



Investor Day 2026

NEW YORK STOCK EXCHANGE

Sept. 8, 2026



Chris Ballance

PRESIDENT, QUANTUM COMPUTING



IONQ COMMERCIALIZATION MOMENTUM

1st

Generation

HARMONY
2019



2nd

Generation

ARIA
2021



3rd

Generation

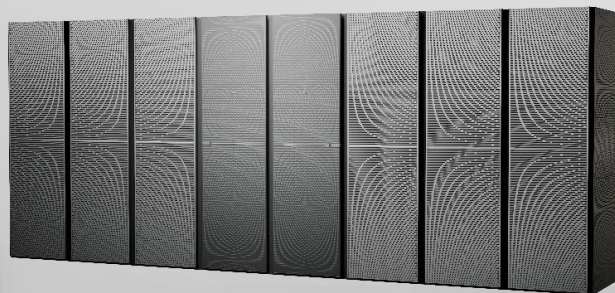
FORTE
2023



4th

Generation

FORTE ENTERPRISE
2024



5th

Generation

TEMPO
2025



25

COUNTRIES WITH
CUSTOMERS WHO HAVE
RUN WORKLOADS

33,000+

LIFETIME HOURS OF CLOUD UPTIME

1,200+

PATENTS GRANTED AND
PENDING WORLDWIDE

FULL STACK
QUANTUM PLATFORM



COMPUTE



SENSING



NETWORKING



SECURITY

100%

2026E Y/Y ORGANIC REVENUE GROWTH¹

1. Organic revenue is a supplemental measure representing revenue derived from IonQ's quantum computing products, and any acquisitions prior to December 31, 2024



