LOGOS Public Affairs Ferrero Francesco Luxembourg Institute of Science and Technology (LIST) Costa Fernandez Ana Magellan Vaz Raposo Ana Magellan Dietl Philip Magna Steyr Ogawa Norifumi Mazda Motor Corporation Coupe Charlotte MEEM - DGITM Toussaint Philippe MENESR Santamala Harri Metropolia UAS Tirot Grégoire Ministère de l'économie et des finances - France Valmain Joël Ministère de l'Intérieur Iorio Luciana Ministère de l'Intérieur Iorio Luciana Ministère de Intérieur Iorio Luciana Ministère de Intérieur Iorio Harcel Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation Wagland Asa Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment / Rijkswaterstaat Ministry of Transport of the Czech Republic Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Ministry of Ministry of Ministry  |                    |            |                                           |
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| Costa Fernandez         Ana         Magellan           Vaz Raposo         Ana         Magellan           Dietl         Philip         Magna Steyr           Ogawa         Norifumi         Mazda Motor Corporation           Coupe         Charlotte         MEEM - DGITM           Toussaint         Philippe         MENSR           Santamala         Harri         Metropolia UAS           Tirot         Grégoire         Ministère de l'Economie et des finances - France           Valmain         Joël         Ministère de l'Intérieur           Iorio         Luciana         Ministère de l'Intérieur           Fernique         Louis         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Enterprise and Innovation           Vagland         Asa         Ministry of Enterprise and Innovation           Wagland         Asa         Ministry of Enterprise and Innovation           Mekanie         Ministry of Infrastructure and the Environment / Rijkswaterstaat           Schultz van Haegen         Melanie         Ministry of Transport and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |            |                                           |
| Vaz Raposo         Ana         Magellan           Dietl         Philip         Magna Steyr           Ogawa         Norifumi         Mazda Motor Corporation           Coupe         Charlotte         MEEM - DGITM           Toussaint         Philippe         MENESR           Santamala         Harri         Metropolia UAS           Tirot         Grégoire         Ministère de l'Economie et des finances - France           Valmain         Joël         Ministère de l'Intérieur           Iorio         Luciana         Ministère olifrastrutture Trasporti_IT           Fernique         Louis         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Environment, Sea, Ministry of Environment, Ministry of Enterpr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |            |                                           |
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| Ogawa         Norifumi         Mazda Motor Corporation           Coupe         Charlotte         MEEM - DGITM           Toussaint         Philippe         MENESR           Santamala         Harri         Metropolia UAS           Tirot         Grégoire         Ministère de l'économie et des finances - France           Valmain         Joël         Ministère de l'économie et des finances - France           Valmain         Joël         Ministère de l'économie et des finances - France           Otto         Ministry of Electricitur         Intrasport of Infrastructure and Environment           Petro         Johann         Ministry for Environment, Energy and The Sea, France           Otto         Marcel         Ministry of Economic Affairs and Communications           Tidström         Catrin         Ministry of Enterprise and Innovation           Vagland         Asa         Ministry of Enterprise and Innovation           Vagland         Asa         Ministry of Infrastructure and the Environment / Rijkswaterstaat           Schultz van Haegen         Melanie         Ministry of Transport and the Environment / Rijkswaterstaat           Horváth         Zoltán         Ministry of Transport Czech Republic           Stojanovova         Marie         Ministry of Transport of the Czech Republic           Stojano                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |            | č                                         |
| Coupe         Charlotte         MEEM - DGITM           Toussaint         Philippe         MENESR           Santamala         Harri         Metropolia UAS           Tirot         Grégoire         Ministère de l'économie et des finances - France           Valmain         Joël         Ministère de l'Intérieur           Iorio         Luciana         Ministère de l'Intérieur           Fernique         Louis         Ministry Infrastructure Trasporti_IT           Fernique         Louis         Ministry Infrastructure and Environment           Otto         Marcel         Ministry of Enterprise and Innovation           Peetre         Johann         Ministry of Enterprise and Innovation           Vagland         Asa         Ministry of Enterprise and Innovation           Vagland         Asa         Ministry of Infrastructure and the Environment / Rijkswaterstaat           Schultz van Haegen         Melanie         Ministry of Transport and the Environment           Horváth         Zoltán         Ministry of Transport Czech Republic           Pichl         Martin         Ministry of Transport of the Czech Republic           Stojanovova         Marie         Ministry of Transport of the Czech Republic           Stojanovova         Marie         Ministry of Transport of the Czech Republic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |            |                                           |
