
Overview of the Stakeholder Landscape in the Danish Quantum Ecosystem



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Foreword

The quantum field is currently undergoing a remarkable and historically rapid development — both globally and in Denmark.

Various types of quantum computers are being invented, and nearly limitless opportunities for research, technological advancement, and commercialization are emerging across all sectors.

In this context, the Danish e-Infrastructure Consortium (DeiC) has been appointed by the government to lead efforts in establishing quantum infrastructure, directly aligned with the national strategy for quantum technology. DeiC's role is to serve as a purely objective, government-anchored initiative for the benefit of all in Denmark.

Only a few years ago, there were just a handful of actors in the Danish quantum landscape. However, the vast and accelerating growth of quantum development has led many different stakeholders to take an increasing interest in quantum — for a variety of reasons. Naturally, this has created a complex landscape of actors, which can be difficult to navigate, both for domestic and international stakeholders.

In light of DeiC's objective mandate and its concrete initiatives to support quantum development, it has therefore been found relevant to compile this overview of Danish-based actors — across the entire country — who, in the present year, are working wholly or partly with, or in support of, the quantum field.

The overview also clarifies the purpose and focus of the various actors, including how they are financed and how they each represent the Danish quantum effort in different ways. The overview does not include media outlets that merely communicate about quantum topics.

For clarity and accessibility, the quantum landscape is organized alphabetically and divided into the following categories:

1. **Political Level:** This refers to where quantum is addressed at a political and strategic level (e.g., NATO, the EU, the Ministry of Foreign Affairs, the Ministry of Higher Education and Science, the Ministry of Industry, and the Ministry of Defence).
2. **Public Government-Affiliated Initiatives with a Direct and Objective Focus on Quantum Infrastructure:** This includes strategies and/or initiatives directly targeting the quantum field and operating as purely public, objective measures or educational efforts for the equal benefit of all — without membership fees or specific sectoral or research limitations.
3. **Public Foundations and Institutions:** Publicly funded organizations, foundations or initiatives that, in whole or in part, focus on quantum (e.g., the Innovation Fund Denmark).
4. **Danish Universities:** The Danish universities, each with their own specific focus on fundamental research, education, and centers of excellence in quantum science.
5. **Business and the Public/Private Market:** Companies and industry associations working directly or indirectly with quantum. This category includes several subcategories — publicly and privately supported actors such as a) Public-Private Organizations and Initiatives, b) Private Foundations, c) Public-Private Foundations, d) Private Institutions, Organizations, and Associations, e) Danish-based companies and private actors engaged in the quantum field.

The registered actors are those that the DeiC Quantum Department has interacted with or learned about. They are presented briefly, based on publicly available information, and not all quantum-related initiatives or projects of each actor are listed. If an actor wishes to have their information corrected or specified, they are welcome to contact us.

Given the rapid pace of development, it is natural that some actors may not yet have been identified by the DeiC Quantum Division. If a relevant actor is missing from the list, we welcome your input.

The overview is updated annually at the end of each year. For the current year, 100 actors have been registered (and the number is much higher if all quantum sub-initiatives under each actor were to be counted too). In 2022, there were an estimated around 15.

Enjoy your reading!

Henrik Navntoft Sønderskov

Henrik Navntoft Sønderskov
Head of the Quantum Department in DeiC

Political Level

Name	Role related to quantum	Link
Ministry of Defence (FMN) and its area of responsibility, including: - Defence Intelligence Service (FE) - Danish Ministry of Defence Acquisition and Logistic Organisation (FMI) - Royal Danish Defence College (FAK)	Works with security, legislation, strategy, capability acquisitions, and education related to the quantum field both nationally and internationally, including within NATO.	https://www.fmn.dk/da/
Ministry of Foreign Affairs (UM), including: - Invest in Denmark	Works, among other things, with legislation and strategy in the field. And work to promote Danish quantum technology abroad. Invest in Denmark operates as part of the Trade Council under the Ministry of Foreign Affairs to attract investments to Denmark.	https://techamb.um.dk/team/meet-the-team
Ministry of Higher Education and Science (UFM), including: - Danish Agency for Higher Education and Science (UFS)	Works, among other things, with legislation and strategy in the field, as well as collaboration with Innovation Centre Denmark locations.	https://ufm.dk
Ministry of Industry, Business and Financial Affairs (EM). Including: - The Danish Business Authority (ERST)	Works, among other things, with legislation in the field and in supporting strategies, preparing use-case catalogs, as well as regulating investments and exports to promote Danish quantum technology.	https://erhvervsstyrelsen.dk
Ministry for Societal Resilience and Contingency, including: - Centre for Cybersecurity (CFCS)	CFCS works, among other things, with guidance and advisory services related to security associated with quantum technologies.	https://www.cfcs.dk/da/

