

DeiC Q-Access Roadshow Aarhus

22 October 2025 11.15-13.00

iNANO, room 1592-316, Gustav Wieds Vej 14, 8000 Aarhus C

Henrik Navntoft Sønderskov, Head of Quantum Infrastructure, DeiC

- **Introduction**
- **Vision and goal for Danish quantum infrastructure and access?**
- **Where are we going?**



Strong focus – strong collaboration

Quantum Campus Aarhus

About Research themes ▾ QUBITS Seminars News and events ▾ Leadership and Governance Contact Stay updated!

Shaping the future of quantum research at Aarhus University

A collaborative hub for cutting-edge quantum research and innovation

Join Our Community

See Upcoming Events

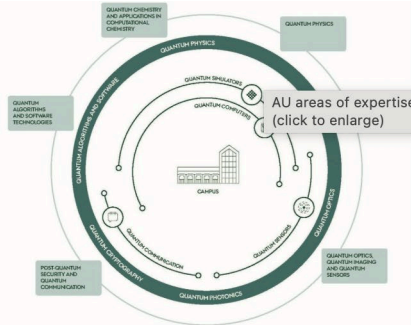
Upcoming events

DeiC Q-Access Roadshow

22
OCT

Wednesday 22 October 2025, at 11:15
iNANO, 1592-316

Invitation to Q-Access Roadshow. Researchers and students at Danish universities can apply for free access to quantum computers via DeiC.



AU areas of expertise and the National Strategy (click to enlarge)

Director

Ove Christiansen

Professor

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Want to join? Please contact:

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20.11

5G



Department of Computer Science, ... + Følg

6.027 følgere
11t · Redigeret ·

Quantum computing has the potential to transform industries from drug discovery to logistics. But to unlock this potential, we need more than powerful hardware - we need quantum software 🚀

A new **Quantum Software Team** at the department is tackling this challenge head-on. Led by Professor **Jaco van de Pol** and working closely with **Kvantify**, **DeiC** and **NNF Quantum Computing Programme (NQCP)**, the group is advancing quantum circuit optimization and training the next generation of researchers in this fast-moving field.

Discover how we contribute to Denmark's growing quantum ecosystem: <https://lnkd.in/d9ZUnb-z>
#computerscience #quantumcomputing #quantumsoftware

Read more about the Quantum Software team: <https://lnkd.in/dJsPBzJv>

Vis oversættelse



Giv udtryk for din opbakning ...



Startside



Dit netværk



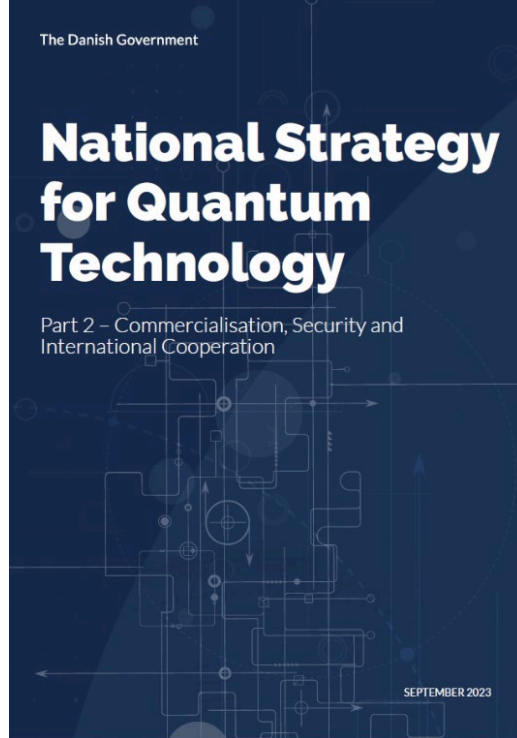
Opslå



Notifikationer



Job



The Objective of the Strategy for Quantum Technology - Part 1

☺☺ Denmark aims to have one of the world's leading quantum research environments and to have the ability to effectively translate research into new, usable technology.