| Toussaint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |            |                                           |
| Santamala Harri Metropolia UAS Tirot Grégoire Ministère de l'économie et des finances - France Valmain Joël Ministère de l'Intérieur Iorio Luciana Ministère de l'Intérieur Iorio Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry Infrastructure and Environment Peetre Johann Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation  Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment Netherlands Horváth Zoltán Ministry of Transport Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V. Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information Kitazaki Satoshi NeC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University Yip Fiona Newcastle University Yip Fiona Newcastle University Domenech Anna NISSAN East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |            |                                           |
| Tirot Grégoire Ministère de l'économie et des finances - France Valmain Joël Ministère de l'Intérieur Jorio Luciana Minister de l'Intérieur Trasporti _IT Fernique Louis Ministry for Environment, Energy and The Sea, France Otto Marcel Ministry for Environment, Energy and The Sea, France Otto Marcel Ministry of Economic Affairs and Communications Tidström Catrin Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport Czech Republic Martin Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR OXOAIC FACTOR OXOAIC FORMATION National Institute of Geographic and Forest Information National Institute of Geographic and Forest Information National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Noemi NISSAN  Moya Noemi NISSAN  NISSAN Europe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |            |                                           |
| Valmain Joël Ministère de l'Intérieur  Iorio Luciana Ministero Infrastrutture Trasporti_IT  Fernique Louis Ministry for Environment, Energy and The Sea, France Otto Marcel Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry of Environment, Energy and The Sea, France Otto Marcel Ministry of Environment Peetre Johann Ministry of Economic Affairs and Communications Tidström Catrin Ministry of Enterprise and Innovation  Vagland Asa Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment / Netherlands Horváth Zoltán Ministry of Transport Czech Republic Siojanovova Marie Ministry of Transport of the Czech Republic Skindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi Technology  Böse Manfred NEC Christiernin Stefan NEVS Sampson Eric Newcastle University  Yip Fiona Newcastle University  Moya Noemi NISSAN  NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |            |                                           |
| Iorio   Luciana   Ministero Infrastrutture Trasporti _IT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |            |                                           |
| Fernique Louis Ministry for Environment, Energy and The Sea, France Otto Marcel Ministry Infrastructure and Environment Peetre Johann Ministry of Economic Affairs and Communications Tidström Catrin Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation  de Kort Antoine Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment / Netherlands Horváth Zoltán Ministry of Transport Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information Kitazaki Satoshi Technology  Böse Manfred NEC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University Yip Fiona Newcastle University Yip Fiona Newcastle University Missan Eust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |            |                                           |
| Otto Marcel Ministry Infrastructure and Environment Peetre Johann Ministry of Economic Affairs and Communications Tidström Catrin Ministry of Enterprise and Innovation Vagland Asa Ministry of Enterprise and Innovation  de Kort Antoine Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment / Netherlands Horváth Zoltán Ministry of Transport Czech Republic Pichl Martin Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V. Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information Kitazaki Satoshi Technology Böse Manfred NEC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University Yip Fiona Newcastle University Yip Fiona Newcastle University Moya Noemi NISSAN Moya Noemi NISSAN Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |            |                                           |
| PeetreJohannMinistry of Economic Affairs and CommunicationsTidströmCatrinMinistry of Enterprise and InnovationVaglandAsaMinistry of Enterprise and Innovationde KortAntoineMinistry of Infrastructure and the Environment / RijkswaterstaatSchultz van HaegenMelanieMinistry of Transport and the Environment NetherlandsHorváthZoltánMinistry of Transport Czech RepublicPichlMartinMinistry of Transport of the Czech RepublicStojanovovaMarieMinistry of Transport of the Czech RepublicShindoKazumiMission of Japan to the EU, Ministry of Foreign AffairesVerhoeffEricMitsubishi Electric Automotive Europe B.V.PersiStefanoMOSAIC FACTORCzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                  |            |                                           |
| Tidström Catrin Ministry of Enterprise and Innovation  Vagland Asa Ministry of Enterprise and Innovation  de Kort Antoine Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment Netherlands  Horváth Zoltán Ministry of Transport Czech Republic  Pichl Martin Ministry of Transport of the Czech Republic  Stojanovova Marie Ministry of Transport of the Czech Republic  Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR  Czako Josef Moving Forward Consulting  Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  Mariostry of Enterprise and Innovation  Ministry of Infrastructure and the Environment / Rijkswaterstaat  Ministry of Infrastructure and Innovation  Ministry of Infrastructure and the Environment / Netherlands  Ministry of Transport of the Even Republic  Ministry of Transport of the Czech Republic  Ministry o |                    |            |                                           |
