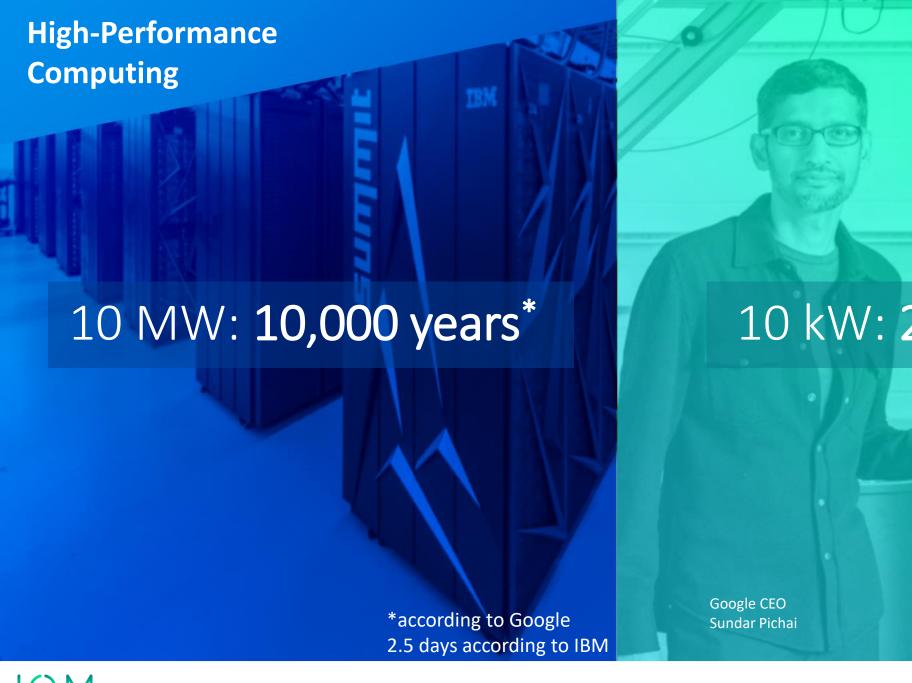
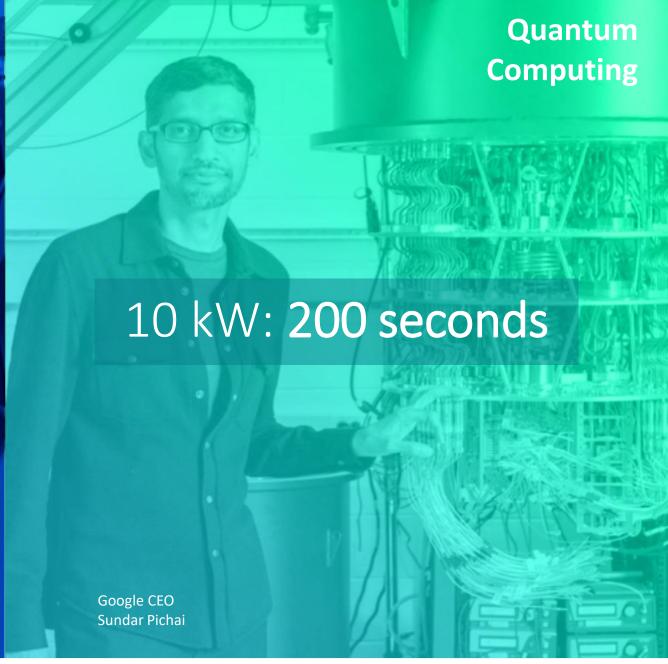
SHAPING THE QUANTUM FUTURE FROM EUROPE

