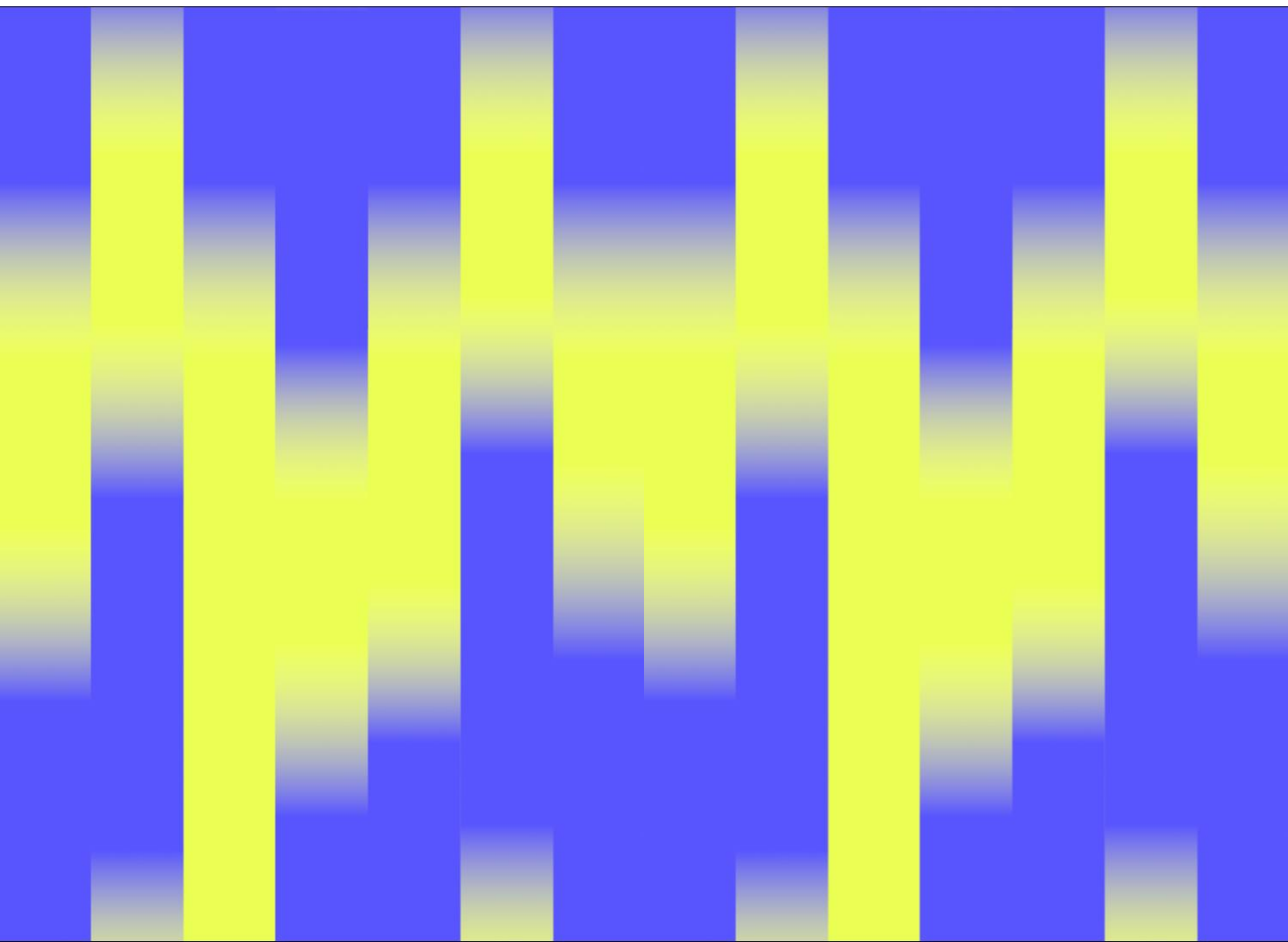
Official program for

Quantum Industry Day 2025

28th May 2025



Program

09:00-09:30	Registration and coffee | Exhibition area is open
09:30-09:50	Official opening
09:50-10:30	**Panel:** The use and potential of quantum technology in Danish Industry
10:30-11:00	Coffee break | Exhibition area is open
11:00-11:30	**Keynote:** Quantum technology in a global perspective
11:30-11:50	**Talk:** Danish quantum strongholds in a European context
11:50-13:00	Lunch | Exhibition area is open
13:00-14:00	Pitch session with NATO DIANA startups
14:00-14:30	**Talk:** Quantum technology at the European level – current and coming initiatives
14:30-15:00	**Fireside chat:** How do we grow the Danish and European Quantum Ecosystems?
15:00-15:30	**Panel:** Voices from the Danish ecosystem - doing quantum business in Denmark
15:30-15:40	Closing Remarks | Exhibition area remains open until 16:00

Official opening

09:30 – 09:50

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Morten Bødskov, Danish Minister Industry, Business and Financial Affairs

Nikolaj Zinner, Chair of Danish Quantum Community

Natasha Friis Saxberg, Vicechair of Danish Quantum Community

Andreas Espersen, Danish Industry

Panel: The use and potential of quantum technology in Danish Industry

09:50 – 10:30

In this session we will explore expectations to the adaptation of quantum technologies in key industry sectors such as finance, defence, energy and pharma.

We will explore how quantum technology will impact business strategies in the immediate future and contribute to quantum economic advantage more long term.

Morten Bødskov, Danish Minister for Industry, Business and Financial Affairs

Samant Khajuria, Vicepresident Cyber & Quantum at Terma

Heidi Østergaard, Head of Digital Innovation at Ørsted

Moderator: person, company

Keynote: Quantum technology in a global perspective

11:00 – 11:30

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NATO Ambassadør Lone Dencker Wisborg – TBD (eller Friis Arne Pedersen TBD)

(PHOTO)

Talk: Danish quantum strongholds in a European context