Link between Part 1 and Part 2

National Quantum infrastructure:

<https://www.deic.dk/quantum-infrastructure>

Grants and Funding:

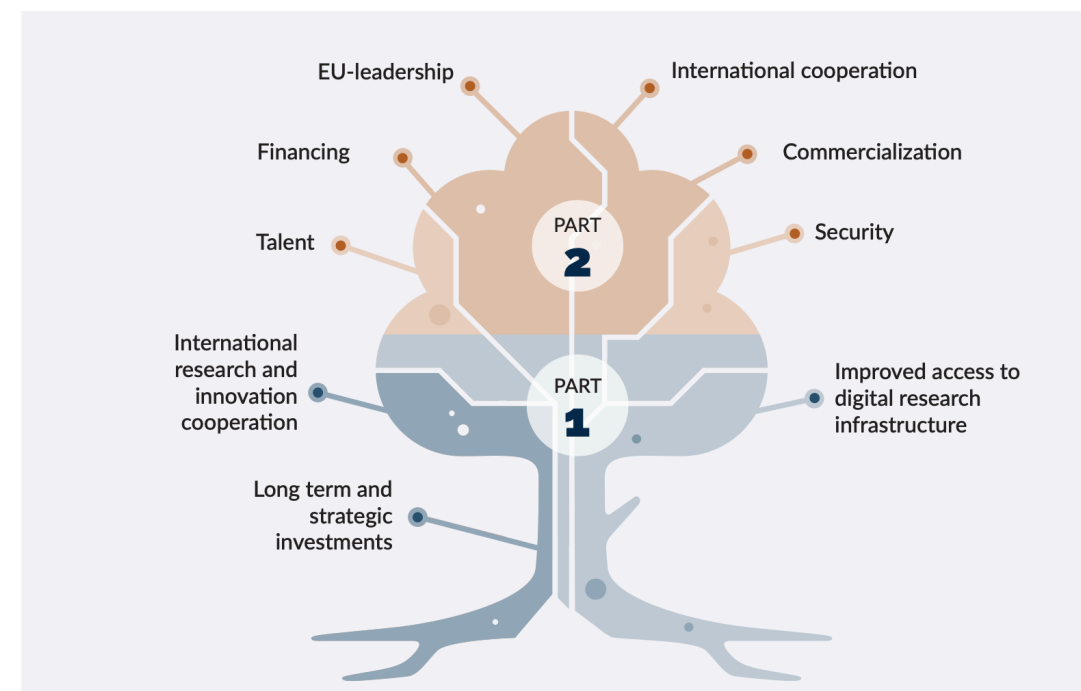
<https://www.deic.dk/da/quantum-technology/grants-and-funding>

Strategy - part 1:

<https://ufm.dk/en/publications/2023/strategy-for-quantum-technology-part-1-2013-world-class-research-and-innovation>

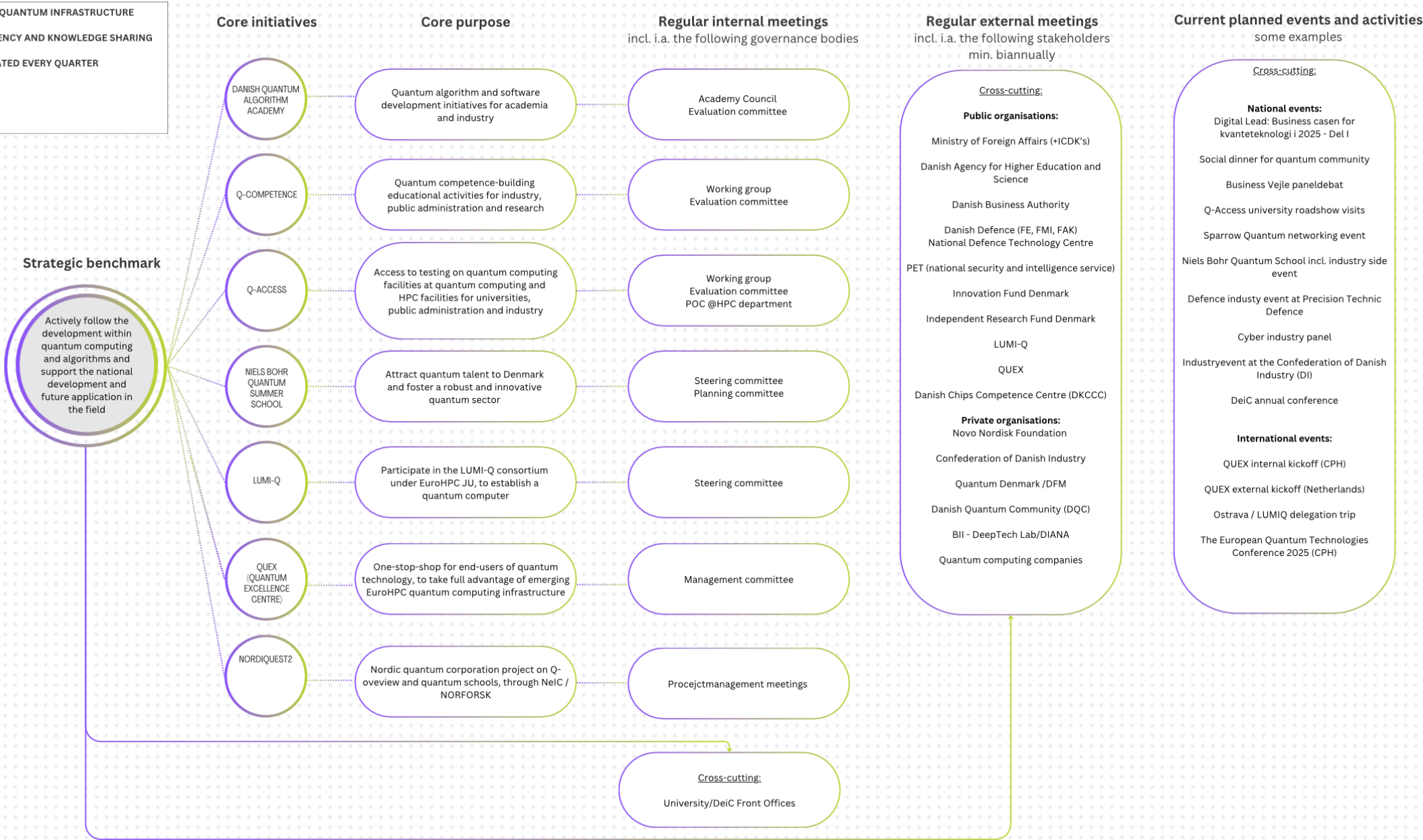
Strategy - part 2:

<https://eng.em.dk/publications/2023/national-strategy-for-quantum-technology>



DEIC QUANTUM DEPARTMENT: GOVERNANCE STRUCTURE & STRATEGIC ROADMAP FOR 2026

PURPOSE: TO VISUALIZE HOW DEIC BUILDS QUANTUM INFRASTRUCTURE
AVAILABLE ON [DEIC'S WEBSITE](#) FOR TRANSPARENCY AND KNOWLEDGE SHARING
LIVING WORKING DOCUMENT, UPDATED EVERY QUARTER



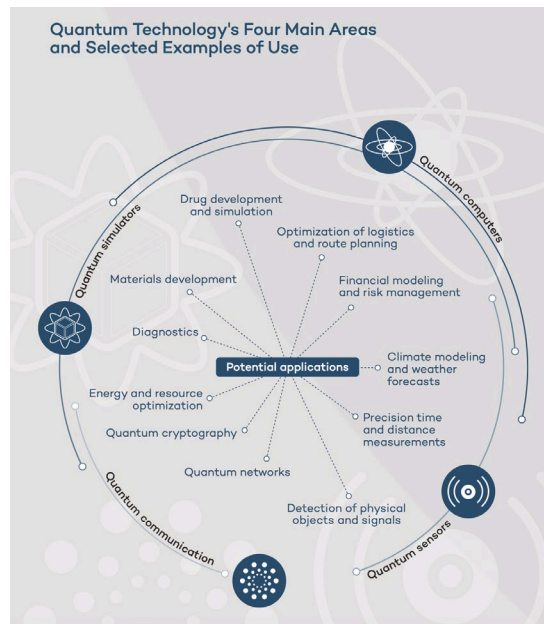
The Danish quantum ecosystem now



DANISH MINISTRY OF DEFENCE



MINISTRY OF INDUSTRY, BUSINESS
AND FINANCIAL AFFAIRS



Ministry of Higher
Education and Science
Denmark

Quantum branches:

- 1) **Science:** E.g. physics, biology, Social science, philosophy
- 2) **Commercial (every sector in society):** E.g. cyber, logistics, banking, climate
- 3) **Political:** E.g. National strategies, NATO, EU.



