# e-Newsletter

*The best project's news and updates*

## Message from the Team

Welcome to the first edition of the ICT4CART e-Newsletter! ICT4CART was launched in September 2018 and now, after one successful year of implementation, we are ready to share with you the most recent developments, achievements and future plans. As the first in a series, this edition will provide you with some key information about the project, including what we have been up to in the past year and what we are looking forward to in 2020.

Enjoy the reading!

Your ICT4CART Team

# NEWS



## The first year of ICT4CART

ICT4CART has successfully concluded its first year. Since the project kick-off meeting in Athens, our 21 partners have specified the use cases, run a market analysis, developed the Architecture and the Flexible Network behind ICT4CART. But not only: over the course of 2019, we also developed a thoughtful Communication Strategy together with our dissemination tools, presenting the project in many events and conference at European and international level. This first year created the momentum needed to sustain the ICT4CART mission: to bring together, adapt and improve technological advances from the telecommunication, automotive and IT industries, to provide the ICT infrastructure to enable the transition towards road transport automation.

**LEARN MORE ABOUT THE PROJECT**

# MARKET ANALYSIS

To begin to understand the value of the solutions that ICT4CART is developing, a market analysis exercise was carried out. Our partner Urban Foresight completed a dedicated research and analysis activity. The end-users and the suppliers of these technologies were segmented into three groups (with a wide variety of needs):

a. vehicle' s drivers & passengers;
b. operators of the road networks;
c. business providers, such as IT companies providing software services.

The market was split into 6 areas that deliver on specific value propositions:

1. Automated driving: connectivity to support the automated decision-making of road vehicles;
2. Informed journeys: connectivity to improve driving decisions, regardless of how automated the vehicle is;
3. Intelligent management: connectivity to improve awareness of what is happening on a road network or other driving environment;
4. Coordination of vehicles: connectivity to instruct automated vehicles in specific scenarios and coordinate their driving;
5. Connected travelers: connectivity to connect vehicle passengers and improve their experience;
6. Underpinning services: connectivity services with commercial potential that enable safe and effective communication networks.

## ARCHITECTURE FOR CAD TRAFFIC

Within our first year, Michael Buchholz (Ulm University) led the work and successfully developed, with the other involved partners, a general architecture for connected and automated traffic assisted by ICT infrastructure. This architecture provides a high-level system overview as well as views on the functional, communication, IT and data, cyber-security and privacy architectures. The results are published in 4 deliverables: the ICT4CART Reference Architecture; Flexible Network Specification and Architecture; IT Environment Specifications and Architecture and Cyber-security and Data Privacy Specifications and Architecture. Additionally, a paper proposal to the Transport Research Arena conference, to be held in April 2020 in Helsinki, has been prepared and accepted for publication, providing a great chance to disseminate the results achieved by the project team.

**CLICK HERE TO ACCESS ICT4CART'S DELIVERABLES**

# EVENTS

## Where we have been

During its first year of implementation, ICT4CART Consortium put a significant effort to present the project at national, European and International level. Among the most relevant events we attended, we would like to list the following:

- the International Symposium on Cybersecurity and IoT (May 2019) in Angers, France;
- the 13th ITS European Congress (June 2019) in Brainport, the Netherlands;
- the Automated Vehicles Symposium (July 2019) in Orlando, Florida.

Each of these was a fruitful opportunity to reach out a wider audience and raise awareness about ICT4CART and the work we are implementing towards higher levels of automation!



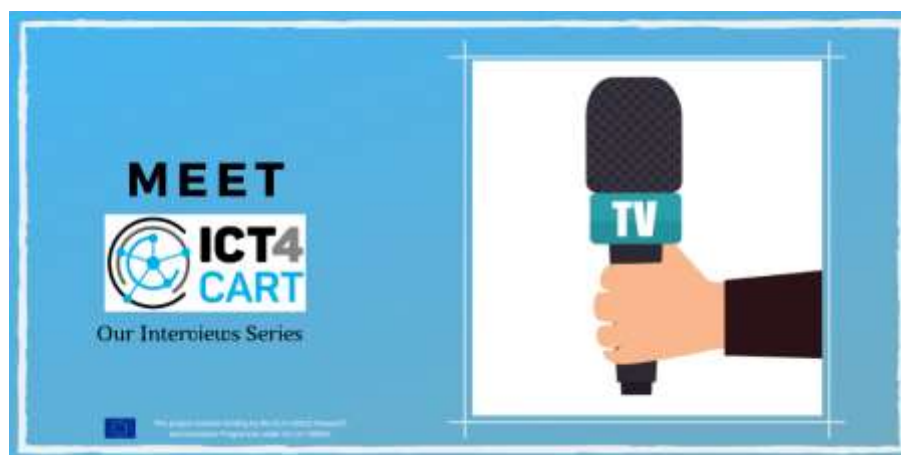**READ ABOUT PAST EVENTS**

## Where we will be

As we constantly work to engage with relevant stakeholders from the industries we put together, but also with the public who wants to know more about ICT4CART, we have already identified more opportunities to take part in and present you our project. Some of them are:

- Digital Transport Days, Helsinki (October 2019)
- EUCAR Annual Reception and Conference, Brussels (November 2019)
- IEEE Globecom, Hawaii (December 2019)

Come and meet us, we would be glad to speak with you!

**DISCOVER UPCOMING EVENTS**

# SPECIAL EXTRA



**Meet ICT4CART - Our Interview Series**

Our consortium is really willing to engage with its audience along ICT4CART journey. For this reason, last July we launched "Meet ICT4CART", our Interview Series! Issued on a bi-monthly basis, the series introduces you to each one of our partners and shares information about a specific topic, different for each of the articles. Ready to become an ICT4CART expert?

**FIND THE ARTICLES FROM THE INTERVIEW SERIES**

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