

Quantum's **Exponential** Moment

Matt Kinsella
CEO & Founding Investor

Infleqtion



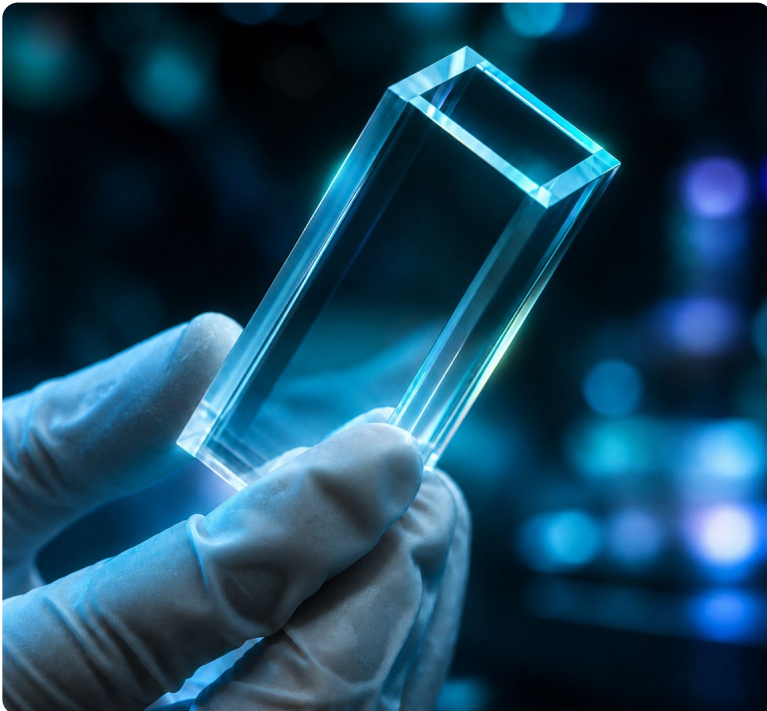
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Infleqtion : One Neutral-Atom Platform

MULTIPLE PATHS TO COMMERCIAL VALUE



**~\$45M FY26
Revenue Guidance**

Computing & Sensing

**20 Years of
Quantum Innovation**

- 248+ patents issued & pending
- 175+ physicists & engineers

**Systems Deployed
Globally**

U.S. | U.K. | Japan | Australia

**100's of Quantum
Customers**

Government | Enterprise |
Research

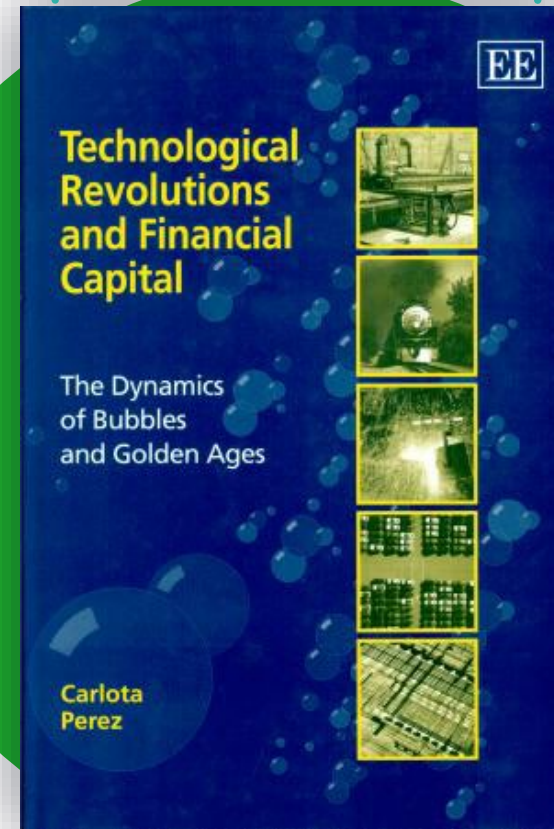
Behind This Talk

Carlota Perez

Technological Revolutions and
Financial Capital

Today's Question

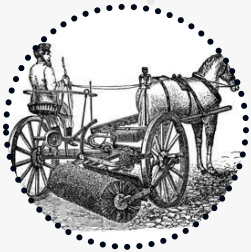
Where does quantum fit in the
arc of technological history?



