

Cautionary Notes

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Certain information included herein describes or assumes the expected terms that will be included in the agreements to be entered into by the parties to the Proposed Business Combination. Such agreements are under negotiation and subject to change. The consummation of the Proposed Business Combination is also subject to other various risks and contingencies, including customary closing conditions. There can be no assurance that the Proposed Business Combination will be consummated with the terms described herein or otherwise. As such, the subject matter of these materials is evolving and us subject to further change by lonQ and dMY in their joint and absolute discretion.

Neither the Securities and Exchange Commission nor any securities commission of any other U.S. or non-U.S. jurisdiction has approved or disapproved of the Proposed Business Combination presented herein, or determined that this Presentation is truthful or complete. No representations or warranties, express or implied, are given in, or in respect of, this Presentation. To the fullest extent permitted by law in no circumstances will dMY, lonQ or any of their respective subsidiaries, stockholders, affiliates, representatives, directors, officers, employees, advisers or agents be responsible or liable for a direct, indirect or consequential loss or loss of profit arising from the use of this Presentation, its contents, its omissions, reliance on the information contained within it, or on opinions communicated in relation thereto or otherwise arising in connection therewith. Industry and market data used in this Presentation have been obtained from third-party industry publications and sources as well as from research reports prepared for other purposes. Neither dMY nor lonQ has independently verified the data obtained from these sources and cannot assure you of the data's accuracy or completeness. This data is subject to change. In addition, this Presentation does not purport to be all-inclusive or to contain all of the information that may be required to make a full analysis of lonQ or the Proposed Business Combination. Viewers of this Presentation should each make their own evaluation of lonQ and of the relevance and adequacy of the information and should make such other investigations as they deem necessary. References in this

Presentation to our "partners" or "partnerships" with technology companies, governmental entities, universities or others do not denote that our relationship with any such party is in a legal partnership form, but rather is a generic reference to our contractual relationship with such party.

Forward Looking Statements

Certain statements included in this Presentation that are not historical facts are forward-looking statements for purposes of the safe harbor provisions under the United States Private Securities Litigation Reform Act of 1995. Forward-looking statements generally are accompanied by words such as "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "expect," "should," "would," "plan," "predict," "potential," "seem," "seek," "future," "outlook," and similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements include, but are not limited to, statements regarding estimates and forecasts of other financial and performance metrics and projections of market opportunity. These statements are based on various assumptions, whether or not identified in this Presentation, and on the current expectations of the respective management of lonQ and dMY and are not predictions of actual performance. These forward-looking statements are provided for illustrative purposes only and are not intended to serve as, and must not be relied on by an investor as, a quarantee, an assurance, a prediction or a definitive statement of fact or probability. Actual events and circumstances are difficult or impossible to predict and will differ from assumptions. Many actual events and circumstances are beyond the control of lonQ and dMY. These forward-looking statements are subject to a number of risks and uncertainties, including changes in domestic and foreign business, market, financial, political, and legal conditions; the inability of the parties to successfully or timely consummate the Proposed Business Combination, including the risk that any regulatory approvals are not obtained, are delayed or are subject to unanticipated conditions that could adversely affect the combined company or the expected benefits of the Proposed Business Combination or that the approval of the stockholders of dMY or long is not obtained; failure to realize the anticipated benefits of the Proposed Business Combination; risks relating to the uncertainty of the projected financial information with respect to lonQ; risks related to the performance of lonQ's business and the timing of expected business or revenue milestones; the effects of competition on lonQ's business; the amount of redemption requests made by dMY's stockholders; the ability of dMY or lonQ to issue equity or equity-linked securities or obtain debt financing in connection with the Proposed Business Combination or in the future; and those factors discussed in dMY's final prospectus that forms a part of dMY's Registration Statement on Form S-1 (Reg. No. 333-249524), filed with the SEC pursuant to Rule 424(b)(4) on November 16, 2020 (the "Prospectus") under the heading "Risk Factors," and other documents dMY has filed, or will file, with the SEC. If any of these risks materialize or our assumptions prove incorrect, actual results could differ materially from the results implied by these forward-looking statements. There may be additional risks that neither dMY nor lonQ presently know, or that dMY nor lonQ currently believe are immaterial, that could also cause actual results to differ from those contained in the forward-looking statements. In addition, forward-looking statements reflect dMY's and lonQ's expectations, plans, or forecasts of future events and views as of the date of this Presentation. dMY and lonQ anticipate that subsequent events and developments will cause dMY's and lonQ's assessments to change. However, while dMY and lonQ may elect to update these forward-looking statements at some point in the future, dMY and lonQ specifically disclaim any obligation to do so. These forward-looking statements should not be relied upon as representing dMY's and lonQ's assessments of any date subsequent to the date of his Presentation. Accordingly, undue reliance should not be placed upon the forward-looking statements.

