

QuEra

# Your Quantum Computing Innovation Partner

 April 2025

Yuval Boger,  
[yboger@quera.com](mailto:yboger@quera.com)



# About QuEra

- Boston-based, partnering with Harvard and MIT. Subsidiaries in the UK and Japan.
- Building quantum computers based on neutral-atoms, widely-considered to be the most promising approach.
- 256-qubit computer available via AWS since Nov '22; Also installing on-premises computers.
- Recently received a \$230M investment led by Google and SoftBank.
- Partnering with HPC centers in the journey to solve classically-intractable problems.



# Computers Built for HPC Centers

- Easy to deploy – no cryogenic cooling required. Integrates well with classical supercomputers.
- Requires fewer than 20 kilowatt of power.
- QuEra provides on-premises installation, maintenance and application support.
- **Being installed at Japan's National Institute of Science and Technology.**
- Ideal for forward-looking HPC centers preparing for the quantum revolution.

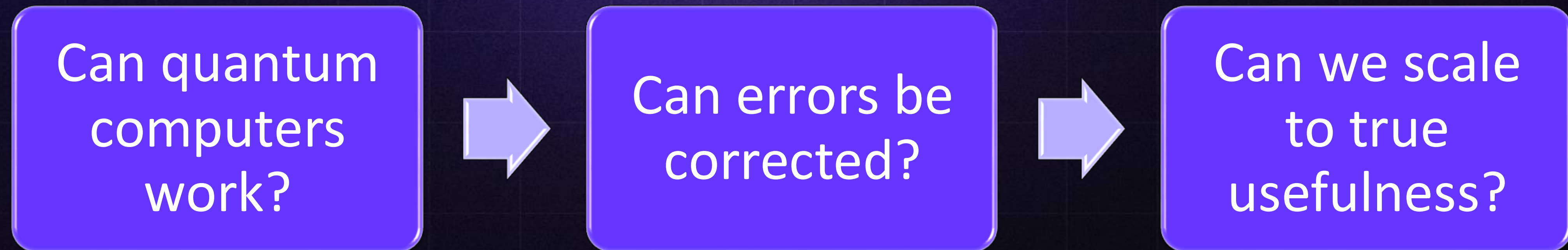


# Building Quantum Supercomputers with NVIDIA

- Founding collaborator of the new NVAQC (NVIDIA Advanced Quantum Center).
- NVIDIA NVAQC located in Boston, a short distance from QuEra.
- Collaborating with NVIDIA on GPU/Quantum integration.
- Exploring quantum-accelerated AI and AI acceleration for quantum.
- Three-way partnership with strategic customers.



# Quantum Computers: The Transition from **Feasibility** to **Scalability**



The progress in 2024 leads several analysts and organizations to believe that useful quantum computers could be just **2-3 years away**.

# If so, Should I Just Call Again in 2-3 Years?

You could wait, but the **risk** of waiting is **much greater** than the **cost** of preparing. Instead:

- Identify the problems that would benefit from quantum computing.
- Build the right team. Upskill current team members.
- Develop, test and benchmark quantum algorithms to solve these problems.
- **Identify the appropriate hardware, cloud and software partnerships.**



# Working with QuEra



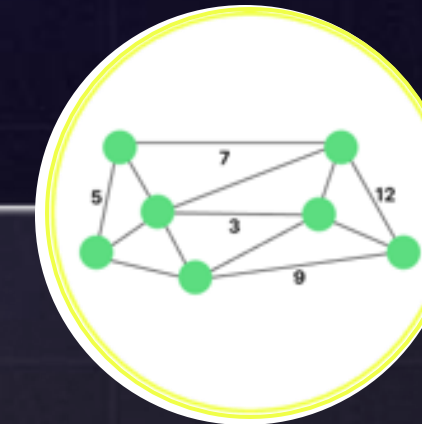
## Machine Sales

- Purchase a QuEra computer.
- On-site installation, support, and community development.



## Cloud Access

- Secure remote access.
- Mentoring and support by QuEra scientists.



## Algorithm Co-Design

- Long-term partnership with develop “killer applications”
- Full-stack optimization

# QuEra Quantum Alliance

## Partnering with the Best



Join us! [www.quera.com/partners](http://www.quera.com/partners)