



Investor Day 2026

NEW YORK STOCK EXCHANGE

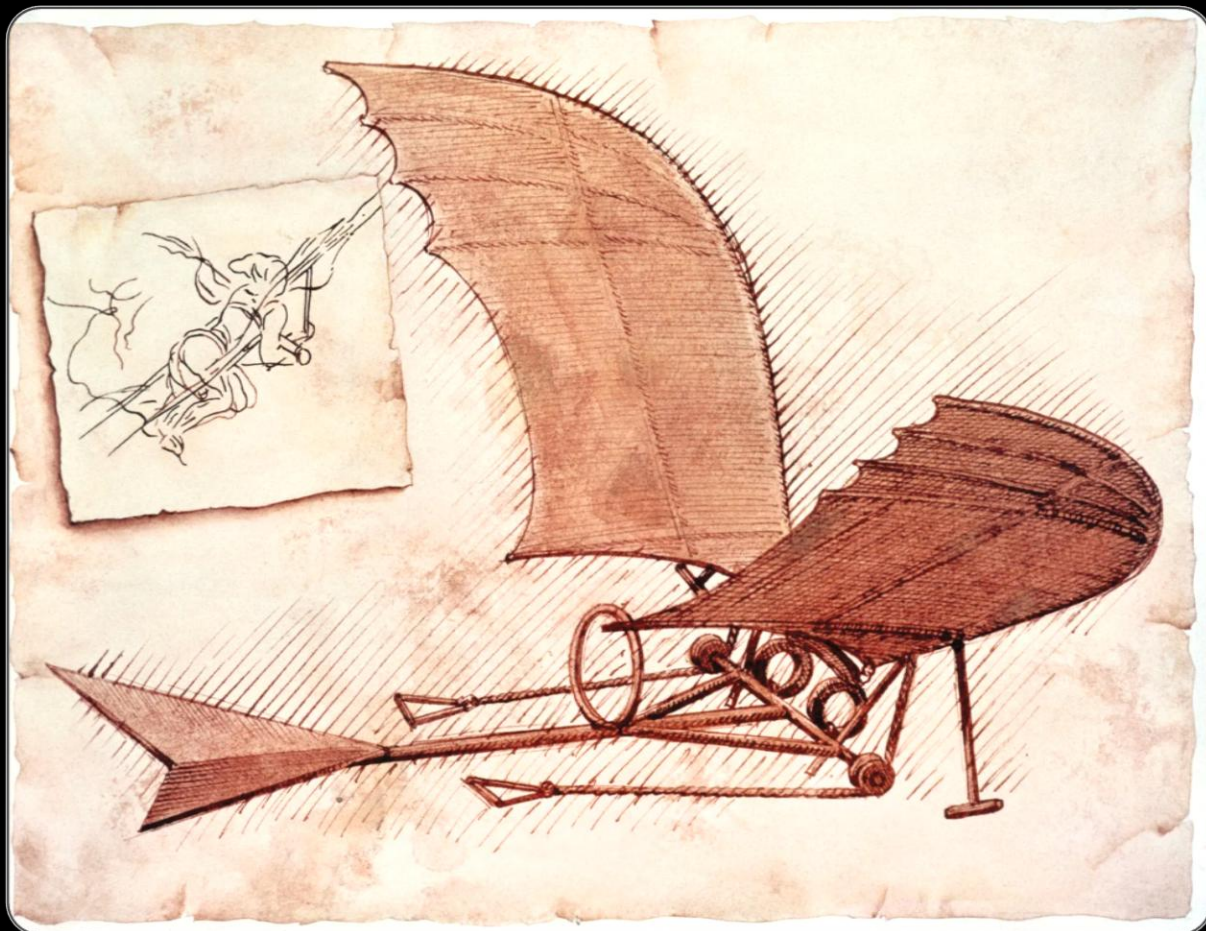
Sept. 8, 2026



Chad Sakac

SVP, QUANTUM FIELD ENGINEERING













INVENT

APPLY

ITERATE

SCALE

We are building the machine
that builds the machine



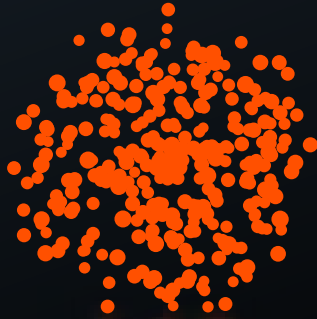
TIME TO SOLUTION: WHAT MATTERS TO CUSTOMERS

World Quantum Day, April 2026



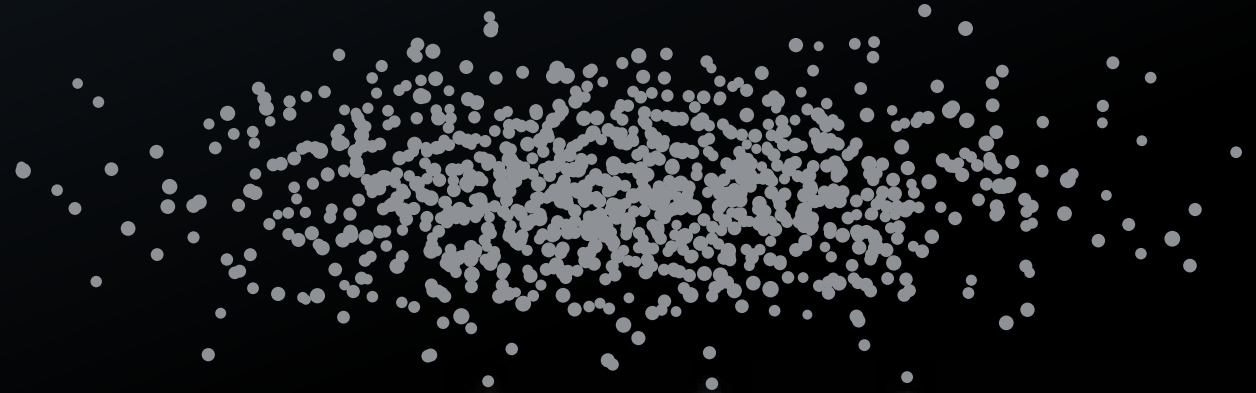
IONQ TRAPPED IONS

IonQ's trapped-ion fidelity cuts through the noise, finding the accurate answer with exponential efficiency.



SUPERCONDUCTING

Superconducting systems require millions of brute-force iterations to overcome inherent noise.





IONQ INDUSTRY LEADERS FOR COMMERCIAL IMPACT & DEPLOYABILITY

Orders-of-magnitude improvements across the metrics that matter based on durable foundations

UP TO
10,000x

Faster time-to-solution demonstrated on **enterprise-relevant workloads** where hardware specifications alone fail to predict commercial value.

Time-to-solution is **the commercial metric**. The clock starts at job submission and stops when a **verified, qualifying answer is returned, or the last shot is completed**. Compilation, quantum execution, error mitigation, and all classical co-processing count toward the total.



Verified by
KEARNEY

99.99%

**HIGH-FIDELITY
2-QUBIT GATE OPERATIONS**

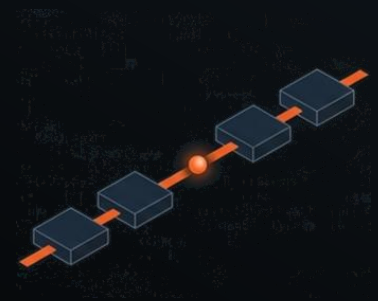
World-leading fidelity at our foundation yields more computational power at scale, due to the polynomial effects of lower error rates

