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Newsletter

Issue 3 - January to June 2022

5GMediaHUB Project Progress

Over the past 6 months 5GMediaHUB has progressed in the development and integration of the 5GMediaHUB components, namely the following ones:

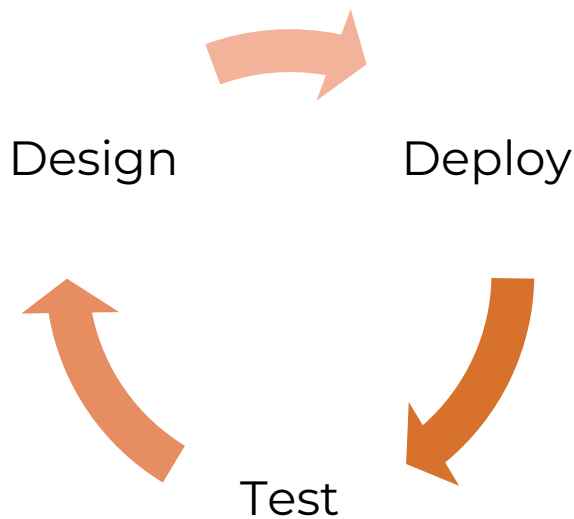
- i) NetApps Repository
- ii) User management module
- iii) Experimenters Portal
- iv) Test Planning and Resource Reservation Engine
- v) Validation Testing and Verification Engine
- vi) Continuous QoS/QoE Monitoring Engine development

The security framework to be deployed on the Experimentation Facility has been defined, as well as the procedures that the external SMEs should follow to test and validate their applications by using the 5GMediaHUB Experimentation Facility. More information on **how SMEs can test their applications for free until the end of the project** is given on **page 2** of the newsletter.

Thus, the project is finishing its second phase, paving the way for the third phase, which includes validation of the operation and performance of the 5GMediaHUB Experimentation Facility through the three use cases demonstrated in the project.

To achieve this, the necessary processes and conditions that have to be taken into consideration to carry out the experimental phase which has been divided into two cycles have been identified. Each cycle comprises three phases: design, deployment and testing.

Consortium



The three phases of the two cycles of the experimental phase

5GMediaHUB call for ideas

5GMediaHUB gives multimedia SMEs the opportunity to use the project's unique 5G-enabled NetApp infrastructure for developing multimedia applications. Third-party experimenters are invited to submit their suggestions and ideas on how to best exploit 5GMediaHUB's results through innovative and business-relevant models.

Find out more [here](#).

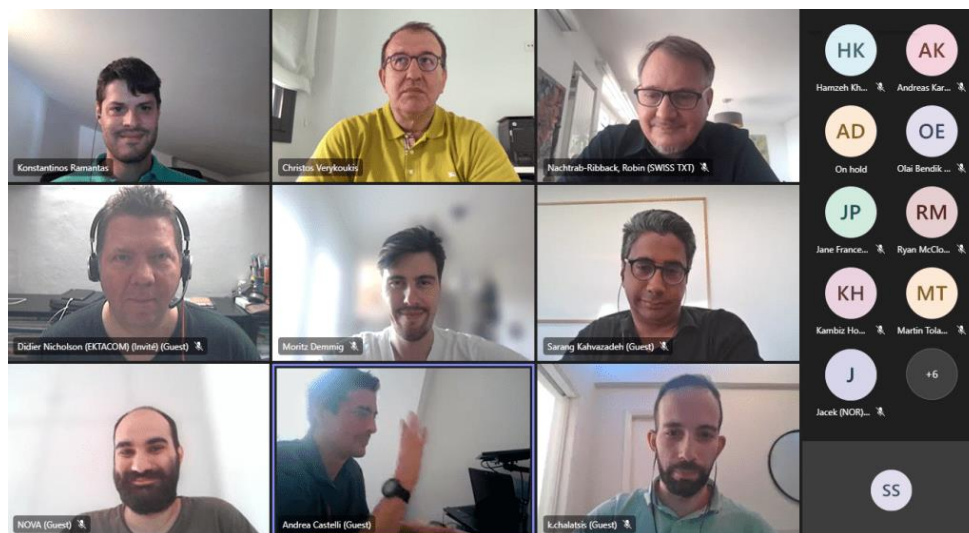
[Apply here to experiment your 5G idea and meet the industrial media partners of 5GMediaHUB.](#)

The SMEs with the best idea will be selected, based on the selection criteria and procedures described in [D6.5 "Information package for external SMEs, 3rd party"](#). Interested parties are requested to read this guide carefully before they start preparing the application.



3rd Plenary Meeting

The third plenary meeting of 5GMediaHUB Project was held virtually on 23 June 2022. Particular emphasis was placed on technical work and more specifically on the integration of the components comprising the 5GMediaHUB Project Experimentation Facility and the initial testing of the whole platform.