ALL 3

MAJOR PUBLIC CLOUD DEPLOYMENTS

99.999%

2 QUBIT GATE FIDELITY²

2. Technical paper released October 2025; <https://arxiv.org/abs/2510.17286>

\$350m+

LIFETIME REVENUE

5

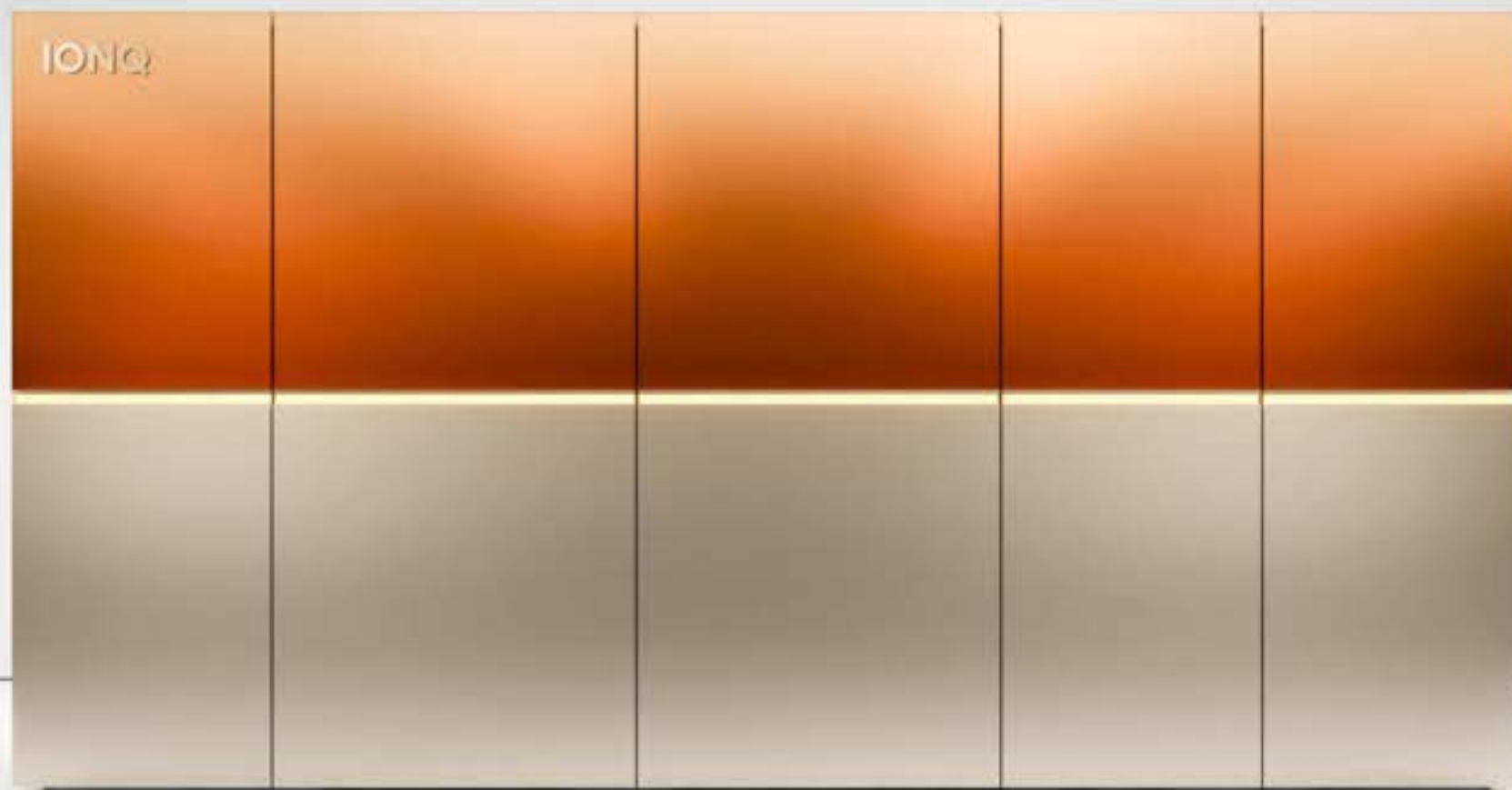
GENERATIONS OF COMMERCIAL SYSTEMS

3 DEMONSTRATE SCALE
with the core platform,
across multiple generations,
to enable applications that
couldn't exist before

2 VERTICALLY INTEGRATE
to accelerate innovation
cycles and enable
manufacturability

1 RADICALLY SIMPLIFY
the platform enabling
new levels of scale and
repeatability

IONQ SUPERION





IONQ SCALING THE SUMMIT TO FAULT TOLERANCE

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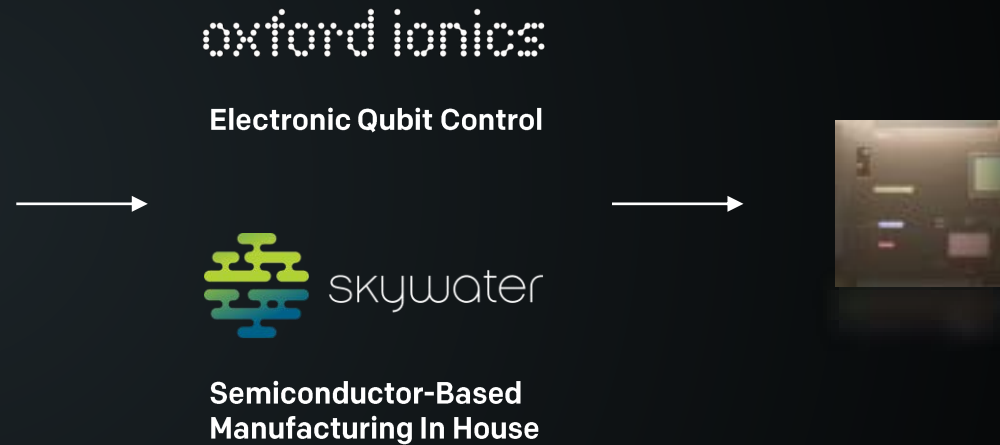
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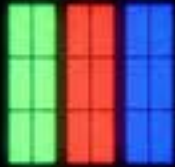
IONQ RADICAL SIMPLIFICATION: ELECTRONIC QUBIT CONTROL (EQC)



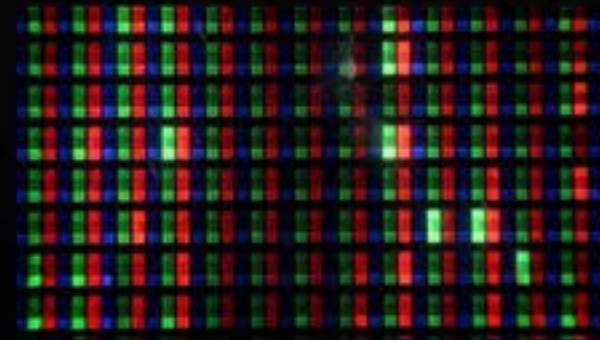
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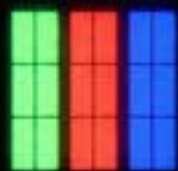
SINGLE LED PIXEL



