QDNL

Accelerating Quantum Solutions
Innovation Impact Challenge

Marc de Voogd – Challenge-based program manager

Marike Boertien – Challenge-based funding manager

9 November 2026 — Webinar innovation impact challenge QDNL

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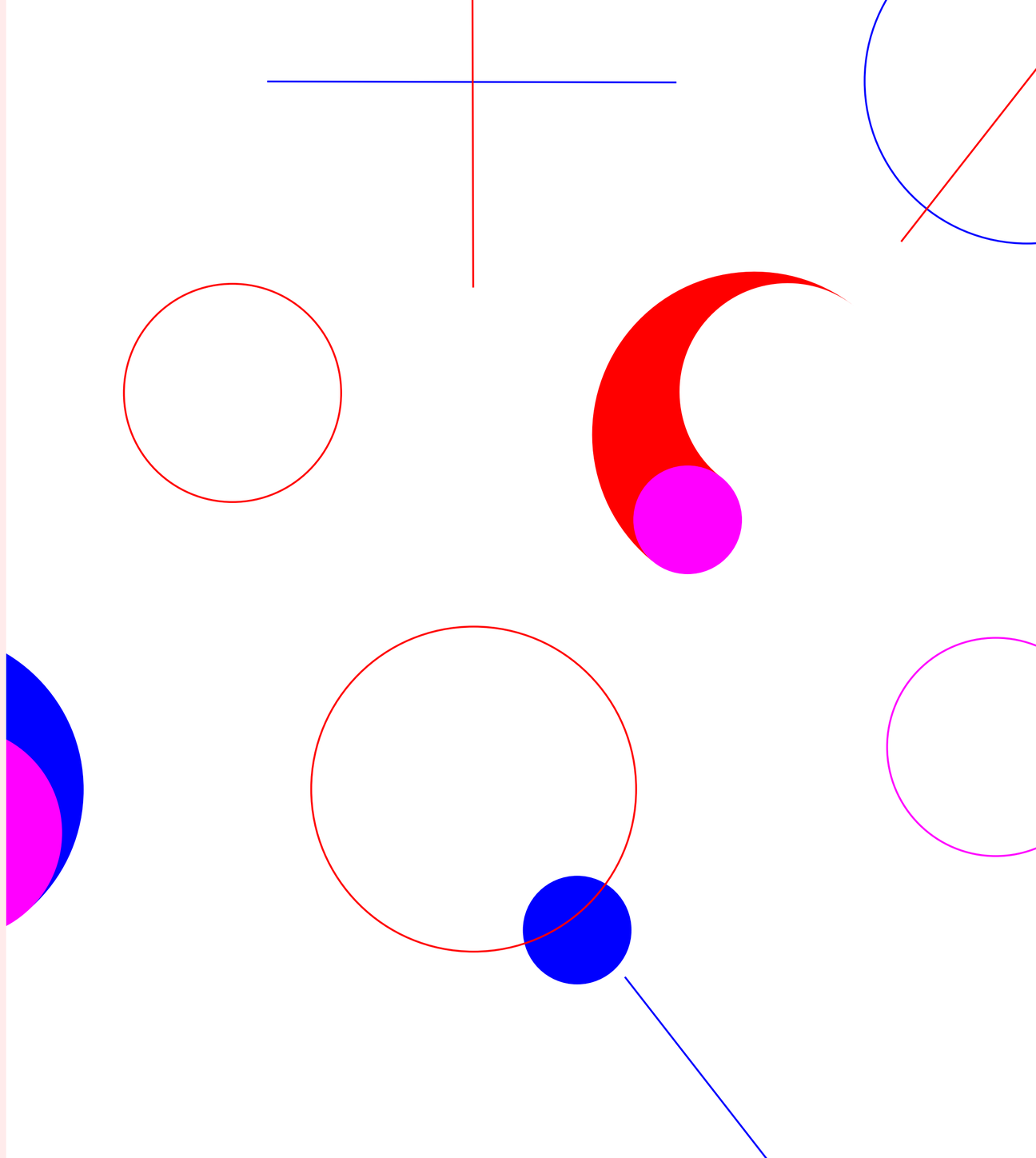


