

5G!DRONES

Unmanned Aerial Vehicle Vertical Applications' Trials Leveraging Advanced 5G Facilities

5G!Drones PROJECT OVERVIEW

5G!Drones is a EU-funded project under H2020 - ICT 19 - 2019 Programme. It runs for 36 months (6/2019 to 5/2022) and its consortium consists of 20 partners from eight (8) European countries.

The 5G!Drones project aims to trial several UAV use cases that cover eMBB, uRLLC and mMTC 5G services, and validate 5G KPIs which apply to support such challenging use cases, and to enhance them with powerful features. Moreover, 5G!Drones will propose novel methods for UAV traffic management services made possible by the underlying 5G technology. 5G!Drones will build on top of the 5G facilities provided by the ICT-17 projects, while identifying and developing the missing components to trial UAV use cases. Furthermore, 5G!Drones will feature Network Slicing (NS) as the key component to simultaneously run the three types of UAV services.

The 5G!Drones consortium represents an excellent mixture of industrial and academic profiles from all over Europe, covering Verticals (Airbus, Thales, Hepta Airborne, CAFA Tech, Alerion, UMS, INVOLI, Frequentis), commercial network Operators (Orange France, Orange Poland, COSMOTE), Networking industry (NOKIA), SMEs (INFOLYSiS, Robots.Experts, DroneRadar), outstanding EU Research Centres (EURECOM, NCSR DEMOKRITOS), renowned Universities (UO and AU) and the Municipality of the Egaleo city. Relying on the expertise of 5G!Drones partners, several use cases have been identified which reflect key UAV applications covering civilian and commercial scenarios for which 5G is highly needed. The four 5G!Drones use case areas, which are implemented and tested using the 5G!Drones test facilities (two ICT-17 5G facilities and two partners' specific facilities), are the following:

UC1: UAV Traffic Management

UC2: Public safety/saving lives

UC3: Situation awareness

UC4: Connectivity during crowded events

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DISSEMINATION AND COMMUNICATION CHANNELS

5G!Drones core dissemination activities target mainly to the diffusion of scientific knowledge generated within the context of the project, while core communication activities deal with raising awareness about the project through electronic and non-electronic means, through interactive and non-interactive activities. In order to better communicate information in regards to the 5G!Drones project's scope and achievements, numerous communication channels have been setup and running aiming to the most efficient and effective diffusion of 5G!Drones activities.

The official website of 5G!Drones Project has been developed since the end of May and promotes project's concept and goals along with the latest news in regards to deliverables, newsletters, activities as well as events that the project's partners participate. Please visit our website and learn more about 5G!Drones at:

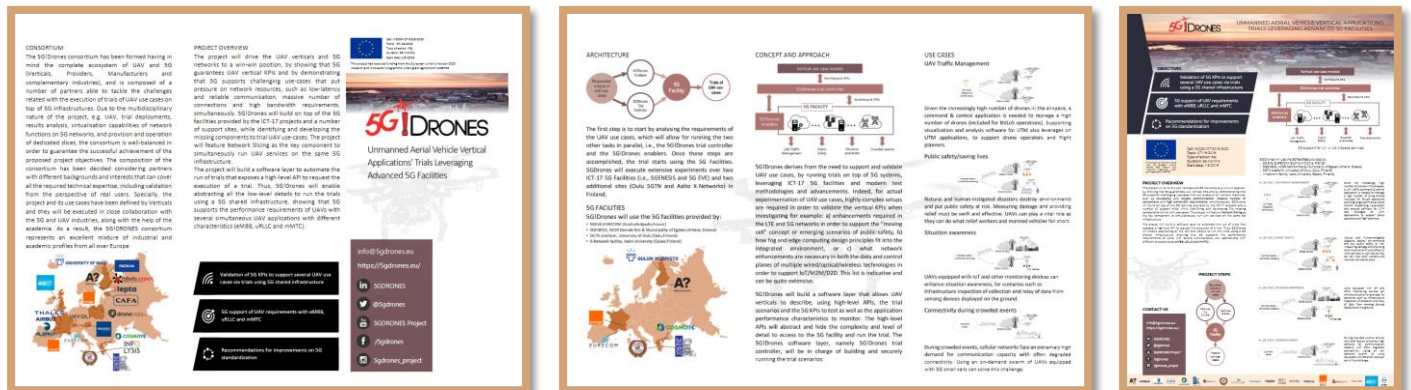
<https://5gdrones.eu/>

Additionally, social media accounts to the most popular social media channels have been created and fully operate since the beginning of the project in order to constantly inform their followers about the latest 5G!Drones news, events as well as dissemination activities that project partners have performed and participated in such as publications, workshops, conferences, presentations and so on.