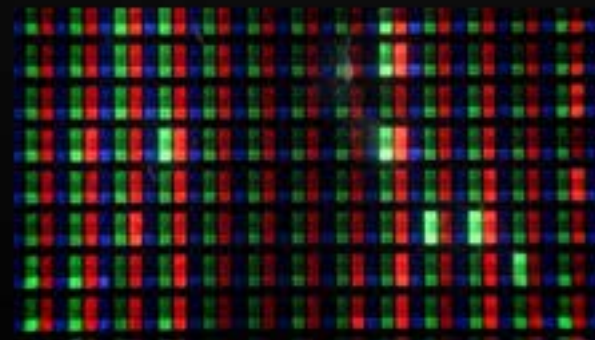
LED PIXEL ARRAY



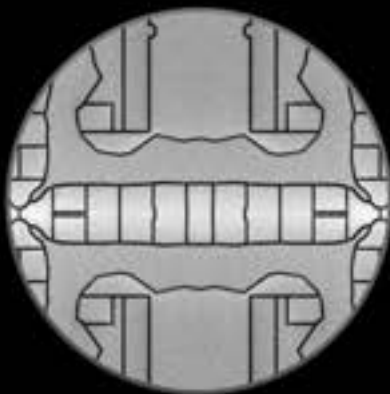
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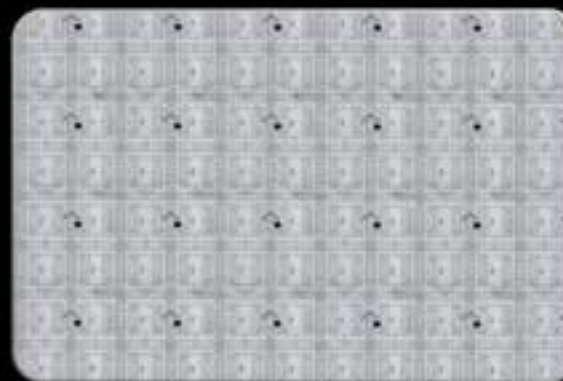
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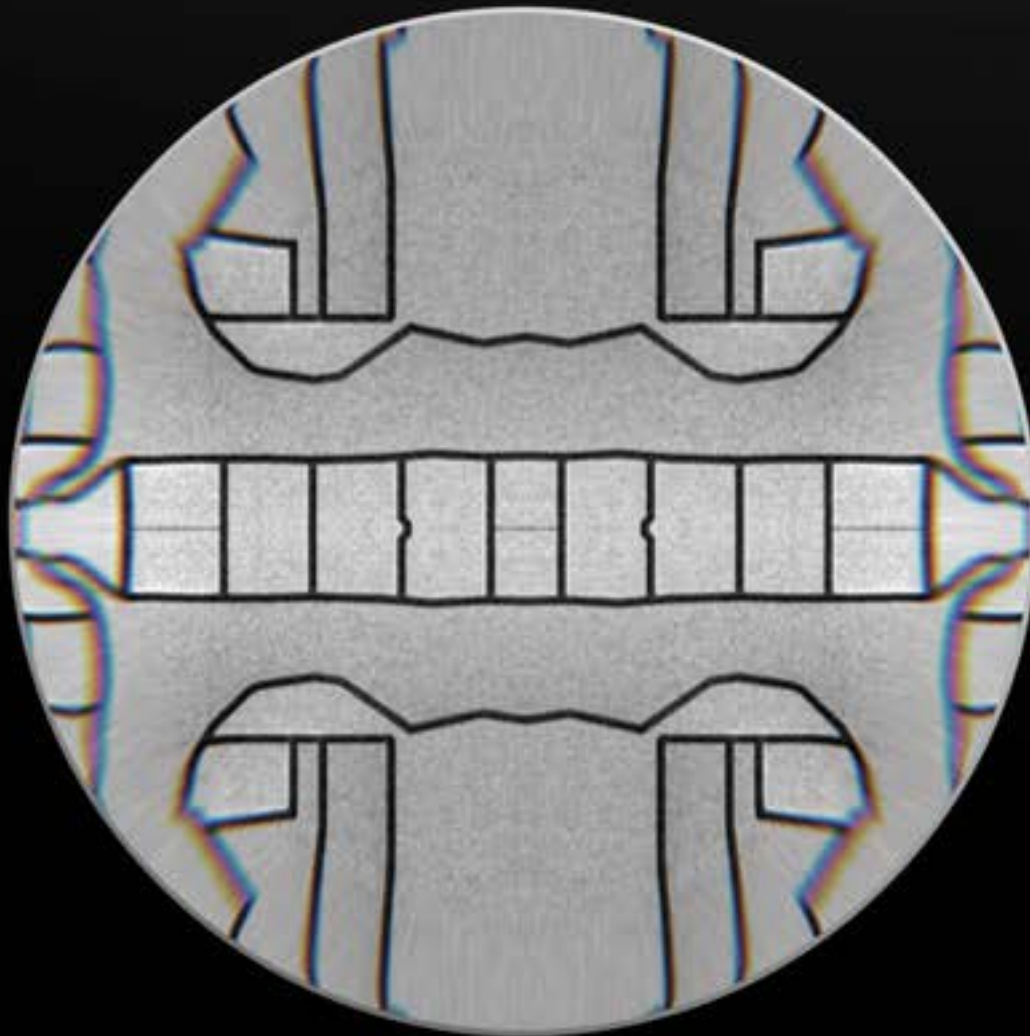