| Vagland<br>de KortAsaMinistry of Enterprise and Innovationde KortAntoineMinistry of Infrastructure and the Environment /<br>RijkswaterstaatSchultz van HaegenMelanieMinistry of Transport and the Environment<br>NetherlandsHorváthZoltánMinistry of Transport Czech RepublicPichlMartinMinistry of Transport of the Czech RepublicStojanovovaMarieMinistry of Transport of the Czech RepublicShindoKazumiMission of Japan to the EU, Ministry of Foreign AffairesVerhoeffEricMitsubishi Electric Automotive Europe B.V.PersiStefanoMOSAIC FACTORCzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and<br>TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |            |                                           |
| de Kort Antoine Ministry of Infrastructure and the Environment / Rijkswaterstaat  Schultz van Haegen Melanie Ministry of Transport and the Environment Netherlands  Horváth Zoltán Ministry of Transport Czech Republic  Pichl Martin Ministry of Transport of the Czech Republic  Stojanovova Marie Ministry of Transport of the Czech Republic  Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR  Czako Josef Moving Forward Consulting  Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  Moya Noemi NISSAN  NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |            |                                           |
| Rijkswaterstaat  Schultz van Haegen  Melanie  Ministry of Transport and the Environment Netherlands  Horváth  Zoltán  Ministry of Transport Czech Republic  Pichl  Martin  Ministry of Transport of the Czech Republic  Stojanovova  Marie  Ministry of Transport of the Czech Republic  Shindo  Kazumi  Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff  Eric  Mitsubishi Electric Automotive Europe B.V.  Persi  Stefano  MOSAIC FACTOR  Czako  Josef  Moving Forward Consulting  Gronier  Pierre  National Institute of Geographic and Forest Information  National Institute of Advanced Industrial Science and Technology  Böse  Manfred  NEC  Baldessari  Roberto  NEC Europe Ltd.  Christiernin  Stefan  NEVS  Sampson  Eric  Newcastle University  Yip  Fiona  Newcastle University  Domenech  Anna  NISSAN  Moya  Noemi  NISSAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    | Asa        |                                           |
| Schultz van Haegen Melanie Ministry of Transport and the Environment Netherlands  Horváth Zoltán Ministry of Transport Czech Republic  Pichl Martin Ministry of Transport of the Czech Republic  Stojanovova Marie Ministry of Transport of the Czech Republic  Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR  Czako Josef Moving Forward Consulting  Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | de Kort            | Antoine    |                                           |
| Horváth Zoltán Ministry of Transport Czech Republic  Pichl Martin Ministry of Transport of the Czech Republic  Stojanovova Marie Ministry of Transport of the Czech Republic  Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR  Czako Josef Moving Forward Consulting  Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    |            |                                           |
| Horváth Zoltán Ministry of Transport Czech Republic Pichl Martin Ministry of Transport of the Czech Republic Stojanovova Marie Ministry of Transport of the Czech Republic Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires Verhoeff Eric Mitsubishi Electric Automotive Europe B.V. Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology Böse Manfred NEC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University Yip Fiona Newcastle University Domenech Anna NISSAN Moya Noemi NISSAN East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Schultz van Haegen | Melanie    |                                           |
| PichlMartinMinistry of Transport of the Czech RepublicStojanovovaMarieMinistry of Transport of the Czech RepublicShindoKazumiMission of Japan to the EU, Ministry of Foreign AffairesVerhoeffEricMitsubishi Electric Automotive Europe B.V.PersiStefanoMOSAIC FACTORCzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Horváth            | Zoltán     |                                           |
| StojanovovaMarieMinistry of Transport of the Czech RepublicShindoKazumiMission of Japan to the EU, Ministry of Foreign AffairesVerhoeffEricMitsubishi Electric Automotive Europe B.V.PersiStefanoMOSAIC FACTORCzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |            |                                           |
| Shindo Kazumi Mission of Japan to the EU, Ministry of Foreign Affaires  Verhoeff Eric Mitsubishi Electric Automotive Europe B.V.  Persi Stefano MOSAIC FACTOR  Czako Josef Moving Forward Consulting  Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |            |                                           |
| VerhoeffEricMitsubishi Electric Automotive Europe B.V.PersiStefanoMOSAIC FACTORCzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    |            |                                           |
| Persi Stefano MOSAIC FACTOR Czako Josef Moving Forward Consulting Gronier Pierre National Institute of Geographic and Forest Information Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |            |                                           |
| CzakoJosefMoving Forward ConsultingGronierPierreNational Institute of Geographic and Forest InformationKitazakiSatoshiNational Institute of Advanced Industrial Science and TechnologyBöseManfredNECBaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |            |                                           |