Public, Government-anchored Initiative With a Direct and Objective Focus on Building Quantum Infrastructure

Name	Role related to quantum	Link
DeiC Quantum Department	Vision: Directly tied to the Danish government's national strategy for quantum technology the vision for DeiC Quantum Department is through crucial quantum infrastructure initiatives to support the goal for Denmark to continue to have one of the world's leading quantum research environments, and to effectively translate research into new, applicable technologies and industrial opportunities. Mission: Development and collaboration on a government-based, objective, and technology-neutral national quantum infrastructure for the equal benefit of research and industry. This is achieved through both national and international projects and initiatives, with DeiC operating without any commercial interests of its own. Purpose: The quantum efforts within DeiC's Quantum Department are specifically aligned with the strategic objectives set forth in the Danish Government's National Strategy for Quantum Technology, with the purpose of advancing crucial areas within quantum infrastructure. The main areas covered consists of:	Main page: https://www.deic.dk/quantum-infrastructure Q-Algorithm (Danish Quantum Algorithm Academy / DQAA): https://www.deic.dk/da/q-algorithm Q-Access (Access to quantum computers): https://www.deic.dk/da/q-access Q-Competence (national competence-building initiative): https://www.deic.dk/da/q-competence Niels Bohr Quantum Summer School: https://www.deic.dk/en/node/2493

	- Q-Algorithm (Danish Quantum Algorithm Academy / DQAA) - Q-Access (Access to quantum computers) - Q-Competence (national competence-building initiative) - Niels Bohr Quantum Summer School - International quantum projects and initiatives benefiting Denmark. The initiatives have a yearly 40-50 mio. DKK budget from The Research Reserve. As the initiatives are directly linked to the goals and focus areas of the national quantum strategy, the Quantum Department—beyond its collaboration with universities—is also tasked with coordinating and cooperating with a range of other public and private stakeholders who are directly or indirectly engaged with other aspects of the quantum strategy. This includes, among others, the Ministry of Foreign Affairs, the Ministry of Industry, Business and Financial Affairs, the Danish Defence, and the Danish Security and Intelligence Service.	
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Public Foundations and Institutions

Name	Role related to quantum	Link
Danish Meteorological Institute (DMI)	Funded through the national budget / Finance Act, and receives external research grants. Focuses on quantum technology, among other things, in connection with climate and weather models.	https://www.dmi.dk
Danish Security and Intelligence Service (PET)	As stated in the government's quantum strategy, security is an important parameter. The Danish Security and Intelligence Service (PET) works in this field and also publishes papers on quantum technology and national security.	https://pet.dk
Export and Investment Fund of Denmark (EIFO)	A state-owned financial institution that invests in Danish and international companies, including quantum companies and quantum initiatives.	https://eifo.dk
Independent Research Fund Denmark (DFF)	Funded by public funds from the national budget / Finance Act. The foundation operates as part of the Ministry of Higher Education and Science (UFM) and allocates funding to research projects and thematic research in Denmark, including quantum research.	https://dff.dk
Innovation Fund Denmark (IFD)	Primarily funded by the state, while also receiving financing from sources such as EU funds. Its purpose is to invest in large research and innovation initiatives, including quantum-related projects.	https://innovationsfonden.dk/da
National Defence Technology Centre (NFC)	Funded by resources from the Research Reserve. The purpose of NFC is to create a unified platform for defense collaboration between universities, industry, the Armed Forces, and	https://www.nfc.dk

	policyholders. Supports a few quantum projects.	
NATO DIANA quantum centre in Denmark Defence Innovation Accelerator for the North Atlantic (DIANA).	Supported by NATO and the Danish state, and partially hosted at the BioInnovation Institute (BII). Functions as an accelerator and test center for the development and commercialization of quantum technologies with both civilian and military applications. Its purpose is to strengthen NATO's technological edge.	https://dianaq.ku.dk

