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5TONIC Laboratory awarded key roles in €50m EU sponsored 5G programme

Will be a focus for three projects aimed to smooth vertical market uptake of 5G innovation

The 5TONIC 5G co-creation laboratory in Madrid, together with some of its member companies, has been awarded a vital role in three high-profile EU-sponsored 5G development projects. The awards cement the laboratory's position as one of Europe's foremost 5G digital innovation centers.

The three projects are designed to help innovate and test 5G vertical market applications and services in the end-to-end environment that is a key feature of the 5TONIC facility. The projects will run for three years and were selected by the EU from a total of 16 proposals it received from facilities all over Europe.

Announcing 5TONIC's role in the three chosen projects, David Del Val, Chairman 5TONIC and CEO Telefónica R&D, said: "To be chosen to participate in these EU vertical market 5G trials is complete vindication of the approach we took when establishing the 5TONIC facility.

"We recognised that the mobile community and academia partners would need to come together to work with industry sectors on 5G projects to test, develop and prove the potential use cases in a controlled environment. To now be selected as one of the key centers to drive these important EU projects forward shows that we are doing the right things and taking the right approach."

The 5TONIC laboratory will be a center for the 5G EVE, 5G-VINNI and 5GENESIS projects, which form part of the EU's Horizon 2020 programme. Together they comprise a three-part €50m initiative driven by the Commission's 5G PPP organisation, and will also attract an investment commitment by the ICT industry of several times that amount.

The three chosen projects are:

5G EVE (European Validation platform for Extensive trials) aims to create the foundations for the roll-out of end-to-end 5G networks in Europe. 5G-EVE supports this transition by offering to vertical industries, and to all 5G PPP Phase 3 projects, facilities to validate their network KPIs and their services.

For more see - <https://5G-PPP.eu/5g-eve/>

5G-VINNI (5G Verticals INNOvation Infrastructure) looks to accelerate the uptake of 5G in Europe by providing an end-to-end (E2E) facility that validates the performance of new 5G technologies by operating trials of advanced vertical sector services.

For more see - <https://5G-PPP.eu/5g-vinni/>

5GGENESIS (5th Generation End-to-end Network, Experimentation, System Integration, and Showcasing) will create an integrated end-to-end 5G facility where 5G network KPIs for various 5G

use cases can be validated and brought together with a view towards their integration in one united full-stack, end-to-end 5G platform.

For more see - <https://5G-PPP.eu/5genesis/>

The 5TONIC facility was co-founded by Telefónica and IMDEA Networks Institute. Both of the co-founders will be closely involved with the new projects, working alongside other 5TONIC member companies including Ericsson and UC3M. Telefónica is the only European Telco that is participating in all three EU projects. Ericsson is also involved in all three, while UC3M is the only European university that is taking part in two of the three project

ABOUT 5TONIC

5TONIC was initiated by Telefónica and IMDEA Networks Institute with a clear vision to create an open research and innovation ecosystem laboratory in which industry and academia come together to boost technology and business innovative ventures. The laboratory promotes joint project development, joint entrepreneurial ventures, discussion fora, events and conference sites, all in an international environment of the highest impact. 5TONIC serves to show the capabilities and interoperation of pre-commercial 5G equipment, services and applications, by leading global companies in the 5G arena.

The full list of member companies now participating in the 5TONIC 5G service development and testing project are its two co-founders Telefónica and IMDEA Networks Institute; and a further eight member companies: Ericsson, Intel, Commscope, Madrid's Carlos III University, Cohere Technologies, InterDigital, Altran, and Red Hat.

For more see - <https://www.5tonic.org/>

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About Us

IMDEA Networks Institute is a **research organization on computer and communication networks** whose multinational team is engaged in cutting-edge fundamental science and technology. As a growing, English-speaking institute located in Madrid, Spain, IMDEA Networks offers a unique opportunity for pioneering scientists to develop their ideas. IMDEA Networks has established itself internationally at the forefront in the **development of future network principles and technologies**. Our **team** of highly-reputed researchers is designing and creating today the networks of tomorrow.

***Some keywords that define us:** 5G, Big Data, blockchains and distributed ledgers, cloud computing, content-delivery networks, data analytics, energy-efficient networks, fog and edge computing, indoor positioning, Internet of Things (IoT), machine learning, millimeter-wave communication, mobile computing, network economics, network measurements, network security, networked systems, network protocols and algorithms, network virtualization (software defined networks - SDN and network function virtualization - NFV), privacy, social networks, underwater networks, vehicular networks, wireless networks and more...*

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