Madrid, Spain, February 28, 2018

Research Directions for 5G and Beyond Testbeds

With current wireless data networks in the "fourth generation" or 4G, key players in the ICT sector are already paving the way for **5G** wireless data networks and *beyond technologies*. At Mobile World Congress (MWC) in Barcelona this week we are witnessing examples of how current investment into this next generation networks has spread across research initiatives worldwide.

The 5G innovation laboratory 5TONIC (Madrid, Spain) is the first open co-creation testbed that was set up in Europe, back in 2015, to enable an international array of companies, universities and research institutions to test, demo, trial and prototype advanced wireless network systems on the basis of open and flexible research collaboration.

At MWC 2018, wireless research and development company InterDigital (United States), an early member of the 5TONIC testbed, has organized various activities, from demonstrations to interviews and panels, showcasing this collaborative approach to the 5G challenge.

"The promise of 5G networks to give us access to almost unlimited communications, data and computation services in real time, poses an enormous technological challenge as its impact will be felt across the board, well beyond the ICT sector. It is necessary to work on multiple spheres and new directions, and collaboration is key to solve problems that are more complex than any one team or organization can handle", has stated Arturo Azcorra, Director of IMDEA Networks, Professor at University Carlos III of Madrid and Vice-president of 5TONIC. "At 5TONIC we are searching for non-proprietary solutions to challenges as varied as autonomous vehicle communications, network virtualization, future Internet architectures, software-defined networks, the Internet-of-Things, communication in millimeter wave frequencies or augmented reality."

Azcorra represented 5TONIC at the MWC Panel "5G Testbeds – Research Directions for 5G and Beyond", hosted by InterDigital on February 28th). The panel moderator was Douglas Castor, Senior Director at InterDigital and the rest of panelists were Monique Calisti, Managing Director of Martel Innovate (Switzerland), John Kaewell, Senior Director, CTO office (InterDigital) and Howard Tsao, Technical Director at ITRI (Taiwan).

Video of the panel 'MWC18: Research Directions for 5G (and Beyond) Testbeds', organized by InterDigital.

Source(s): IMDEA Networks Institute; 5TONIC
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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...*