UNIT CELL

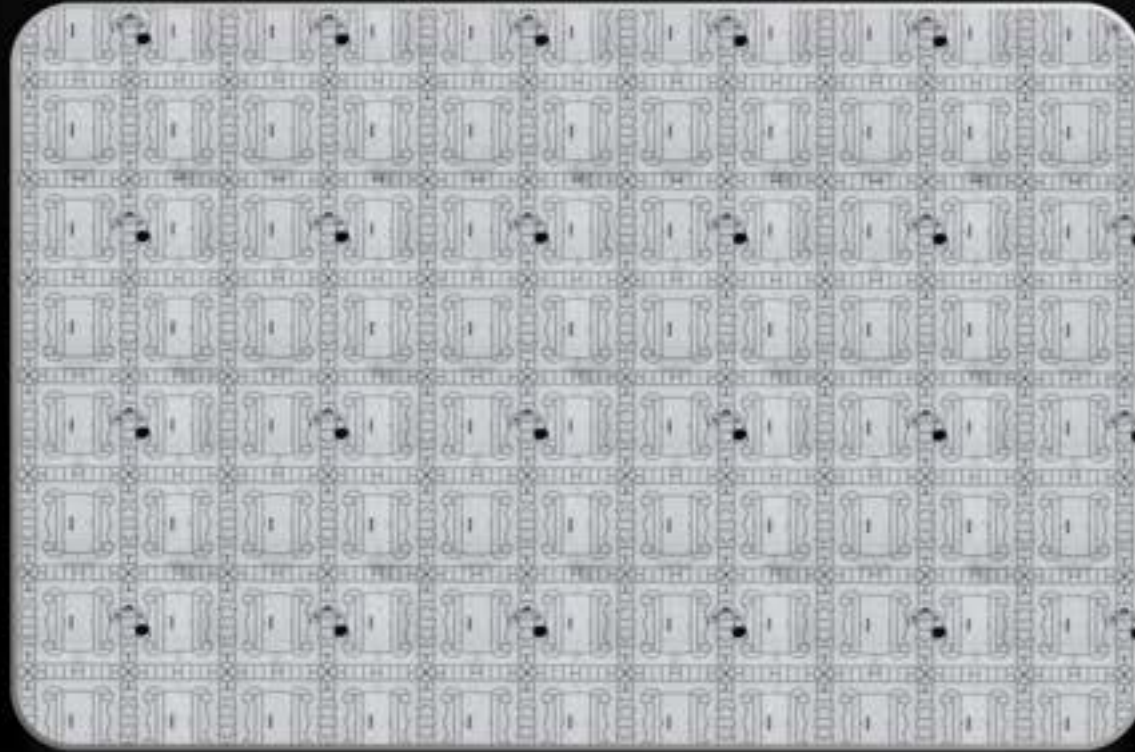


UNIT CELL ARRAY

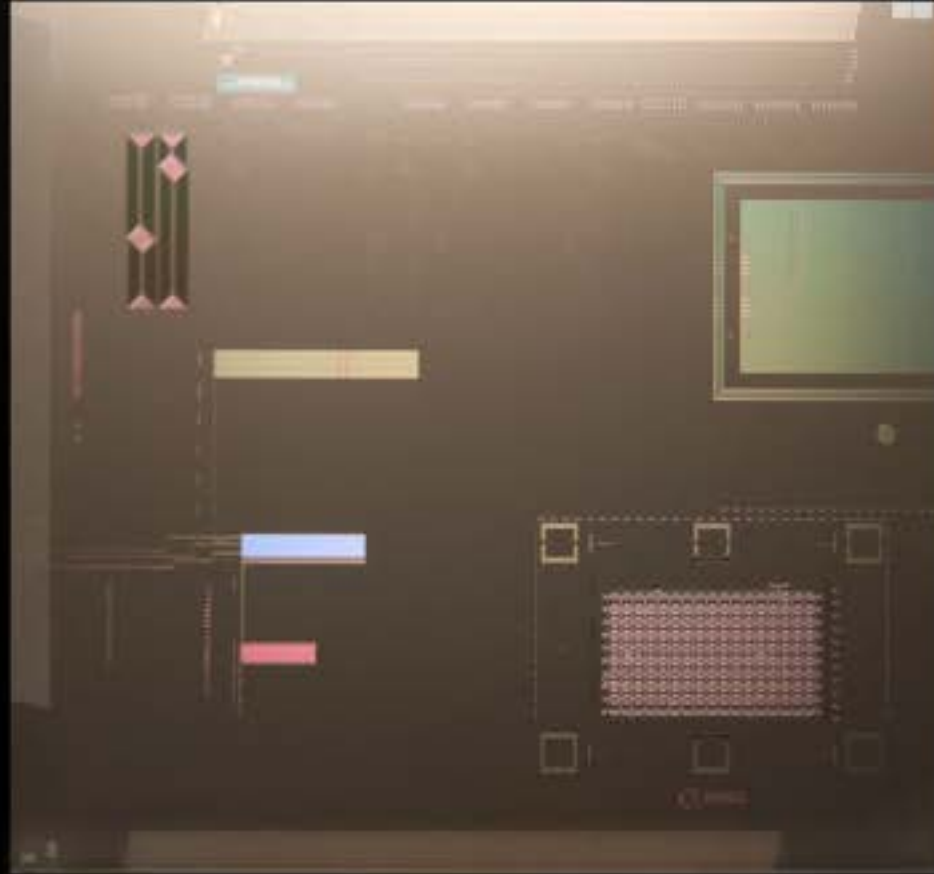




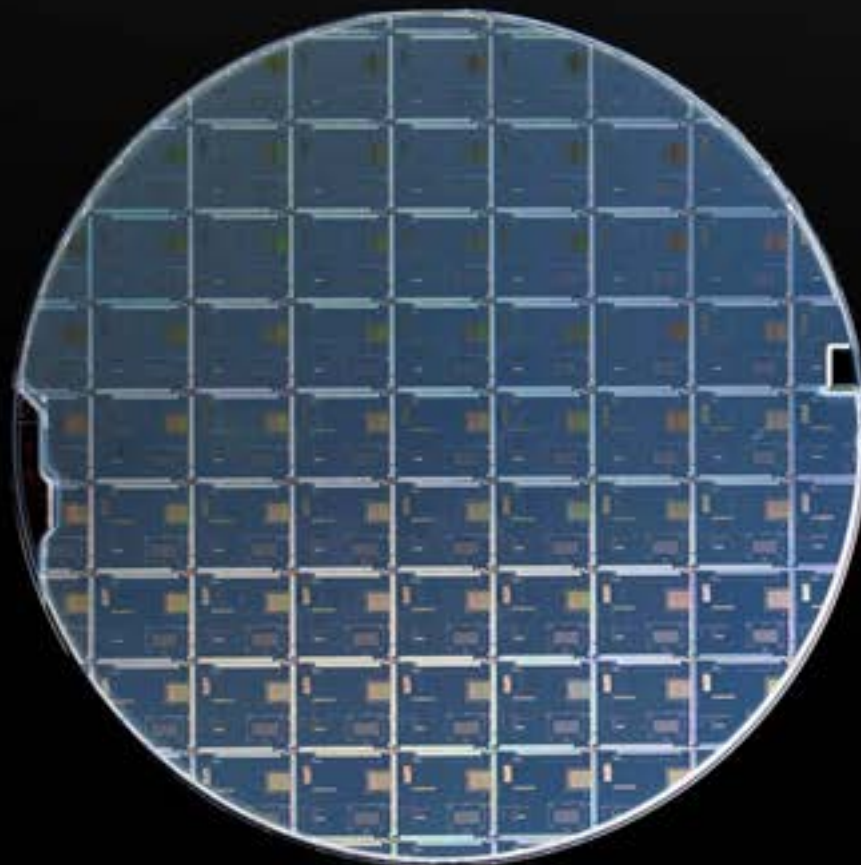
Unit Cell
99.99%
2 qubit gate fidelity



Unit Cell Array



256Q Chip



256Q Wafer



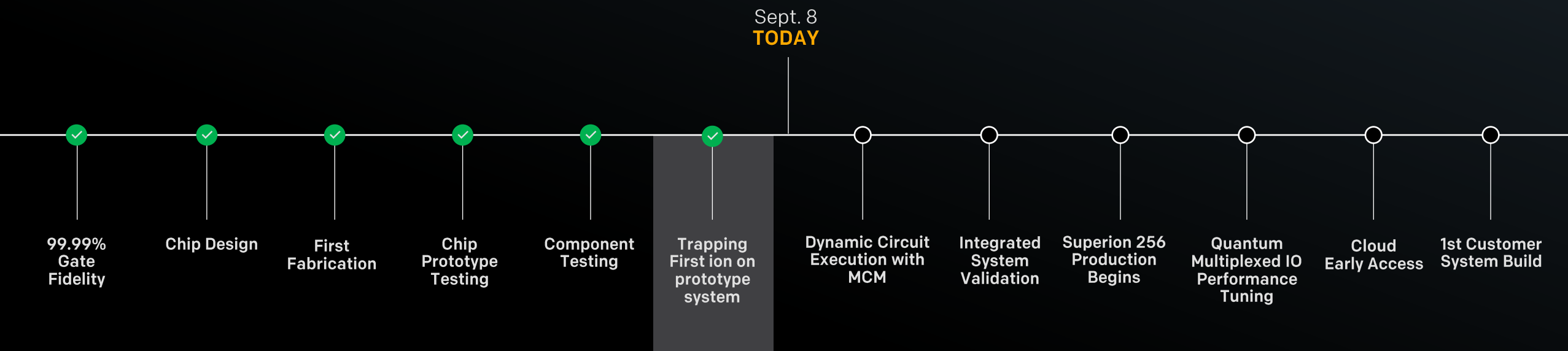