Quantum Changes How Humanity Understands the World

The Precision Era Begins

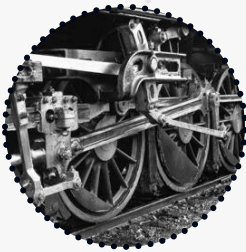
Amplified
Human Muscle



1770s

Industrial
Revolution

Compressed
Distance



1830s

Railways &
Logistics

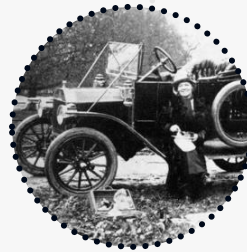
Harnessed
Energy



1870s

Steel &
Electricity

Expanded
Mobility



1920s

Automobiles &
Mass Production

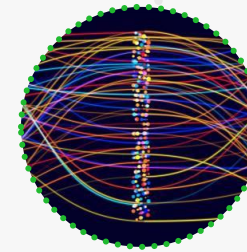
Unlocked Digital
Intelligence



1970s

The Digital
Revolution

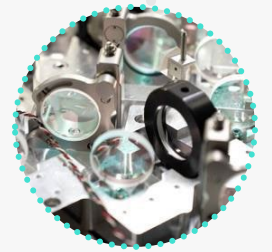
Intelligence



2020s

Artificial
Intelligence

Precision

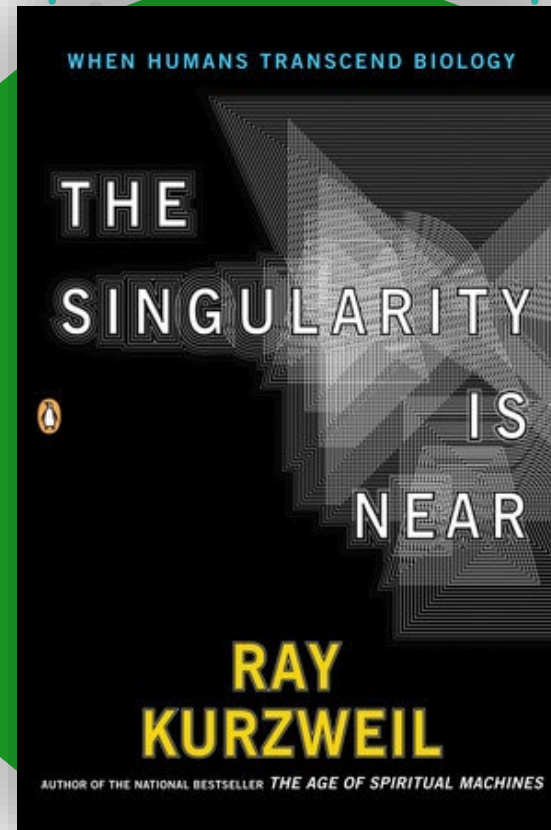


TODAY

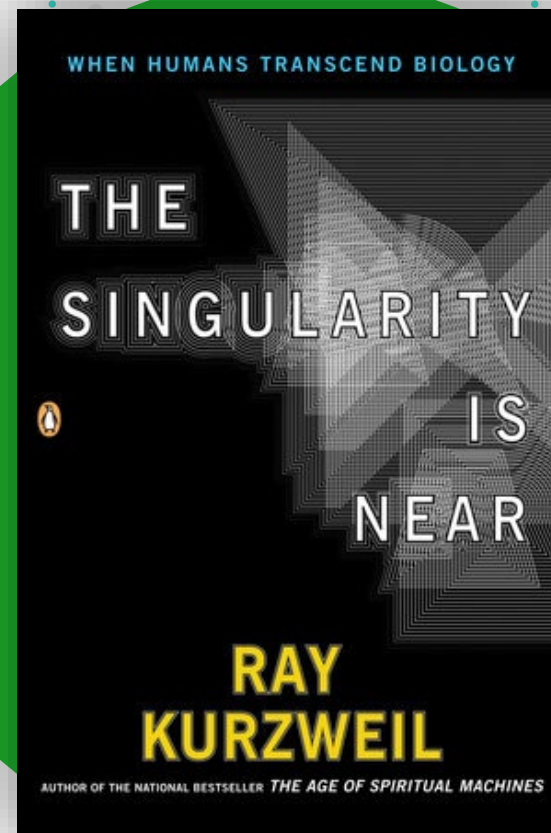
Quantum
Technologies

Quantum expands humanity's ability to measure and model reality using the same fundamental laws that govern nature.