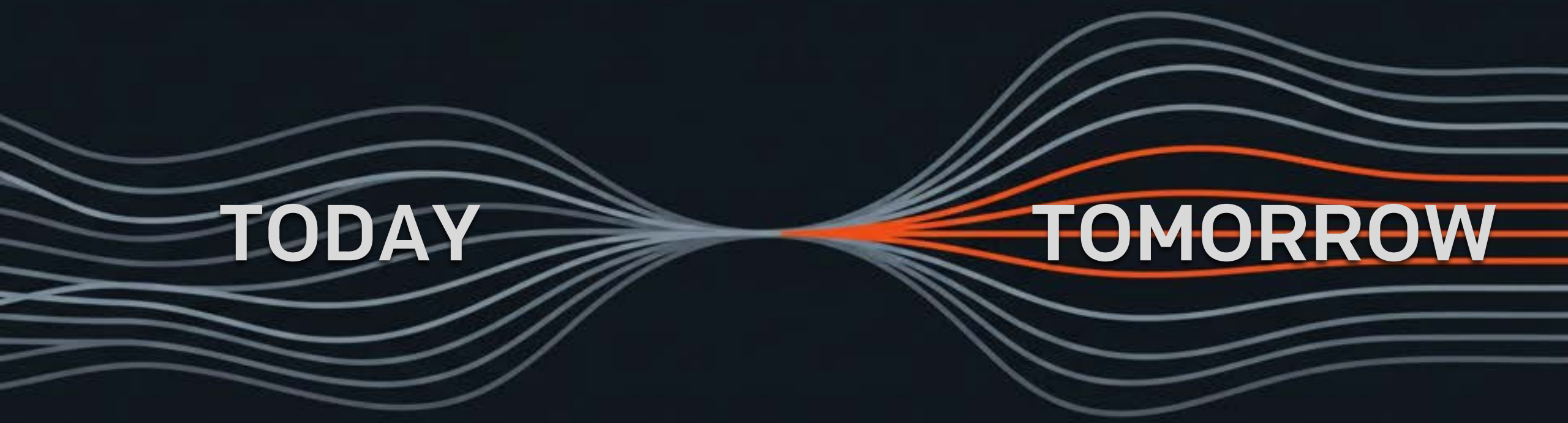


**Parallel-Gate
Architecture**

**WITH PROPRIETARY ELECTRONIC
QUBIT CONTROL**

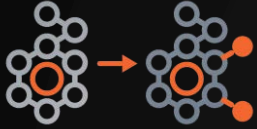
Bypasses complex lattice structure. Reliable qubit movement establishes long-range connections across the chip instantly





TODAY

TOMORROW



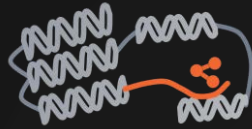
Computational Chemistry

DRUG DISCOVERY & MOLECULAR SIMULATION

Transition-metal catalysis & electron correlation

20x

> FASTER CATALYSIS TTS
THAN PRIOR WORK



Molecular Models & Active Sites

PROTEIN FOLDING, BINDING SITES & REVERSE CODON ENCODING

Counterdiabatic Quantum Optimization

12

AMINO ACIDS, AND AT
BREAKTHROUGH



Manufacturing Optimization Pipeline

SENSITIVE SUPPLY CHAIN LOGISTICS OPTIMIZATION

Constrained combinatorial optimization

EFFICIENCY

HUGE COST IS IN THE SUPPLY CHAIN AND OPTIMIZATION IN
LAB/BIOREACTORS/AUTOMATION



einride



Pattern Detection

fMRI, MEDICAL IMAGING, AEX CHROMATOGRAPHY, CLINICAL DATA

Sparse-data, high-dimensional features, QML, AI + Q

Identify

RARE EVENTS & PATTERNS
60+% of costs are in steps like AEX



IEEE Quantum 2026: 10 accepted papers and 4 best paper wins out of 27. A 3.7σ event



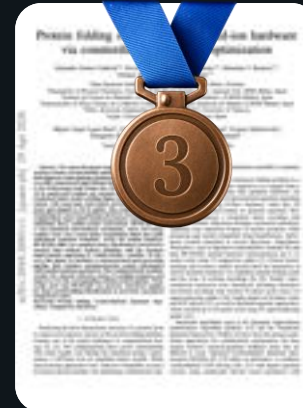
WHAT AI + Q = better accuracy,
better power efficiency