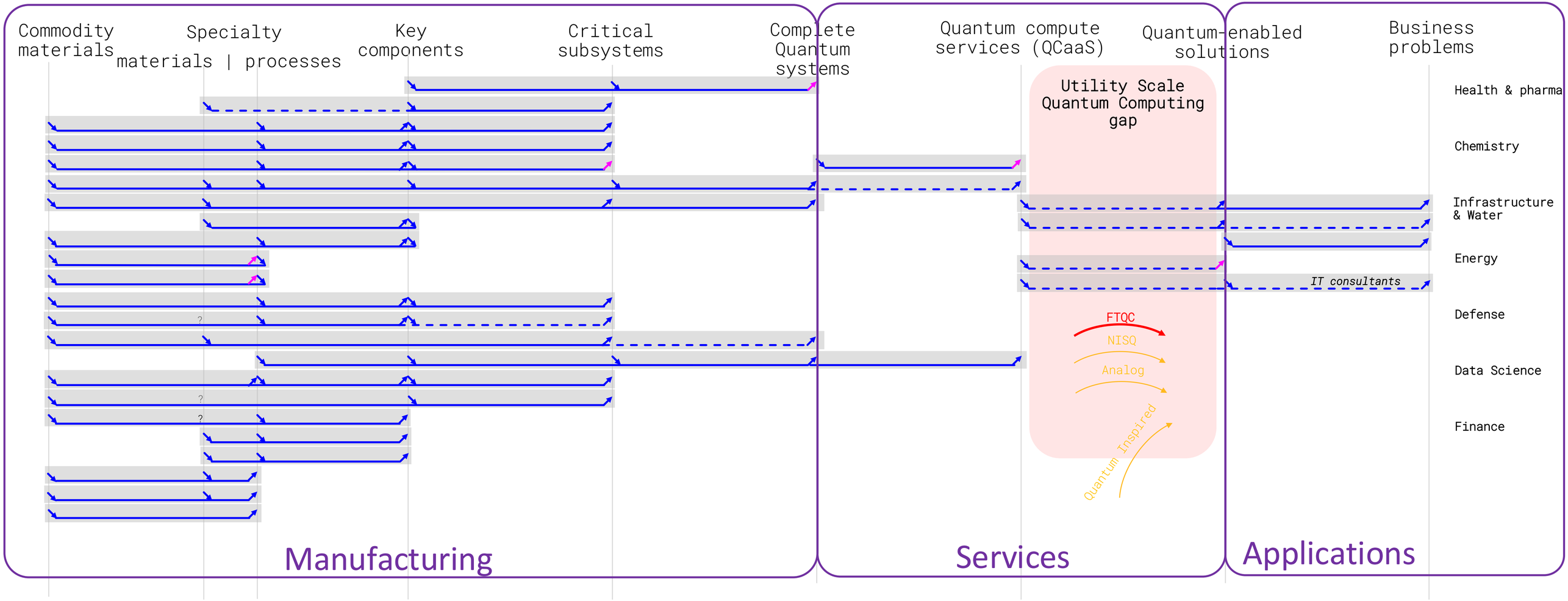
QDNL’s primary goal

Creating long term sustainable economic and societal impact in the Netherlands through the development of quantum technology