256 QPU

IONQ SUPERION 256 PROTOTYPE SYSTEM



IONQ THE PATH TO DEPLOYING IONQ SUPERION 256





IONQ SCALING THE SUMMIT TO FAULT TOLERANCE

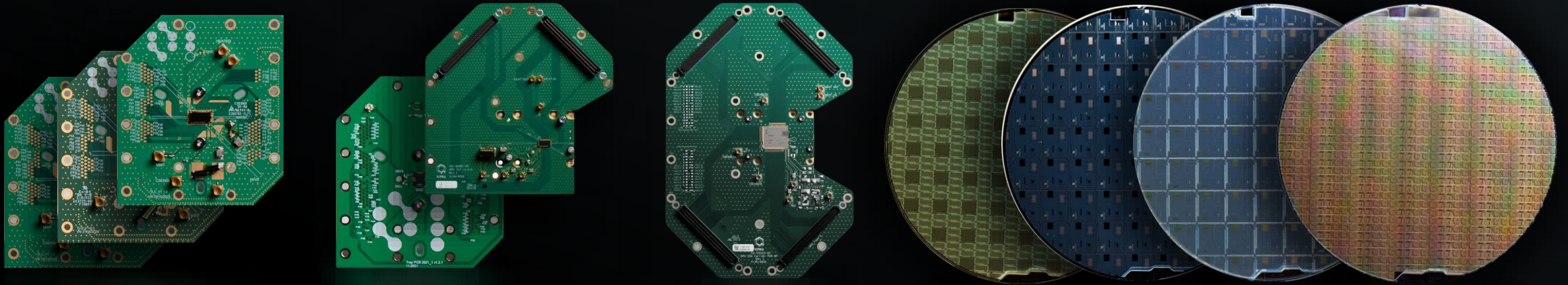
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IONQ VERTICAL INTEGRATION = RAPID ITERATION



