

Quantum technologies consolidate their presence at the Mobile World Congress 2025

In celebration of the International Year of Quantum Science and Technologies (IYQ), the European Quantum Flagship returns to the Mobile World Congress (MWC25) with i¿½Quantum Europei¿½ (Hall 6 Stand 6A8), a stand aimed at showcasing the most recent disruptive advances in quantum technologies in the areas of c onnectivity, cybersecurity, computing, AI and telecommunications, among others.

The worldwide congress, held from March 3-6 in Barcelona, will be once more an outstanding opportunity for the European Quantum Flagship and other EU and local quantum initiatives to show some of their most mature technology and cutting- edge innovations, connect with the global audience, and show the current status of integration of this technology within the current market as well as seek for potential new users.

February 24, 2025

Barcelona, February 24, 2025: This year, MWC25 will host the **Quantum Europe** stand. Curated by ICFO and located in **Hall 6 - Stand 6A8**, the stand will feature the latest achievements and advances accomplished so far by some of the companies and initiatives that comprise the Quantum Flagship. Quantum devices and technologies that cover areas such as quantum-encrypted ultra-safe communications on the ground and in space, the future quantum internet, quantum simulation and computing, will be showcased by the different entities at the stand to provide an overview of the current status of maturity of these technologies to the MWC audience that is interested in cybersecurity, telecommunications, artificial intelligence, connectivity, finance, healthcare, reliability and agility in secure communications, among others.
Arranged in an area of 100m2, the space holds different areas: ?

The **Quantum Flagship stand:** honoring the International Year of Quantum Science and Technology 2025, the flagship will provide an overall view of the initiative, the international context and Europe's position, its current initiatives, as well as highlight the importance of these technologies and their future impact on society.
Companies: in quantum communications, the companies **LuxQuanta**; **Qoolnet**; **QUBO**; **Quside**; **Welinq** and **ThinkQuantum**, will share the latest technology advances in quantum communications: **Quantum Random Number Generator (QRNGs) devices, QKD devices, quantum cryptography systems, key management software, quantum memories and repeaters**, among others. In quantum computing, **IQM** **Qilimanjaro**, **Qcentroid**, **and** **Delft Circuits** will be present providing **software and hardware solutions for quantum computing and simulation**, additionally providing a **real example of a quantum computer mock-up** on the exhibitor floor.
Exhibition of devices and technology: A full set of quantum computer chips, microchips, photonic chips, quantum communication racks and quantum computer mock-ups will be on display in an entire exhibition area for the audience to grasp the idea of what quantum technologies are, how they can be integrated in current technologies and how they can provide a significant jump or even become a game changer in technology development.
Product releases: the companies **LuxQuanta** and **Quside** will make product announcements. **LuxQuanta** will announce the release of a new product for quantum communications and cybersecurity, in accordance to the latest news published recently regarding the viability of Quantum-Safe security of communications between healthcare centres in Madrid, together with the operator Telefonica. **Quside** will also announce the release of a new product concerning the Quantum Random Number Generator Technology. The announcements will be on Wednesday starting at 11 am in the Quantum Europe stand.
European Initiatives: several initiatives will be present at the Quantum Europe stand: the

Quantum Internet Alliance (QIA) -quantum Internet-; **Quantum Secure Network Partnership** (QSNP) - Quantum Key Distribution technology-; the Programmable atomic Large-Scale Quantum Simulation 2.1 (Pasquans) - quantum simulation -; EuroQCI-Spain focused on the deployment of QKD technology in telecommunication networks; the pilot line in photonic chips **PIXEurope** and the **Plan Complementario de Comunicaciones Cuanticas**, among others.

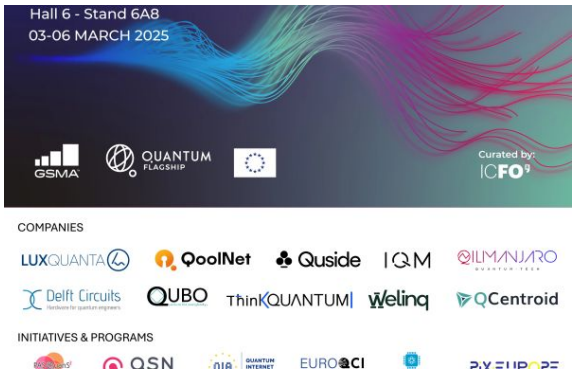
Quantum talks: the stand will once again host a stage where exhibitors will present the latest advances in quantum technologies to underline the leading position of Europe in this area. This year quantum talks will take place **at 11:00h** and **15:00h.** The **program agenda** may be found attached below.

The Quantum Europe stand at MWC25 is just a small sample of the technology that is being developed within the Flagship, but a clear indicator of how Europe is seeking to drive quantum technologies into the market and industry and position itself as a leader in this field. With the launch of the International Year of Quantum Science and Technology 2025, recognized by UNESCO, the world is increasingly aware of the importance of these technologies and is exploring new ways to push boundaries-developing innovations that can revolutionize communication, information processing, and human interaction while enhancing daily life, all with a focus on sustainability for both society and the planet.

About Quantum Technologies in Europe

The Quantum Flagship is a 10-year initiative funded by the European Commission that was launched in October 2018 to accelerate the development of quantum technologies and their transition to the market. The Flagship is currently in its second phase, coordinating 7 large Framework Agreements (FPA) in **Quantum Communications, Simulation, Computing, Testing and Pilot** programs, comprising many leading academic and industrial partners from across Europe to collaborate on the future of quantum technology.

The goal is to consolidate and expand European scientific leadership and excellence in this research area, to make Europe a dynamic and attractive region for innovative research, business and investments in this field. More recently, Quantum Technologies has expanded to other European actions, e.g. within the Digital Europe Program (DEP), the European Innovation Council (EIC), and the forthcoming Chips Act. Quantum technologies are also supported by actions at the national level, under the form of various National Quantum Initiatives.


Hall 6 - Stand 6A8
03-06 MARCH 2025
GSMA
QUANTUM FLAGSHIP
Curated by:
ICFO
COMPANIES
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