| Gronier Pierre National Institute of Geographic and Forest Information  Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |            |                                           |
| Kitazaki Satoshi National Institute of Advanced Industrial Science and Technology  Böse Manfred NEC  Baldessari Roberto NEC Europe Ltd.  Christiernin Stefan NEVS  Sampson Eric Newcastle University  Yip Fiona Newcastle University  Domenech Anna NISSAN  Moya Noemi NISSAN  East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |            |                                           |
| Böse Manfred NEC Baldessari Roberto NEC Europe Ltd. Christiernin Stefan NEVS Sampson Eric Newcastle University Yip Fiona Newcastle University Domenech Anna NISSAN Moya Noemi NISSAN East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Gronier            | FICITE     |                                           |
| BaldessariRobertoNEC Europe Ltd.ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Kitazaki           | Satoshi    |                                           |
| ChristierninStefanNEVSSampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Böse               | Manfred    |                                           |
| SampsonEricNewcastle UniversityYipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Baldessari         | Roberto    | NEC Europe Ltd.                           |
| YipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Christiernin       | Stefan     | NEVS                                      |
| YipFionaNewcastle UniversityDomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sampson            | Eric       | Newcastle University                      |
| DomenechAnnaNISSANMoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    | Fiona      | •                                         |
| MoyaNoemiNISSANEastMary-JayNISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |            |                                           |
| East Mary-Jay NISSAN EUROPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                    |            |                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |            |                                           |
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| Last name   | First name           | Company                                                      |
|-------------|----------------------|--------------------------------------------------------------|
| Ossendorp   | Richard              | NL Permanent Representation to the EU                        |
| Hunter      | Ben                  | Northamptonshire County Council                              |
| Lund        | Bjørn                | Norwegian Public Roads Administration                        |
| Farges      | Bastien              | Nouvelle-Aquitaine EU Regional office                        |
|             | Patrick              | NXP                                                          |
| Pype        | Maurice              | NXP Semiconductors                                           |
| Geraets     |                      |                                                              |
| Dobelmann   | Janine Nil alai Card | NXP Semiconductors GmbH                                      |
| Grønberg    | Nikolai Grødum       | Nye Veier                                                    |
| Saumweber   | Stefan               | OEAMTC                                                       |
| Luedtke     | Andreas              | OFFIS - Institute for Computer Science                       |
| Schiltz     | Jean                 | On behalf of the Ministry of Economy of Luxembourg           |
| Maj         | Aleksandra           | Opel Group                                                   |
| Özcan       | İsmail               | Ottonom Engineering Solutions                                |
| Tripoteau   | Lucas                | Pan European Networks                                        |
| Bamps       | Joke                 | Permanent Representation of Belgium to the EU                |
| Husen       | Peter                | Peter Husen Political Solutions                              |
| Schoevaars  | Arno                 | PNO Consultants                                              |
| Ranft       | Florian              | Policy Network                                               |
| Mourey      | Thomas               | Polis                                                        |
| Podgorska - | Anna                 | Polish Perm. Rep. to the EU                                  |
| Buompane    | · ·                  | •                                                            |
| Posaner     | Joshua               | POLITICO                                                     |
| Ledesma     | Ramon                | Pons                                                         |
| Gomez Arche | Ana                  | Pons Road Safety                                             |
| Kacerovsky  | Josef                | Prague City Hall                                             |
| De Koninck  | Guy                  | Private citizen                                              |
| Bolignano   | Dominique            | Prove&run                                                    |
| Puyenbroek  | Marinus              | Province of Noord Brabant                                    |
| Mermans     | Edwin                | Province of Noord-Brabant                                    |
| Gatta       | Matteo               | PROXIMUS                                                     |
| parvais     | ivan                 | proximus                                                     |
| Weber       | Ralf                 | Qualcomm                                                     |
| Laborda     | Josep                | RACC Automobile Club                                         |