The Singularity

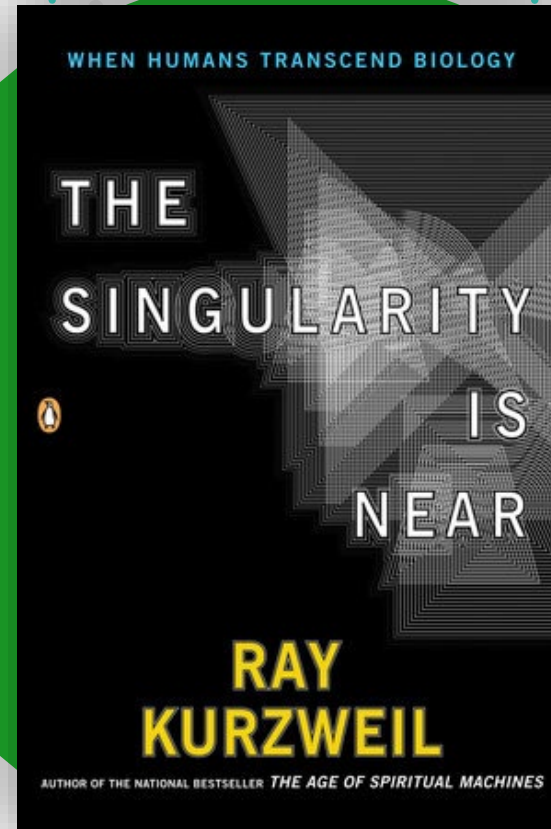


The law of **Accelerating Returns**



Thinking Exponentially

We think linearly, but progress actually **compounds**



The Early Part of an **Exponential** Curve Looks Linear



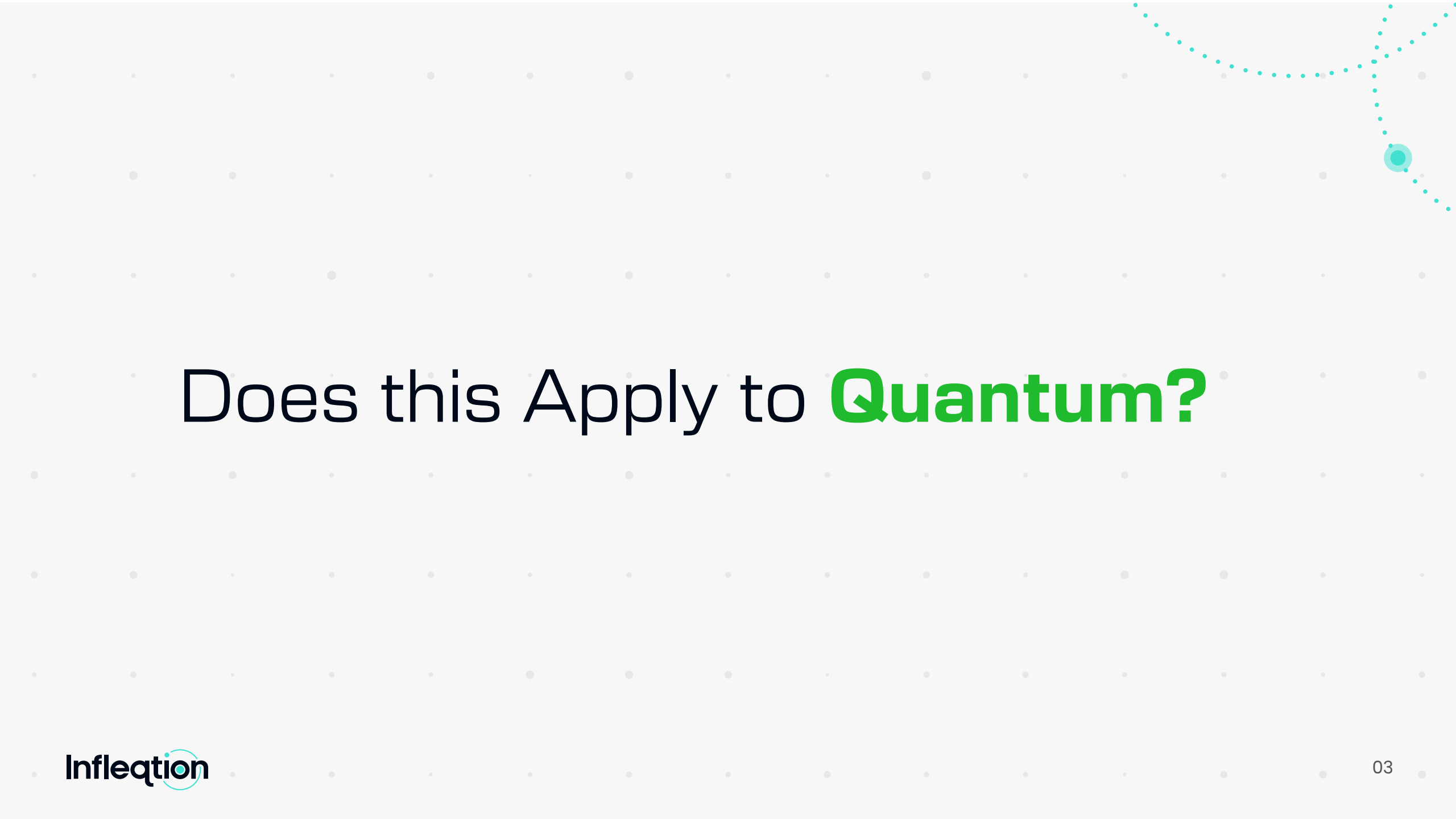
32x

Compounded Growth

6x

Linear Growth

We consistently
underestimate
technology



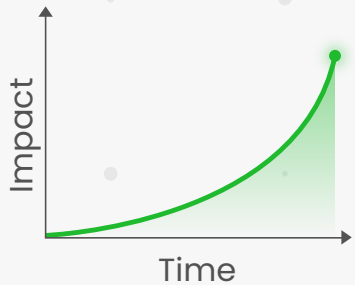
Does this Apply to **Quantum**?

Quantum Is Not a **Single Curve**



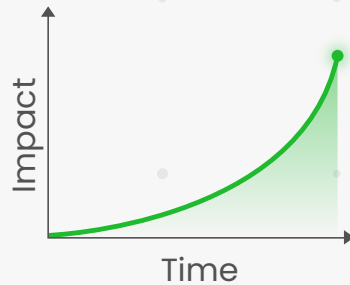
Quantum Hardware

More capable physical systems



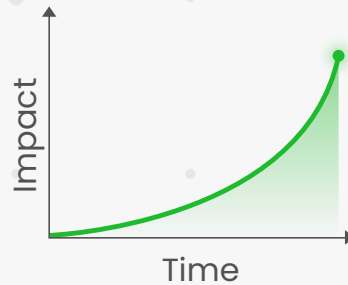
Error Correction

More reliable logical operations



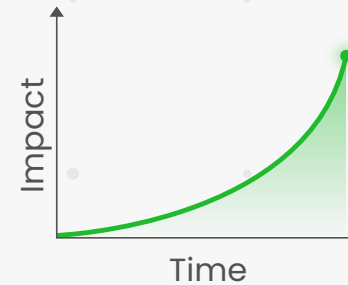
Software + algorithms

Lower application requirements



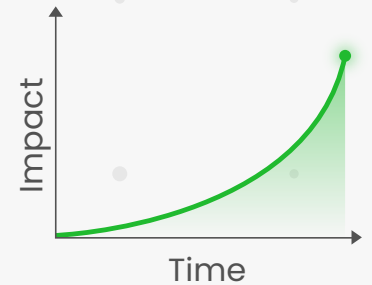
AI + classical compute

Control, decoding and hybrid workflows



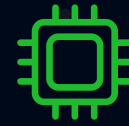
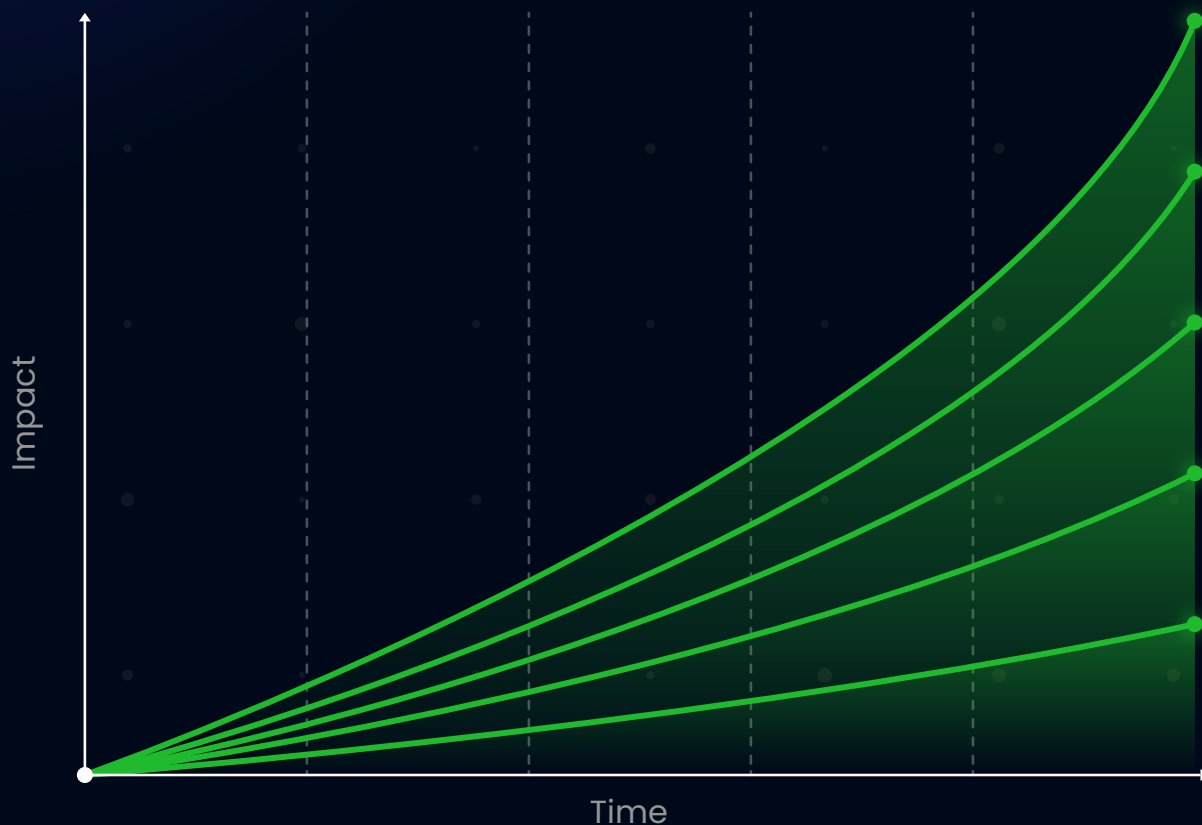
Capital + Customers

Problems, people and infrastructure



What happens when they move together?