Cautionary Notes (continued)

Use of Projections

This Presentation contains projected financial information. Such projected financial information constitutes forward-looking information, and is for illustrative purposes only and should not be relied upon as necessarily being indicative of future results. The assumptions and estimates underling such financial forecast information are inherently uncertain and are subject to a wide variety of significant business, economic, competitive, and other risks and uncertainties. See "Forward-Looking Statements" above. Actual results may differ materially from the results contemplated by the financial forecast information contained in this Presentation, and the inclusion of such information in this Presentation should not be regarded as a representation by any person that the results reflected in such forecasts will be achieved.

Use of Data

The data contained herein is derived from various internal and external sources. No representation is made as to the reasonableness of the assumptions made within or the accuracy or completeness of any projections or modeling or any other information contained herein. Any data on past performance or modeling contained herein is not an indication as to future performance.dMY and lonQ assume no obligation to update the information in this presentation.

Use of Non-GAAP Financial Metrics and Other Key Financial Metrics

This presentation includes certain non-GAAP financial measures (including on a forward-looking basis) such as EBITDA and EBITDA Margin. IonQ defines EBITDA as net income (loss), adjusted for for interest expense, depreciation and amortization, stock-based compensation and income taxes. EBITDA Margin is EBITDA divided by total revenue. These non-GAAP measures are an addition, and not a substitute for or superior to measures of financial performance prepared in accordance with GAAP and should not be considered as an alternative to net income, operating income or any other performance measures derived in accordance with GAAP. Reconciliations of non-GAAP measures to their most directly comparable GAAP counterparts are included in the Appendix to this presentation.

lonQ believes that these non-GAAP measures of financial results (including on a forward-looking basis) provide useful supplemental information to investors about lonQ. lonQ's management uses forward looking non-GAAP measures to evaluate lonQ's projected financial and operating performance. However, there are a number of limitations related to the use of these non-GAAP measures and their nearest GAAP equivalents. For example other companies may calculate non-GAAP measures differently, or may use other measures to calculate their financial performance, and therefore lonQ's non-GAAP measures may not be directly comparable to similarly titled measures of other companies.

Certain Risks Related to IonQ, Inc.

All references to the "Company," "lonQ," "we," "us" or "our" in this presentation refer to the business of lonQ, Inc. The risks presented below are certain of the general risks related to the Company's business, industry and ownership structure and are not exhaustive. The list below is qualified in its entirety by disclosures contained in future filings by the Company, or by third parties (including dMY Technology Group, Inc. III.) with respect to the Company, with the United States Securities and Exchange Commission ("SEC"). These risks speak only as of the date of this presentation and we make no commitment to update such disclosure. The risks highlighted in future filings with the SEC may differ significantly from and will be more extensive than those presented below.

- lonQ has a limited operating history, which makes it difficult to forecast our future results of operations.
- · lonQ has a history of operating losses and may not achieve or sustain profitability in the future.