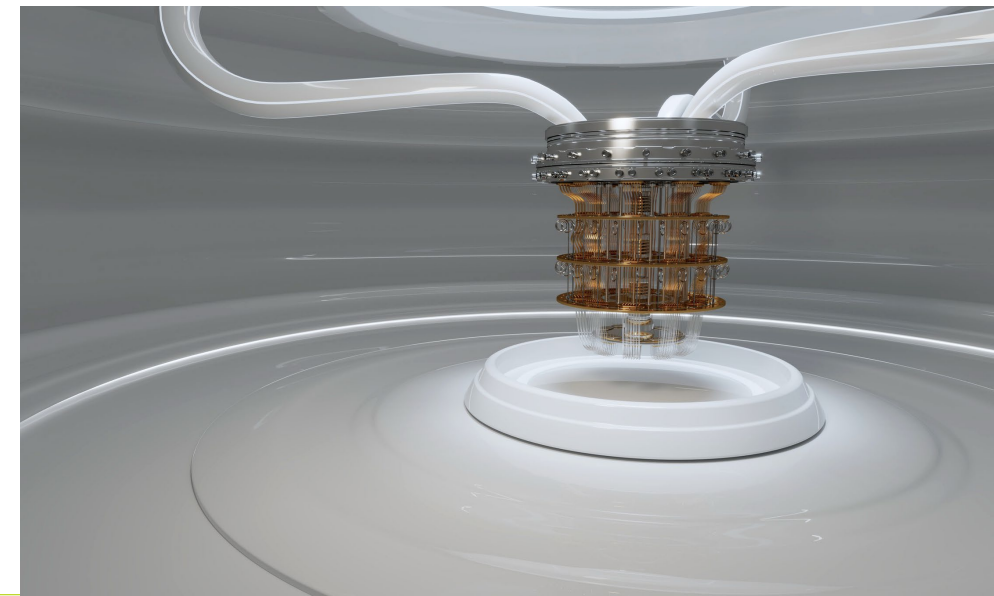
MINISTRY OF FOREIGN AFFAIRS
OF DENMARK

Niels Bohr “If anybody says he can think about **quantum** theory without getting giddy it merely shows that he hasn't understood the first thing about it!”

