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Newsletter

Issue 1 - January to June 2021

5GMediaHUB Project Overview

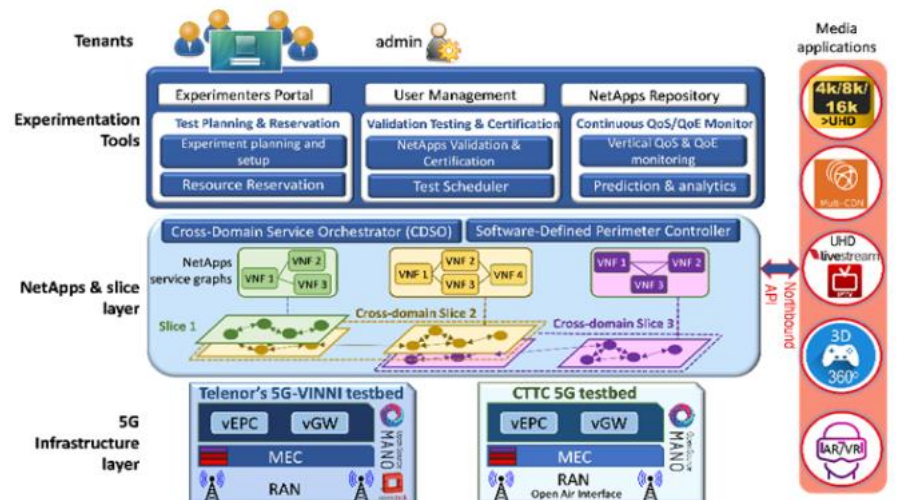
Vision: 5GMediaHUB aims to help EU to achieve the goal of becoming a world leader in 5G, by accelerating the testing and validation of innovative 5G-empowered media applications and Network Applications (NetApps) from 3rd party experimenters and NetApps developers, through an open, integrated and fully featured Experimentation Facility. This will significantly reduce not only the service creation lifecycle, but also the time to market barrier, thus providing such actors that are primarily from SMEs with a competitive advantage against their rivals outside EU.

Objective: 5GMediaHUB will build and operate an elastic, secure and trusted multi-tenant service execution and NetApps development environment based on an open cloud-based architecture and APIs, by developing and integrating a testing and validation system with two existing well-established 5G testbeds (by CTTC and Telenor) for enabling the fast prototyping, testing and validation of novel 5G services and NetApps.

What the project will offer:

