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## **IMDEA Networks joins European 5G scientific delegation to Brazil**

Professor Arturo Azcorra, Chairman of the Expert Advisory Group of the [NetWorld2020](#) European Technology Platform and Vice chairman of the [5TONIC](#) Lab, has been invited by the European Commission (EC) to join a European 5G scientific delegation to Brazil. Experts from both sides of the ocean meet this week to discuss the present and approaching future of 5G, the ultrafast mobile broadband technology that promises to become the most remarkable communications phenomenon of the decade.

This high level mission is composed of EC officials, distinguished scientists and leading European companies in the area of 5G research and innovation. From September 18<sup>th</sup> to the 23<sup>rd</sup> the delegation will meet with counterparts from the Brazilian government, top 5G researchers and ICT companies operating in Brazil. The mission will start in Sao Paulo (University of Sao Paulo), to continue via Campinas (CPqD) and Santa Rita do Sapucaí (INATEL) and conclude in Brasilia (Brazilian government and Correios University). Professor Azcorra will be presenting seminal research produced at 5TONIC, one of the most important pan-European testbeds, the Madrid-based research institute [IMDEA Networks](#) and the [University Carlos III of Madrid](#). He will also be introducing the latest findings on fronthaul-backhaul integration arising from the ongoing EU project 5G-Crosshaul, which he coordinates. This project is one of the foremost research initiatives within the [5G PPP](#) action, which is the EC's most ambitious initiative in advanced telecommunications research

IMDEA Networks has adopted a leading role in the development of 5G technologies such as mmWave communications, Network Function Virtualization and Software Defined 5G Networks. It is a founding member of the 5TONIC Lab, which it hosts in its headquarters, and is currently involved in various advanced 5G research projects: the ERC Consolidator Grant [SEARCHLIGHT](#), the EU H2020 projects [mmMAGIC](#), [MONROE](#) and [Flex5Gware](#), one national initiative [HyperAdapt](#) and another within the scope of the Madrid region, [TIGRE5-CM](#). IMDEA Networks is thus making its mark in the design of next-generation advanced communication systems "made in Europe". As the Institute's Director, Azcorra's preeminent role in European decision-making bodies in the 5G arena constitutes a well-aimed instrument to attune the Institute's work to the beating heart of the global 5G research community.

**Source(s):** IMDEA Networks Institute

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**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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