IonQ: Industry Leading Quantum Computing Company and the World's Only Quantum Platform & Merchant Supplier

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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 our financial performance, our quantum computing roadmap, the timeline to breaking encryption, 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-looing 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 March 31, 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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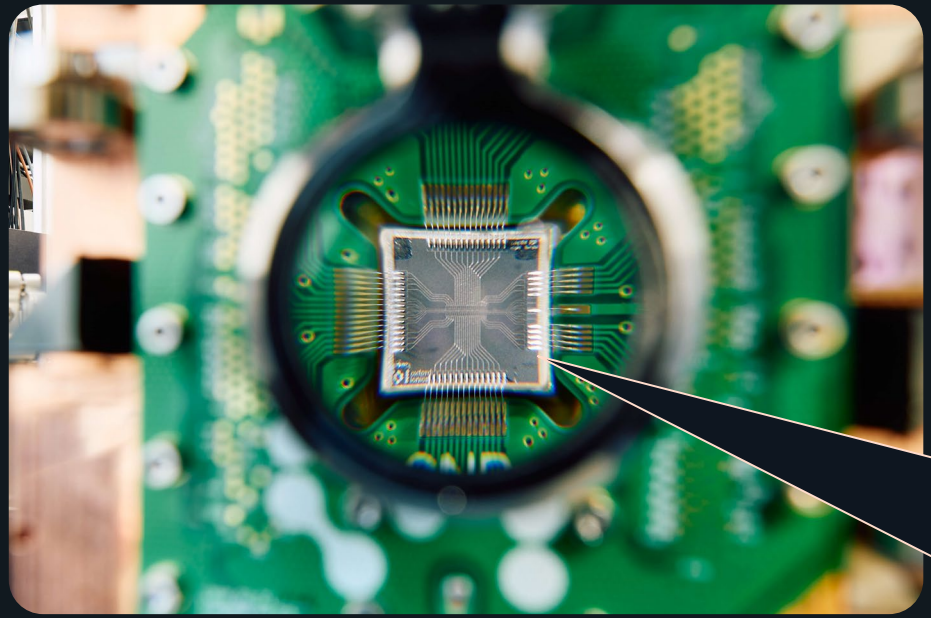
This presentation is being live streamed and is available at investors.ionq.com.

The Most Defined, Manufacturable, and Scalable Architecture in Quantum



Trapped Ion Approach: nature's perfect qubit — every ion is identical and stable by physics, delivering a world-record 99.99% gate fidelity and the lowest error rates in the industry

Semiconductor Chip Design: our ion-trap chips ride the proven cost, yield, and scaling curves of the global semiconductor industry, not a one-off lab build

Electronic Qubit Control: no bulk optics — ions are controlled directly on-chip with standard electronics, removing the biggest scaling bottleneck

Clear Architecture for Fault Tolerance: our Walking Cat design is a novel chip architecture for parallel, independent task execution which scales with simplicity out to full fault-tolerance

Unmatched Scale, Resources, and Global Reach

REVENUE SCALE

$260-270M

2026 revenue guidance, largest in the industry

INNOVATION

$300M+

2025 R&D investment, more than the entire reported industry combined

CASH POSITION

$3.1B

Of cash and equivalents to continue investing in innovation[1]

CUSTOMERS

350+

Customers served globally in the last year[2]

INTELLECTUAL PROPERTY

1,200+ Patents

Granted and pending worldwide

DEVELOPING THE QUANTUM ECOSYSTEM WITH GLOBAL CUSTOMERS AND PARTNERS

AFRL · DARPA · Quantum · General Dynamics · GE Research · ORNL · Synopsys · T-Mobile · The University of Chicago · U.S. Department of Energy

World's Largest Financial Institution

Solutions sold in **30+** countries across **5** continents

AstraZeneca · Airbus · CCRM · einride · QuantumBasel · UKRI National Quantum Computing Centre · University of Cambridge