The Curves Are Beginning to **Reinforce** One Another



Quantum Hardware

More capable physical & logical systems



Software & Algorithms

Lower application requirements



AI + GPUs + Classical Compute

Control, decoding, and hybrid workflows



Capital & Customers

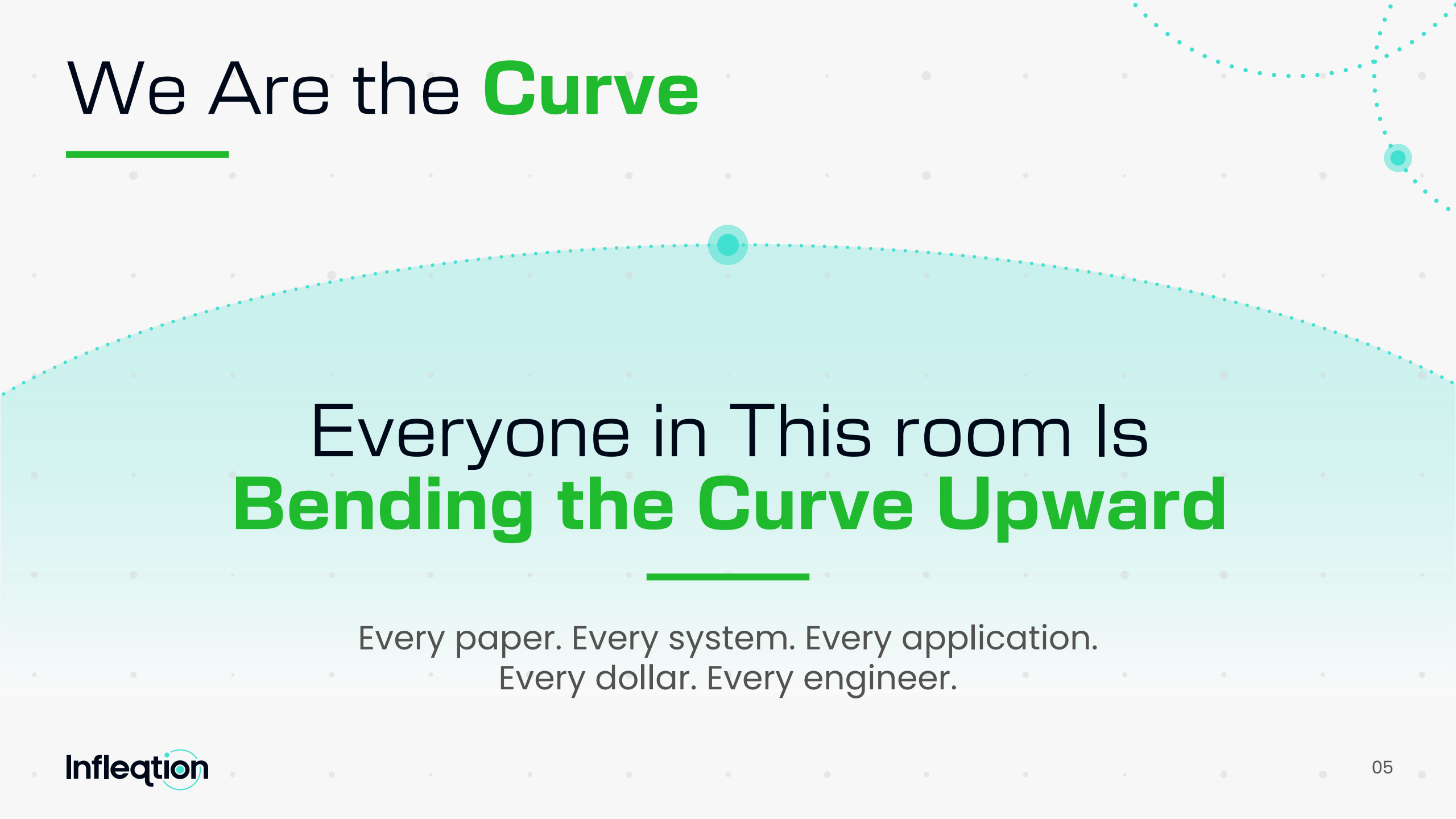
Infrastructure, Challenges, Financing



Talent & Teams

People, Companies

We Are the **Curve**



Everyone in This room Is **Bending the Curve Upward**

Every paper. Every system. Every application.
Every dollar. Every engineer.