11:30 – 11:50

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- point

Professor Jacob Sherson (KU and AU) og European Quantum Readiness Centre

Pitch session with NATO DIANA Startups

13:00 – 14:00

- point
- point
- point

Panelist 1, Company

Panelist 2, company

Panelist 3, company

Moderator: person, company

Talk: Quantum technology at the European level – current and upcoming initiatives

14:00 – 14:30

Become updated on quantum advancements in the EU with insights from Denmark's involvement in the European quantum agenda. Gain a European perspective when one of Europe's leading Quantum technology experts shares insights from the European industry viewpoint.

Andreas Rahlf Hauptman, Deputy Director General at The Danish Business Authority

Thierry Botter, Executive Director at European Industry Consortium (QuIC)

Fireside chat: How do we grow the Danish and European Quantum Ecosystem?

14:30 – 15:00

Everyone agrees that developing quantum technology can only be done through international collaboration but at the same time nation states also wish to develop and protect national industries. How do we balance national and EU policy interests on quantum technology and make sure we can compete internationally?

Thierry Botter, Executive Director at European Industry Consortium (QuIC)

Peter Krogstrup, Chief Executive Director at NNF Quantum Computing Programme (NQCP)

Lene Oddershede, Professor and Senior Vice President, Novo Nordisk Foundation

Moderator: person, company

Panel: Voices from the Danish ecosystem - doing quantum business in Denmark

15:00 – 15:30

In this session we will zoom in on framework and business conditions for quantum technology companies in Denmark.
What works and what could be improved?

Lauri Sainiemi, Vice President Fabrication at Microsoft,

Basil Garabet, Presiden and CEO at NKT Photonics

Christian Nielsen , CEO and CO-founder at DIASENSE

Jørgen Ellegaard Andersen, Founder and CEO of Qpurpose, Founder and Head of the Center for Quantum Mathematics and Professor at Department of Mathematics and Computer Science at SDU