Danish Universities

Name	Role related to quantum	Link
Aalborg University (AAU)	Research, education, and research-related events. Point of contact: AAU Quantum Hub.	https://www.en.aau.dk/research/interdisciplinary-research/quantum
Aarhus University (AU)	Research, education, and research-related events. Point of contact: Quantum Campus Aarhus.	https://projects.au.dk/quantum
Copenhagen Business School (CBS)	For example, education within areas such as future tech business and the business of quantum.	https://www.cbs.dk/en
IT University of Copenhagen (ITU)	For example, education in Computer Science and Data Science, which also covers quantum-related topics.	https://itu.dk
Roskilde University (RUC)	For example, education in quantum mathematics and quantum physics.	https://ruc.dk
Technical University of Denmark (DTU)	Research, education, and research-related events. Point of contact: Quantum DTU.	https://quantum.dtu.dk/en

University of Copenhagen (KU)	Research and research-related events. Point of contact: UCPH Quantum Hub.	https://quantumhub.ku.dk
University of Copenhagen – KU Lighthouse	Lighthouse strengthens innovation and entrepreneurship across the entire university – also with a focus on quantum.	https://lighthouse.ku.dk
University of Southern Denmark (SDU)	Research and research-related events. Point of contact: SDU Quantum Hub.	https://www.sdu.dk/en/forskning/quantum-hub
Aalborg University (AAU)	Research, education, and research-related events. Point of contact: AAU Quantum Hub.	https://www.en.aau.dk/research/interdisciplinary-research/quantum
Aarhus University (AU)	Research, education, and research-related events. Point of contact: Quantum Campus Aarhus.	https://projects.au.dk/quantum

Business and the Public/Private Market

Public-Private Organizations and Initiatives

Includes organizations and GTS institutes (Approved Technological Service institutes) that receive public funding but are also supported by resources from private companies and/or foundations.

Name	Role related to quantum	Link
Alexandra Instituttet (GTS)	As a GTS institute, it receives both public and private funding. It receives public grants from, among others, the Danish Agency for Higher Education and Science. Its revenue also comes from payments by companies for research and/or services. It assists organizations with advanced, efficient, secure, and innovative IT solutions, providing consultancy and projects related to quantum technology.	https://alexandra.dk
CenSec - Center for Defence, Space & Security	Innovation cluster for the defense, space, and security industries. Receives public funding and membership fees. With its ties to the defense industry, it hosts several events focused on quantum technology.	https://censec.dk
Copenhagen Capacity	Primarily funded by the Danish state through the national budget. Also receives project support from the Danish Board of Business Development and various EU programs. The organization is further supported by funding from private foundations and companies. Works to attract foreign businesses, investors, and talent to the Greater	https://www.copcap.com

	Copenhagen region, including within the quantum field.	
Copenhagen Fintech	Supported by both financial organizations and the Copenhagen Municipality, it functions as a national non-profit cluster organization with the goal of establishing Copenhagen as a leading fintech hub.	https://www.copenhagenfintech.dk
Danish National Metrology Institute (DFM)	As a GTS institute, it receives both public and private funding. It receives public grants from, among others, the Danish Agency for Higher Education and Science. Its revenue also comes from payments by companies for research and/or services. DFM is the national institute for metrology, which is the science of measurement. Measurement and precision are crucial for the development of quantum technology, which involves sensitive measurements of quantum phenomena.	https://dfm.dk
Digital Research Centre Denmark (DIREC)	DIREC is funded through government support, and its ownership/collaboration is between universities and the Alexandra Institute, ensuring ongoing involvement of university resources. In addition, co-financing occurs through industry projects. DIREC functions as a national research and innovation center for digital technologies, including activities related to quantum technology.	https://direc.dk
Digital Hub Denmark	Funded by the state and private actors. Serves as a link between international	https://www.digitalhubdenmark.dk