- lonQ may not be able to scale its business quickly enough to meet its customers' growing needs, and if it is not able to grow efficiently, its operating results could be harmed.
- The quantum computing industry is competitive on a global scale with many countries aspiring to successfully develop quantum computing. If lonQ is not able to compete successfully, its business, financial results and future prospects will be harmed.
- The quantum computing industry is in its early stages and is volatile, and if it does not develop, if it develops slower than lonQ expects, if it develops in a manner that does not require use of lonQ's quantum computing solutions, if it encounters negative publicity or if lonQ's solution does not drive commercial engagement, the growth of its business will be harmed.
- Even if lonQ is successful in developing quantum computing systems and executing its strategy, competitors in the industry may achieve technological breakthroughs which render lonQ's quantum computing systems obsolete or inferior to other products.
- If lonQ's computers fail to achieve a broad quantum advantage, or it is delayed in doing so, its business, financial condition and future prospects may be harmed.
- lonQ's operating and financial results forecast relies in large part upon assumptions and analyses developed by the company. If these assumptions or analyses prove to be incorrect, lonQ's actual operating results may be materially different from its forecasted results.
- lonQ's estimates of market opportunity and forecasts of market growth may prove to be inaccurate, and
 even if the market in which it competes achieves the forecasted growth, lonQ's business could fail to grow at
 similar rates, if at all.
- lonQ may be unable to successfully scale up manufacturing of its products in sufficient quantity and quality, in a timely or cost-effective manner, or at all. Unforeseen issues associated with scaling up and constructing quantum computing technology at commercially viable levels could negatively impact lonQ's business, financial condition and results of operations.
- lonQ could suffer disruptions, outages, defects and other performance and quality problems with its quantum computing systems or with the public cloud and internet infrastructure on which it relies.
- Supply chain issues, including a shortage of adequate component supply or manufacturing capacity, or any
 political challenges between the United States and countries in which lonQ suppliers are located, including
 China, could have an adverse impact on its business and operating results.
- If lonQ cannot successfully execute on its strategy, including in response to changing customer needs and new technologies and other market requirements, or achieve its objectives in a timely manner, its business, financial condition and results of operations could be harmed.
- lonQ is highly dependent on its co-founders, who are employed by Duke University, and its ability to attract
 and retain senior management and other key employees, such as quantum physicists and other key
 technical employees is critical to its success. If lonQ is unable to retain talented, highly-qualified senior
 management, engineers and other key employees or attract them when needed, it could negatively impact
 its business.
- lonQ's failure to effectively develop and expand its sales and marketing capabilities could harm its ability to
 increase its customer base and achieve broader market acceptance of its quantum computing capabilities.

Cautionary Notes (continued)

