



The 5TONIC co-creation laboratory was launched in 2015 to provide an open environment where members from services, users and SMEs can collaborate with the telecom community on specific 5G mobile research and innovation projects.

The aim is to support innovation and help organizations work together to develop and deliver market-ready 5G solutions, technology applications and business ventures.

Based in Madrid, the laboratory promotes joint project development, entrepreneurial ventures, discussion fora, events and conferences with focus on 5G mobile technology.

5TONIC has participated in more than 30 projects with more than 50 companies, and awarded as a Digital Innovation Hub from the European Commission.

A research, innovation and co-creation laboratory looking at innovation solutions for the development and adoption of 5G/6G technologies across different industries.

The lab has been chosen by the 3 major pan-European projects funded by the European Union in the call ICT-17 “5G End to End Facility”.

Founder Members



Members



Collaborators





Test of new technologies that may be part of the **5G ecosystem**:

- 5TONIC deployed member company CommScope's OneCell technology within the laboratory to mimic 5G networks.
- Automated deployment of an Internet protocol telephony service on unmanned aerial vehicles using network functions virtualization.
- One of the first deployment of the new 5G Core solution, enabling "stand-alone" access from the 5G New Radio access. It facilitates support for new use cases, as well as the use of "network slicing" that allows to customize 5G network capabilities to the needs of users. The onboarding of a network slice, from core to radio, was configured and deployed in a few minutes using advanced automation mechanisms.



5TONIC

- Telefónica and Ericsson have demonstrated pioneering end-to-end, automated network slicing in 5G Standalone mode, including Dynamic Radio Resource Partitioning, achieving, in a first phase, full automated end-to-end network slicing based on 5G SA.
- It showed the end-to-end orchestration for full slicing life cycle support and radio resources partitioning, offering a key differential user experience to customers, based on network slice selection mechanisms from the handset.
- 5TONIC created, together with University Carlos III of Madrid, the world's first Master's degree in NFV / SDN for 5G networks, sponsored by Ericsson.

INDUSTRY 4.0
HEALTH
GAMING
TRANSPORT
MEDIA
TOURISM

TEN REASONS TO WORK WITH THE 5TONIC CO-CREATION LABORATORY

- **Be part of a rich open ecosystem**
5TONIC is a place to develop and test new products and services.
- **It's the perfect place to showcase solutions to or with your customers**
The laboratory can host pre-commercial trials across many vertical markets.
- **We support entrepreneurial ideas**
Work with experts to develop your ideas and figure out your business model.
- **We are an inter-operability test center**
At 5TONIC we can test your solution works with other products.
- **We provide end-to-end solutions testing**
We measure impact on capacity, solution stability, performance and interoperability.
- **We offer access to a superb academic environment**
Joint research, sponsored PhDs, Internships and training facilities are available through 5TONIC.
- **We promote and support technology trends**
Through white papers, research reports, workshops and webinars we support innovative thinking.
- **We are an H2020 testbed**
The 5TONIC laboratory will be used to develop and demonstrate H2020 testbed projects.
- **We are a 5G technology exchange center**
5TONIC is a confidential meeting point for the exchange of 5G technology innovations.
- **We are recognized by the European Commission**
5TONIC participates in the three largest EU funded testbeds 5G-EVE, 5G-VINNI and 5Genesis.