	stakeholders, Danish companies, startups, research institutions, and public authorities to foster collaboration on digital solutions and innovation. Also organizes events focused on quantum technology and provides consultancy services.	
DigitalLead	Functions as a national cluster for digital technologies. Funded through private memberships and public support. Works to strengthen digitalization and the competitiveness of SMEs, including in the quantum field.	https://digitallead.dk
FORCE Tehcnology (GTS)	As a GTS institute, it receives both public and private funding. It receives public grants from, among others, the Danish Agency for Higher Education and Science. Its revenue also comes from payments by companies for research and/or services. FORCE Technology is a technological consulting and service company that works to create positive technological change, including in the field of quantum technology.	https://forcetechnology.com/da
Innovation District Copenhagen	Funded by a wide range of public and private partners, including the Government (through EM and the Ministry of Transport (TRM)), the City of Copenhagen, the University of Copenhagen, Freja Ejendomme, Rigshospitalet, and other collaborating landowners and institutions. Works to establish Copenhagen as a world-leading innovation hub within	https://innovationdistrictcopenhagen.dk

	life science and quantum technology – in collaboration with, among others, businesses and research institutions.	
Quantum House Denmark	Funded by the Ministry UFM and EM, which cover operations and facilities, as well as the Novo Nordisk Foundation (NNF), which finances their laboratory equipment. Works with accelerating quantum innovation from lab to market. Unites global entrepreneurs, investors and industry leaders to turn breakthrough research into world-changing companies.	https://www.linkedin.com/company/quantum-denmark/posts/?feedView=all
Technological Institute (GTS)	As a GTS institute, it receives both public and private funding. It receives public grants from, among others, the Danish Agency for Higher Education and Science. Its revenue also comes from payments by companies for research and/or services. Works to strengthen the business sector in facing future technologies and industrial challenges.	https://www.teknologisk.dk

Private Foundations

Name	Role related to quantum	Link
A.P. Møller Foundation	Support a number of quantum initiatives in Denmark.	https://www.apmollerfonde.dk
Carlsberg Foundation	Support a number of quantum initiatives in Denmark.	https://www.carlsbergfondet.dk
Danish Industry Foundation	Supports, among other things, the development of new technology, including quantum technology.	https://industriensfond.dk
Novo Nordisk Foundation NNFF) Including e.g. og Novo Nordisk Foundation Quantum Computing Programme (NQCP)	The Novo Nordisk Foundation is making significant investments in the quantum field, including e.g. through the NQCP and the establishment of Quantum Foundry Copenhagen.	https://novonordiskfonden.dk
PreseedVentures / PSV DeepTech	Venture fund with a focus on deep tech.	https://psv.xyz
Scale Capital	Danish venture fund e.g. with a focus on quantum.	https://scalecapital.com
Villum Foundation	Support a number of quantum initiatives in Denmark.	https://villumfonden.dk/da
2XN Ventures (Placed in London)	Based in London but has strong ties to Denmark, with a focus on startups in Denmark.	https://2xn.vc

Public-Private Foundations

Name	Role related to quantum	Link
55 North	Funded by NFF and EIFO. Is the world's largest quantum fund with 1 billion DKK for new quantum technology. The fund aims to invest in quantum companies in Denmark, across Europe, and internationally.	https://novoholdings.dk/news/novo-holdings-acts-as-cornerstone-investor-in-55-north-the-world-s-largest-dedicated-quantum-fund

Private Institutions, Organizations, and Associations

Name	Role related to quantum	Link
BioInnovation Institute (BII)	Primarily funded by NFF. Works to accelerate research and startups, including in quantum technology. Operates, among other things, the BII Quantum Lab and is part of NATO's quantum center.	https://bii.dk/programs/quantum-lab/
Confederation of Danish Industry (DI)	Denmark's largest employers' and business organization, with over 20,000 members. Focuses, among other things, on political advocacy, events, and communication related to quantum technology.	https://www.danskindustri.dk
Danish Chamber of Commerce (DE)	Business organization and employers' association. Has over 18,000 members. Focuses, among other things, on political advocacy, events, and communication related to quantum technology.	https://www.danskerhverv.dk/brancher/digitalisering-teknologi--tele/kvanteteknologi2/
Danish Metal Workers' Union	Danish Metal is primarily funded by its members and serves as a trade union and unemployment fund for employees in the metal, machinery, transport, and IT sectors. It views quantum technology as an important part of the future of production and the labor market in Denmark and is therefore actively engaged in quantum and e.g. organizing events focused on quantum technology.	https://www.danskmatal.dk

