



THE NEWSLETTER OF THE CONNECTED AUTOMATED DRIVING IN EUROPE INITIATIVE

# #EUGoesDriverless

ISSUE N° 1 FEBRUARY 2017

Introducing the projects:

## **SCOUT & CARTRE:** The path to automated driving

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**CARTRE Thematic Interest Groups** ↪

**First European CAD conference** ↪

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*Bringing together more than 60 organisations will allow the creation of a solid knowledge base of all European activities to structure research outcomes.*

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# Foreword

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Dear Readers,

It is with great pleasure that we announce the start of the CARTRE and SCOUT projects dedicated to connected and automated driving. These two European projects stand for the European Union’s ambition to remain a leader in the field of connected and automated driving.

Bringing together more than 60 organisations will allow the creation of a solid knowledge base of all European activities to structure research outcomes. This is highly needed in a fast-moving world where the European Union experiences fierce competition with China, Japan and the United States.

An international conference will be organised in Brussels on 3-4 April 2017. The event will be a unique opportunity to network and to discuss on how to boost the development and deployment of connected and automated driving technologies in Europe.

The CARTRE and SCOUT projects are committed to involve the wide range of stakeholders working in the field of connected and automated driving. A key activity of the support actions is to initiate and a nourish a diverse, lively and fruitful exchange of information and views in the scope of connected and automated driving in Europe.

The discussions will be coordinated around eleven thematic interest groups:

- Policy and regulatory needs, European harmonisation
- Socio-economic assessment and sustainability
- Digital and physical infrastructure
- Safety validation and roadworthiness testing
- In-vehicle technology enablers
- Big data, artificial intelligence and their applications
- Human Factors
- Connectivity
- New mobility services, shared economy and business models
- User awareness, users and societal acceptance and ethics, driver training
- Production and industrialisation

This newsletter and the web platform “connectedautomateddriving.eu” will provide you with the latest updates on issues related to the mobility of the future and guide you through the world of connected and automated driving.

We look forward to working with you over the next two years to move connected and automated driving in Europe further. Join the community!

**Myriam Coulon-Cantuer**  
(European Commission- DG CNECT)

**Ludger Rogge**  
(European Commission- DG RTD)

## ➔ SCOUT & CARTRE: The path to automated driving

**Project name:** “Safe and Connected Automation in Road Transport” – SCOUT

**Project type:** CSA

**Call:** H2020 MG-3.6b-2015, Safe and connected automation in road transport

**Starting date:** 01.07.2016

**Project duration:** 24 months

**Total budget:** 1M€

**Coordinator:** VDI/VDE Innovation + Technik GmbH

**Partners:** 12 partners

### Project objectives:

- ➔ Capture expectations and concerns regarding connected and automated driving (C&AD) from users, technology, infrastructure and service providers and public authorities
- ➔ Explore feasible use cases for C&AD in accordance with the EU strategies for transport and digital markets, societal goals and challenges
- ➔ Analyse gaps and risks for the take-up of C&AD from the domains of automotive technology, communication infrastructure & reliability, legal frameworks, standardisation, testing, safety, security and privacy
- ➔ Identify sustainable business models for C&AD, also considering telecommunication, data driven services and novel mobility concepts
- ➔ Create common cross-sectorial roadmaps and advise policies and regulatory frameworks with support of a stakeholders network
- ➔ Communicate and discuss results with the general public
- ➔ Monitor international trends to detect opportunities & threats abroad
- ➔ Tie-in the results of European funded R&D projects and activities



## Launch of SCOUT “Safe and Connected Automation in Road Transport” Project at AMAA Conference



The SCOUT project was officially launched at the 20th International Forum on Advanced Microsystems for Automotive Applications (AMAA 2016), in Brussels on 22 and 23 September 2016. This year’s topic of the forum was “Smart systems for the Automobile of the Future”.

In his keynote speech, Paul Timmers, Director of the Sustainable & Secure Society Directorate (DG CNECT), European Commission, outlined the supporting role of the project for the current initiatives of the European Commission, and specifically for the Roundtable on Connected and Automated Driving promoted by DG CNECT. The Roundtable links the automotive industry with the telecom and digital worlds to promote an infrastructure deployment and borderless standardisation, with the goal to realise a digital single market.

The SCOUT project was addressed in a panel discussion entitled “Cross-Sectorial Innovation for High-Level Automation – The SCOUT Project”, which was moderated by Gereon Meyer (VDI/VDE-IT), the project coordinator. The panelists, Francesco Alesiani (NEC Europe), Adrian Zlocki (RWTH Aachen University), Luisa Andreone, (Centro Ricerche FIAT), Roland Galbas (Robert Bosch GmbH) and Christian Rousseau (Renault), represented different sectors and positions in the project who discussed about the role of connectivity for automated driving, the needs for a broader deployment and the opportunities that may arise from the new services and functionalities linked to automated road transport ■

# CARTRE

Coordination of Automated Road Transport Deployment for Europe

## CARTRE “Coordination of Automated Road Transport in Europe” Project Kicks-off



The Coordination of Automated Road Transport in Europe (CARTRE) – launched on 2-3 November 2016, at its kick-off event at Volvo Trucks Belgium in Brussels.

