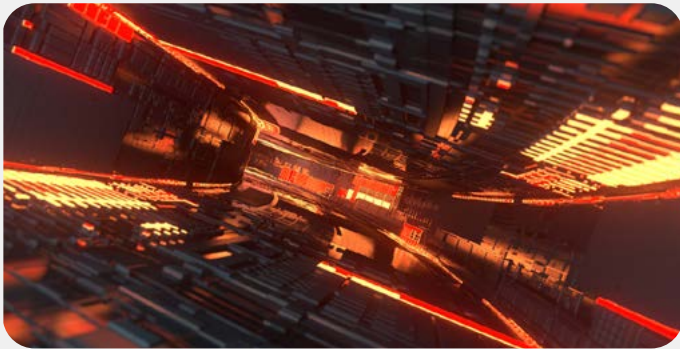




Quantum Sweden Innovation Intelligence Digest (QSIIID) is a curated monthly newsletter with external quantum innovation business news from around the globe.



HQS introduces a platform for quantum simulations, called HQStage, it is designed to provide scientists and software developers with a flexible and powerful programming environment for the simulation of quantum systems on various platforms such as laptops, workstations, HPC centres and quantum computers.
[Read more here.](#)

To protect Europe's largest port against increased security threats Q*Bird has begun a partnership with the Port of Rotterdam, to upgrade its communications and digital infrastructure. The port is the fifth most important in the world and is critical to European trade.
[Read more here.](#)

The European-based quantum computing provider, Quandela, has announced the release of its new version of its quantum computing cloud service, Quandela Cloud 2.0. The service provides end-users with the most powerful platform for generating and manipulating quantum circuits and for developing photonic quantum applications.
[Read more here.](#)

IQM Quantum Computers and Hewlett Packard Enterprise have announced a collaboration which showcases a joint demo of quantum computing and high-performance computing integration. This partnership lays the foundation for development of future integrated offerings between the two companies and demonstrates the crucial role quantum computing will play in the future of high-performance computing.
[Read more here.](#)

A record for control accuracy of 99.9% for a qubit was recently announced by Diraq, a company developing quantum computing based on silicon quantum dots. The qubit was manufactured by imec using industry-standard CMOS materials on a 300mm silicon wafer.
[Read more here.](#)

Zoom Video Communications, Inc. announced that post-quantum end-to-end encryption (E2EE) is now globally available for Zoom Workplace. This development positions Zoom as the first unified communications as a service — UCaaS — company to offer a post-quantum E2EE solution for video conferencing.
[Read more here.](#)



At a recent event with leading venture capital-backed startups in quantum computing, networking, communication and sensing, the consensus was clear that there is an urgent need to diversify and secure the quantum supply chain.

“Developing reliable sources for essential components like cryogenic refrigerators was highlighted as crucial for the industry’s stability.” Due to critical components often originating from a sole supplier, often from a country with conflicting interests.

[Read more here.](#)

IQM, the Finnish quantum computing firm, has announced that their 20-qubit IQM Garnet system will be available to researchers, scientists, and developers to explore quantum computing through Amazon Braket, the quantum computing service from Amazon Web Services (AWS). With this announcement, Amazon Braket is also expanding AWS Region availability to the AWS Europe (Stockholm) Region, making IQM’s Garnet the first QPU available to AWS customers and hosted within the European Union.

End-users of Amazon Braket have access to IQM’s high-fidelity 20-qubit quantum processing unit (QPU) based on superconducting transmon qubits.

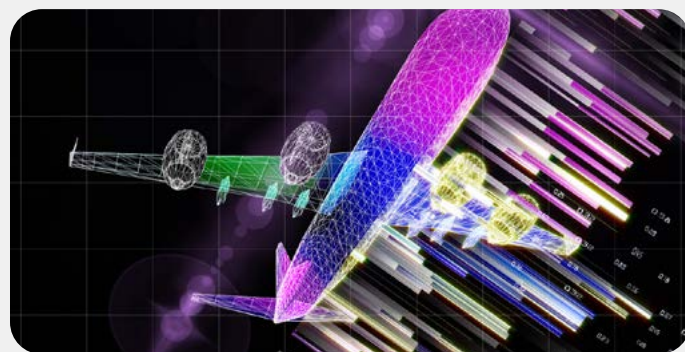
[Read more here.](#)

DARPA, the US Defense Advanced Research Projects Agency, has granted 1 million USD to scientists at Washington University in St. Louis for building a prototype “quantum photonic-dimer laser” that uses quantum entanglement to “glue” light particles together and generate a highly concentrated laser beam.

[Read more here.](#)

The National Institute of Standards and Technology (NIST) is planning to publish its first three finalized post-quantum cryptography standards this summer, according to comments by a key NIST official during a recent webcast. The first three that will be published are: CRYSTALS-Kyber, CRYSTALS-Dilithium, and SPHINCS+.

[Read more here.](#)



The UK has successfully completed the first-of-its-kind, commercial flight trials using an advanced quantum-based navigation system that cannot be hacked by hostile actors. While this sort of hacking is relatively rare, it will provide another layer of security, and in the long run provide “highly accurate and resilient navigation that complements current satellite systems.”

[Read more here.](#)

QSIP – Empowering Sweden’s Quantum Innovation Future