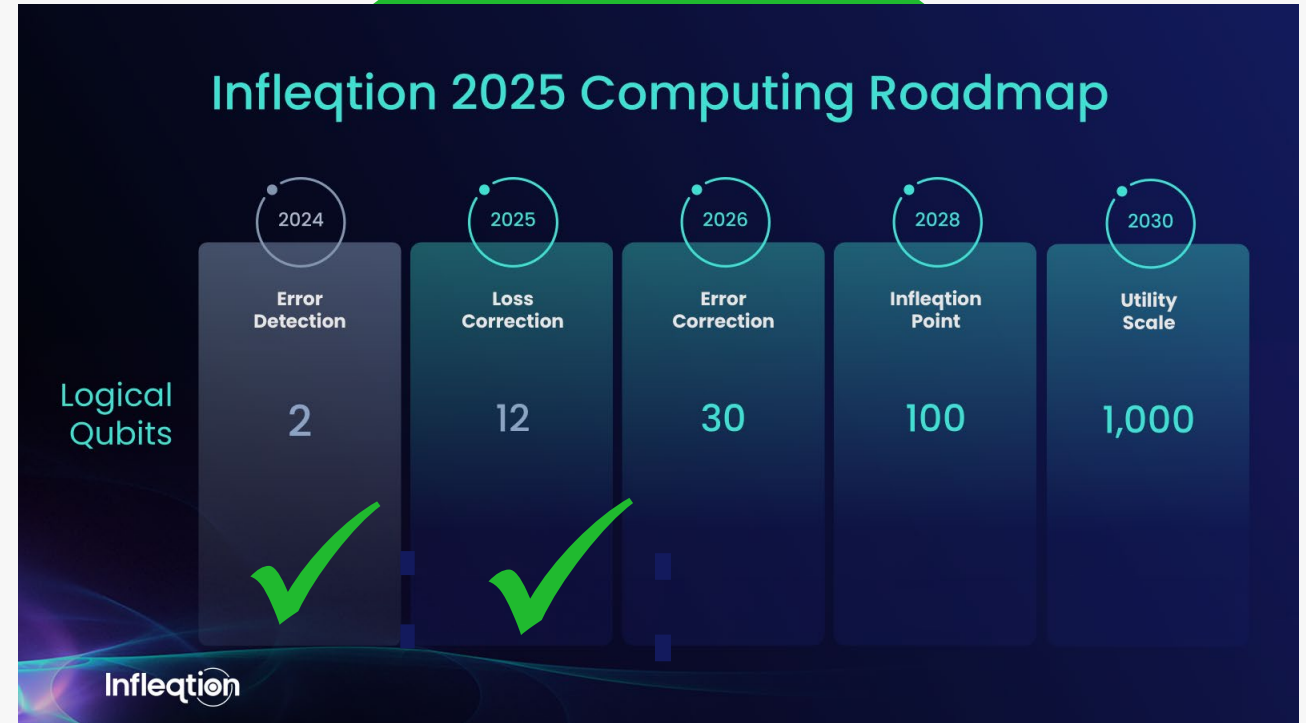
The Biggest Quantum Surprise

The Timeline

**Useful quantum may
arrive faster than we
think**

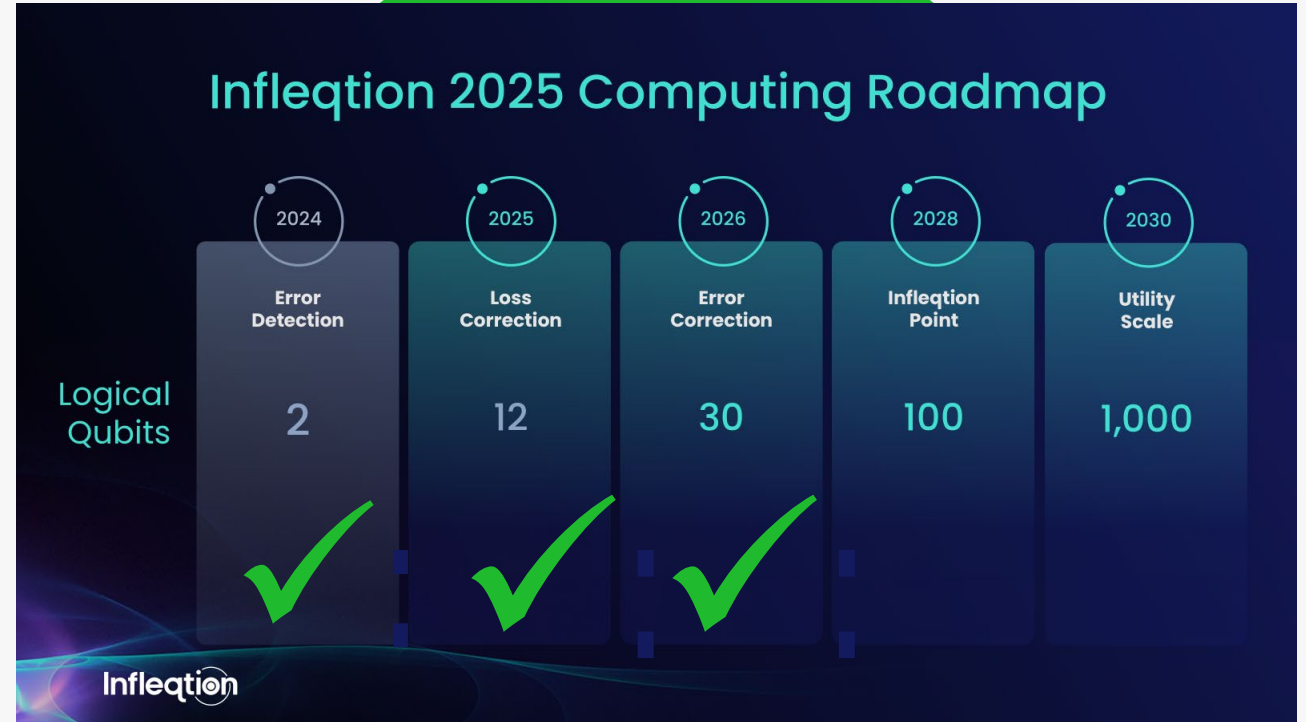
Our **Timeline** Sqale Roadmap

- ✓ 2024: **Delivered**
- ✓ 2025: **Delivered**



Our **Timeline** Sqale Roadmap

- ✓ 2024: **Delivered**
- ✓ 2025: **Delivered**
- ✓ 2026: **Delivered**





30

**logical qubits
a single entangled computation**

Demonstrated on Sqale

Quantum Progress in **Practice**

Pranav Gokhale

Chief Technology Officer &
GM Computing