**BEST
PAPER** Quantum
applications track



Linear Algebra Hybrid
workflows

Quantum end-to-end
hybrid case studies track



Next-Gen Protein Folding
on Tempo-generation HW

Quantum end-to-end
hybrid case studies track



DQAOA-GPT. AI making
Quantum better

Quantum-GenAI co-design
& co-discovery track

WITH OUR
PARTNERS &
CUSTOMERS



QuantumBasel



SYNOPSYS®



KIPU
QUANTUM



OAK
RIDGE
National Laboratory



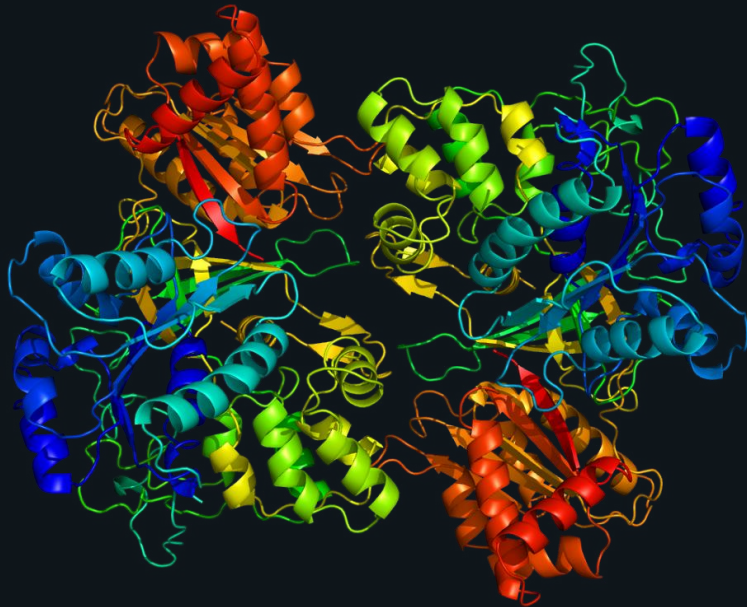
TODAY

TOMORROW



IONQ

TIME TO SOLUTIONS -> TIME TO VALUE -> ECONOMICS TO VALUE



This is a
\$300M / year
compute problem
.. and you need
throughput =
parallelism

<https://arxiv.org/pdf/2502.15882>

~days-weeks

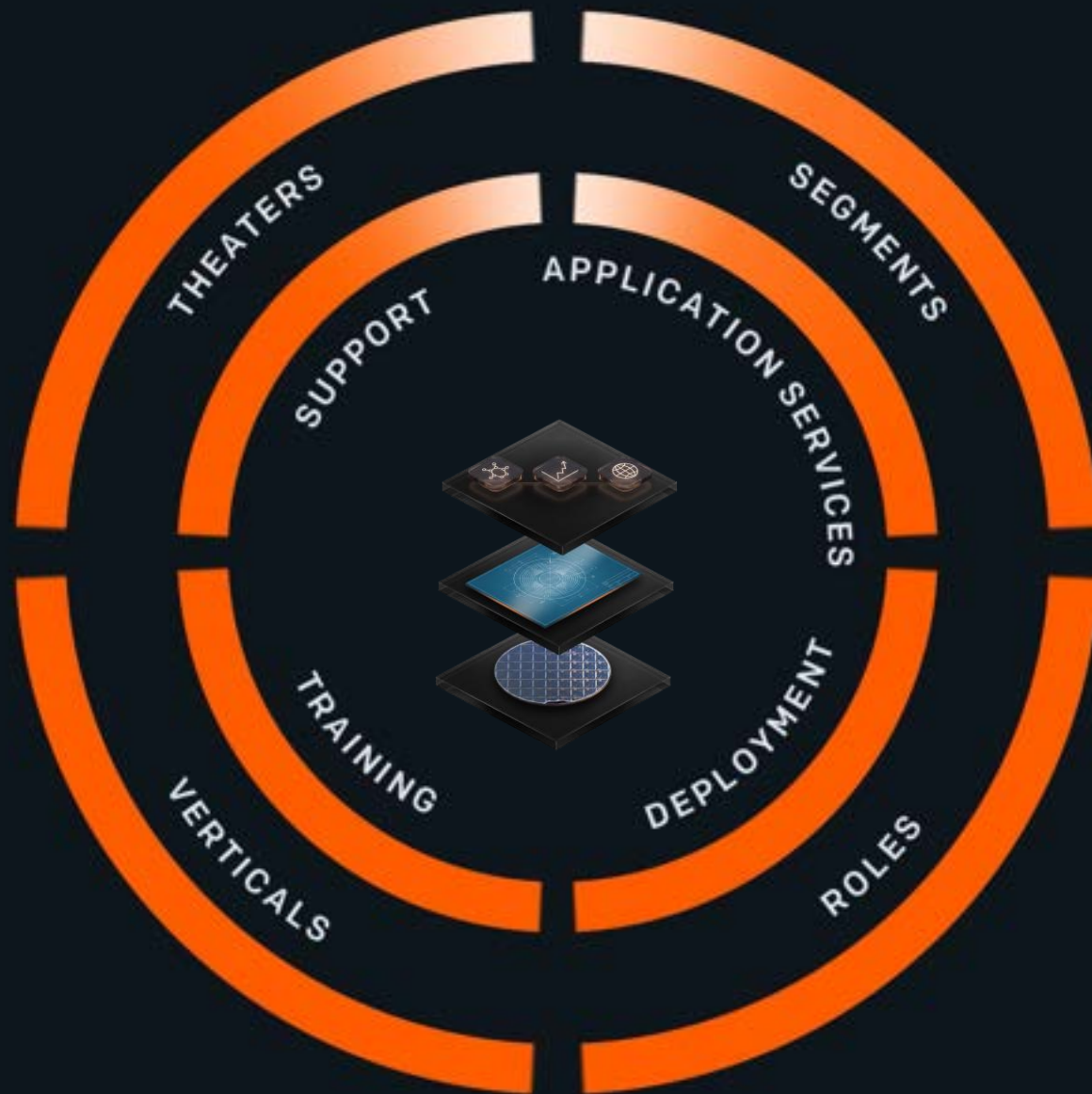
TO RUN

~1300-5000

LOGICAL QUBITS

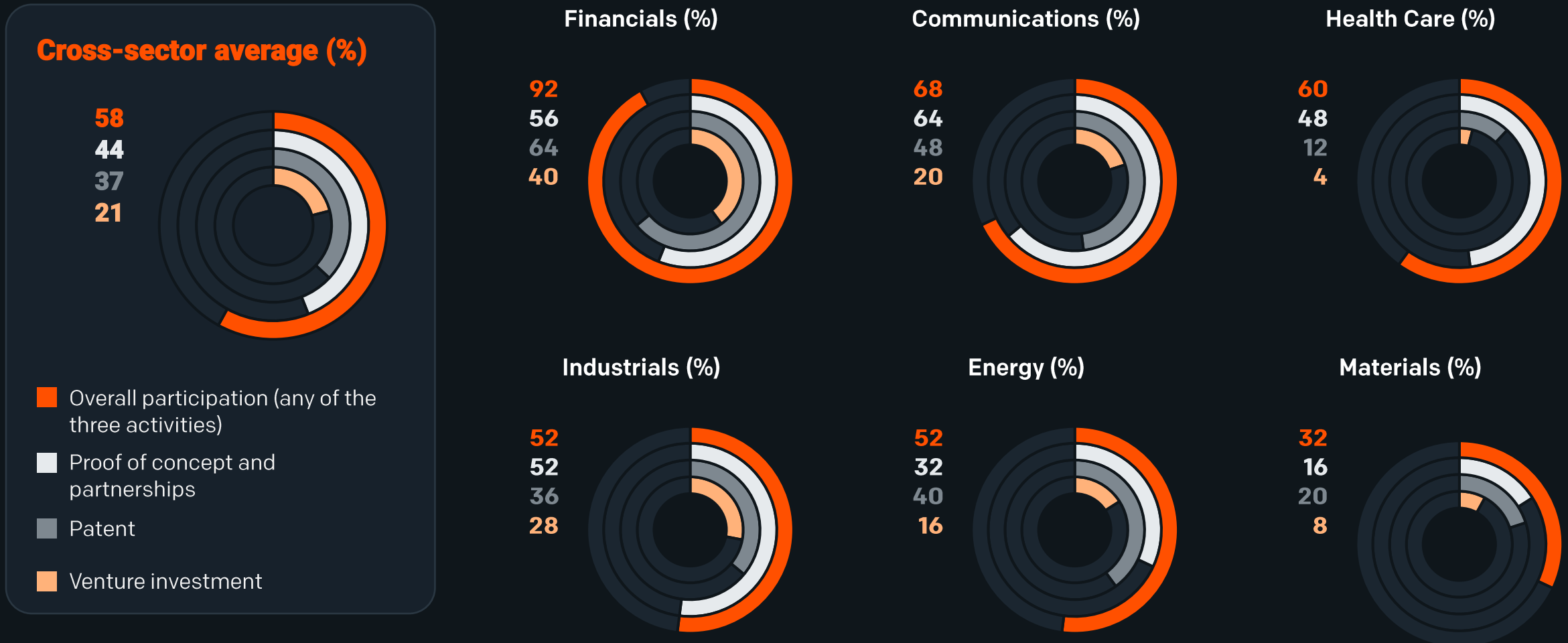
~ 400M – Billion+

TOFFOLI GATES



IONQ COMMERCIAL ADOPTION IS ACCELERATING

Nearly 60% of market leaders are committing capital & securing IP



IONQ ITERATE: THE TEAM BEHIND OUR MACHINE

Listening – across verticals and theaters

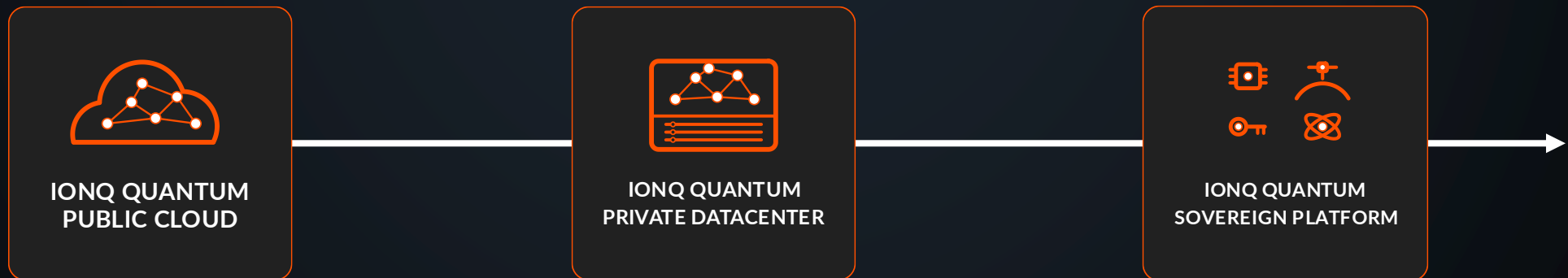




CHOICE OF HOW.



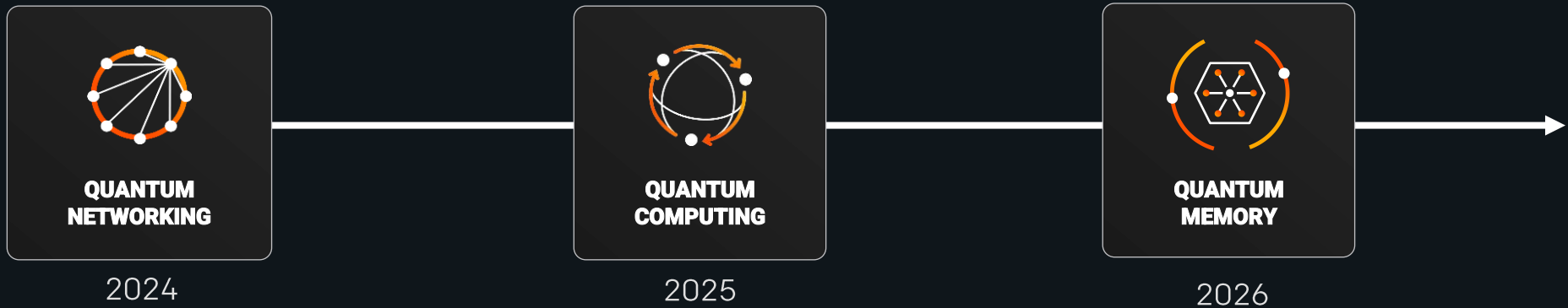
CHOICE OF WHERE.



GROWING WITH US OVER GENERATIONS.



GROWING WITH US OVER THE PLATFORM.



And collaborative application development throughout