Moderator: person, company

Closing remarks

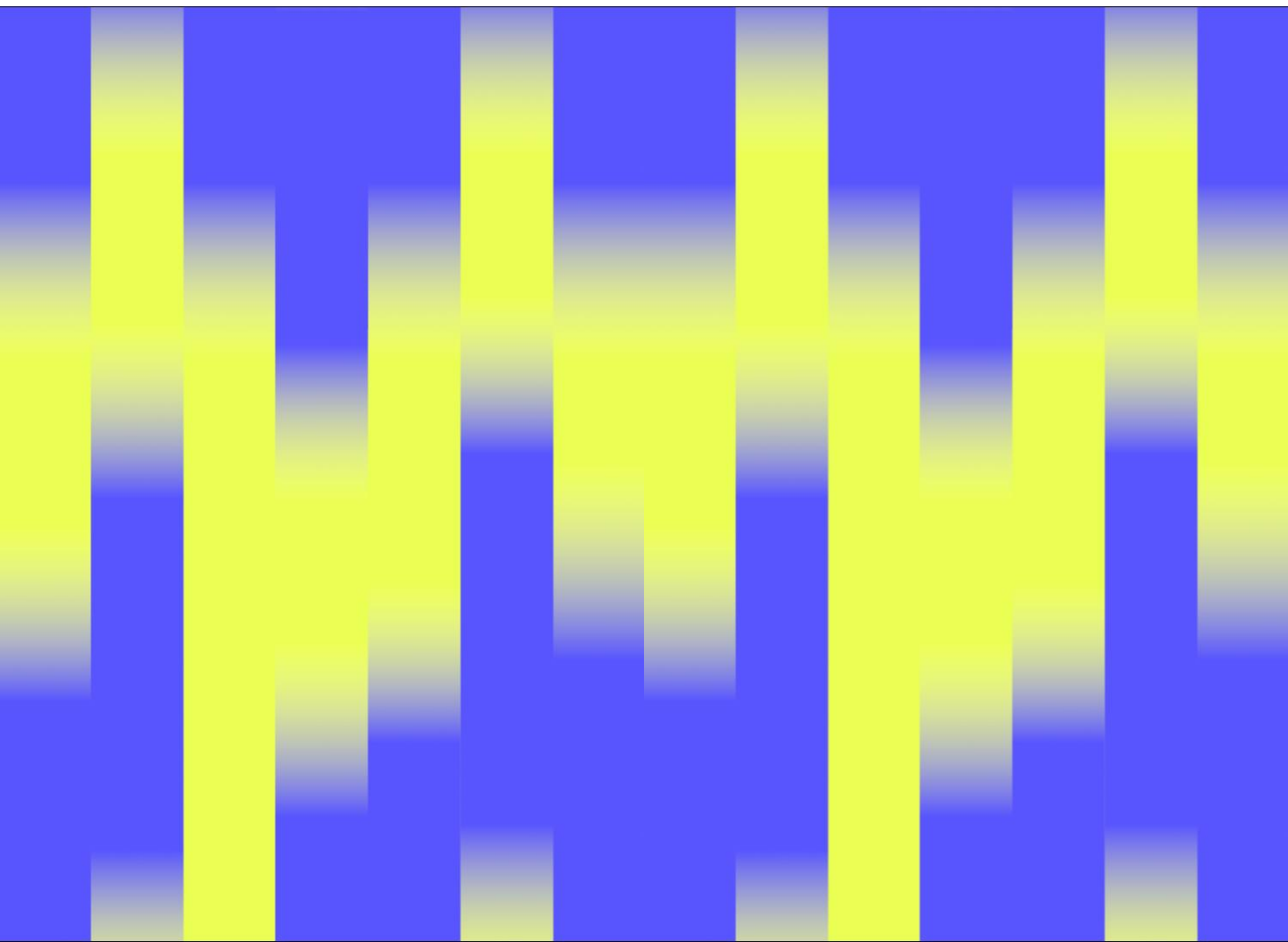
15:30 – 15:40

Exhibition area is open until 16.00

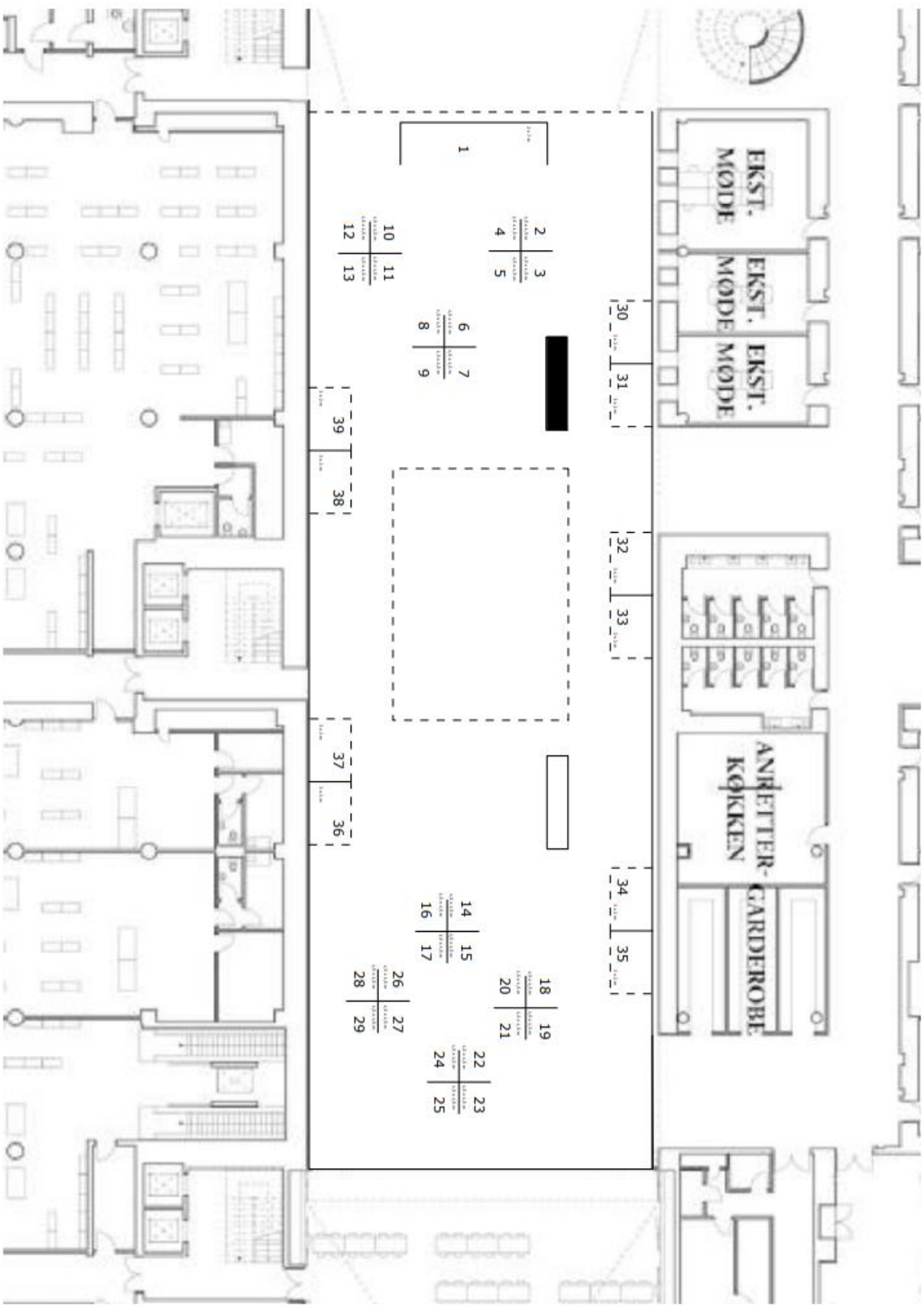
Quantum Industry Day 2025

Official exhibition overview

28th May 2025



Exhibition area



Exhibitors

Alea Quantum Technologies is a supplier of high-speed quantum random number generators to secure the future interconnected world. The product is truly revolutionary: It is simple, robust, high-speed and adaptable, and the randomness is guaranteed by the basic laws of quantum physics.