30 Entangled Logical Qubits

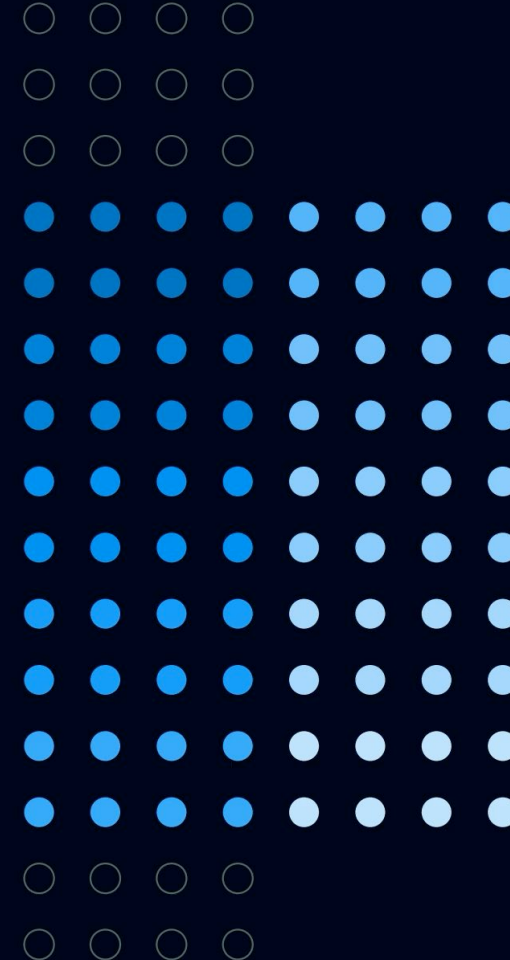
80 → 30

Physical Qubits

Logical Qubits

10 ×

$|0\rangle^{\otimes 30}$ encoded with $[[8, 3, 3]]$ error correction code.
Operated as $|+\rangle^{\otimes 30}$ w/ $[[8, 3, 2]]$ detection & loss correction code.



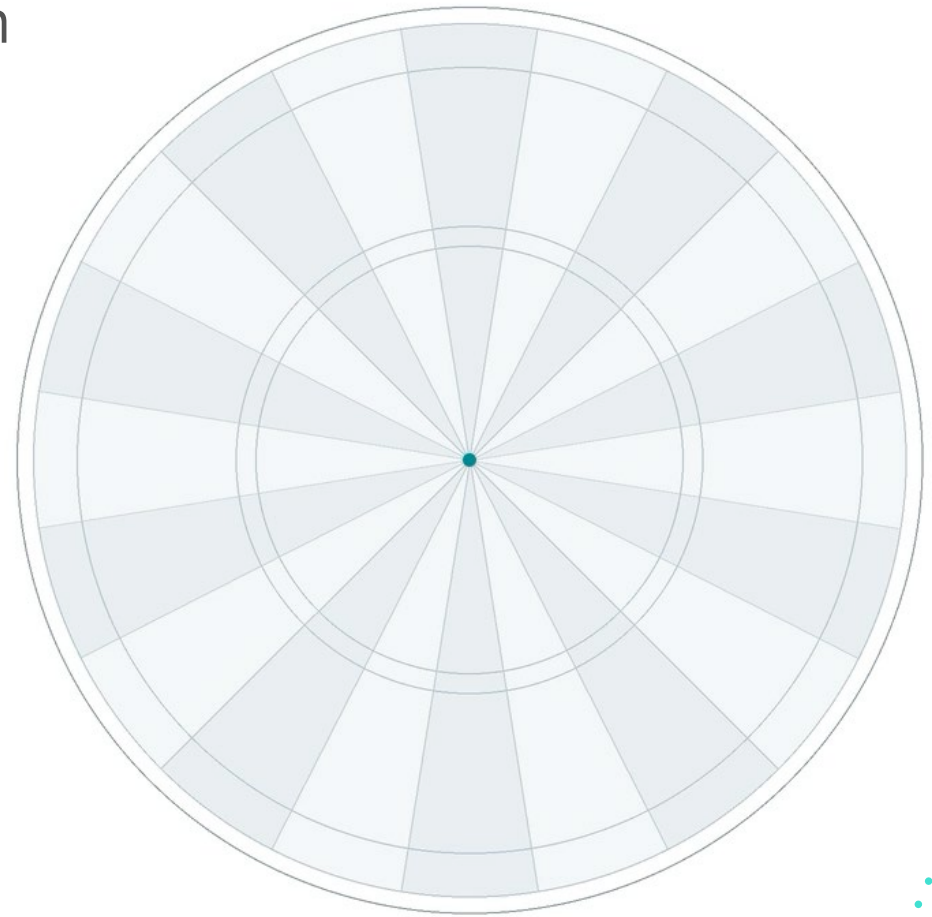
**Sqale architecture unites in-
place entanglement w/ all-to-all
connectivity**

Putting Logical Qubits **to the Test**

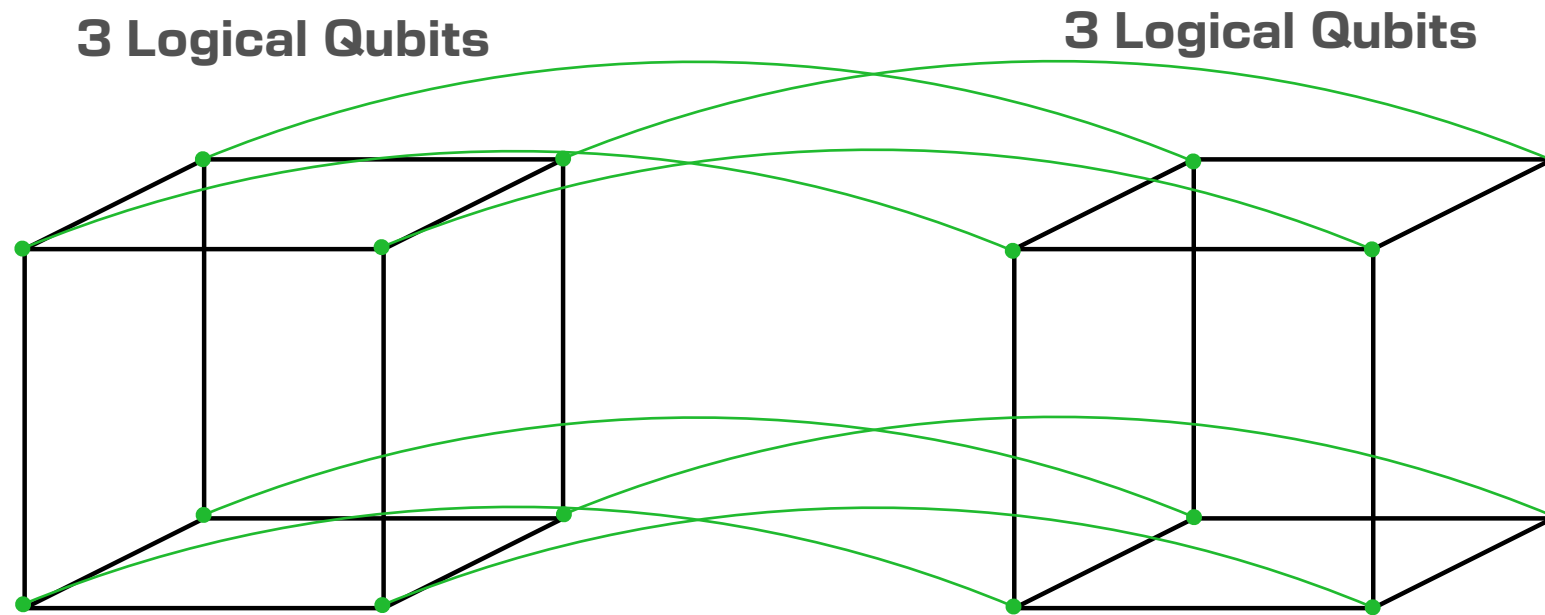
Output consistent with the ideal calculation