| Butter      | Richard              | RAI                                                          |
| van Vliet   | Arjan                | RDW                                                          |
| Montanari   | Roberto              | RE:Lab                                                       |
| Mugnai      | Alexandre            | Red Sentinel B.V.                                            |
| Göpfert     | Marcus               | Region Stuttgart                                             |
| Coutant     | Patrick              | RENAULT                                                      |
| Page        | Yves                 | Renault                                                      |
| Meyer       | Claire               | Renault - Nissan                                             |
| Leclair     | Nadine               | RENAULT SAS                                                  |
| Pascual     | Valérie              | Renault SAS                                                  |
| Hoene       | Falk - Florian       | Representation of the Land Brandenburg to the European Union |
| Alkim       | Tom                  | Rijkswaterstaat                                              |
| Nord        | Stefan               | RISE                                                         |
| Kallianos   | Theodoros            | RMS                                                          |
| Galbas      | Roland               | Robert Bosch GmbH                                            |
| Knoedler    | Kosmas               | Robert Bosch GmbH                                            |
| Mueller     | Werner               | Robert Bosch GmbH                                            |
| Steiger     | Eckard               | Robert Bosch GmbH                                            |
| Tegtmeier   | Joerg                | Robert Bosch GmbH                                            |
| Winterboer  | Andi                 | Robert Bosch GmbH                                            |
| Rupprecht   | Siegfried            | RUPPRECHT CONSULT                                            |
| Schwalm     | Maximilian           | RWTH Aachen University                                       |
| Meeuws      | Ortwin               | SABIC                                                        |
| MCCuws      | Ortwill              | אועהט                                                        |

| Last name          | First name     | Company                                                                        |
|--------------------|----------------|--------------------------------------------------------------------------------|
| Andrä              | Christian      | Sächsische Energieagentur - SAENA GmbH                                         |
| Gellerman          | Helena         | SAFER                                                                          |
| Belov              | Aleksandr      | Saint-Petersburg University of Architecture and Civil<br>Engineering (SPSUACE) |
| Kahrweg            | Jens           | Savari                                                                         |
| Tausz              | Karin          | SBB AG Swiss Railway Company                                                   |
| Forsberg           | Dennis         | Scania CV AB                                                                   |
| KELLY              | EANA           | SCIENCE AND BUSINESS                                                           |
| Medina Marin       | Cecilia        | SERNAUTO                                                                       |
| Soria              | Maria Luisa    | SERNAUTO                                                                       |
| Przybylski         | Jessica Luise  | Siemens                                                                        |
| Thompson           | Douglas        | SOCIEDADE PORTUGUESA DE INOVAÇÃO                                               |
| García de Sandoval | Aurora         | Spanish traffic directorate general                                            |
| Langheim           | Jochen         | ST Microelectronics                                                            |
| O'Neil             | David          | STIF                                                                           |
| Van Dyck           | Thomas         | Subaru Vandenplas                                                              |
| Ishige             | Masao          | SUMITOMO ELECTRIC                                                              |
| Nishimura          | Shigeki        | Sumitomo Electric Industries, Ltd.                                             |
| Elander            | Roland         | Sustainable Innovation                                                         |
| Claridge           | Nigel          | Sustainable Innovation AB                                                      |
| franco             | gino           | swarco                                                                         |
| Roberg             | Clas           | Swedish Transport Administration                                               |
| Zarghampour        | Hamid          | Swedish Transport Administration                                               |
| Bjelfvenstam       | Jonas          | Swedish Transport agency                                                       |
| Riederer           | Markus         | Swiss FEDRO                                                                    |
| Schut              | Martijn        | TASS International                                                             |
|                    | ĭ              | TAYSAD - Association of Automotive Parts and                                   |
