

# **Letter of Intent**

## **on the testing and large scale demonstrations of Connected and Automated Driving (CAD)**

Having regard, among other initiatives, to:

- Ongoing European Commission flagship initiatives in the field, namely the CAD Roundtable, the GEAR 2030 high level group and the C-ITS Platform chaired by the European Commission;
- The EU Framework Programme for Research and Innovation Horizon 2020, which supports CAD development and large scale demonstrations;
- The 14-15 April 2016 Declaration of Amsterdam on cooperation in the field of Connected and Automated Driving ("CAD");
- The European industry Automotive-Telecom Alliance announced on 30 September 2016;
- The commitments made in the Memorandum of Understanding on enterprises in Eastern Central Europe for digitalization and connected and automated driving, signed at the Regional Digital Summit held in Budapest on 17-18 November 2016;
- The European Commission Communication on "A EU Strategy on Cooperative Intelligent Transport Systems"<sup>1</sup> that was published on 30 November 2016;
- The European Commission Communication on "Building a European data economy"<sup>2</sup> that was published on 10 January 2017;
- The conclusions of the High Level Meeting (HLM) on CAD that took place on 15 February 2017 at Schiphol (NL);
- The Commission's intention to elaborate a roadmap on CAD as presented in the HLM of 15 February 2017;
- The Commission's 2017 work program which announces that "the Commission will work in an integrated way on mobility, connectivity and the future of the automotive industry, which needs to meet structural challenges".

The European Ministers that sign this Letter of Intent:

Acknowledge:

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<sup>1</sup> [http://ec.europa.eu/energy/sites/ener/files/documents/1\\_en\\_act\\_part1\\_v5.pdf](http://ec.europa.eu/energy/sites/ener/files/documents/1_en_act_part1_v5.pdf)

<sup>2</sup> <https://ec.europa.eu/digital-single-market/en/news/communication-building-european-data-economy>

- The need for CAD to develop in a “learning by experience approach”, in order to make mobility safer, more efficient and more sustainable;
- The need to better assess the potential synergies (complementarity, redundancy, cost-efficiency, etc.) among various automation functionalities and connectivity technologies, including technologies such as ITS-G5, LTE and 5G, and in this respect the need for tests, experiments and demonstrations;
- The importance of cross-border cooperation on CAD and the role of digital technology;
- The relevance of considering additional links between CAD and other digital technology areas such as the Internet of Things, Artificial Intelligence, cybersecurity products and services, including cyber-physical systems, embedded software and others, calling for secure and reliable connected and automated vehicle communications and systems;

Highlight, in the above context:

- The importance of cross-border cooperation in addressing relevant interoperability issues between Member States at an early stage in testing policies and therefore the need for a commonly agreed evaluation methodology that also fosters the systematic exchange of results and findings;
- The need to build on knowledge and lessons learned, in order to properly adapt international road traffic and vehicle legislation to technological advancements;
- The need to address the data ecosystem in a balanced way taking due consideration, on the one side the issue of data "ownership", conditions for the (re-) use and sharing of data, in compliance with the rules on the protection of personal data, and safety matters and on the other exploiting the opportunities of the data economy;
- The need for further cooperation between the public and private sector;
- The importance of working towards shared practices and voluntary common building blocks on data access and liability;
- The opportunity offered by CAD for the early development and deployment 5G communication technology and the need to ensure complementarity and co-existence with existing communication technologies such as ITS G5 and LTE, when appropriate;
- The importance to contribute and build upon existing Commission initiatives such as the Round Table on Connected and Automated Driving, GEAR2030, Horizon 2020, the C-ITS Platform the C-Roads\_platform, the European ITS-Committee and the European ITS Advisory Board;

Recognise:

- The need for appropriate deployment of infrastructure for electronic communications in conjunction with roads and transport infrastructure;
- The need for high capacity electronic communications networks to enhance services related to CAD, both for passengers and for different types of driver support;

