Ministerie van Economische Zaken

Dutch National Strategy on Quantum Technology

Strengthening the Netherlands' earning capacity and competitiveness, safeguarding our national security, and enhancing broad-based prosperity and public values.

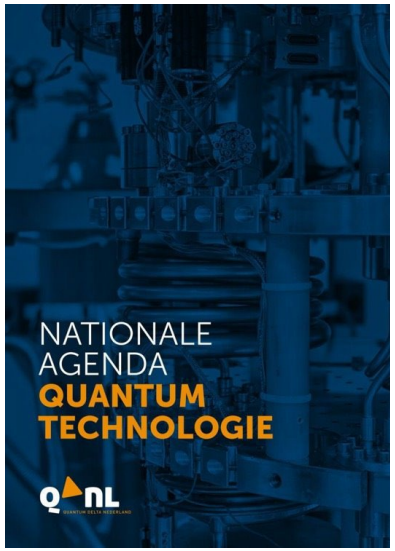
Senior Policy Coordinator and Investment Manager for Quantum Technology,

Dutch Ministry of Economic Affairs and Climate

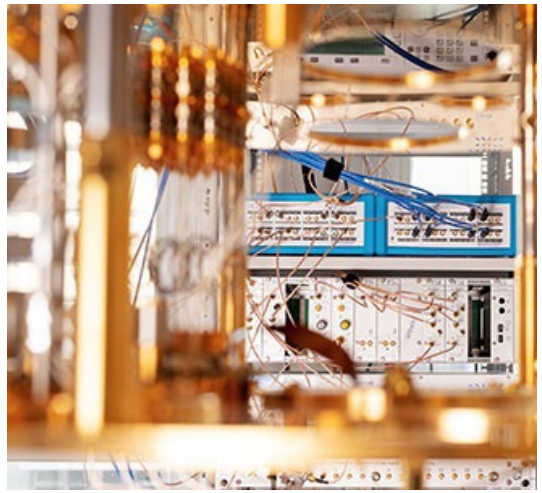
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Development Quantum Policy in NL

National quantum programme







2019:
National agenda for Quantum Technology

2021:
Start Quantum Delta Foundation with 615 milion Euro

2024:
A fast growing quantum ecosystem

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QUANTUM DELTA NL

A national campus with 5 regional hubs

- **Delft:** quantum computing, internet & network, with QuTech, Kavli Institute, Microsoft, Fujitsu, Intel and others.
- **Eindhoven:** post-quantum crypto, quantum simulation & materials, ThermoFisher, NanoLabNL and others.
- **Leiden:** applied quantum algorithms, with aQa, Google, Shell, Volkswagen, Total and others.
- **Twente:** quantum electronics and quantum photonics, with MESA+, Lockheed Martin, QuiX, Imec and others.
- **Amsterdam:** applied quantum algorithms, quantum sensing & simulation, post-quantum crypto, with QuSoft, CWI, UvA, VU, SURF and others.



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Quantum technology development in NL

Strenghts of the Dutch Quantum Ecosystem

- **First mover**: among the first countries with a national quantum strategy, a joint scientific and engineering research centre (QuTech) and a European quantum computer in the cloud
- **Leading in Quantum internet & communication**: first quantum network link between cities
- World's **first scalable quantum network**: at the port of Rotterdam
- **Photonics for quantum**: one of the leading nations in integrated photonics
- **Fertile startup ecosystem**: 35 startups in the full stack
- **Hardware components**: leading companies for components in quantum computing
- Central access point: to the **European ecosystem**

THE DUTCH ECOSYSTEM IN NUMBERS:

800
Graduate quantum students per year

€400M+
Private investments

40+
Startups across the stack

800
Jobs in quantum startups

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The Netherlands: A strong starting position in a rapidly evolving global landscape



National

From scientific excellence to industrial scale

Strong research and startup ecosystem, with growing demand for scaleup financing, manufacturing and market adoption.



European

From national initiatives to collective European strength

Greater coordination, joint investments and stronger European quantum value chains.



Global

Increasing geopolitical competition
Growing technological rivalry, security risks and strategic international partnerships.

Key takeaway

The Netherlands must turn its scientific strengths into industrial leadership, strengthen European cooperation and prepare for emerging quantum-related security challenges.

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Dutch National Quantum Strategy



Rob Jetten
Prime Minister, Minister of General Affairs



Heleen Herbert
Minister of Economic Affairs and Climate



Willemijn Aerdts
State Secr.for the Digital Economy and Sovereignty

Our 2035 ambition: Technological leadership, strategic autonomy and resilience

Economic Growth & Competitiveness
•Build on €614.9 million invested in Quantum Delta NL.
•Scale quantum companies through public-private financing and commercialisation.
•Explore government procurement of quantum computers and launching-customer

National Security & Resilience
•Transition high-risk government systems to post-quantum cryptography by 2030, medium-risk by 2035.
•Protect sensitive technologies and reduce critical non-EU dependencies.
•Develop responsible defence and security applications.

Societal Impact & Public Values
•Stimulate quantum applications in healthcare, energy, navigation and logistics.
•Safeguard privacy, fundamental rights and responsible technology use.

International Cooperation
•Strengthen European quantum capabilities and strategic partnerships.
•Advance international cooperation on standards, security and responsible innovation.

Talent & Education
•Develop quantum skills across vocational and higher education.
•Attract and retain international talent to support the growing quantum ecosystem

Ambition to Action

Coordinated by the Ministry of Economic Affairs and Climate, involving nine ministries, with annual progress reporting to Parliament starting in 2027.

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