



## 5G Monitor<sup>1</sup>: SPAIN

By Luis Ignacio Vicente. March 15, 2017



## 5TONIC: 5G open R&I laboratory and ecosystem

One of the highlighted initiatives in Spain is STONIC, an open research and innovation laboratory and ecosystem focusing on 5G technologies. STONIC started its activity in November 2015, with Telefonica and IMDEA Networks Institute as founding members, and including today key actors in 5G as Ericsson, Intel, Commscope, University Carlos III of Madrid, Cohere Technologies and Artesym Embedded Technologies.

The Spanish Administration, through the Secretary of State for the Information Society and the Digital Agenda, recognizes the value of this private initiative and both share the objective of making Spain a reference in 5G technologies. Key 5TONIC members and the Ministry, together with other institutions, have signed an agreement to boost 5G technologies in Spain.

5TONIC is strongly aligned with the Advanced 5G Network Infrastructure for Future Internet Public-Private Partnership (5G PPP) within the Horizon 2020 program and also focus on boosting the entrepreneurial environment around 5G by means of its open innovation laboratory concept and specific actions as the first 5G startup competition launched in October 2016.

Considering the academical actitivities related with 5G:

- 5TONIC is performing advanced collaborative research in the area of NFV/SDN
  - In connection with European initiatives within the H2020 framework
- 5TONIC is hosting open-source and standard bodies events
  - The ONF demo of micro-wave link SDN-based control
  - The ETSI Open Source Mano project meeting
  - The First ETSI NFV Plugtest
  - Conversations with the Open Daylight project for a performance evaluation

<sup>&</sup>lt;sup>1</sup> 5G Monitor is an edition of ceFIMS-CONNECT Monitor contributed from a project or initiative with special interest in the 5th generation mobile networks





- 5TONIC is launching leading educational events
  - First Master Program on NFV/SDN technologies
- 5TONIC is one of the main testbeds for the 5G PPP belonging to the H2020 program
  - Base for several proposals for 5G demonstrators in Europe and beyond
  - With a key role at the 5G Strategy promoted by European Commission

Also 5TONIC is promoting trials with verticals industries in order to test the features more interesting for the future customer of new networks.

More info:

https://www.5tonic.org/



## Luis Ignacio Vicente. Return on Innovation Manager. Telefonica

PhD in Physics, Industrial Engineer, Graduate in Innovation Management, Graduate in Economy of Telecommunications, Master in Analysis and Management of Science and Technology. Graduate in European Communities. Working 27 years ago in Telefonica on activities related with Innovation and Industrial Property. He is teacher at Master of Data Science of Universidad Politecnica of Madrid, Member of the Advisory Board of the Universidad Carlos 3rd of Madrid, Member of the Board of Telefónica R&D Chile, and VP of LES (Licensing Executives Society) Spain and Portugal. Collaborator of European Commission, OECD, GSMA, United Nations and other international organizations.

ceFIMS-CONNECT (<u>www.cefims.eu</u>) is a project funded by the European Commission within Netfutures Directorate (E), Experimental Platforms Unit (E4) .

The ceFIMS-CONNECT Monitor is an ongoing tool for Member States and Associated Countries to publish and share their national best practices, success stories and developments in the area of Future Internet and 5G, as well for European initiatives to share their news with national stakeholders, on a regular basis.

If you would like to publish an item via the ceFIMS-CONNECT Monitor, please email to the contacts below:

ceFIMS-CONNECT Project Coordinator: James Clarke: jclarke (at) tssg (dot) org ceFIMS-CONNECT Dissemination Coordinator: Alicja Laskowska: alicja (at) man (dot) Poznan (dot) pl