IQM

We build quantum computers

Jan Goetz, CEO jan@meetiqm.com +358 505 666 483







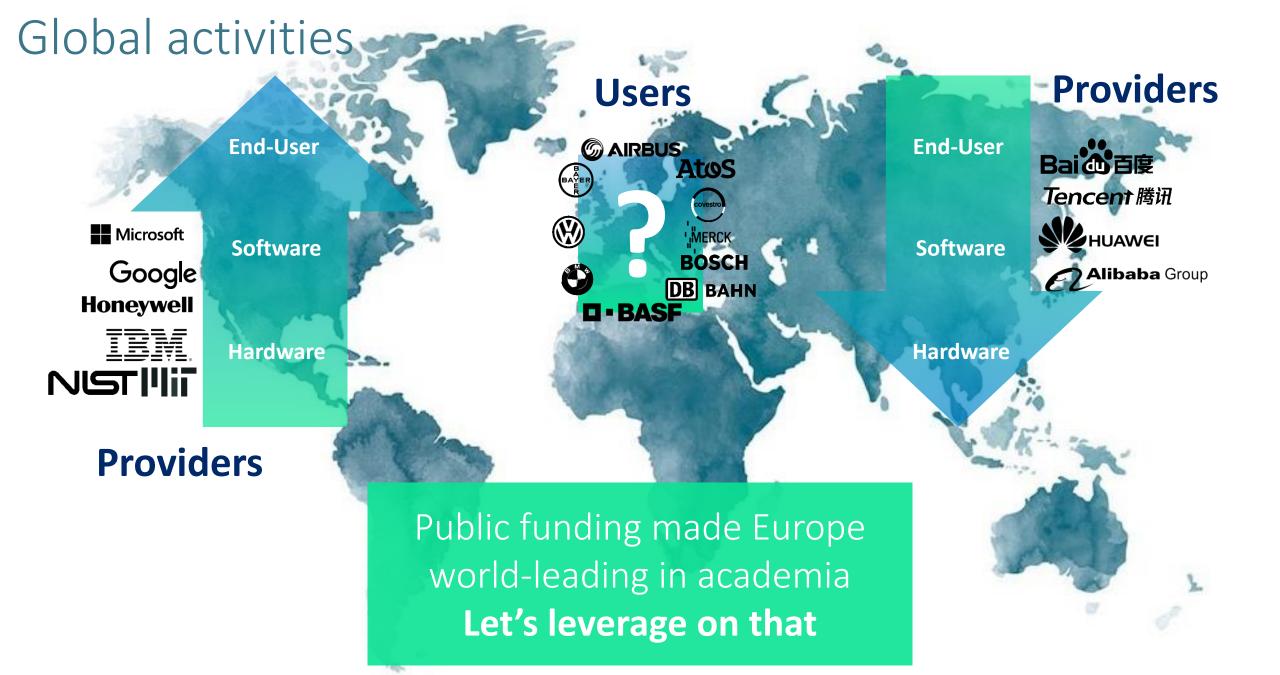


Application fields











Why does it happen in Finland?

Sustainable public funding: 120 quantum experts in Helsinki

World leading infrastructure: Clean room and low temp labs

Otaniemi research campus:
Resource for great talents

Infrastructure support:

State research center VTT Supercomputing center CSC

Quantum Ecosystem

Blue Fors
Quantastica
Aivon
Eigenco (now in IQM)

<u>Jake Taylor</u>: "Helsinki is a hotspot for quantum technology" Assistant Director for Quantum Information Science at White House



We build Quantum Computers

Hardware Companies





Bluefors is the global market leader in cryostats for quantum computers.

IQM is the leading quantum processor hardware company in Europe.

Components and Materials Companies









Finnish Quantum Ecosystem

Software Companies



Quantastica is a Serbian company with Finnish investors that is moving to Finland.

More software companies are expected to follow as a result of investments into quantum hardware.

Government



BUSINESS **FINLAND**

VTT has a roadmap for quantum computing research and manufacturing facilities.

Business Finland has a role in promoting the ecosystem growth.



CSC has its own quantum team and is investing in the field.

