

Quantum Computing 25/26

Introduction to quantum algorithms with PennyLane

André Sequeira

HASLab, INESC TEC

Department of Informatics, University of Minho

Quantum programming languages ?!

No, Quantum software development Kits (SDKs)

Quantum SDKs usually in Python/C++

From simulation to hardware execution

Quantum technology companies



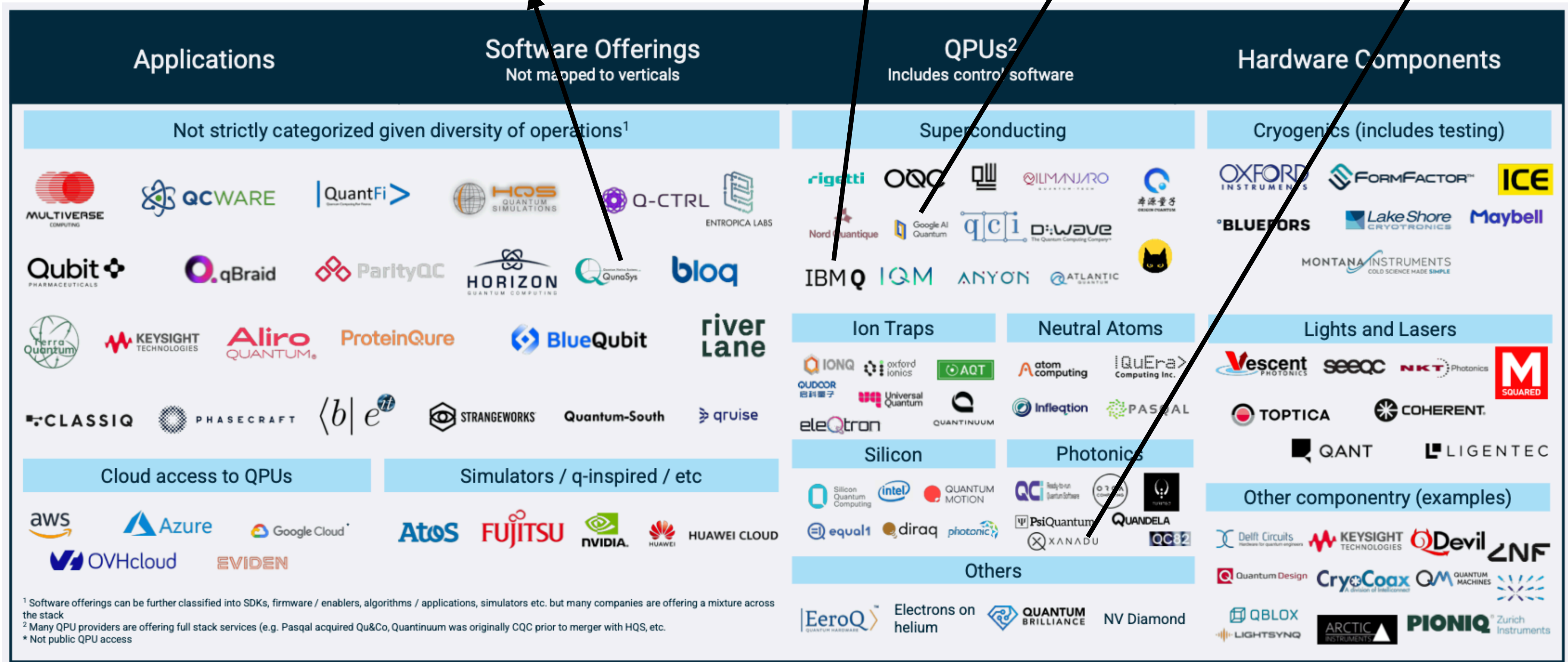
$|Q\rangle$



Qiskit



Cirq



Calendar

- TP 15 Oct - Quantum computing fundamentals with PennyLane
- T 20 Oct - Quantum computing fundamentals with PennyLane
- TP 22 Oct - Deutsch-Jozsa algorithm
- T 3 Mar - Grover's algorithm
- TP 5 Mar - Grover's algorithm