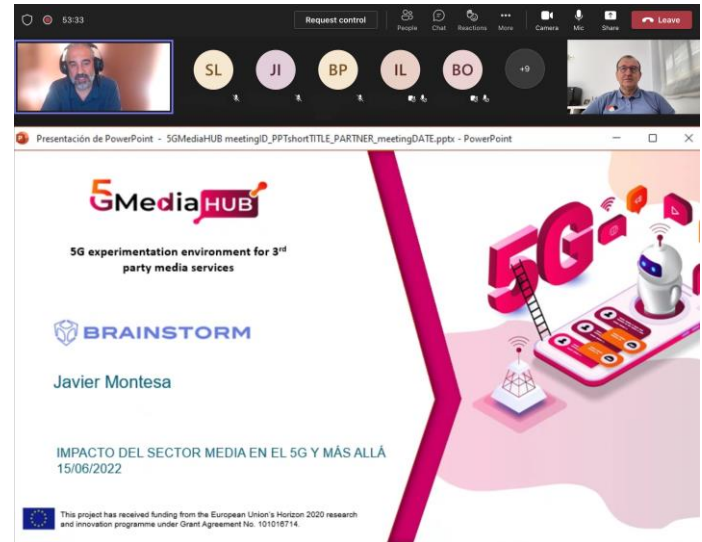
Dissemination and Communication Activities

A. Project presentations



5GMediaHUB participated in the Special Session entitled “NetApps for Verticals” at EuCNC & 6G summit 2022, held 7-10 June 2022. The programme is available at the following [link](#).

The session was focused on discussing how NetApps empower the verticals on-boarding on 5G and reinforce the fact that 5G is a platform and not a pipe. Different actors from diverse vertical domains will share their design and their interaction with the 5G platform owner.

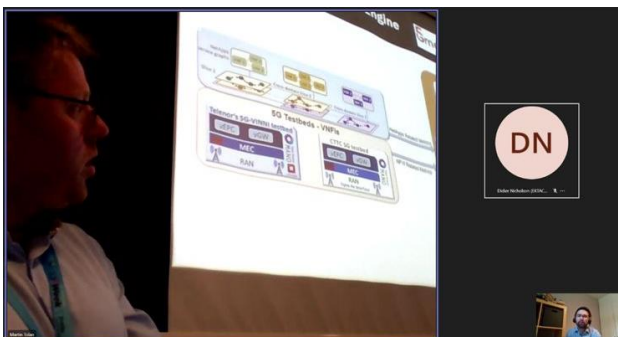


During the webinar titled “Impact of the media sector on 5G and beyond”, organised by AMETIC, an insight into the 5GMediaHUB Experimentation Facility was offered. In addition, the use case scenario that is related to immersive 360° experiences was presented. The event took place on 15 June 2022.

B. Organisation of events

The 1st SMEs workshop “5GMediaHUB Experimentation Environment for 3rd Party media Services” was held on 13 April 2022. During this virtual event, SMEs were informed about how they can use the 5GMediaHUB state-of-the-art infrastructure for developing and testing network applications (NetApps).

The 2nd SMEs workshop titled “**Accelerating the testing of 5G-enabled applications**”, to which an external SME contributed, took place on 22 Wednesday 2022, in conjunction with IoT Week 2022, a conference attracting industry and academia representatives from all over the world. This year IoT Week was held in Dublin, Ireland. During the workshop, speakers provided the audience with the opportunity to gain deeper insight into cutting-edge 5G technology from leading European researchers. This involved a presentation on the advances the project has made in terms of application testing on 5G networks. The material provided the audience with a better understanding of 5G and its potential impact on application performance. An additional goal was to provide the audience with information on how to engage further with the 5GMediaHUB project.



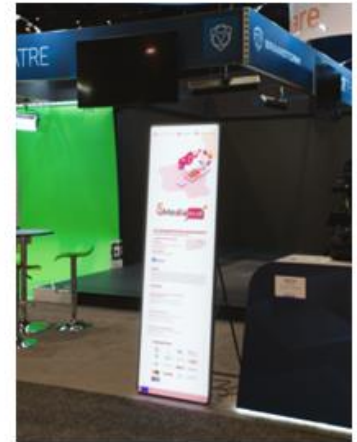
2nd SMEs workshop

C. Presence in industrial conferences

MWC 2022



IoTswc 2022



NAB 2022

5GMediaHUB was disseminated in the following events:

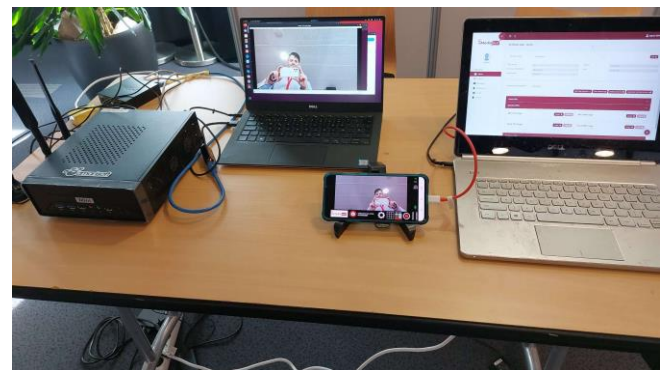
- IoT Solutions World Congress 2022 in Barcelona in January 2022
- Mobile World Congress 2022 in Barcelona in February 22
- NAB 2022 in Las Vegas in April 22
- EuCNC & 6G Summit 2022

Partners provided Information about the project goals and the cutting-edge experimentation solutions for NetApp developers and development companies in the media sector.