Universities and Academia















The Future is in the Quantum

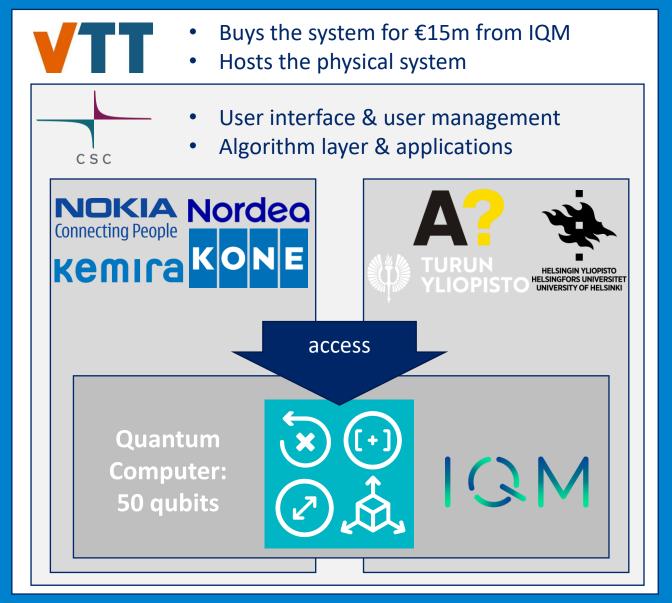
Finnish Quantum Computer

VTT, CSC, and IQM join forces to build a fast lane to quantum computing

Goal: Deploy a quantum computer in Finland in three stages

Utilizing several Finnish subcontractors: "Cooled by BlueFors"

A quantum computer makes Finland the European leader for quantum computing and positions Finland among the United States and China as a global leader





The Future is in the Quantum



IQM summary

IQM is a unique chance for Finland to create a competitive landscape for quantum computing

Only European startup with scalable approach

IQM has a patent portfolio for new concepts for qubit reset and qubit readout as well as thermal management. These are the bottlenecks for current quantum processors Unique quantum team

with a size comparable to Google's Quantum Hardware Team

IQM is deeply integrated into the global research ecosystem having access to the most-limited resource in the field: Quantum Experts **Over 10 years** academic R&D in quantum circuits

IQM is a spin-off from Finlands leading Aalto University and the state research center VTT still utilizing a strong partnership with them **fabrication** in a professional clean room

IQM's quantum processors are fabricated together with VTT. We develop next-generation solutions such as 3D integration and quantum-limited amplifiers

Streamlined and scalable microwave electronics

IQM has experienced inhouse microwave engineers to develop very low-power and cost-efficient control electronics



Fast Lane for Quantum Computers 10

IQM: A complete quantum team

Prof Mikko Möttönen – Chief Scientist

Leader of Aalto University's QCD group. More than 100 scientific articles. Highly connected globally.



Deep expertise in quantum hardware gained during Marie-Curie Fellowship at Aalto University.



Dr Kuan Yen Tan - CTO

Experience as Academy Research Fellow and Consultant for Microsoft.

Deep expertise in fabrication technology.

Dr Juha Vartiainen – COO

Expert in product development.
PhD in Quantum Computing.
>10 years of industry experience.



35 full-time employees 05 external advisors

14 nationalities25 PhDs



Dr Juha Hassel Team Leader System Integration

Former group leader in QTF and senior scientist at VTT Technical Research Center of Finland. Expert in cryogenic electronics & Docent at Aalto University.



Dr Kok Wai Chan Team Leader Fabrication

Former Senior Scientist at Microsoft. More than 10 years of expertise in semiconductor fabrication for qubits.



Dr Pasi Lähteenmäki Team Leader Scalable Electronics

Former CEO of Eigenco Oy. Expert in microwave electronics.



Olli Ahonen Team Leader Software

Ex-CTO at Kivra Oy. SW experience in Zalando and Futurice. Physicist by training.



Dr Johannes Heinsoo

PhD from globally-leading group in ETH Zurich. World record in readout speed.



Quantum Computing stacks