IONQ VERTICAL INTEGRATION = RAPID ITERATION



100+

LEARNING CYCLES PER
YEAR EXPECTED

12x

MORE WAFER LOTS
DELIVERED¹

330x

REDUCTION IN
COST-PER-QUBIT²

9 → 2

MONTHS MONTHS
256Q CHIP CYCLE TIMES

1. Figure based on a per six-month period with SkyWater, as compared to lots delivered in our previous ion-trap fabs

2. Between second generation (Aria) and forthcoming seventh generation Superior 10K

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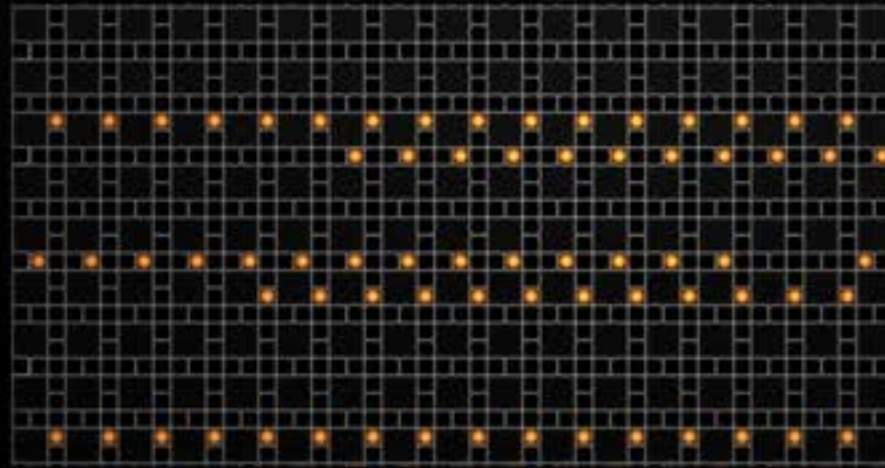
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256 qubits