Cogitat is developing AI-powered brain-computer interface technology that makes EEG decoding production-ready. An Imperial College London spinout, Cogitat won the 2021 NeurIPS EEG Transfer Learning Competition. Its technology works across any user and any EEG device, making neural decoding universally accessible. Its breakthrough lies in world-leading AI technology that enables reliable mental state decoding across users and devices without calibration. Protected by two patents and powered by proprietary large-scale datasets, its novel deep learning architectures overcomes traditional EEG limitations including environmental interference, device dependencies, and user variability. Its solution scales across different neural monitoring tasks while maintaining robust performance.

Exhibitors

Sensible Biotechnologies believes that mRNA is the most important molecule of the 21st century. To unlock this modality's full potential, humanity needs faster, cheaper, and more effective methods of manufacturing high-quality mRNA.
Instead of making RNA via in vitro-based processes, Sensible is developing a cell-based mRNA manufacturing platform. It utilizes its proprietary PROMPT (Programmable mRNA-Protein Transporters) technology to capture mRNA and protect it from degradation by cellular enzymes and unwanted contaminants. It then purifies mRNA, and it is ready to use for the relevant applications.

52North is a med-tech company developing cutting edge technologies to reshape urgent care pathways, enabling safer and better care for patients worldwide. Its patented AsterTM platform can multiplex cell-based and soluble biomarkers from a single sample, in a low-cost, rapid, easy-to-use, portable format. In application, the AsterTM platform enables earlier dissemination of critical data points and identification of patients most at risk of severe morbidity and mortality.

Exhibitors

Quantropi provides quantum secure cryptography to protect data and communications, with a specific focus on defence solutions and the embedded/IoT markets.
Its solution is a crypto-agile implementation of a quantum safe version of SSL and TLS that includes the NIST PQCs and its novel algorithms that are ideally suited for embedded systems. This will enable quantum secure communications across a wide range of defence systems and solutions.
Quantropi will leverage its existing software components and repackage them as software libraries that will be installed on Core and Tactical Edge systems to establish "TLS-Q": quantum safe data communications over any IP network.

CUbIQ Technologies specialises in developing quantum-resistant optical transceivers in an industry-standard small form factor. Its innovative technology leverages expertise in system integration, digital signal processing, quantum information and photonic integration to deliver a QKD transceiver at 100x lower cost and energy footprint than its competitors, in an industry complaint form-factor.
It has developed a CV-QKD transceiver in QSFP-28 form factor that seamlessly integrates both classical and quantum components. This transceiver will leverage CV-QKD technology, utilising electronic-photonic integrated circuits to significantly reduce costs and improve scalability.

Exhibitors

atom computing

Atom Computing is building scalable quantum computers with arrays of optically trapped neutral atoms. We collaborate with researchers, organizations, governments, and companies to help develop quantum-enabled tools and solutions for the growing global ecosystem.

HØIBERG
EUROPEAN PATENT ATTORNEYS

HØIBERG is a European Intellectual Property firm that counsels on all aspects of intellectual property rights including patents and IP strategies. We help ambitious and innovative companies create the products of tomorrow by protecting their IP today.
HØIBERG has experts within all scientific fields, and our experts have an in-depth understanding of science and technology. HØIBERG's Hightech team unites skilled consultants with PhDs in quantum technology with proficient European Patent Attorneys with +20 years of patent prosecution, opposition & litigation experience.

HØIBERG has decades of experience in assisting both startups and multinational companies. HØIBERG's core values are long term client relationships and cutting-edge technical insight to deliver IP strategies with strong commercial impact.

Exhibitors

BioInnovation Institute (BII) has a fundamental role in the Danish quantum ecosystem, and we continuously work to strengthen Denmark's position as a leader within the field of quantum technology. At BII Quantum Lab in Collaboration with NATO's DIANA, we drive innovation within quantum technologies by supporting early-stage startups. Our tailored program focuses on developing interdisciplinary teams, identifying, and developing the most promising business case, and determining the most suitable technology development pathways for commercial viability and company growth. As Denmark's official contribution to NATO DIANA, BII Quantum Lab in Collaboration with NATO's DIANA uses BioInnovation Institute's (BII) experience from working with life science startups to leverage Denmark's world-leading research in quantum sciences. With the first DIANA program launched in early 2024, innovators are invited to explore the potential of quantum technologies from a dual-use perspective, benefiting societal resilience and both civilian and defense industries

