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NOTE

From:	General Secretariat of the Council
To:	Delegations
Subject:	AOB for the meeting of the Transport, Telecommunications and Energy Council on 6 June 2025 : Spain's Quantum Technologies Strategy (2025-2030) - Information from Spain

Quantum technologies will transform our understanding of the world and our capacity to face the great challenges of the 21st century. Challenges for which Europe must be prepared and for which Spain has transformative proposals. The **Spain's Quantum Technologies Strategy (2025-2030)** represents a determined commitment by our country to position itself as a relevant actor in the quantum revolution. Jointly developed by the Ministry for Digital Transformation and Civil Service and the Ministry of Science, Innovation and Universities, this strategy emerges from collaborative work with various ministries, universities, research centers, Autonomous Communities, local entities, and the private sector.

The strategy is structured around **four fundamental strategic objectives**. First, it seeks to strengthen research and R&D+I to promote knowledge transfer and facilitate research reaching the market. Second, it proposes fostering a Spanish quantum market that promotes company creation and access to financing. The third objective consists of preparing society for a disruptive change, especially through post-quantum encryption and digital privacy. Finally, it aims to consolidate the Spanish quantum ecosystem with a cohesive national vision that takes advantage of European and international opportunities.

To achieve these objectives, the strategy establishes **seven priority areas of action**. Highlighted are the promotion of Spanish companies in quantum technologies, advancement in algorithms and technological convergence between AI and quantum, positioning Spain as a reference in quantum communications, and demonstrating the impact of quantum sensing and metrology. Special attention is also given to reinforcing privacy and confidentiality in the post-quantum world, strengthening capabilities in infrastructure, research and talent, and promoting a solid and coordinated Spanish quantum ecosystem that is a leader in the EU.

Spain starts from a solid position in the development of quantum technologies, with significant investments in this field made since 2020. The budget for the development of this strategy is estimated in of **808 million euros** approximately. This amount has the potential to attract investments up to 1,500 million euros, helping spin-offs to enter the market, quantum startups to acquire funds, and to demonstrate with use cases how quantum technologies can help achieve a more productive and efficient economy, while reducing potential risks in society.

Alignment with European initiatives

The Spanish Quantum Technologies Strategy has been developed in close coordination with the technical work at the European Commission level in the field of quantum technologies. Throughout the development process, Spain has actively participated in the working groups preparing the future EU Quantum Strategy and has incorporated guidelines from the European Declaration on Quantum Technologies and other community initiatives.

This alignment reflects Spain's commitment to contributing to a cohesive European approach, avoiding the fragmentation of efforts.