OUR BLUEPRINT FOR SCALE:
WALKING CAT

The most detailed full-
stack quantum
computing architecture



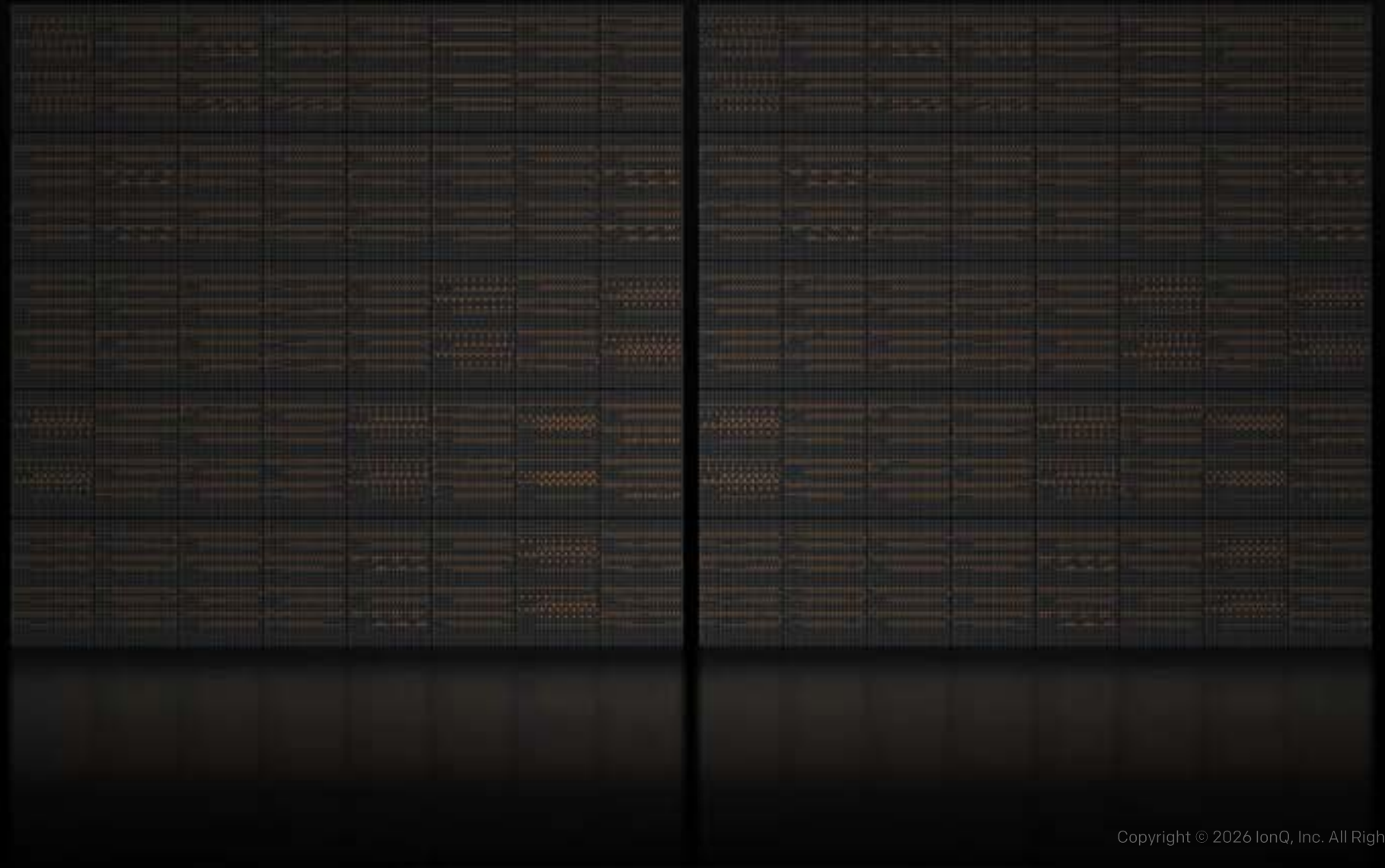
10,000 qubits

SCALING TECHNIQUE: CMOS



20,000 qubits

SCALING TECHNIQUE: TILING



200,000 qubits

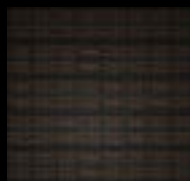
SCALING TECHNIQUE:
DIE SHRINK



IONQ SIMPLE, SCALABLE, AND MASS MANUFACTURABLE



256 qubits



10K qubits

SCALING TECHNIQUE

CMOS



20K qubits

SCALING TECHNIQUE

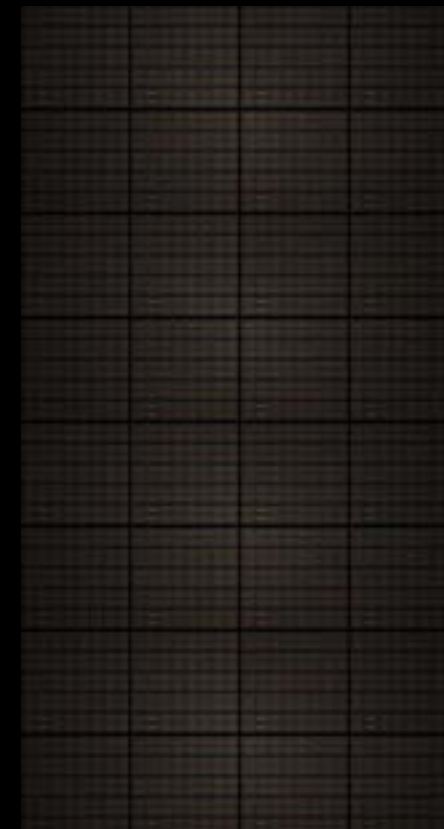
TILING



200K qubits

SCALING TECHNIQUE

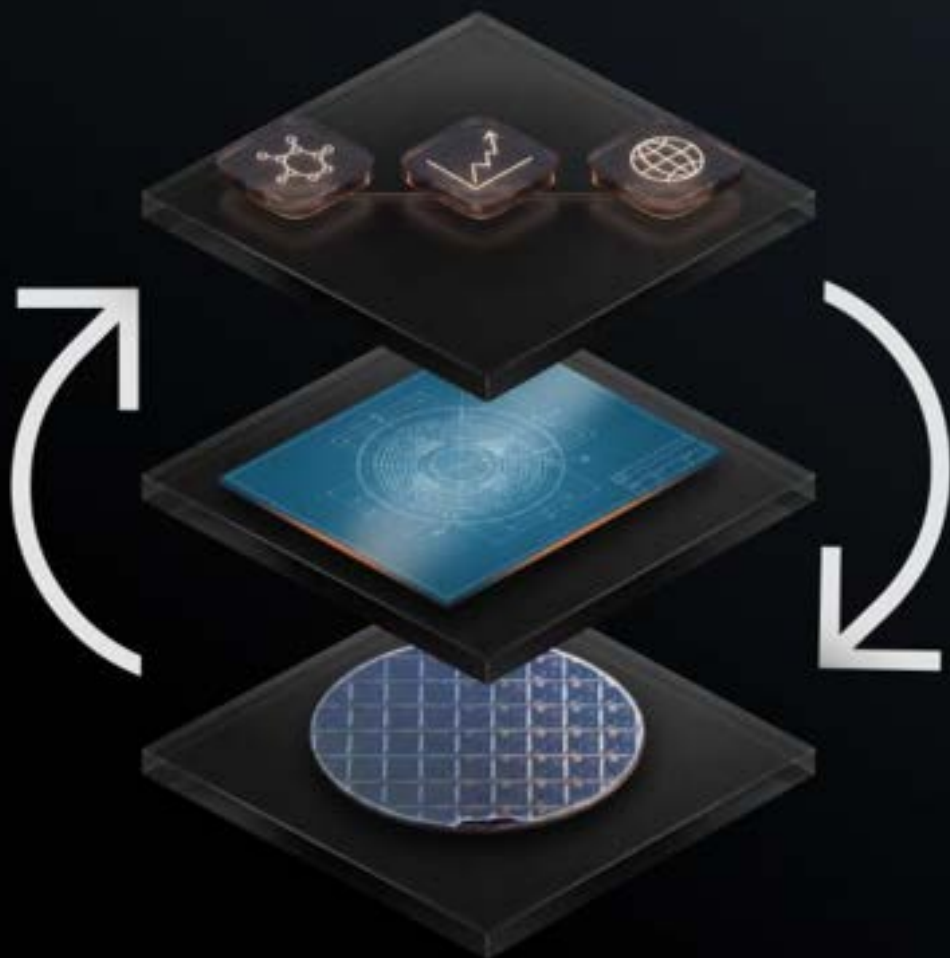
DIE SHRINK



1M+ qubits and beyond

SCALING TECHNIQUE

2.5D IC PACKAGING



QUANTUM SOLUTIONS

- 100x faster time to solution of MaxCut optimization versus other quantum modalities
- 10,000x improvement in time to solution for signal deconvolution problem
- 20x speedup of hybrid GPU/QPU computational chemistry workflow

SOFTWARE, ARCHITECTURE & ERROR CORRECTION