Danish Quantum Community (DQC)	DQC is funded through membership fees from the Danish research community, industry, and funding organizations. They have 65 members. DQC has undertaken specific publicly funded assignments, such as the development of a Quantum Use Case Catalogue and an interactive ecosystem map, both created in collaboration with the Danish Business Authority. DQC work as a private association for Danish stakeholders in quantum technology with the purpose of increasing awareness of quantum technology, improving opportunities for research and innovation in the field, and illustrating the potential applications of quantum technology for the benefit of Danish society.	https://dqc.dk
The Danish ICT Industry Association (IT-Branchen)	Industry association that promotes the interests and development of IT and IT-related companies.	https://itb.dk
The Danish Society of Engineers (IDA)	Denmark's largest trade union for engineers, IT professionals, and graduates in the natural sciences. Focuses, among other things, on quantum technology through initiatives under IDA Future Technology.	https://ida.dk

Danish-based companies and private actors engaged in the quantum field

Name	Role related to quantum	Link
Arbit	Cybersecurity company. Has, among other things, developed the product Quantum Firewall.	https://arbitcds.com
Aeven	Develop IT-infrastructure.	https://www.aevengroup.com
Alea Quantum Technologies	Produces quantum random number generators (QRNG) based on laser technology.	https://alea-quantum.com
Atom Computing	Develops and builds quantum computers using neutral atoms trapped in optical traps as qubits.	https://atom-computing.com

	Has its European headquarters in Copenhagen.	
ATP	Pension and administration company. Collaborates, among other things, with Q-purpose on the use of quantum algorithms.	https://www.atp.dk
Beamfox Technologies	Develops software used by universities and companies for the fabrication of quantum and nanocomponents.	https://www.beamfox.dk
GlobalConnect	Work with IT infrastructure.	https://globalconnect.dk
ConScience	Works with nanofabrication, microfabrication, and cleanroom operations.	https://con-science.se
Cryptomathic	Works on solutions related to post-quantum cryptography.	https://www.cryptomathic.com
COWI	International consulting firm working in engineering, architecture, environment, and socioeconomics. Collaborates, among other things, with Q-purpose on the use of quantum algorithms.	https://www.cowi.com
Danske Bank	Works, among other things, with quantum technology, focusing on communication and data security to protect the bank's data against future advanced cyber threats.	https://danskebank.dk/privat
Dencrypt	Develops solutions that are resistant to threats from quantum computers.	https://www.dencrypt.dk
DIASENSE	Develops quantum diamond magnetic microscopes.	https://www.diasense.dk
Høiberg	Intellectual property firm that advises on intangible rights such as patents, designs, and trademarks. Has, among other things, expertise in quantum technology.	https://hoiberg.com

IBM Danmark ApS	Develops both hardware, software, and the ecosystem for quantum technology.	https://www.ibm.com
Indesmatec	Technology company that provides consulting services, acts as an agent for advanced semiconductor components, and offers an IoT webshop.	https://www.indesmatech.com
FOM Technologies	Produces and sells advanced research equipment.	https://www.fomtechnologies.com
Frogne	Develops and provides software and systems for taxis and passenger transport.	https://www.frogne.dk
Globalconnect	Denmark's largest data center provider with highly secure data centers both inside and outside Denmark. Is, among other things, part of EuroQCI and the Danish infrastructure project QCI.DK	https://privat.globalconnect.dk
Jyske Bank	Collaborates, among other things, with Q-purpose on the use of quantum algorithms.	
Kamstrup	Works on solutions for securing clean water and renewable energy. Collaborates, among other things, with Q-purpose on the use of quantum algorithms.	https://www.kamstrup.com/da-dk
Kapacitet	Develops products and technologies across various industries.	https://kapacitet.dk
KPMG	Focuses on applied quantum technology through advisory and consulting services.	https://kpmg.com/dk/da.html
Kvantify	Develops, among other things, quantum-based software for the pharmaceutical, finance, and logistics sectors.	https://www.kvantify.com
Maybell Quantum	American quantum cryogenic hardware company. Has	https://www.maybellquantum.com

