



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"¹ that was published on 30 November 2016;
- The European Commission Communication on "Building a European data economy"² 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:

¹ http://ec.europa.eu/energy/sites/ener/files/documents/1_en_act_part1_v5.pdf

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

Acknowledge:

- 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

Emmanuel Mallia

Minister for Competitiveness and Digital,
Maritime and Services Economy

For the Republic of Estonia

Viljar Lubi

Deputy Secretary General for Economic
Development, Ministry of Economic
Affairs and Communications

For the Republic of Bulgaria

Lubomir Hadjiysky

Deputy Minister of Transport, Information
Technology and Communications

For the Republic of Austria

Ingolf Schädler

Deputy Director General, Ministry for
Transport, Innovation and Technology

For Romania

Augustin Jianu

Minister for Communications and
Information Society

For the Republic of Finland

Päivi Antikainen

Director of Data Business Unit, Data
Department Ministry of Transport and
Communications

For the Republic of Croatia

Alen Gospočić

Assistant Minister (Road/Railway
Transport and Infrastructure)

For the Federal Ministry of Transport and
Digital Infrastructure of the Federal
Republic of Germany

Dorothee Bär

Parliamentary State Secretary

For the Portuguese Republic

Guilherme W. D'Oliveira Martins

Secretary of State for Infrastructure

For the Republic of Slovenia

Boris Koprivnikar

Deputy Prime Minister and Minister of
Public Administration

For the French Republic

Benjamin Gallezot

Directeur Général Adjoint, Direction
Générale des Entreprises, Représentant
de l'Initiative Nationale sur la
Transformation de l'Industrie

For the Czech Republic

Jaroslav Strouhal

Deputy Minister for Management of
Information and Communication
Technologies Section

For the Czech Republic

Hana Hubáčková

Ambassador of the Czech Republic to the Italian Republic and the Republic of Malta

For the Kingdom of Sweden

Peter Eriksson

Minister for Housing and Digitalisation

For the Kingdom of Spain

Luis Aguilera Ruiz

Under Secretary of Home Affairs, Ministry of Home Affairs

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 Hungary

István Lepsényi

Minister of State for Economic Regulation, Ministry for National Economy

For the Republic of Poland

Krzysztof Szubert

Secretary of State / Deputy Minister and The Government Plenipotentiary for Digital Single Market

For the Kingdom of Denmark

Søren Wille

Deputy Permanent Secretary of the
Ministry of Transport

For the Republic of Cyprus

Tasos Tzionis

Ambassador of the Republic of Cyprus in
Rome

For Ireland

Dara Murphy

Minister of State for European Affairs,
Data Protection and the EU Single Digital
Market

For the Republic of Lithuania

Grazvydas Jakubauskas

Director of Road Transport and Civil
Aviation Policy Department of the
Ministry of Transport and
Communications

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 of the
Economy

For the Kingdom of the Netherlands

Mark Frequin

Director General Mobility for the Ministry
of Infrastructure and the Environment

For the Slovak Republic

Peter Pellegrini

Deputy Prime Minister for Investments
and Informatization

For the Kingdom of Norway

Bjørn Grydeland

Ambassador of the Kingdom of Norway to
the Italian Republic

For the Swiss Confederation

Giancarlo Kessler

Ambassador of Switzerland to Italy, Malta
and San Marino