Dencrypt is a secure communications company founded in 2013 with the ambition of delivering easy-to-use apps that protects its users with exceptional security. Dencrypt develops and maintains the Connex client application and the Dencrypt Server System which offers full end-to-end encrypted audio/video calls and instant messaging. Our encryption technology (Dynamic Encryption) is beyond industry benchmarks, guaranteeing that your communications remain confidential and tamper-proof, even in the face of sophisticated cyber threats from classical and quantum computers. Our solution is Common Criteria Certified and NATO approved for classified communication. Connex uses hybrid key exchange (ECDHE + Kyber) for all data transfers to protect against any sophisticated quantum attacker in the future.
Dencrypt is part of the CyberQ project with the goal of encrypting video and audio calls with keys secured by QKD.

Exhibitors

DFM
Danmarks Nationale Metrologiinstitut

DFM's main competences are the development of state-of-the-art primary measurement standards and methods with the aim of providing high level measurement services. Today DFM's primary focus is on development of products and services within quantum- and nanometrology and we are working closely with Danish and international companies to support both their product development and test and validation requirements to access international markets. DFM has many years of experience within quantum optical measurements, fibre optics, QKD calibrations, development of ultra-stable lasers, quantum materials growth and nano-scale characterization. DFM provides a range of traceable measurements as well as ultra-stable lasers, quantum reference materials and singlephoton calibrators.

DIASENSE

DIASENSE is developing a Quantum Diamond Magnetic Microscope for neuroscientists to explore causes of neurodegenerative diseases and accelerate the search for cures. Our magnetic microscope will utilize color centers in synthetic diamonds to obtain the needed sensitivity, bandwidth, and spatial resolution to record dynamics at the neural level, down to neurons firing and the signals propagating along the axons. Being able to observe this will bring pioneering new insights into the workings of neurodegenerative diseases - like Alzheimer's, Parkinson's, and Multiple Sclerosis. We plan to introduce our first product in 2028 aimed at neuroscience researchers at neuroscience labs, univer- sity hospitals, and pharmaceutical companies.

Exhibitors

Quantum Foundry Copenhagen is innovating tools and processes for chip-based quantum processor manufacturing, that will enable the development of scalable fault tolerant quantum computing. The core technologies are all based on integrated ultra high vacuum systems that enable chip-based fabrication with extreme atomic/isotopic precision and purity.
The Quantum Foundry will support fabrication of wafer-based integrated circuits of the highest quality, monolithic and heterogeneous processes, including for example superconducting, semiconducting and photonics components. In close collaboration with the Novo Nordisk Foundation Quantum Computing Programme (NQCP) at the Niels Bohr Institute we will support the development of useful quantum computing for the life sciences and the green transition.

NKT Photonics a subsidiary of Hamamatsu Photonics has for more than two decades been the leading developer and manufacturer of photonic crystal fiber (PCF) technology and PCF based fiber lasers. The product portfolio includes low noise, high power laser systems for quantum computing and ruggedized compact fiber laser systems for quantum communication, metrology and mobile quantum sensing systems.

Exhibitors

IBM Quantum is an industry-first initiative to build universal quantum computers for business, engineering, and science. This effort includes advancing the entire quantum computing technology stack and exploring applications to make quantum broadly usable and accessible. With a worldwide network of Fortune 500 companies, academic institutions, researchers, educators, and enthusiasts, we are committed to driving innovation for our partners in the IBM Quantum Network.
As an early mover in quantum computing, IBM placed the first quantum machines on the cloud in 2016, since then IBM has placed a continually evolving advanced fleet on machines on the cloud. Qiskit, IBM's open-source quantum SDK is by far the most widely used quantum software used to run quantum applications. IBM combines that technology leadership with professional services to help our clients address their biggest challenges in quantum computing.