- lonQ depends on a particular isotope of an atomic element that provides qubits for its ion trap technology. If
 lonQ is unable to procure these isotopically enriched atomic samples, or is unable to do so on a timely and
 cost-effective basis, and in sufficient quantities, lonQ may incur significant costs or delays which could
 negatively affect its operations and business.
- If lonQ's quantum computing systems are not compatible with some or all industry-standard software and hardware, its business could be harmed.
- System security and data protection breaches, as well as cyber-attacks, could disrupt lonQ's operations, which may damage lonQ's reputation and adversely affect its business.
- State, federal and foreign laws and regulations related to privacy, data use and security could adversely
 affect lonQ.
- IonQ is subject to U.S. and foreign anti-corruption, anti-bribery and similar laws, and non-compliance with such laws can subject us to criminal or civil liability and harm our business.
- lonQ is subject to governmental export and import controls that could impair its ability to compete in
 international markets due to licensing requirements and be subject to liability if it is not in compliance with
 applicable laws.
- Unfavorable conditions in lonQ's industry or the global economy could limit the company's ability to grow its business and negatively affect its results of operations.
- lonQ is subject to requirements relating to environmental and safety regulations and environmental remediation matters which could adversely affect its business, results of operation and reputation.
- lonQ has identified material weaknesses in its internal control over financial reporting. If lonQ is unable to
 remediate these material weaknesses, or if lonQ identifies additional material weaknesses in the future or
 otherwise fails to maintain an effective system of internal control over financial reporting, this may result in
 material misstatements of lonQ's consolidated financial statements or cause lonQ to fail to meet its periodic
 reporting obligations or cause our access to the capital markets to be impaired.
- lonQ may need additional capital to pursue its business objectives and respond to business opportunities, challenges or unforeseen circumstances, and it cannot be sure that additional financing will be available.
- Acquisitions, divestitures, strategic investments and strategic partnerships could disrupt lonQ's business and harm its financial condition and operating results.
- The COVID-19 pandemic could negatively impact on lonQ's business, results of operations and financial condition.
- lonQ's business is exposed to risks associated with litigation, investigations and regulatory proceedings.
- IonQ's ability to use net operating loss carryforwards and other tax attributes may be limited in connection with the business combination or other ownership changes.
- Licensing of intellectual property is of critical importance to lonQ's business. For example, lonQ licenses
 patents (some of which are foundational patents) and other intellectual property from the University of
 Maryland and Duke University on an exclusive basis. If the license agreement with these universities
 terminates, or if any of the other agreements under which lonQ acquired or licensed, or will acquire or license,
 material intellectual property rights is terminated, lonQ could lose the ability to develop and operate its
 business.

- If lonQ is unable to obtain and maintain patent protection for its products and technology, or if the scope of
 the patent protection obtained is not sufficiently broad or robust, its competitors could develop and
 commercialize products and technology similar or identical to lonQ's, and its ability to successfully
 commercialize its product and technology may be adversely affected. Moreover, the secrecy of our trade
 secrets could be compromised, which could cause us to lose the competitive advantage resulting from these
 trade secrets.
- lonQ's patent applications may not result in issued patents or its patent rights may be contested, circumvented, invalidated or limited in scope, any of which could have a material adverse effect on lonQ's ability to prevent others from interfering with its commercialization of its products.
- lonQ may face patent infringement and other intellectual property claims that could be costly to defend,
 result in injunctions and significant damage awards or other costs (including indemnification of third parties
 or costly licensing arrangements (if licenses are available at all)) and limit our ability to use certain key
 technologies in the future or require development of non-infringing products, services, or technologies,
 which could result in a significant expenditure and otherwise harm our business.
- Some of our in-licensed intellectual property, including the intellectual property licensed from the University of Maryland and Duke University, has been conceived or developed through government funded research and thus may be subject to federal regulations providing for certain right for the United States government or imposing certain obligations on lonQ, such as a license to the United States government under such intellectual property, "march-in" rights, certain reporting requirements and a preference for U.S.-based companies, and compliance with such regulations may limit lonQ's exclusive rights and its ability to contract with non-U.S. manufacturers.
- Following the consummation of the business combination, the combined company will incur significant
 increased expenses and administrative burdens as a public company, which could negatively impact its
 business, financial condition and results of operations.
- Our success could be impacted by the inability of the parties to successfully or timely consummate the proposed business combination, including the risk that any required regulatory approvals are not obtained, are delayed, or are subject to unanticipated conditions that could adversely affect the combined company or the expected benefits of the proposed business combination or that the approval of the stockholders of dMY is not obtained.
- If the business combination's benefits do not meet the expectations of investors or securities analysts, the
 market price of dMY's securities or, following the closing, the combined entity's securities, may decline.

dMY Management Team

Harry You, Chairman



Director of Broadcom

Former President, CFO and Co-Founder of GTY (largest tech SPAC at time of IPO)