| Baybali            | Suheyl         | Components Manufacturers                                                       |
| Guarneri           | Elena          | Technical University of Denmark                                                |
| Nielsen            | Per Seiverts   | Technical University of Denmark                                                |
| Naranjo            | Jose           | Technical University of Madrid (INSIA)                                         |
| Antoniou           | Constantinos   | Technical University of Munich                                                 |
| Delgado            | Estibaliz      | TECNALIA                                                                       |
| Isasi              | Lucia          | TECNALIA                                                                       |
| Horzum             | Muhammet Hakan | The Scientific and Technological Research Council of Turkey (TUBITAK)          |
| Nakajo             | Satoru         | the University of Tokyo                                                        |
| Sakai              | Koichi         | the University of Tokyo                                                        |
| Sefiani            | Marouane       | Thuraya telecommunications                                                     |
| Detemmerman        | Valerie        | TIPIK                                                                          |
| de Brabandere      | Rodolpe        | Tipik communication Agency                                                     |
| Devillers          | Quentin        | Tipik Communication Agency                                                     |
| Linares            | Louis          | Tipik Communication Agency                                                     |
| Petitprez          | Anne-Sonia     | Tipik Communication Agency                                                     |
| Ponteville         | Olivier        | Tipik Communication Agency                                                     |
| Vanvinkenroije     | Marc           | Tipik Communication Agency                                                     |
| de Cloe            | Daan           | TNO                                                                            |
| Jansen             | Sven           | TNO                                                                            |
| Kalisvaart         | Sytze          | TNO                                                                            |
| Krosse             | Bastiaan       | Tno                                                                            |
| Kwakkernaat        | Maurice        | TNO                                                                            |
| Paardekooper       | Jan-Pieter     | TNO                                                                            |
| Şimşek             | Mustafa        | TOFAS TURK OTOMOBIL FAB. A.S.                                                  |
| T'Siobbel          | Stephen        | Tom Tom                                                                        |
| Kröller            | Alexander      | TomTom                                                                         |
| Taniguchi          | Satoru         | Toyota InfoTechnology Co. Ltd.                                                 |
| Kuzumaki           | Seigo          | TOYOTA MOTOR CORPORATION                                                       |
|                    |                | <u> </u>                                                                       |

| Last name        | First name    | Company                                              |
|------------------|---------------|------------------------------------------------------|
| Bruneau          | Audrey        | Toyota Motor Europe                                  |
| Legagneur        | Vincent       | Toyota Motor Europe  Toyota Motor Europe             |
| Ranovona         | Maminirina    | Toyota Motor Europe  Toyota Motor Europe             |
| Yuasa            | Hitoshi       | Toyota Motor Europe NV/SA                            |
| 1 dasa           | Jane          | Toyota Motor Europe NV/SA  Toyota Research Institute |
| Lappin Leriche   | Yann          | TRANSDEV                                             |
| Machado          |               | TRANSDEV                                             |
| Macbeth          | Jorge<br>Iain | Transport for London                                 |
| Kakollu          |               | TSSG                                                 |
|                  | Durgaprasad   |                                                      |
| van Arem         | Bart          | TU Delft                                             |
| Lucas            | Peter         | TU Dresden                                           |
| Zichner          | Marco         | TU Dresden                                           |
| Rutten           | Ben           | TU Eindhoven                                         |
| Van de Weijer    | Carlo         | TU Eindhoven                                         |
| Cinalioglu       | Pertev        | TUBITAK                                              |
| Happee           | Riender       | TUDELFT                                              |
| Doerr            | David         | TÜV Rheinland                                        |
| Simoes           | Anabela       | U. Lusofona                                          |
| Macku            | Marius        | Uber                                                 |
| Costa            | Rui A.        | Ubiwhere                                             |
| Di Pasquale      | Guido         | UITP                                                 |