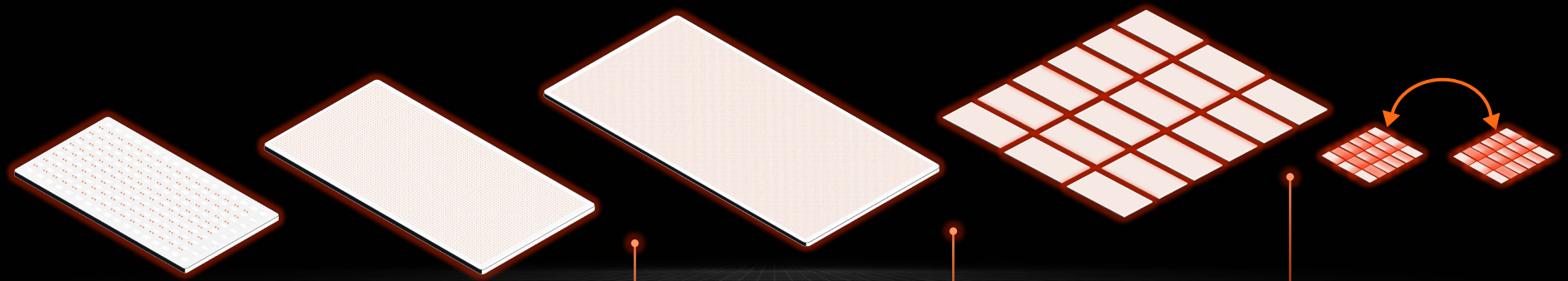
National quantum networks in Poland, Romania, Slovakia and Geneva

KISTI · SK broadband · Hyundai · Toyota Tsusho · AIST · Singtel

1. As of March 31, 2026
2. Customer count reflects unique customers from which IonQ or its subsidiaries recognized revenue and/or with which IonQ or its subsidiaries entered into a new agreement during the trailing twelve months ended March 31, 2026. Acquired company customers are included only from the acquisition close date forward

Leveraging The Semiconductor Industry Playbook to Scale

IonQ Is Applying the Same Proven Scaling Disciplines to Trapped-Ion Quantum Chips