	established a presence at Quantum Denmark.	
Microsoft Danmark	Develops hardware, software, and the ecosystem for quantum technology.	https://www.microsoft.com/da-dk
Molecular Quantum Solutions (MQS)	Works with HPC modular quantum-chemical and machine-learning-based pipelines to advance research and development in biopharmaceutical products, materials, and chemistry.	https://mqs.dk
NKT Photonics	Supplier of specialized fiber lasers and Denmark's largest exporter of hardware for the quantum industry. Manufactures lasers that can be used to develop quantum computers.	https://www.nktphotonics.com
PA consulting	Provides, among other things, consultancy to NATO regarding DIANA.	https://www.paconsulting.com
Partisia	Develops and provides software solutions that enable secure data processing, including cryptography and quantum-secured solutions.	https://www.partisia.com
Quantinuum	Develops powerful quantum computers and advanced quantum software with a focus on trapped ion architecture.	https://www.quantinuum.com
QunaSys	Develops software and algorithms for quantum computers.	https://qunasys.com/en/
Quantum Foundry Copenhagen P/S	Company established as part of NQCP. Supports the academic activities within the program and provides the business structure with the ability to protect the knowledge and technologies it develops.	https://qfcph.com
Quantum Machines	Israel-based company. Develops, among other things, control and	https://www.quantum-machines.co

	management systems for quantum computers, including electronics and low-level software. (It acquired the Danish company QDevil.)	
QUDORA	Develops and commercializes fully operational quantum computers and quantum processors based on ion-trap technology.	https://qudora.com
Qpurpose	Works with quantum computing platforms that can find better and faster solutions to complex computational problems. Develops quantum algorithms and quantum software for practical applications across all industries.	https://qpurpose.dk
QuNorth	Nordic initiative and a company founded by EIFO and NFF. QuNorth will purchase and operate the world's most powerful commercial quantum computer, Magne, and provides access to Nordic researchers and companies.	https://qunorth.com/home
SiPhotonIC	Produces prototypes of optical integrated circuits, a specially designed silicon-based microchip that serves as a key hardware component in quantum optics products.	https://siphotonic.com
Sparrow Quantum	Develops and produces, among other things, photonic quantum chips.	https://sparrowquantum.com
Symbion	Provides a business environment for innovative companies.	https://symbion.dk
TDC	Has a business initiative focused on quantum-secure networks and future commercial products based on the technology through Quantum Networks and Security at TDC.	https://tdcnet.dk

	TDC Net has, among other things, used quantum algorithms for route optimization for service technicians.	
Terma	Works with defense and aerospace technology. Organizes, among other things, research in quantum technology.	https://www.terma.com
Topsil	Leading supplier of ultra-pure silicon to the global semiconductor industry.	https://www.topsil.com/en/
Topsoe	Develops and produces catalysts, technologies, and process solutions for chemical production, refining, and environmental technology. One of the world's leading companies in heterogeneous catalysis.	https://www.topsoe.com
Trifork	Develops and provides consultancy on a range of software and technology solutions. Advises on and organizes events related to quantum technology.	https://trifork.com
Vescent	Develops and produces precision optical components and laser systems. They have established their European headquarters in Copenhagen.	https://vescent.com
Zacco	One of Europe's leading full-service IP firms. Operates globally across all sectors and develops practical IP strategies that protect ideas, innovations, and brand identity.	https://www.zacco.com
Zeuxion	Design firm that offers cost-effective design services to companies—primarily within the data and telecommunications industries.	https://zeuxion.com/
Zybersafe	Produces hardware-based encryption solutions.	https://zybersafe.com

Ørsted	Energy company primarily financed through shareholders (with the Danish state as the majority owner), revenues from energy projects and sales, as well as by raising capital through share issues. It is involved in a number of quantum projects and initiatives.	https://orsted.dk