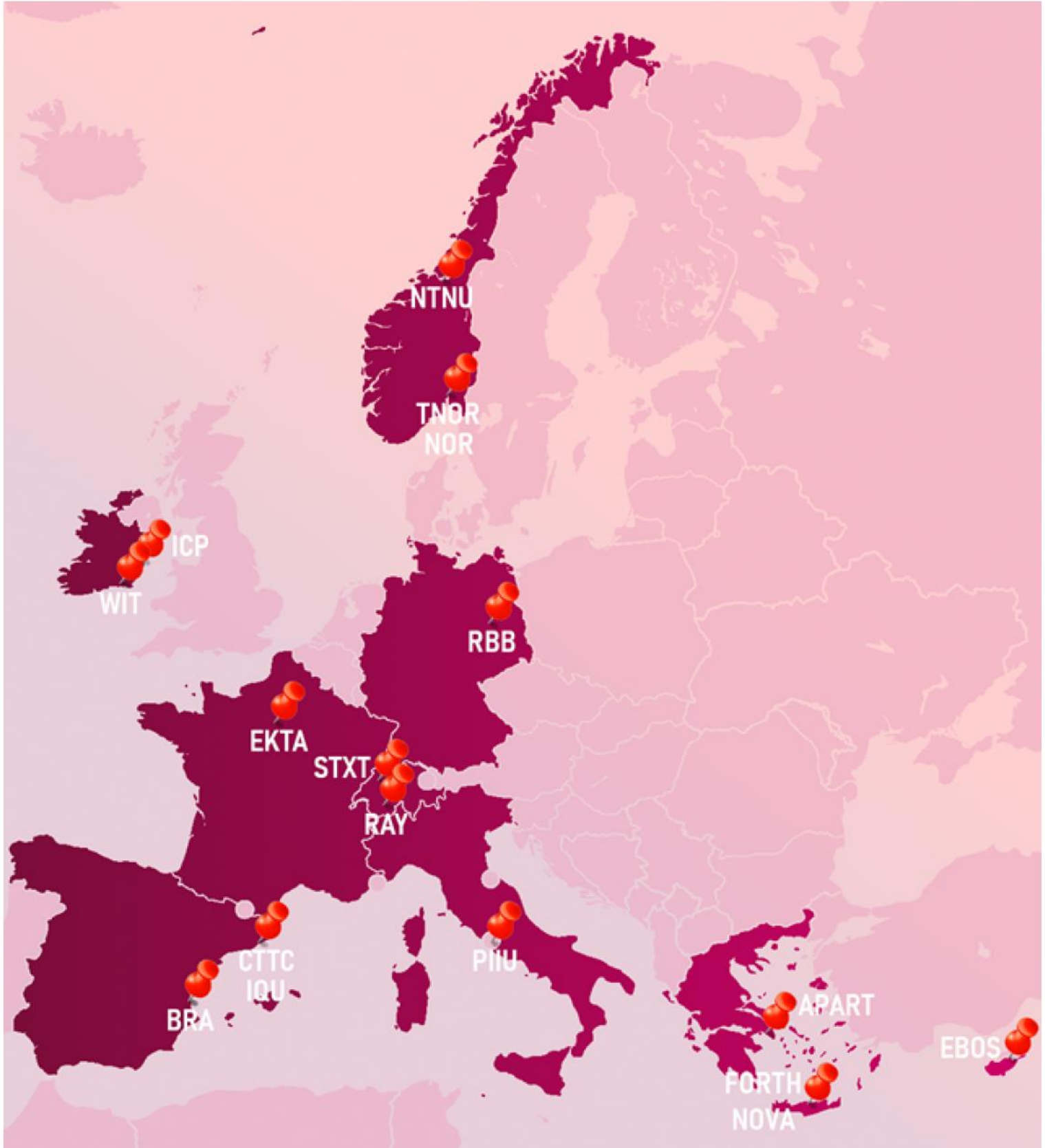
- i. a DevOps environment for Testing as a Service;
- ii. a rich set of Experimentation Tools that offer scheduling, validation, verification, analytics and QoS/QoE monitoring mechanisms;
- iii. a set of re-usable vertical-specific and vertical agnostic NetApps with easy-to-use APIs that can be consumed by application developers, reducing the complexity and risk of integrations and operations;
- iv. a re-usable open-source NetApps Repository, where vertical-specific media NetApps and vertical-agnostic NetApps will be hosted;
- v. an umbrella cross-domain service orchestrator to deliver cross-domain orchestration of NetApps;
- vi. an innovative security framework offering software defined perimeter protection and isolation of NetApps;
- vii. incremental validation capabilities of the Experimental Facility evidenced through 3 novel media use cases with 2 scenarios each, over 3GPP R.16 and R.17 5G testbed releases.

Consortium



5GMediaHUB Consortium

Our 17-partner consortium from 9 countries has extremely rich 5G PPP experience, since 13 partners have participated in previous 5G PPP projects and in several 5G PPP working groups. However, the partners who have not participated in 5G PPP projects before are indispensable because their knowledge is invaluable for the realisation of the objectives set by the project. The consortium consists of three main groups: i) technology partners and 5G infrastructure providers (CTTC, IQU, APART, WIT, EBOS, FORTH, NTNU, TNOR); ii) media vertical partners (BRA, NOVA, STXT, EKTA, RBB, RAY and NOR); and iii) commercialisation and innovation partners (PIIU and ICP). The consortium partners complement each other in terms of skills and expertise and there is little overlap.



1st Plenary Meeting

On the 28th and 29th June 2021, 5GMediaHUB held its 1st plenary meeting. The 2-day virtual plenary meeting was hosted by the project coordinator, the Telecommunications Technological Centre of Catalonia's (CTTC) SMARTECH department, while representatives from 17 organisations from 9 European countries attended it.

The aim of the project meeting was to discuss the progress made so far, as well as the next steps to be taken. Fruitful discussions by the partners revolved around the architecture of the 5GMediaHUB Experimentation Facility, the experimentation tools and NetApps implementation, as well as the innovation potential of the project.



Dissemination and Communication Activities

During the first months of the project, 5GMediaHUB partners put an emphasis on planning details regarding the technical activities of the project. However, the proper time was devoted to dissemination and communication activities as well, acknowledging the fact that making people aware of the project is of vital importance since the project's results will affect a variety of groups, including non-technical communities.

A. Exhibition

5GMediaHUB was present at the 2021 Mobile World Congress (MWC) with a dedicated booth. The event took place from June 28th to July 1st 2021 in Barcelona. MWC, an annual trade show organised by GSMA, is considered the most important event in the mobile communications industry so it is the perfect opportunity for a company to be informed about the latest technology trends, network and reach out to influential people in the industry.

B. Press releases

One of 5GMediaHUB's goals is to pursue timely and thorough communication with media and interested stakeholders regarding project major announcements, achievements and general details about project activities. In pursuit of this goal, the project has already published three press releases, with the aim to inform the broad public about the kick-off of the project activities. The press releases include information about the main objective of 5GMediaHUB, how its results will improve the competitiveness of SMEs and the organisations that comprise the consortium. You can find all our past and future press releases [here](#).



