



QUANTERA

DECADE OF IMPACT 2016-2026

QuantERA Contribution to the Call for Evidence for Single Basic Act for Joint Undertakings



This contribution is submitted on behalf of the QuantERA Consortium, the European network supporting transnational research and innovation in quantum technologies. QuantERA brings together national and regional research funding organisations from across Europe and beyond to coordinate joint calls for transnational projects. QuantERA contributes to advancing quantum science and technology while supporting the development of a competitive and resilient European quantum landscape. The Consortium welcomes the opportunity to provide the following contribution.

QuantERA's role

QuantERA is Europe's largest and most established transnational network for quantum research funding, uniting more than 40 Research Funding Organisations from over 30 countries in Europe and beyond. Since 2016, QuantERA has funded 140 projects involving 740 research teams with investments exceeding EUR 170 million, while ensuring strong participation from Widening Countries and alignment with European quantum priorities. It has played a central role in **pooling and coordinating national funding sources, providing an inflow of fresh ideas into the quantum technology ecosystem** and leveraging long-term competitiveness of the European economy. Its experience demonstrates how national ownership can be effectively combined with European coordination, providing valuable lessons for the future architecture of European partnerships.

A Strategic Governance Framework for Quantum Europe

Quantum sciences and technologies are of strategic importance for Europe's future competitiveness, technological sovereignty and economic resilience. Europe therefore needs a dedicated and independent framework for strategic governance and coordination of the quantum ecosystem, capable of providing long-term continuity, aligning national and European efforts, and supporting the full research and innovation value chain. As the European Commission considers the future architecture for Joint Undertakings and Treaty-based partnerships, it is important to recognise that the scale, complexity and long-term nature of the quantum domain require sustained coordination and funding beyond the capacity of any single Member State. Future governance arrangements should ensure that the quantum domain remains supported through a framework combining strategic coordination with effective implementation mechanisms.

QuantERA believes that this objective can best be achieved through **a coherent governance and coordination mechanism with autonomous management and a dedicated budget, capable of providing support across the entire quantum innovation pipeline - from fundamental research to industrial deployment**. It should ensure the flexibility to respond to rapidly evolving scientific and technological developments, while providing an umbrella for complementary implementation instruments, including well-established initiatives, to deliver their respective added value across the quantum ecosystem.

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The Added Value of QuantERA

Within this framework, the experience gained through QuantERA provides valuable evidence for future European partnerships in quantum. **The continuation of QuantERA through a long-term, sustainable co-funded instrument would provide significant added value.** It would preserve national ownership and budgetary planning, yet ensure European-level coordination and standards in evaluation and selection. Building on a decade of implementation, QuantERA also offers practical experience relevant to the design of future Treaty-based partnerships and quantum coordination mechanisms.

For a decade, **QuantERA has played a unique role in the European quantum ecosystem through successive joint calls supporting both Quantum Phenomena and Resources and Applied Quantum Science**, covering the research base from which technological breakthroughs emerge. It has fostered excellence-driven collaboration, talent development, and a continuous pipeline of knowledge, technologies, and research communities that feed industrial innovation and deployment without duplication. QuantERA has promoted inclusive participation while maintaining excellence as the primary selection criterion. It has also demonstrated its capacity to reduce fragmentation and support evidence-based policy development through its policy-mapping activities.

Supporting the Objectives of the Quantum Europe Strategy

This experience aligns closely with the Quantum Europe Strategy and the anticipated Quantum Act, including **stronger coordination of national programmes, support for bottom-up research and early-stage innovation, talent development, and broader participation across the European quantum ecosystem.** The strong demand for QuantERA funding, reflected in a threefold increase in proposals submitted to the Call 2025 compared to Call 2023, further highlights the need for continuity and sustained support for this instrument.

Recommendations for Long-Term Continuity and Coordination

The future European partnership landscape should build on successful coordination models that have demonstrated their capacity to align national and European priorities, reduce fragmentation, and support excellence-driven collaboration.

For these reasons, in quantum there is **a need for a dedicated European quantum governance and coordination framework that would ensure the continuity and appropriate positioning of well-established initiatives such as QuantERA as complementary components.** Such a framework would provide continuity by preserving and further developing efficient and effective implementation instruments. This would enable Europe to build on existing strengths, fully leverage proven capacities, and integrate them into a coherent and complementary quantum ecosystem.

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References

- [QuantERA's Response to Call for Evidence for Quantum Act](#)
- [QuantERA Impact Overview 2023](#)
- [The Report on Mapping the Development of Public Policies in QT 2023](#)
- [The Report on Mapping the Development of Public Policies in QT 2020](#)
- [ERA-LEARN Annual Report on Public-Public Partnerships 2020](#)
- [Midterm Report of the Quantum Technologies Flagship 2020](#)

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