The two day event gathered stakeholders to discuss the CARTRE project, which includes more than 60 organisations to consolidate the current industry and policy fragmentation surrounding the development of automated road transport. The CARTRE project also supports the organisation of a European Conference on Automated Road Transport. The event will bring together political and industrial leaders to share best practices on automated and autonomous driving and to identify pathways to realise the potential of automated road transport in the near future ■

**Project name:** “Coordination of Automated Road Transport Deployment for Europe”- CARTRE

**Project type:** CSA

**Call:** H2020 ART-06-2016, Coordination of activities in support of road automation

**Starting date:** 01.10.2016

**Project duration:** 24 months

**Total budget:** 3M€

**Coordinator:** ERTICO – ITS Europe

**Partners:** 36 partners

### Project objectives:

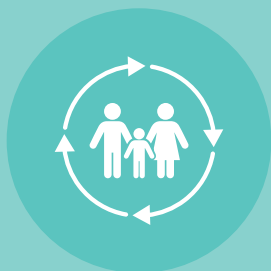
- Establish European leadership through public-private collaboration for development and deployment of Automated Road Transport (ART)
- Support international cooperation activities in the area of road automation at global level, in particular with the US and Japan
- Support strategic alignment of national action plans for automated driving
- Ensure that stakeholders are well informed of past, current and future ART activities through a comprehensive knowledgebase of project result
- Actively support ART pilots and test beds
- Report on progress of ART projects on enablers and thematic areas
- Facilitate exchange of data, experience and knowledge for comparing and deploying results from pilots
- Foster a common evaluation framework across ART projects
- Describe possible deployment alternatives and evaluate their impacts
- Reach out to stakeholders, decision makers and wider public
- Establish annual international conferences, and workshops in Europe

## ➔ CARTRE Thematic Interest Groups

One of the CARTRE project's objectives is to create a joint stakeholder network within Europe, with strong involvement of the automotive sector- Original Equipment Manufacturer (OEMs) and automotive suppliers, public authorities (Ministries of Transport, road operators, vehicle approval agencies) and RTDs in the field of Automated Road Transport. In order to support networking activities focused on the coordinated exchanges of information, results and needs between stakeholders and experts, the project partners selected 11 themes, enablers for ART: The Thematic interest groups will identify challenges and possible answers. The results will be published in position papers.



Policy and regulatory needs,  
European harmonisation



Socio-economic assessment and  
sustainability



Digital and physical  
infrastructure



Safety validation  
and roadworthiness testing



In-vehicle technology  
enablers



Big data, artificial intelligence  
and their applications



Human Factors



Connectivity



New mobility services, shared  
economy and business models



User awareness, users and societal acceptance and ethics, driver training



Production and industrialisation

GET INVOLVED



The CARTRE project is open to associated partners, therefore we invite any stakeholder interested in the development of automated road transport technologies to join our stakeholder community and benefit from access to project material, the latest project developments and participation in project meetings. For more information visit our website: [www.connectedautomateddriving.eu](http://www.connectedautomateddriving.eu)

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*The CARTRE Thematic Interest Group initiative is a central meeting point for European ART activities. Together, stakeholders sketch the state of the art and the key challenges towards connected automated driving in Europe.*

**Bastiaan Krosse**

TNO Program Manager Automated Driving Mobility and Logistics

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## FOT-Net Final Event



The FOT-Net Data final event was organised on 14–15 December 2016 in Brussels with the new CARTRE support actions that continues FOT-NET's key activities. The first day of the final event focused on feature results from FOT-Net Data, especially the Data

Sharing Framework and also covered news from related projects by the FOT community. The second day brought working meeting, planning continuation of FOT-Net's themes in CARTRE and cooperation between automated driving pilot projects ■

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## ITS Japan holds third annual automated driving workshop

On 15-17 November 2016, ITS Japan organised their third annual international 'SIP-adus' workshop (Strategic Innovation programme - Automated driving for universal service workshop) on connected and automated vehicles. The workshop was attended by an international audience with 365 participants, representing nearly a dozen countries.

The objective of the meeting was to report on the current work done in the "Automated driving for universal service" (adus) part of the Strategic

Innovation Promotion Program (SIP) of the Japanese Government. In addition, the international speakers informed participants on the latest updates on state-of-the-art technology from around the world, on many different topics such as dynamic maps, connectivity, human factors and cybersecurity.