| Forbes           | Ian           | UK DfT Department for Transport                      |
| Thomas           | Błażej        | UK Research Office                                   |
| Falcao           | Antonio       | UNINOVA-CA3                                          |
| Ghecea           | Monica        | Union europäischer Industrie- und Handelskammern     |
|                  |               | (UECC) Für Verkehrsfragen                            |
| Machek           | Elizabeth     | United States Department of Transportation           |
| Olazagoitia      | José Luis     | Universidad Antonio de Nebrija                       |
| Giannattasio     | Orlando       | Università Degli Studi di Genova                     |
| Rebora           | Francesco     | Università degli studi di Genova                     |
| Tafidis          | Pavlos        | University of Aveiro                                 |
| Fraboni          | Federico      | University of Bologna                                |
| Pietrantoni      | Luca          | University of Bologna                                |
| Shladover        | Steven        | University of California PATH Program                |
| Giglio           | Davide        | University of Genova                                 |
| Vellinga         | Nynke         | University of Groningen                              |
| Barnard          | Yvonne        | University of Leeds                                  |
| Murphy           | Finbarr       | University of Limerick                               |
| Emara            | Karim         | University of Luxembourg (SnT)                       |
| Schobbens        | Pierre Yves   | University of Namur, Belgium                         |
| Bhatia           | Paul          | UNIVERSITY OF NOTTINGHAM                             |
| Pampel           | Sanna         | University of Nottingham                             |
| Meschtscherjakov | Alexander     | University of Salzburg                               |
| Martire          | Jacopo        | University of Stirling                               |
| Kawamoto         | Masayuki      | University of Tsukuba                                |
| Gross            | Ana           | University of Warwick                                |
| Aubert           | Willy         | UPF                                                  |
| Smith            | Scott         | US DOT / Volpe Center                                |
| Sugawara         | Takahiro      | UTMS society of Japan                                |
| di Paola-Galloni | Jean-Luc      | Valeo Group                                          |
| Reilhac          | Patrice       | Valeo Schalter und Sensoren GmbH                     |
| Meyer            | Gereon        | VDI/VDE Innovation + Technik GmbH                    |
| Zachäus          | Carolin       | VDI/VDE-IT GmbH                                      |
| Blervaque        | Vincent       | VEDECOM                                              |
| Faul             | Nadège        | VEDECOM                                              |
| Marbach          | Luc           | VEDECOM                                              |
| Goebelt          | Richard       | Verband der TÜV e.V.                                 |
| Onenett          | Kicilatu      | v civaliu uci i U v c. v.                            |

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| Last name       | First name     | Company                      |
|-----------------|----------------|------------------------------|
| Telepak         | Gregory        | Vienna City Administration   |
| Stenberg        | Esa            | Vinnova                      |
| Watzenig        | Daniel         | Virtual Vehicle              |
| Buburuzan       | Teodor         | Volkswagen AG                |
| Etemad          | Aria           | Volkswagen AG                |
| Briout          | Aurelie        | Volvo Car                    |
| Domecq          | Celine         | Volvo Car                    |
| Eugensson       | Anders         | Volvo Car                    |
| Junghard Zander | Anna Christina | Volvo Car Corporation        |
| Varela          | Javier         | Volvo Car Corporation        |
| Hermansson      | Tord           | Volvo Car Group              |
| Samuelsson      | Håkan          | Volvo Car Group              |
| Victor          | Trent          | Volvo Cars                   |
| Kärrberg        | Anders         | Volvo Cars Group             |
| Sazaklidou      | ZOI            | VOLVO CE                     |
| Mile            | Ausra          | Volvo Construction Equipment |
| Biston          | Frederique     | Volvo Group                  |
| Rosenqvist      | Mats           | Volvo Group                  |
| Walsh           | Krista         | Volvo Group                  |
| Wass            | Urban          | Volvo Group                  |
| Johansson       | Emma           | Volvo Group Truck Technology |
| Tamm            | Therese        | Volvo Truck Corporation      |
| Jacquemyns      | Philippe       | Volvo Trucks                 |
| Boyd            | Martha         | VolvoTruck Corporation       |
| Dvořák          | Jan            | VOP CZ, s.p.                 |
| Strakoš         | Přemysl        | VOP CZ, s.p.                 |
| Omar            | Noshin         | Vrije Universiteit Brussel   |
| Innamaa         | Satu           | VTT                          |
| Koskinen        | Sami           | VTT                          |
| Tavares         | Thiago         | VVA                          |
| Pesce           | Monica         | VVA Brussels                 |
| Sichel          | Katrina        | Wit and Word Communications  |
| Gminder         | Nathalie       | ZF Friedrichshafen AG        |
| Stephan         | Tobias         | ZF Friedrichshafen AG        |