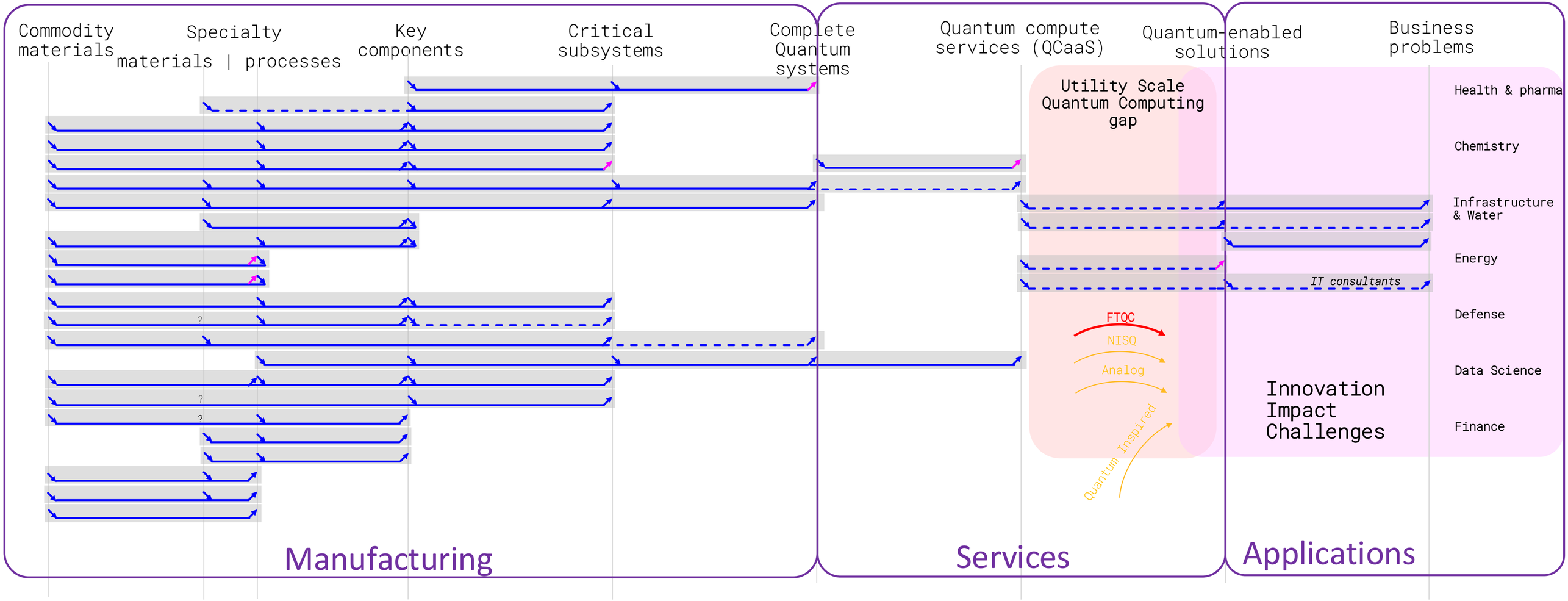
Dutch quantum sector overview – CAT1

Sector-level Value Chain Map for Quantum Computing



Dutch quantum sector overview – CAT1

Sector-level Value Chain Map for Quantum Computing

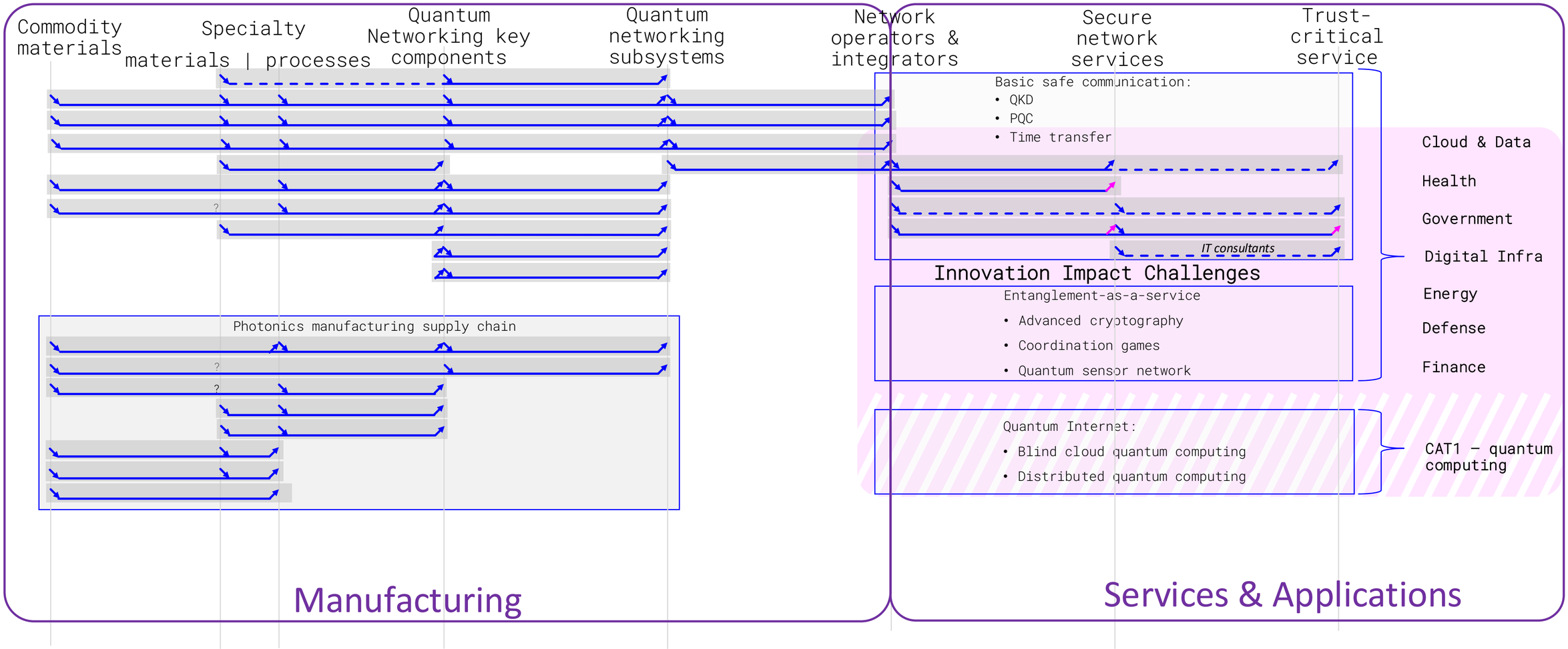


Closing the gap between quantum technology and applications

From other sectors

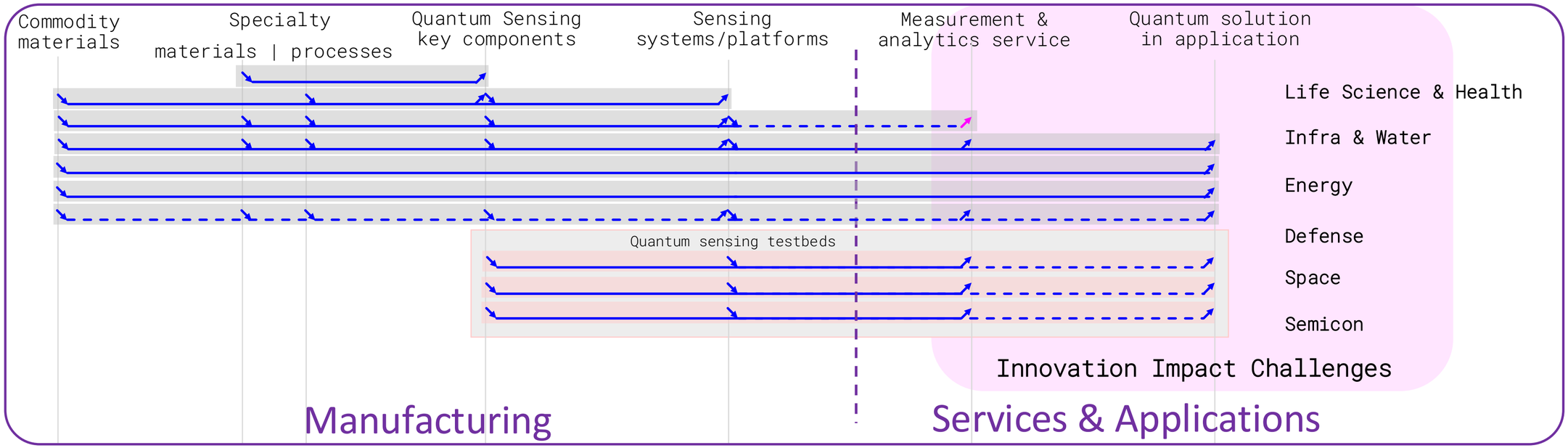
Sector-level Value Chain Map for quantum networking

To other sectors



Closing the gap between quantum technology and applications

Sector-level Value Chain Map for quantum sensing

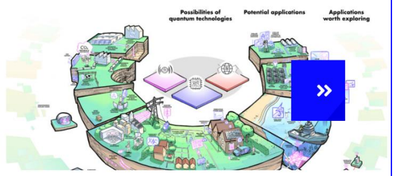


Important problems are waiting for better solutions

quantumforgood.eu/use-cases



Quantum Tech for the Water Sector



Quantum Tech in the Energy Transition



Quantum Tech in the Agri Sector



Quantum Tech for Health & Life Sciences

Dutch reports on use-cases written with end-users



Next step: from identifying use-cases to developing applications.

