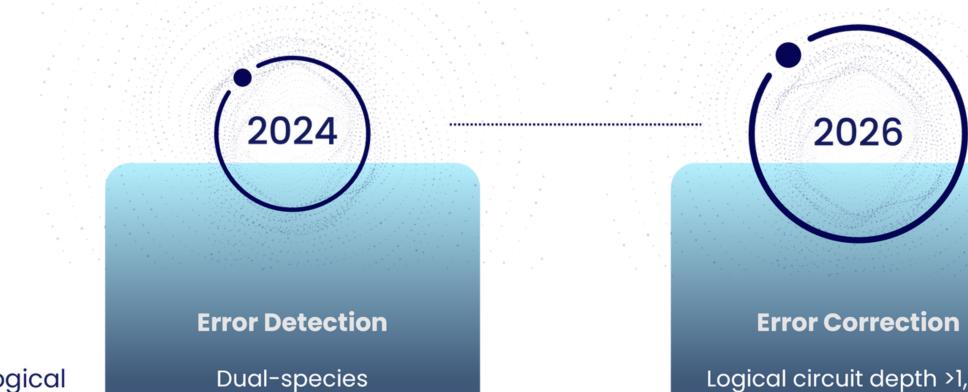


## **Quantum Computer Roadmap**

Last Update: February 2024



crosstalk-free measurement

Tooling (QCVV) for verifying

fault-tolerant properties

Optimized laser

pulse modulation

Logical circuit depth >1,000 Universal quantum gate set

>10

Optimized compilation of fault-tolerant circuit

Advanced photonic beam steering

Commercial Advantage

2028

Logical circuit depth >1 million

>100

Exponential speed-up demonstration

Real-time atom reloading

Logical Performance

Logical Qubits

Software

Enabling Technologies

Target numbers are estimates and not guarantees of future performance