D. Demonstration at scientific conferences

5GMediaHUB was present at the IEEE EuCNC22 with a booth to present the technical activities of the project and show a demonstration prepared with Iqudrat, Ektacom, Apart and Centre Tecnològic de Telecomunicacions de Catalunya. This was achieved through a demo setup that included a number of elements such as an Amarisoft 5G gNodeB (gNB) offering the network access, allowing a set of 5G capable smartphones to be connected to a private 5G network and a rendering of the 5GMediaHUB 360 VR Network Application (NetApp), showcasing a remote teacher in a virtual classroom, among others.

The audience had the chance to interact with the 5GMediaHUB NetApps repository and portal application. A lot of people from the media sector visited the booth and showed interest in the project.



Deliverables Submitted January-June 2022

Title	Month	Description
D2.1: Northbound APIs, NetApps and NetApps Repository development - Initial	14	The document aims to facilitate the design and development of NetApps and of the application used to create these NetApps.
D2.3: Experimenters portal & user management development - Initial	14	The purpose of this deliverable is to provide insight into the initial work carried out for the development and module design of the 5GMediaHUB Experimenters Portal and User Management module.
D2.5: Test Planning & Definition Engine development - Initial	15	The description of the architecture of the Test Planning & Definition Engine is provided in this deliverable.
D2.7: Validation Testing & Certification Engine development - Initial	15	In this deliverable the design of the Validation Testing and Verification Engine is described in detail.
D2.9: Continuous QoS/QoE Monitoring Engine development - Initial	15	This document includes details on the design and development of the Quality of Service/Quality of Experience (QoS/E) Engine.
D3.1: Deployment and configuration of the Security Framework - Initial	17	This deliverable includes information on the plan regarding the deployment, configuration and integration of an open-source SDP Software Defined Perimeter (SDP) software stack with the 5GMediaHUB Network Functions Virtualisation (NFV) infrastructure.
D3.3: System components, integration, configuration and testing - Initial	17	The focus of this deliverable is the integration between the components of the Experimentation Facility.
D3.5: Interfacing and configuration of 5GMediaHUB Experimentation Tools and NetApps with 5G testbeds - Initial	18	This deliverable constitutes the initial version of Experimentation Tools and NetApps layer integrated and interconnected with the underlying 5G testbed infrastructure.
D3.9: Dry-run testing and operational readiness of 5GMediaHUB Experimentation Facility - Initial	18	In this document the suitability of OSM as the 5GMediaHUB CDSO, the proposed internal architecture of the OSM-based CDSO and service ordering workflows are described, highlighting the deployment plans and development/integration tasks necessary to support the 5GMediaHUB platform.

Deliverables Submitted January-June 2022

Title	Month	Description
D4.1: Planning, setup and operational management handbook - Initial	17	This deliverable aims to describe the methodologies, processes, conditions and all the relevant details that have to be considered to carry out the experimental phase of the validation activities included in the WP4 of the 5GMediaHUB project
D6.2: Reports on Dissemination & Communication activities - Intermediate	18	This document reports on the dissemination and communication activities for the period M1-M18.
D6.5: Information package for external SMEs, 3rd party NetApps developers and experimenters	17	This deliverable provides information on the call, the online application and the selection procedures for best ideas, identifying the objectives and defining the guidelines, the terms and references.
D6.8: Reports on joint planning activities with the 5G-PPP - Initial	16	The purpose of this document is to define a clustering plan with associated activities to advance the 5G vision, promote the exchange of results, share knowledge and experience as well as best practices for emerging 5G services to different verticals.

All the public deliverables are available on the project website. Have a look at the page [Public Deliverables](#) where you will find the submitted documents. Happy reading!

Publications

- Ojaghi, B., Adelantado, F., Antonopoulos, A., & Verikoukis, C. (2022). Impact of Network Densification on Joint Slicing and Functional Splitting in 5G. *IEEE Communications Magazine*.
- Sarrigiannis, I., Antonopoulos, A., Ramantas, K., Efthymiopoulou, M., Contreras, L. M., & Verikoukis, C. (2022). Cost-aware placement and enhanced lifecycle management of service function chains in a multi-domain 5G architecture. *IEEE Transactions on Network and Service Management*.

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5GMediaHUB in Social Media

Follow us to keep up to date with the project progress!



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[5GMediaHUB Project](#)



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