The challenge begins with the problem, not the technology.

This Innovation Impact Challenge QDNL:

Theme 1: Water

Theme 2: Energy

Theme 3: Physical infrastructure

Theme 4: Digital infrastructure

Ministerie van Infrastructuur en Waterstaat

Netherlands Enterprise Agency

Ministry of Economic Affairs and Climate Policy of the Netherlands

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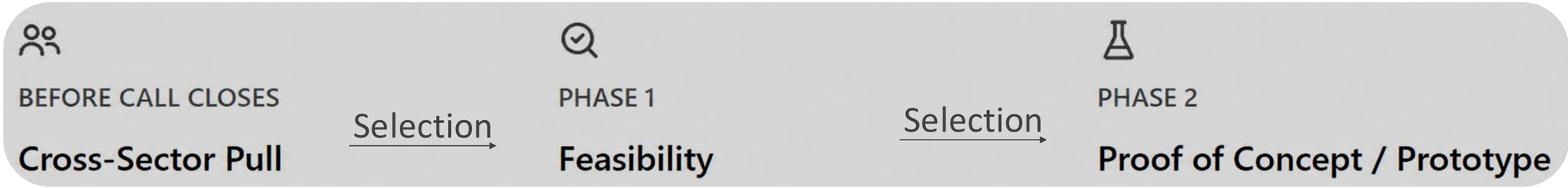
Innovation Impact Challenge

precommercial procurement of innovative solutions



~3 months

Identify a real-world problem

Connect quantum experts and end-users

Describe expected impact, expertise,

and perspective

~5 months

Up to 200k€ per project

Investigate:

- End-user problem and market gap
- Quantum-enabled solution and value
- Technology roadmap
- Alternatives and benchmarks
- Development resources

~18 months

Up to 1.5M€

Develop and test a quantum-enabled solution in a relevant application environment.

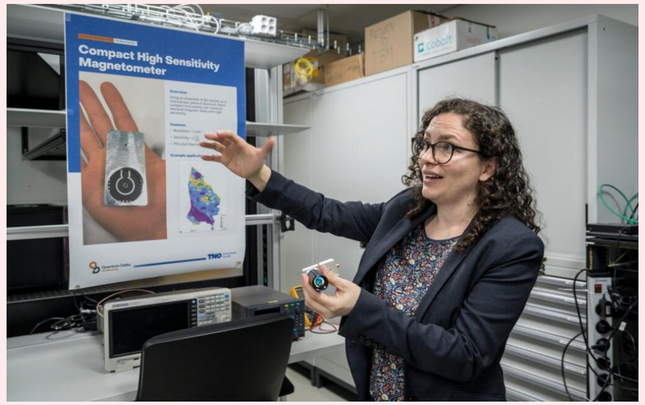
Who should get involved?

You don't need to have the entire solution today.



Problem owners / champions

Bring the operational need, practical constraints and validation environment.



Quantum innovators

Bring novel technological capabilities and an understanding of their limitations.



Existing suppliers for end-users

Bring application expertise, system integration and routes to market.

The opportunity starts now

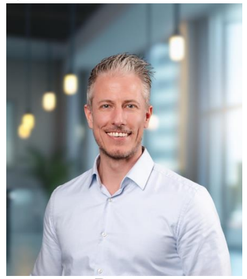
Bring your problem. Find your partners. Explore the quantum advantage.

Find your potential partners – Matchmaking event on Nov. 26th 10:00-14:00 in Utrecht! → qdnl.nl/quantum-solutions-forward-challenges

Need support with matchmaking or your idea? Connect:

industry development team


Diederick


Bas


Richard

CAT leads

computing


Marco

communication


Wojciech

sensing


Clara

Questions about the call? innovationimpactchallenge@rvo.nl

Netherlands Enterprise Agency

Check: https://rvo.nl/subsidies-financiering/innovation-impact-challenge/qdnl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Challenge team at QDNL



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