

# Quantum Security

## Shaping quantum-security regulation via collective action

Centre for Cybersecurity

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### The Challenge

The Quantum Computing age is growing ever closer, and it could render obsolete the current encryption on which most enterprises, digital infrastructures and economies rely. While policy and regulation have been challenged by the fast-paced evolution of technology, they have been key drivers in ensuring a cybersecurity shift.

The uncertain and complex nature of quantum computing provides an opportunity for businesses and regulators to start a discussion on shaping effective policies and regulations. This collaboration is key to shape the regulatory landscape rapidly and effectively while harnessing the potential value of quantum.

### The Objective

With the emergence of quantum computing, urgent attention from enterprise and policy leadership is needed to drive individual and collective action to provide a global collaboration platform to address the key security challenges while realizing the potential of quantum computing.

This initiative aims to foster discussions between businesses and regulators to:

- Improve awareness and understanding of quantum computing, its risks and potential applications to the financial services sector.
- Gain insights into current industry adoption trends, regulatory approach on quantum security to gather evidence to inform future strategy and policy activities.
- Foster collaboration between regulators and industry stakeholders to define desired outcomes, next steps, and a roadmap for future engagement on post-quantum security.

### Impact and Deliverables

This initiative is a collaboration between the World Economic Forum Quantum Security community and the Financial Conduct Authority in the UK, to hold discussion series between global regulators and businesses to:

- Understand and outline the regulators and industry perspectives.
- Identify the gaps and convergence points for regulators and industry collaboration.
- Provide recommendations for shaping global regulations.

### How to engage

Nominate senior quantum experts, emerging technologies and cybersecurity experts, senior executives, and policymakers to participate in discussion series on shaping quantum security regulation.

### Key Dates

- July 17 and 24, 2023: Quantum Computing in the Financial Sector Education Session
- Sept 14, 2023: Industry Roundtable: Understand the needs and gaps from regulation
- Sept 21, 2023: Regulatory Roundtable : Understand the role and expectations of regulations
- Nov 15<sup>1\*</sup>, 2023: Joint Industry – Regulators Roundtable: Shaping quantum regulation

### Contact

For more information about this project please contact **Filipe Beato**, Lead, Centre for Cybersecurity, World Economic Forum, at [Filipe.Beato@weforum.org](mailto:Filipe.Beato@weforum.org)

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<sup>1</sup> Date to be confirmed