Founded in 2018, **Quantum Machines (QM)** has set itself a goal to accelerate the realization of practical quantum computing that will disrupt all industries. The company's comprehensive portfolio includes state-of-the-art control systems and cryogenic electronic solutions that support multiple quantum processing unit technologies. QM's OPX family of quantum controllers leverages its proprietary Pulse Processing Unit (PPU) to deliver unprecedented performance, scalability, and productivity. Easily programmable at the pulse level or gate level (OpenQASM3), OPX runs even the most complex quantum algorithms right out of the box – Including quantum error correction, multi-qubit calibration, mid-circuit frequency tracking, and more. In mid-2022, QM acquired QDevil, a leading provider of quantum electronics solutions, enriching its portfolio to stretch from room-temperature to cryogenics.

Exhibitors

Sparrow Quantum, based in Copenhagen, Denmark, is a pioneering force in the development of cutting-edge quantum photonic chips, playing a pivotal role in the evolution of photonic quantum computers and quantum communication systems. Established in 2016, Sparrow Quantum builds on more than two decades of groundbreaking research at the Niels Bohr Institute, complemented by nearly a decade of dedicated commercial development. Today, the company's signature product—a deterministic single-photon source—sets the industry benchmark and is widely acclaimed by top quantum technology groups globally. Later this year, Sparrow Quantum will introduce fiber-coupled devices and an integrated plug-and-play system to its product portfolio. In early 2025, they will partner with ORCA Computing to supply a quantum computing testbed for the National Quantum Computing Centre (NQCC) in the UK, reinforcing their status as a pivotal player in the global quantum technology arena.

Kvantify is a leading quantum software company from Denmark delivering solutions and services to tackle the world's most challenging and valuable computational problems in life sciences and chemistry. Established in 2022, the company today comprises approximately 50 experts in a broad range of fields, from quantum computing and software engineering to mathematics, physics, drug discovery, and computational chemistry. They work at the intersection of high-performance and quantum computing, and through algorithmic developments they progressively scale up the size of problems addressable by quantum computing. With the launch of their first life science product Koffee, they demonstrated fast and accurate physics-based computational drug discovery methods for binding affinity and kinetics.

Exhibitors

Maybell Quantum is a venture-backed quantum hardware company with offices in Denver and Copenhagen. Maybell's mission is to deliver the world's best tools to solve the toughest quantum challenges, offering solutions that are more reliable, scalable and accessible. Founded in 2021, Maybell is transforming the quantum computing landscape by providing dilution refrigerators and ultra-high-density RF ribbon cables for quantum applications. The systems are designed to ensure an unprecedented level of uptime and reliability. As quantum computing transitions from the realm of research to realworld applications across sectors such as defense, intelligence, and technology, Maybell is well-positioned to be a key partner in providing the critical infrastructure that underpins this transformative technology.

Founded in 2018 in Tokyo, Japan, **QunaSys** is the world's leading developer of innovative algorithms in chemistry, focused on accelerating the applicability of quantum technology. QunaSys enables the maximization of quantum computing power through advanced joint research that addresses cutting-edge technologies. We provide QURI & QURI-Parts™, the most powerful quantum chemical calculation cloud software, foster development through the QPARC industry consortium, and collaborate with industry and research institutions from academia and government. Our software runs on multiple technology platforms, applicable in all chemical-related industries to boost quantum computing adoption. With a strong track record of working with major Japanese companies and backing from international tech giants, we felt it was time to expand into the European market. In 2023, assured by the rich culture of natural science research and a vibrant quantum start-up ecosystem, we decided to establish our European headquarters in Copenhagen, Denmark at Deep Tech Lab Quantum.

Exhibitors

Molecular Quantum Solutions provides computational tools to accelerate research & development efforts by the pharmaceutical, crop science, chemical and material industries. The MQS tools stack makes use of super- and quantum-computers with quantum chemical models and algorithms to calculate molecular properties in a fast and efficient way. Users are able to high-throughput screen for example solvents, small drug molecules, peptides and solid materials to generate an informed design of experiments for an automated laboratory. The combination of quantum chemistry based solvation modelling together with molecular dynamics allows to predict various properties of molecules such as solubility, phase equilibria and the stability of molecules in mixtures. These properties are highly valuable for formulation development and process simulation efforts. The laboratory connection feature of the MQS tool stack allows for closed loop optimization of experimental data sets by applying the computational in-silico models in connection with ML/AI models and a laboratory operated with robot arms.