30 LQ signal strength vs. noise

~1000x

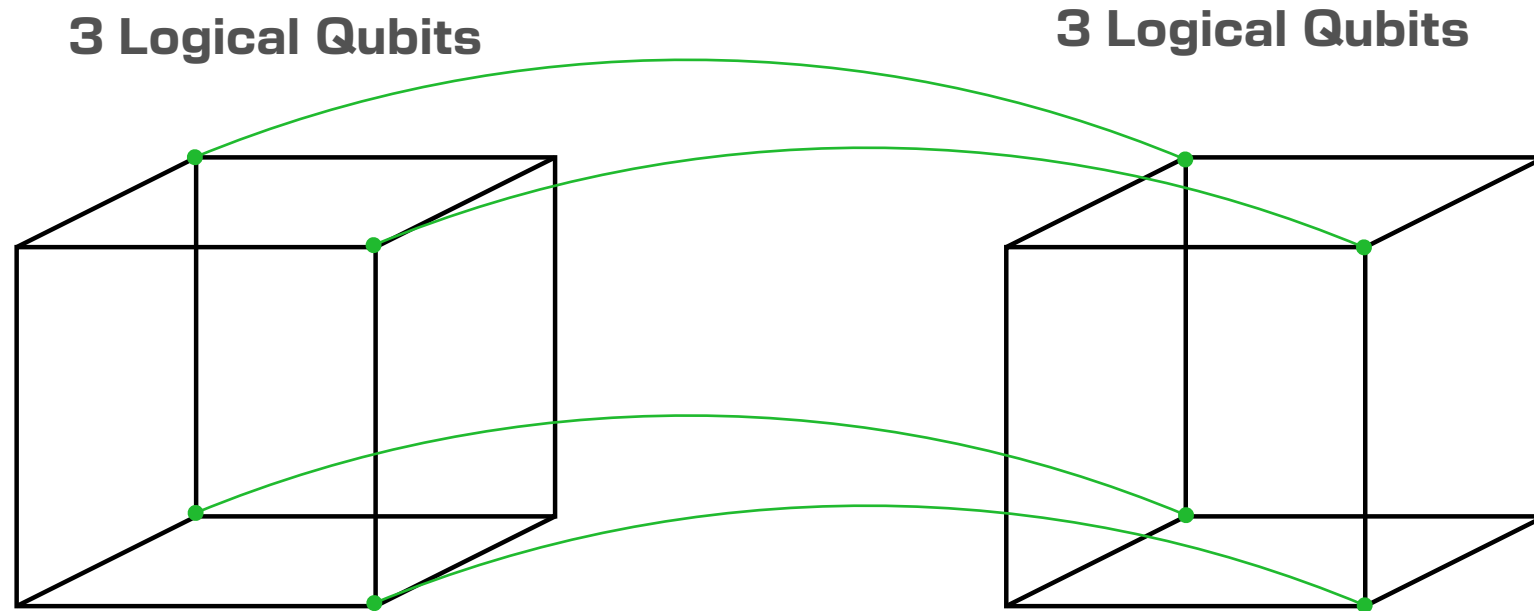


AI-Assisted Discovery of a **New Logical Gate**



Previously: required 8 physical 2Q gates to achieve logical entanglement

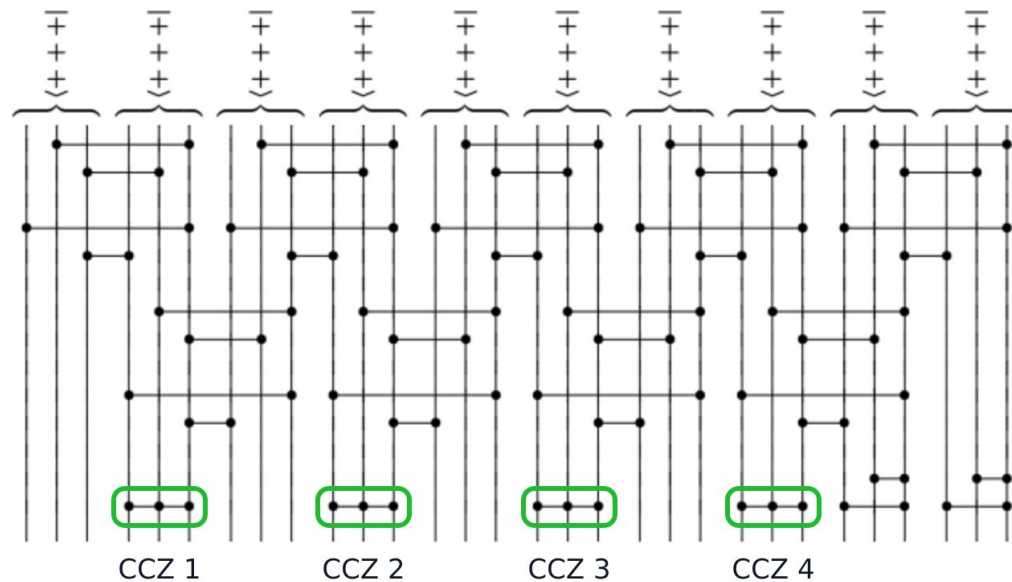
AI-Assisted Discovery of a **New Logical Gate**