You are cordially invited to follow 5G!Drones social media channels which are actively running at:

- **Twitter (@5gdrones):** <https://twitter.com/5gdrones>
- **Linkedin (@gdrones):** <https://www.linkedin.com/in/5gdrones/>
- **Facebook (@5gdrones):** <https://www.facebook.com/5GDRONES/>
- **Instagram (@5gdrones_project):** https://www.instagram.com/5gdrones_project/
- **YouTube (@5G DRONES PROJECT):** <https://www.youtube.com/channel/UChPj4gQ5P5go7Fer6NjxGOQ>

Moreover, additional communication means such as leaflets and posters, which provide an overview of the project, its use cases and facilities, have been issued and are used by partners in various events for the project's effective communication and dissemination.



5G!Drones leaflet and poster versions



DISSEMINATION AND COMMUNICATION ACTIVITIES

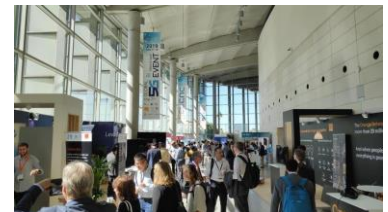
5G!Drones, as part of its dissemination strategy, targets for publications in

- selected and high-impact journals
- magazines on communications/networking
- reputed international vertical-oriented publications
- international conferences
- topic related workshops

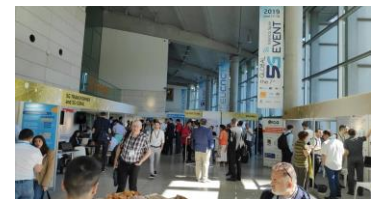
Furthermore, presentations in core conferences and the organization/co-organization of workshops, events and special sessions are already planned as a vital part of the communication and dissemination activities of the project.

5G!Drones, as the time progresses, will also showcase selected use cases and project key components of enabling UAV/5G technologies in industrial and vertical-oriented events. In addition, in order to increase the audience awareness about the project, 5G!Drones will participate with exhibition booths and demos at well known international conferences.

Activities such as publications, participation in conferences and workshops, presentations, demonstrations, poster sessions, press releases and many more will be reported in detail on future newsletter issues and through 5G!Drones social media channels and website.



EuCNC 2019 and 7th 5G Global Event
Valencia, Spain



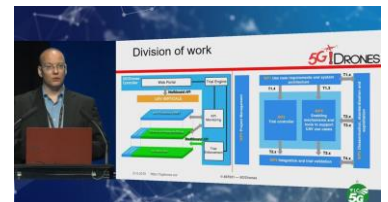
EuCNC 2019 and 7th 5G Global Event
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PRESENTATIONS

EuCNC 2019 and 7TH 5G Global Event 2019 (17-21/6/2019, Valencia, Spain)

Dr. Jussi Haapola (University of Oulu), 5G!Drones project coordinator, presented 5G!Drones and its vertical use cases/requirements at EMPOWER workshop "Empowering Transatlantic Platforms for Advance Wireless Research" on Wednesday 19 June 2019 at EuCNC 2019 in Valencia, Spain.

Dr. Jussi Haapola had also the chance to officially present 5G!Drones at 5GPPP ICT-19 session "Launching of Advanced 5G validation trials across multiple vertical industries and the next steps" at EuCNC 2019 on Friday 21 June 2019 in Valencia, Spain. Watch the video of the presentation at 5G!Drones YouTube channel at: <https://youtu.be/N0bLO3OzX5Y>



Dr. Jussi Haapola at EuCNC 2019



Dr. Jussi Haapola at EuCNC 2019



EuCNC 2019 and 7th 5G Global Event 2019, Valencia, Spain



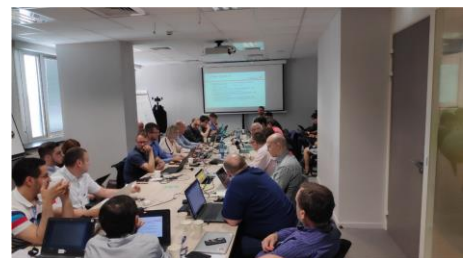
GENERAL ASSEMBLY MEETINGS

The kickoff meeting of 5G!Drones was successfully organized in Thales premises, in Paris, France for 3 days (10-12 of June 2019). All 20 partners met and worked together to set the initial plans and actions. The main scope of this meeting was to discuss about the first phase of the project, its objectives and the upcoming actions that will be taken.



5G!Drones partners at the KoM in Thales premises, Paris, France

The next GA meeting will be hosted by Cosmote in Athens, Greece at 15-17 October 2019.



Communication Channels



<https://5gdrones.eu/>

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 857031

Call: H2020-ICT-2018-2020
Topic: ICT-19-2019
Type of action: R&I
Duration: 36 Months
Start date: 1/6/2019