As a quantum computing software, solution and service company, **Qpurpose** develops quantum-enhanced applications across all industries, with a mission to help businesses and organizations navigate the coming quantum industrial revolution. Qpurpose is a spin-off from the Centre for Quantum Mathematics (QM) at the University of Southern Denmark, The affinity between Qpurpose and QM creates a truly unique synergy effect, allowing Qpurpose to tap into the latest world-class research in quantum theory and mathematics in order to develop practical quantum algorithms for industrial customers and research collaborators to attain our mission. Qpurpose is now helping a diverse portfolio of businesses and organizations in Denmark to find quantum applications for their operation. Qpurpose experience in quantum computing and their unique end-to-end service will accelerate the value of quantum computing for enterprises today and enable business and society to harness the value of this technology

Exhibitors

SiPhotonIC TECHNOLOGIES

SiPhotonIC is a DTU spin-off which offers rapid photonic prototyping on Silicon on Insulator (SOI), Silicon Nitride (SIN), Lithium Niobate on Insulator (LNOI) but also the possibility for fully custom photonics. SiPhotonIC uses the state-of-the-art DTU Nanolab cleanroom facilities and is equipped with advanced machines for photonic integration: a 100kV JOEL JBX-9500FSZ E-Beam Writer, a Canon FPA-3000EX4 DUV Stepper, several advanced deposition & etching tools and multiple back-end-of-line machinery for photonic prototyping. SiPhotonIC has a strong track record in PIC manufacturing for quantum and classical photonic applications and an expanding customer portfolio in Europe, US, UK & China.

Exhibitors

DeiC supports the Danish universities with access to digital infrastructure and various other services. DeiC's Quantum Department is developing quantum infrastructure via four main initiatives based on the Danish National Strategy for Quantum Technology:

- The Danish Quantum Algorithm Academy (Funding for PhD and postdoc scholarships (incl. industrial) for research in quantum algorithms and software)
- National Competence Board for Quantum Computing (Financial support for educational activities)
- Q-Access (Access to quantum computers and quantum simulators/emulators on HPC platforms)
- Niels Bohr Quantum Summer School (International program for PhD students)

Furthermore, DeiC's Quantum Department participates in large European quantum infrastructure projects, e.g. LUMI-Q, EuroQCI and QUEX.

Riverlane's mission is to make quantum computing useful sooner, starting an era of human progress as significant as the industrial and digital revolutions. To achieve this, Riverlane is building the Quantum Error Correction Stack to comprehensively correct the millions of data errors that prevent today's quantum computers from achieving useful scale. Riverlane's customers are governments, quantum computer hardware companies and world-leading research labs. Investors include leading venture capital funds Molten Ventures, Amadeus Capital Partners and Cambridge Innovation Capital; the UK's national security investment fund (NSSIF); highperformance computing leader Altair; and the University of Cambridge.

Exhibitors

KPMG Denmark is a member firm of the KPMG global network of professional firms operating in 142 countries and territories across the globe. KPMG Denmark, with a team of approximately 1,000 employees and partners, is home to the KPMG Global Quantum Hub within its NewTech division. Based in the Copenhagen office, KPMG Denmark, NewTech, offers education and advice on how to prepare organisations for the advent of Quantum Technologies, and leverages partnerships with leading universities and tech-giants developing actual quantum hardware. KPMG Denmark, NewTech, offers guidance within Quantum Sensing, Quantum Communication and Quantum Computing technologies, helping identifying use cases, assess quantum-related cybersecurity risks, and educate on the applications of quantum computers. KPMG Denmark, NewTech, will leverage their expert knowledge on the application of Quantum Technologies to support clients.

Quantinuum, the world's largest and leading integrated quantum company, pioneers powerful quantum computers and advanced software solutions. Quantinuum's technology drives breakthroughs in materials discovery, cybersecurity, and next-gen quantum AI. With over 550 employees, including 370+ scientists and engineers, across the US, UK, Germany, and Japan, Quantinuum is driving the quantum computing revolution.