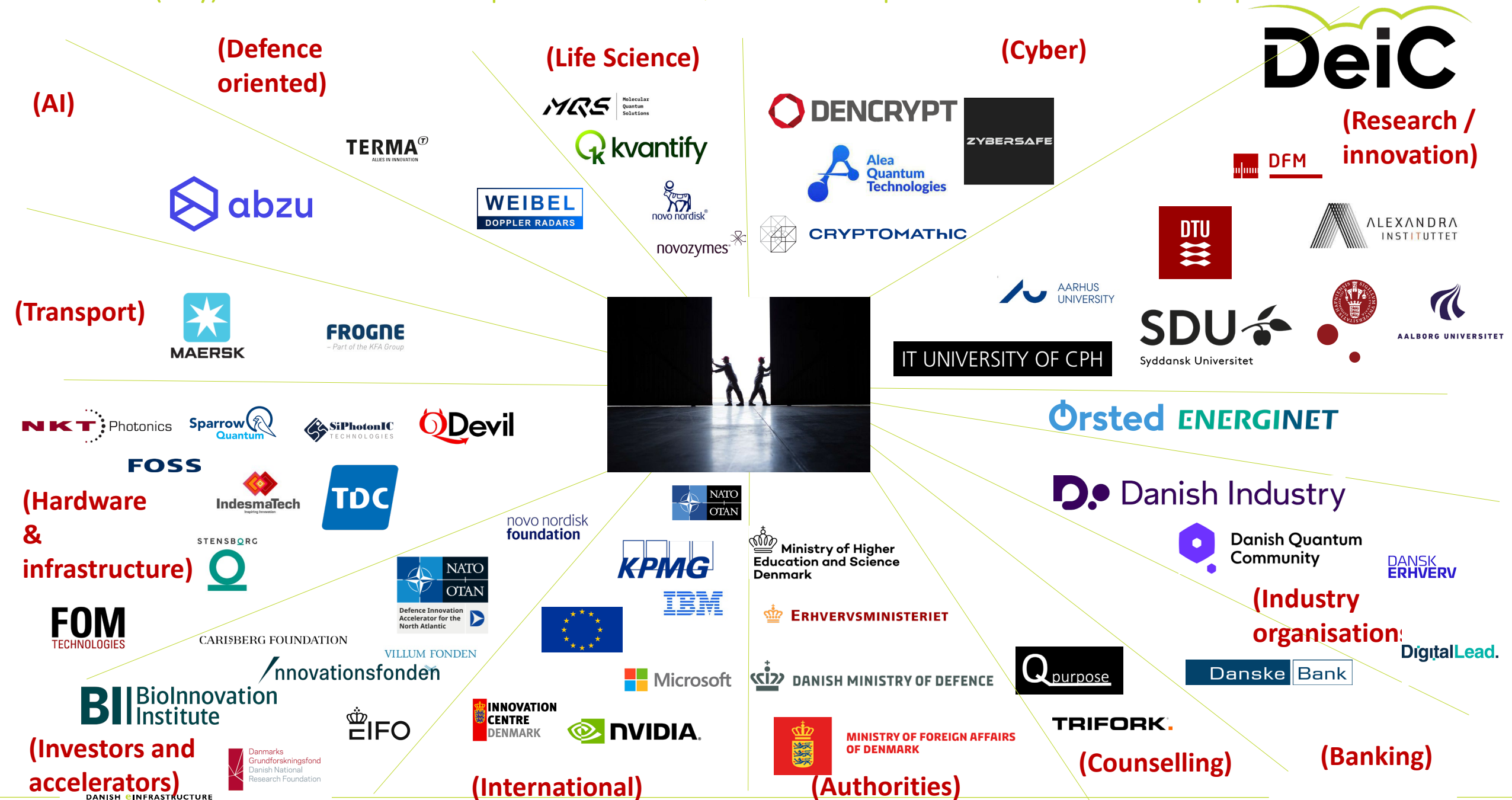


“If anybody says they can think about the Danish Quantum Ecosystem today without getting giddy it merely shows that they haven't understood the first thing about it!”

Does anyone have an idea of - which different types of actors are working within the quantum field? and how many there are in Denmark as of October 2025?



A (very) small fraction and example of the Danish Quantum landscape. Which is in a form of "superposition"



History show we can't predict the future - yet



“There is not the slightest indication that nuclear energy will ever be attainable. It would mean the atom would have to be shattered at will”. *Albert Einstein, 1932.*

“Remote shopping, while entirely feasible, will certainly flop. It has no chance of success.” *Time Magazine, 1966.*

“No-one will ever need more than 637KB of memory in a computer. 640KB ought to be enough for anybody.” *Bill Gates, CEO of Microsoft, 1981.*

“The idea of a personal communicator in every pocket is nothing more than a pipe-dream fuelled by greed.” *Andy Grove, CEO of Intel, 1992.*

“I predict that the internet will go spectacularly supernova, and in 1996 it will catastrophically implode”. *Robert Metcalf, inventor of Ethernet, 1995.*

“The internet will fade away because most people have nothing to say to each other. By 2005 it will be clear that the internet’s impact on the global economy has been no greater than the fax machine.” *Paul Krugman, renowned Economist, 1998.*

“There is practically no chance satellites will ever improve telephone, television or radio reception within the United States.” *T. Craven, FCC Commissioner, 1961.*

“There is no reason an individual would ever want a computer in their home”. *Ken Olsen, founder of Digital Equipment Corp, 1977.*

“Mobile phones will absolutely never replace the wired telephone”. *Marty Cooper, inventor of the mobile phone, 1981.*

“I don’t know... there just aren’t that many videos I want to watch.” *Steve Chen, founder of YouTube, expressing doubts about YouTube’s viability as a company. 2005.*

“There is no chance of the iPhone ever gaining significant market share”. *Steve Ballmer, CEO of Microsoft, 2007.*

“Subscription models for music are bankrupt. I think you could make the Second Coming of Jesus himself available on subscription and it wouldn’t be successful.” *Steve Jobs, CEO of Apple, 2003.*

A few perspectives

"Those who are not shocked when they first come across quantum theory cannot possibly have understood it"

Niels Bohr, theoretical physicist. 1927

"The paradox is only a conflict between reality and your feeling of what reality 'ought to be'"

Richard Feynman, theoretical physicist. 1963

The main ingredient of the first quantum revolution, wave-particle duality, has led to inventions such as the transistor and the laser that are at the root of the information society"

Alan Aspect, physicist. 2014-

"Quantum mechanics makes absolutely no sense"

Roger Penrose, mathematical physicist. 1980's

"The fast-advancing quantum computing (r)evolution, will challenge the pre-quantum way of conducting scientific and industrial development by making digital transformation of societies, organizations, and financial markets fundamentally different" A quote on the Goodreads platform.