- The market potential in the development of CAD and related services, and the need to include new start-ups as well as the established actors in the market;
- The need to understand underlying value chains, trust networks and business models for acquisition and use of data;
- The relevance of investments in R&I topics related to CAD, large scale demonstrations, pre-deployment projects and pilot initiatives involving all relevant stakeholders to accelerate implementation and to identify and address barriers;
- The importance of ensuring that CAD is at the forefront of applying low carbon technology and contributes to reducing greenhouse gas emissions in transport;

As a contribution to the ongoing work, the Ministers are ready to:

- Support the implementation and cooperation on cross-border initiatives (on sections, itineraries or corridors) and extend existing ones on which to conduct and facilitate research, tests and large scale demonstrations notably on road safety, data access, data quality and liability, connectivity and on digital technologies for CAD;
- Support the development of shared practices and voluntary common building blocks to conduct such experiments;
- Support the availability of spectrum for cross-border experimentation and deployment of CAD based on advanced communication technologies.
- designate a contact point for follow-up resulting from the present letter of intent;
- work together with the Commission to identify the actions to be undertaken by September 2017 on the testing and large scale demonstrations of CAD that are the subject of the present Letter of Intent;
- invite the Commission, at the EU level, to regularly report about recent developments/progress made in the area of CAD, coincident with the HLM on CAD;
- Invite other EU Member States to join this initiative taking into consideration the present Letter of Intent.

For the Republic of Malta	For the Republic of Malta	For the Republic of Estonia
Emmanuel Mallia	Christopher Cutajar	Viljar Lubi
Minister for Competitiveness and Digital, Maritime and Services Economy (MCDMS)	Permanent Secretary of the Ministry for Transport and Infrastructure for Malta	Deputy Secretary General for Economic Development

For the Federal Republic of Germany	For the Portuguese Republic	For the Republic of Slovenia
Dorothee Bär	Guilherme W. D'Oliveira Martins	Boris Koprivnikar
Parliamentary State Secretary	Secretary of State for Infrastructure	Deputy Prime Minister and Minister of Public Administration

For the French Republic	For the Czech Republic	For the Czech Republic
Benjamin Gallezot	Jaroslav Strouhal	Hana Hubáčková
Directeur Général Adjoint, Direction Générale des Entreprises (MEIN/DGE), Représentant de l'Initiative	Deputy Minister for Management of Information and Communication Technologies Section	Czech Ambassador to the Italian Republic

Nationale sur la  
Transformation de  
l'Industrie

For the Kingdom of Sweden  
Peter Eriksson  
Minister for Housing and  
Digitalisation

For the Republic of Hungary  
István Lepsényi  
Minister of State for  
Economic Regulation,  
Ministry for National  
Economy

For the Republic of Poland  
Krzysztof Szubert  
Secretary of State, Ministry  
of Digital Affairs

For the Kingdom of Denmark  
Søren Wille  
Deputy Permanent Secretary  
of the Ministry of Transport

For the Republic of Cyprus  
Marios Demetriades  
Minister of Transport,  
Communications and Works

For the Kingdom of The  
Netherlands  
Mark Frequin  
Director General Mobility for  
the Ministry of Infrastructure  
and the Environment

For the Hellenic Republic  
Nikolaos Pappas  
Minister of Digital Policy,  
Telecommunications and  
Media

For the Italian Republic  
Riccardo Nencini  
Vice Minister of  
Infrastructure and Transport

For the Grand Duchy of  
Luxembourg  
Etienne Schneider  
Deputy Prime Minister,  
Minister for the Economy  
and Foreign Trade

For the Slovak Republic  
Peter Pellegrini  
Deputy Prime Minister for  
Investments and  
Informatization

For the Kingdom of Norway  
Bjørn Grydeland  
Norwegian Ambassador to  
the Italian Republic

For the Kingdom of Belgium  
Alexander de Croo  
Vice-Prime Minister and  
Minister of Development  
Cooperation, Digital Agenda,  
Telecommunication and Post

For the Republic of Finland  
Päivi Antikainen  
Ministry of Transport and  
Communications  
Director of the Data Business  
Unit