- Blueprint for an FTQC architecture, designed with realistic engineering constraints in mind
- Customized qLDPC codes running on real hardware
- MegaQuOp realtime decoding stack demonstrated end-to-end on one CPU

QPU & MANUFACTURING

Nature's perfect qubits, controlled by silicon, manufactured into chips at SkyWater



IONQ SETTING THE BENCHMARK FOR QUANTUM COMPUTING

Shor's Algorithm on
256-bit elliptic curve

25.7 days

TO RECOVER, USING

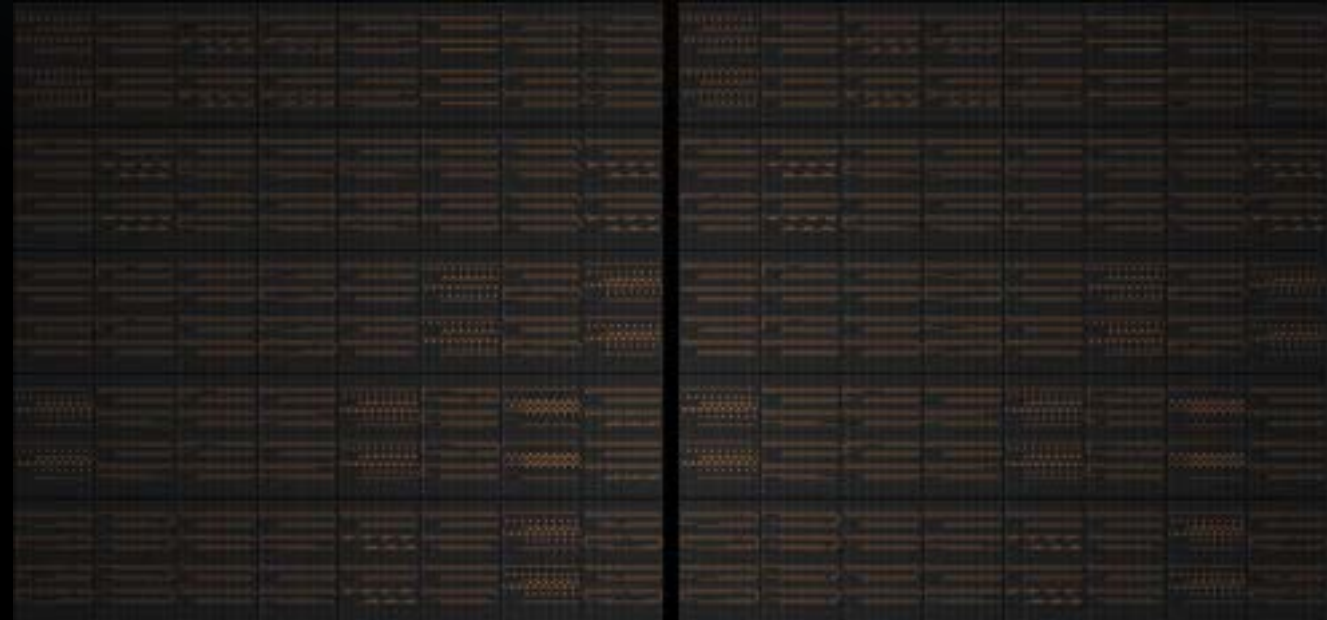
19,397

PHYSICAL QUBITS, WHICH IS

31x

IMPROVEMENT OF ERROR-
CORRECTION MODULES

20,000 physical qubits



FULL-STACK RESOURCE BLUEPRINT

Our implementation model fully accounts for every instruction that needs to run on the computer including:

All necessary error correction | All cooling | All ion loss events | All syndrome extraction cycles



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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