INVENT

APPLY

ITERATE

SCALE

We are building the machine
that builds the machine



Important Information

FORWARD-LOOKING STATEMENTS AND OTHER INFORMATION

This presentation contains forward-looking statements. All statements other than statements of historical fact are forward-looking statements, including but not limited to statements regarding our guidance for the financial performance of our business and certain of its components, our quantum computing roadmap including expected changes in the cost per qubit, the scaling of our manufacturing and operations including potential acceleration with SkyWater, the timeline to breaking encryption, expectations surrounding the future of the global quantum market, our competitive position, and the applications of our technology. In some cases, you can identify forward-looking statements because they contain certain words such as “anticipate,” “believe,” “close,” “confident,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “plan,” “potential,” “predict,” “project,” “should,” “will,” “would” or the negative of these words or other similar terms or expressions. Forward-looking statements are subject to various risks and uncertainties. Accordingly, there are important factors that could cause actual outcomes or results to differ materially from those indicated in these statements. Moreover, new risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this presentation. The results, events and circumstances reflected in the forward-looking statements made herein may not be achieved or occur, and actual results, events or circumstances could differ materially from those described in the forward-looking statements. Given these risks and uncertainties, you are cautioned not to place undue reliance on any forward-looking statements. For additional information on these and other factors that could cause our actual results to differ materially from those set forth in the forward-looking statements contained in this presentation, please see our Annual Report on Form 10-K for the year ended December 31, 2025 and our Quarterly Report on Form 10-Q for the quarter ended June 30, 2026 filed with the Securities and Exchange Commission. All information contained herein speaks only as of the date of this presentation, except where otherwise stated. Except as required by law, we undertake no duty to update or revise the information contained herein, publicly or otherwise, including any forward-looking statements.

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