



5G INTELLIGENT AUTOMOTIVE NETWORK APPLICATIONS

Newsletter

January 2022

Project Overview

5G-IANA: a new Horizon 2020 project on 5G Intelligent Automotive Network Applications

The EU project 5G-IANA kicked off in June 2021 and aims at providing an open 5G experimentation platform, on top of which third party experimenters, i.e., Small and Medium Enterprises (SMEs) in the Automotive-related 5G-PPP vertical will have the opportunity to develop, deploy and test their services.

An Automotive Open Experimental Platform (AOEP) will be specified, as the whole set of hardware and software resources that provides the computational and communication/transport infrastructure as well as the management and orchestration components, coupled with an enhanced NetApp Toolkit tailored to the Automotive sector. 5G-IANA will expose to experimenters secured and standardized Application Programming Interfaces (APIs) for facilitating all the different steps towards the production stage of a new service.

5G-IANA will be demonstrated through **seven automotive-related use cases** in two 5G testbeds:

- USE CASE 1: REMOTE DRIVING
- USE CASE 2: MANOEUVRES COORDINATION FOR AUTONOMOUS DRIVING
- USE CASE 3: VIRTUAL BUS TOUR
- USE CASE 4: AUGMENTED REALITY (AR) CONTENT DELIVERY FOR VEHICULAR NETWORKS
- USE CASE 5: PARKING CIRCULATION & HIGH-RISK DRIVING HOTSPOT DETECTION
- USE CASE 6: NETWORK STATUS MONITORING
- USE CASE 7: SITUATIONAL AWARENESS IN CROSS BORDER ROAD TUNNEL ACCIDENTS



5G-IANA project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101016427.

Consortium

We are 16 partners from 8 European countries. We count on major research organisations already involved in #5G projects, telecom and IT manufacturers, and highly expertized SMEs.

You can discover all partners and their roles in the project in our website: www.5g-iana.eu/consortium/



Testbeds

5G-IANA will be demonstrated in two 5G testbeds:

NOKIA testbed in Ulm (Germany)

- ✓ all Use Cases will be demonstrated
- ✓ operates an LTE/5G test network
- ✓ on-air testbed of 5 sites –with 3 radio cells each– covering an area of more than 100 km²
- ✓ includes a motorway (A8), a highway (B10), a high-speed train line (S21) and major parts of the city of Ulm



TELEKOM SLOVENIJE (TS) in Ljubljana (Slovenia)

- ✓ Use Case 7 will be demonstrated
- ✓ dedicated 5G infrastructure located at TS premises for the purpose of the 5G-IANA project's demonstrations
- ✓ cloud and virtualisation environment, network connectivity, 4G – LTE radio access network (CA, Nb-IoT, VoLTE,) and a 5G radio access network and 5G ready core network based on EPC extensions

Dissemination & Communication channels

5G-IANA's official website was launched in November:

www.5g-iana.eu

The website is our main communication channel where all project related information can be found (consortium, objectives, WPs, 5G PPP involvement, etc.) as well as communication and dissemination resources (Deliverables, Presentations, Publications, Newsletters, etc.).

Latest news of the project are also available in our website!

Latest project news

5G-IANA: A new Horizon 2020 project on 5G Intelligent Automotive Network Applications: ICCS, our project coordinator, introduces the project and provides a general introduction to its technical objectives, methodology and main expected outcomes.

▶ [Read more](#)



5G-IANA project was presented at the IEEE 5G Summit

▶ [Read more](#)

5G-IANA's first press release: The EU project 5G-IANA kicks off to accelerate the creation and commercialisation of 5G-based Automotive Applications.

▶ [Read more](#)



5G-IANA project was featured on the 5GPPP Phase 3 projects brochure

▶ [Read more](#)

5G-IANA is also available in social media:



twitter.com/IANA_5G



www.linkedin.com/company/5g-iana/

Follow us to remain up to date on the progress of the project!!

Events

9th - 10th Sep 

Kick-off Meeting in Athens:

5G-IANA officially kicked off in June 2021 on a virtual session, however a physical kick-off meeting was organised by ICCS, our project coordinator, on 9th and 10th September in Athens. The scope of this meeting was to discuss about the first phase of the project and its objectives, and it was also a great opportunity for the consortium members to meet each other in person. During this two-day meeting, some very interesting technical discussions took place, mainly related to the specifications and requirements of the 5G-IANA (WP2) architecture. This led to the creation of useful action points and, in essence, to the effective start of the technical work of the project.



Upcoming events

30th May - 1st Jun 

ITS EU Congress:

ERTICO ITS Europe and Toulouse Métropole will host the European ITS Congress in the Centre of Toulouse, from 30 May to 1 June 2022. The ITS Congresses represent the ultimate showcase of mobility services deployment and are the means for the ITS Community to keep pace with the incredible evolution of the industry.