256 qubit quantum computer

MANY 2-QUBIT UNIT CELLS on a single chip

10,000s qubit quantum computer

ADD MULTIPLEXING to optimize chip design and overcome pad limits

100,000s qubit quantum computer

DIE SHRINK to optimize qubit density per chip

Millions qubit quantum computer

SCALE ACROSS MULTIPLE DIES with 2.5D IC packaging

and beyond

QUANTUM INTERCONNECT to link tiled arrays of chips

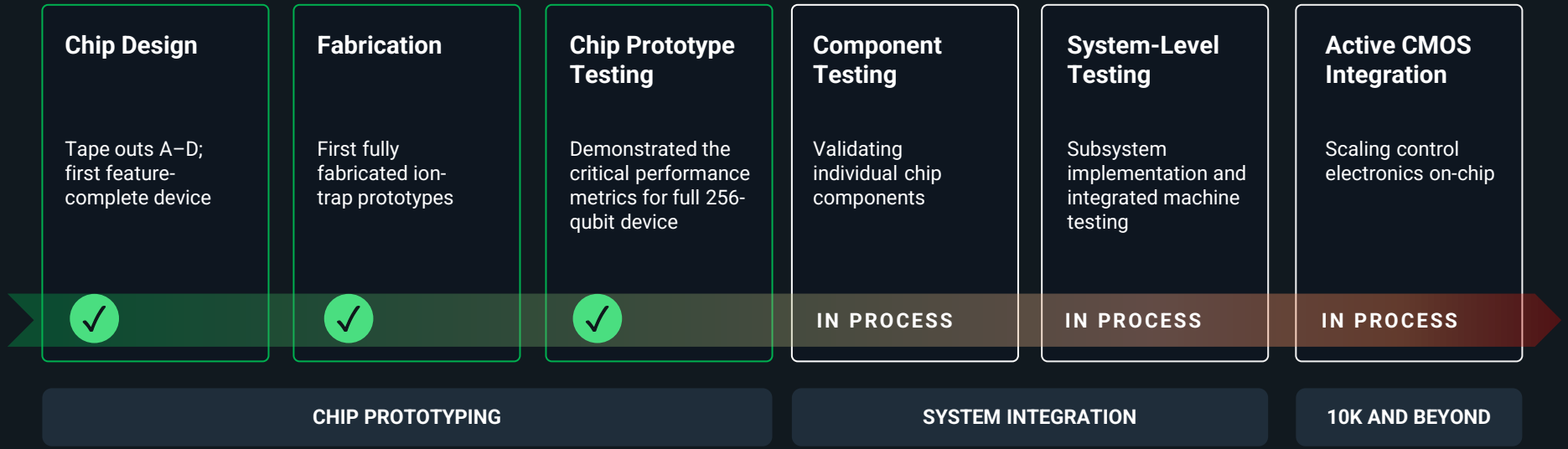
INCREASE DENSITY TO ALLOW FOR MORE QUBITS PER CHIP AREA	TILING	MODULAR SCALING

SEMICONDUCTOR ANALOG:

Micron vertical integration approach	AMD chiplet approach	NVIDIA NVLink and Infiniband

The Path to 256-Qubit System and Beyond

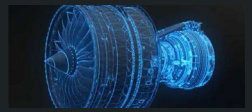
IonQ's Entire Roadmap Leverages Semiconductor Scaling Pathways



KEY R&D IS PROVEN AND WE ARE NOW FOCUSED ON ENGINEERING SCALING TO FULL FAULT TOLERANCE

Our Leading Quantum Computing Systems Enable Transformational Quantum Algorithms for Customers Today

IONQ

End Markets		IonQ Quantum Algorithms	
LIFE SCIENCES		AstraZeneca	**20x faster time-to-solution** for complex molecular simulations used in drug development than the best previously published quantum implementation – **enabling more cost-effective drug development**
ENERGY		QuantumBasel	**Up to 24% reduction in classification error** using hybrid fine-tuning by adding quantum layers to pre-trained Foundation Models – **breaking the exponential energy growth of classical fine-tuning workflows**
LOGISTICS		einride	**Increase in shipments delivered across all weekly schedules** when optimizing data from active Einride operations — representing **significant revenue recovery at fleet scale**
FINANCE		IONQ + S&P 500 DATA	**World's first** large-scale portfolio optimization quantum algorithm on real S&P 500 data — improving portfolio quality and execution time over classical baselines in **a production environment**
ENGINEERING		SYNOPSYS®	**Up to 15% reduction** in time-to-solution for large-scale structural models such as a Rolls-Royce jet engine using quantum-enhanced graph partitioning — **fully integrated into existing cloud workflow**

Enduring Franchises Build Platforms

IonQ Is The Only Quantum Platform Company That Can Deliver Integrated Solutions

QUANTUM COMPUTING

World's most powerful quantum computing device, with 100-qubit, 5th-gen machine now in the market and 256-qubit, 6th-gen machine expected next year

QUANTUM NETWORKING

Connecting quantum computers together to create the **first-ever quantum internet**

QUANTUM CYBERSECURITY

Deploying hardware and software quantum cybersecurity solutions today, before encryption is expected to be broken in the not too distant future

QUANTUM SENSING

The world's highest performing, fielded atomic clocks and jam-proof quantum sensors for **ultrahigh precision and accuracy**

QUANTUM IN-SPACE

Extending quantum into space, including ultra-fast, ultra-secure optical interconnects for greater bandwidth as we invest in QKD in space

QUANTUM APPLICATION LAYER

life sciences, finance, cybersecurity, logistics, mining, oil & gas, and more