Former EVP, Office of Chairman of EMC

Former CEO of Bearing Point

Former CFO of Oracle and Accenture

Deep Transactional Experience

- Closed numerous M&A transactions, debt, equity and IPO issuances during 14 years as an investment banker and subsequently as a corporate officer and director
- ✓ Played a key role in structuring Dell's \$67 billion buyout of EMC as EMC's executive vice president
- ✓ Significant shareholder value creation at EMC, Oracle, Accenture, Korn Ferry and Broadcom
- Completed scores of acquisitions and investments as a Corporate Executive

Niccolo De Masi, Chief Executive Officer



Mobile pioneer – Software & Hardware

Current Chairman of Glu Mobile

Former CEO of Glu Mobile, Monstermob and Hands-On Mobile

Former President of Essential

Former Director of Resideo and Xura

Deep Transactional Experience

- ✓ Extensive transaction experience through dozens of M&A and strategic equity raises in support of companies that he led
- Completed three turnarounds and successfully navigated three platform transitions
- ✓ Disciplined buyer
- ✓ Cross-border, public-public and public-privates
- ✓ B2B, B2B2C and B2C experience
- ✓ C-Suite or Board of five mobile companies

Transaction Overview

(\$ in millions, except per share data)

Sources

dMY III Shares	\$ 1,275
dMY III Cash Held in Trust	300
IonQ Cash¹	36
PIPE Investment	250
Total Sources	\$ 1,861

Uses

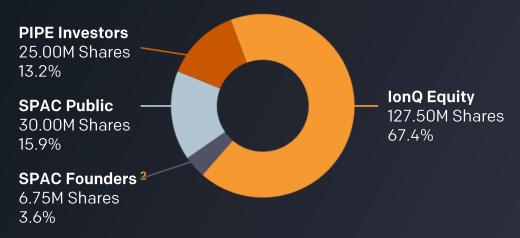
Total Uses	\$ 1,861
Transaction Expenses & Fees	60
Equity to lonQ Existing Investors	1,275
Pro Forma Cash	\$ 526

Note Assumes no redemptions from dMY's existing public shareholders. Assumes PIPE shares are issued at a price of \$10.00. Excludes the impact of dMY's warrants (public or private).

Pro Forma Valuation

Share Price	\$10.00
Pro Forma Shares Outstanding	189
Equity Value	\$1,893
(+) Debt	0
(-) Pro Forma Cash	(526)
Enterprise Value	\$1,367

Illustrative Pro Forma Ownership



¹ lonQ cash and cash equivalents reflects cash balance for end of 2020

² Assumes 6.75M founder shares at \$10.00. Excludes 0.25M founder shares subject to earnout based on achievement of \$12.50 price per share, 0.25M founder shares subject to earnout based on achievement of \$15.00 price per share, and 0.25M founder shares subject to earnout based on achievement of \$17.50 price per share any time prior to or as of the 5th anniversary of the closing of the transaction. Excludes 4M founder warrants, which have a strike price of \$11.50 per share

OUR MISSION

To build the world's best quantum computers to solve the world's most complex problems, transforming business, society, and the planet for the better.

The Only Public Pure-Play Quantum Opportunity

Unparalleled Technological Advantage

32,000x more powerful than competing quantum systems

Massive Opportunity

Experts expect a TAM of approximately \$65B by 2030 (CAGR of 56.0%)