Now: only 4 physical 2Q gates to achieve logical entanglement

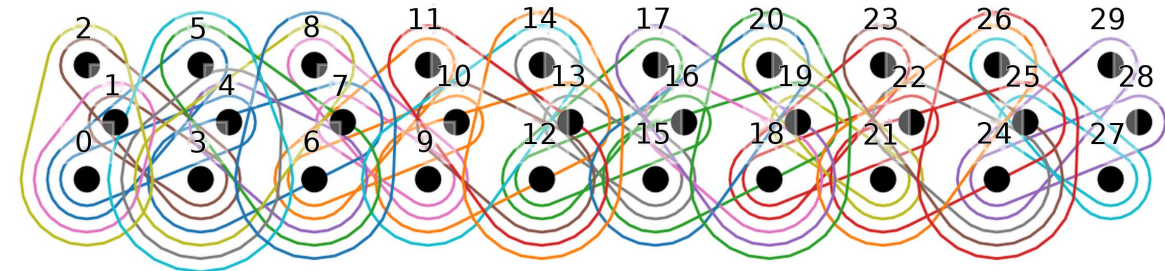
Non-Clifford Gates **Demonstrated**

30 Logical Qubit Circuit



Includes four logical CCZ gates

How the Logical Qubits Interact



Fine-tuning **Error Detection** to **Loss Correction**

Balancing Quality and Throughput

Error Detection

**High
accuracy**

Low throughput



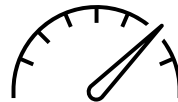
Fine-tuning **Error Detection** to **Loss Correction**

Balancing Quality and Throughput

Error Detection

**High
accuracy**

Low throughput



Loss Correction

4x throughput

Lower accuracy

Toward a Quantum **Neural Network**

Division of work between GPUs and QPUs

GPU

Training

Trained parameters



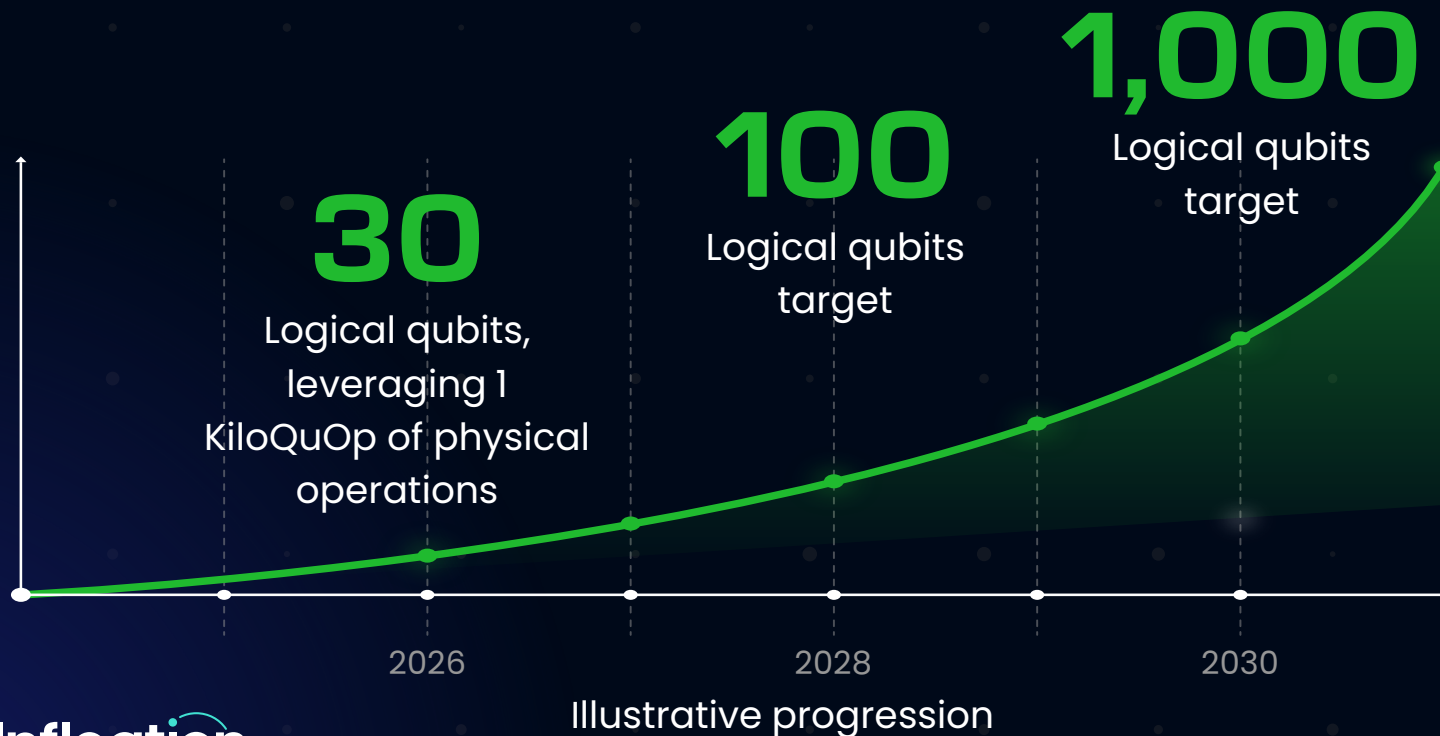
QPU

**Inference /
sampling**

Classical training, quantum execution

Climbing the Exponential Curve Of Quantum Computing

Next frontier: 1 MegaQuOp (1M Operations)



**Larger
Computations
Achieved**

Fundamental scaling
laws of QC:
exponential
improvement in
QuOps

Quantum Computing **Programs,** **Systems and Customers**

Government Programs



Department of Commerce \$100M investment



ARPA-E QC3 & Genesis Mission (3)

Computing Systems



National Quantum Computing Centre

First and Only 100 qubit machine



Operational QPU



50+ Logical Qubit System planned

Partners



3 customers for Sqaile logical circuits

Building toward quantum utility with customers globally

Infleqtion Is Helping **Bend the Curve**



1. Neutral-atom Systems
Control and logical-system engineering

2. Software
Compile, optimize, estimate resources

3. Applications
Customer problems shape experiments



We Are Bending **The Curve Together**

Useful quantum may arrive faster than we think