Over the three last editions of the workshop, the discussions with the Japanese experts have evolved from an exchange of information to a better understanding of each other's approaches to address future

deployment of automated driving. The main topic of the SIP-adus workshop was the forthcoming Field Operational Tests (FOT) being planned during the Japanese FY2017. A series of real-life experiments will be conducted on more than 300km of varying types of roads in Japan. For the first time, the Japanese government is inviting international companies to test their systems on Japanese roads (on the basis of National Police Agency – NPA guidelines published in 2016). The operations will take place from September 2017 to January 2018 ■

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## 37 leading companies join forces in European Automotive-Telecom Alliance to launch connected and automated driving project

At a Round Table on Connected and Automated Driving chaired in Paris by Günther H. Oettinger, European Commissioner for Digital Economy and Society, the automotive and telecom industries formally announced the creation of Europe's first Automotive-Telecom Alliance. The Alliance includes

six leading sectorial associations, as well as 37 companies, including telecom operators, vendors, automobile manufacturers and suppliers for both cars and trucks. The main goal is to promote the wider deployment of connected and automated driving in Europe ■





## European Truck Platooning Challenge

During its Presidency of the European Union in 2016, the Netherlands has initiated a European Truck Platooning Challenge. Six brands of automated trucks- DAF Trucks, Daimler Trucks, Iveco, MAN Truck & Bus, Scania and Volvo Group - have been driving in columns (platooning), on public roads from several European cities to the Netherlands.

The aim of the Challenge was to bring platooning one step closer to

demonstrate and test state of the ART truck platooning.

Following this event, the ETPC activities continue. Six ambassadors (IRU, CLEPA, ESC, ACEA, CEDR, EREG) are involved in the initiatives supported by ERTICO as secretary.

On 21 March 2017, a networking event will be organised by the network together with an MEP event ■

Read more: [www.eutruckplatooning.com](http://www.eutruckplatooning.com)



## New project launched: AUTOPILOT - AUTOMated driving Progressed by Internet Of Things (IoT)



The European automotive industry wants to develop a competitive edge, investing in connected and automated driving with cars becoming moving “objects” in an IoT ecosystem eventually participating in Big Data for Mobility. The AUTOPILOT project brings IoT into the automotive world to transform connected vehicles into highly and fully automated vehicles ■

## H2020-ART-2016-2017: Open calls

The European Commission has opened calls for H2020-ART-2016-2017, which will support the short term introduction of passenger car to the third automated driving level, including safe stops, and truck platooning in real traffic conditions from 2020 onwards. The main focus of this call is on demonstrations of automated driving systems for

passenger cars, trucks and urban transport. Demonstrations will be complemented by further research on digital infrastructure to ensure the necessary level of safety, reliability and efficiency of automated driving systems and by a comprehensive analysis of safety aspects in relation to mixed traffic conditions and their influence on end user acceptance ■



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*The European Conference on Connected and Automated Driving is the first on its kind. This high-level event will gather top leaders from policy and industry to sketch the state of the art and major challenges on the path to in automated driving in Europe and beyond.*

**Maxime Flament**  
ERTICO, CARTRE Project Coordinator

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## 1<sup>st</sup> European Conference on 'Connected and Automated Driving'



**3-4 April 2017**



The European Commission, with the support of the EC-funded projects CARTRE and SCOUT, is pleased to announce its First European Conference on connected and automated driving: 'Connected and Automated Driving – Together, shaping the future'.

This high-level conference will be held in Brussels on the 3<sup>rd</sup> and 4<sup>th</sup> 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 – are invited to attend.



[www.connectedautomateddriving.eu](http://www.connectedautomateddriving.eu)



## 12<sup>th</sup> ITS European Congress



**19-22 June 2017**



### Strasbourg Convention Exhibition Centre

Under the theme "*ITS Beyond Borders*", the Congress will focus on the people and intelligent mobility users, as every day hundreds of thousands of them are crossing the French-German border to live their daily lives.



[www.strasbourg2017.itsineurope.com](http://www.strasbourg2017.itsineurope.com)



## 24<sup>th</sup> ITS World Congress

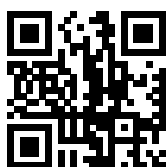


**29 October-2 November 2017**



### Palais des congrès de Montréal

The Montreal World Congress 2017, the event where policy, real world deployment and future ideas will come together to advance integrated mobility, Smart Cities and the next generation of transportation through intelligent transportation systems.



[www.itsworldcongress2017.org](http://www.itsworldcongress2017.org)



# Scout



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# CARTRE

Coordination of Automated Road  
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Interested in the development of  
automated road transport technologies?

Join our stakeholder community:

[www.connectedautomateddriving.eu](http://www.connectedautomateddriving.eu)