C. Interview of the Project Coordinator in TM Broadcast International

Christos Verikoukis, the Project Coordinator, gave an interview to the TM Broadcast International Magazine where he talked about a variety of topics, including what services the project will offer, how 5G will affect people's lives and which professional sectors will benefit the most from this technology, to name but a few. You can read the interview [here](#).

D. 5G PPP Publications



European Annual Journal Brochure

The sixth issue of the European 5G Annual Journal was released at the end of May 2021. In this issue you can read about 5GMediaHUB's concept, key innovation features and use cases. You can read the journal [here](#).

5G PPP Projects Phase 3 Brochure

The 5G PPP Projects Phase 3 Brochure was published at the beginning of June 2021. The brochure contains information regarding 50 5G PPP projects which work towards 5G adoption by vertical industries. 5GMediaHUB is featured in the brochure, where its objectives, possible challenges, and expected impact are presented briefly but informatively. You can access the brochure [here](#).



Project Factsheet



5G PPP  www.5gmediahub.eu

5G EXPERIMENTATION ENVIRONMENT FOR 3RD PARTY MEDIA SERVICES

5GMediaHUB will enable the testing and validation of innovative 5G-empowered media applications and NetApps from 3rd party experimenters and NetApps developers, through an open, integrated and fully featured Experimentation Facility. 5GMediaHUB will build and operate an elastic, secure and trusted multi-tenant service execution and NetApps development environment based on an open cloud-based architecture and APIs, by developing and integrating a testing and validation system over two existing 5G testbeds located in Barcelona and Oslo.



Project Start: 01/01/2021
EC Budget: € 6 037 942,38
Instrument: ICT-4I-2020
Duration: 36 Months
Partners: 17

OBJECTIVES

- 01 Leverage, extend and/or develop realistic and innovative use case scenarios in the media domain.
- 02 Implement a rich set of Experimentation Tools for automating scheduling, testing, verification, validation and optimisation of 3rd party media applications.
- 03 Implement a set of NetApps with corresponding Northbound APIs to interact and seamlessly integrate with the 3rd party vertical media applications.
- 04 Provide a Cross-Domain Service Orchestrator that automates service and slice management across the 5G testbed facilities.
- 05 Provide a comprehensive Security Framework for the Experimentation Facility.
- 06 Integrate two well-established 5G testbeds, the Experimentation Tools, the NetApps, the Northbound APIs and the CDSO to establish the 5GMediaHUB Experimentation Facility.
- 07 Demonstrate the potential and the user value of the 5GMediaHUB Experimentation Facility through relevant use cases.
- 08 Enable new business opportunities and accelerate NFV-based service uptake in industry.
- 09 Identify and validate applicable standards and provide rationalised contribution to key standardisation bodies.
- 10 Accelerate the adoption of the 5GMediaHUB Experimentation Facility through wide dissemination means, open-source communities and relevant initiatives

USE CASES

Use Case 1

Immersive Augmented, Virtual and Extended Reality applications

Scenario A Immersive 360o VR media experiences

Scenario B: Interactive consumption of 8k and VR media content

Use Case 2

Smart media production

Scenario A: High quality User Generated Content (UGC) uploading in dense uploading scenarios

Scenario B: Professional live video production

Use Case 3

Smart media content distribution

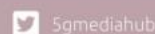
Scenario A: Dynamic multi-CDN (multi Content Delivery Network) selection for 8k IPTV

Scenario B: Smart city co-creation

CONSORTIUM



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under grant agreement No 101016714



5gmediahub



5gmediahub-project

Deliverables Submitted January–June 2021

Title	Month	Description
D6.1: Dissemination and communication activities	1	The deliverable describes the strategy and plan which must be followed by all consortium partners in order to ensure that the project and its results achieve high visibility.
D6.3: Project website and social media presence	5	The deliverable provides a detailed description and analysis of the project's website and social media accounts which can be considered as the online Project presence.
D7.8: Reports on legal, ethics and gender balance monitoring D8.1: H-Requirement No.1	3	D7.8 has been merged with D8.1. This document provides the reader with an initial report on 5GMediaHUB project activities around legal and ethics and its implementation in technical work, including the Research Ethics Protocol.

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!

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Grant Agreement:
No. 101016714

Project Duration:
01.01.2021 – 31.12.2023

5GMediaHUB in Social Media

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

 [@5gmediahub](https://twitter.com/5gmediahub)

 [5GMediaHUB Project](https://www.linkedin.com/company/5gmediahub/)

 <https://www.5gmediahub.eu/>