World-Class Team

Led by the pioneers of quantum computing

Quantum Computation as a Service

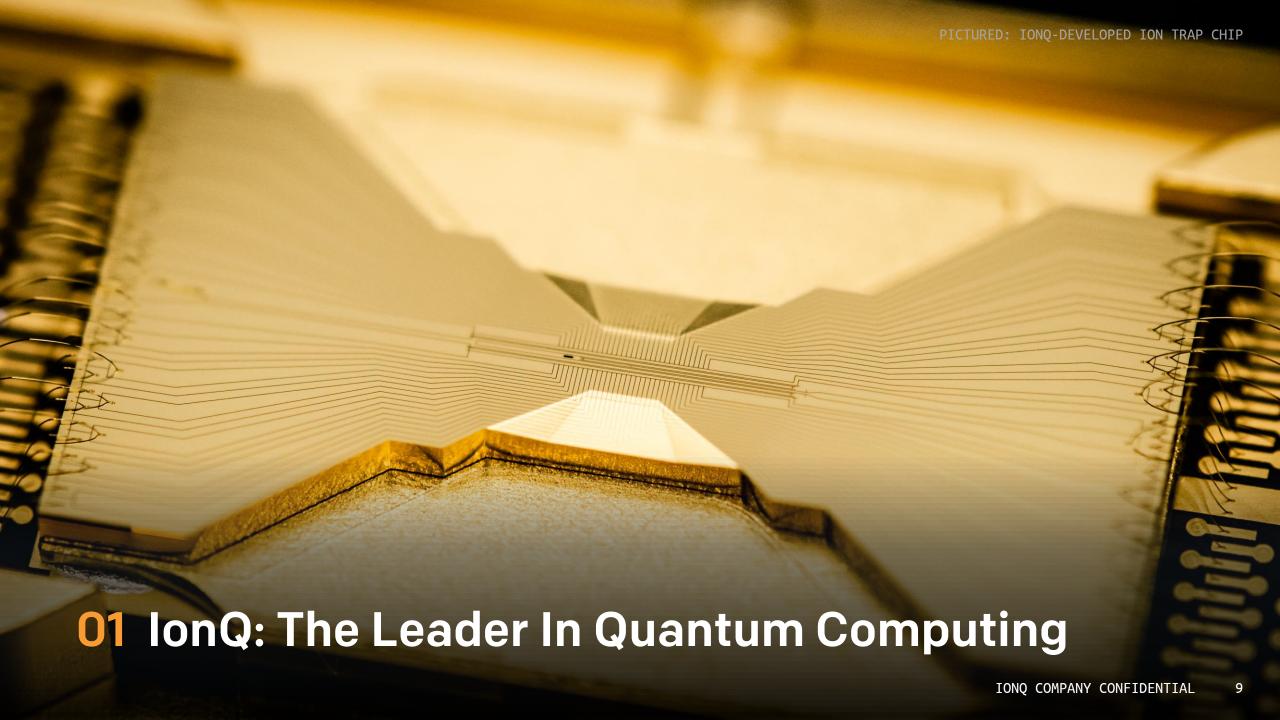
AWS, Microsoft Azure, and IonQ Quantum Cloud

World-Class Investor Base

GV, NEA, Mubadala, AWS, Samsung, Airbus, et al.

Significant Barriers To Entry

Complex technology protected by extensive patent portfolio



Led by Industry Pioneers



Peter Chapman
President & CEO

Career began at 16 in MIT AI Lab under Marvin Minsky Led technology for Amazon's Prime division, 2014–2019 Innovator in financial, aviation, e-reader technology with several successful exits (Data Acquisition Systems, New Media Graphics, Boston Compliance Systems)





Christopher Monroe

Co-founder & Chief Scientist

Demonstrated first ever quantum logic gate with Nobel laureate David Wineland at NIST in 1995

Over 25 years in quantum computing. Developed many of the fundamental techniques for trapped-ion QC

Citations: 44774 h-index: 831







Salle Yoo

Chief Legal Officer & Corporate Secretary

Chief Legal Officer and General Counsel at Uber, 2012–2017

Angel investor, board member, advisor and LP in a variety of funds and startups (Operator Collective, January Ventures, Helium Inc., Qwick, DataGrail)

Uber



Jungsang Kim

Co-founder & CTO

In 2001, led a Bell Labs team to break the world record for what is still the world's largest optical switch

Over 20 years in quantum computing and related tech. Duke lab leads the world in miniaturization of quantum systems

Citations: 7136 h-index: 381

Duke





David Bacon

VP, Software

Built and led the quantum software team at Google that first demonstrated quantum supremacy in 2019

Over 20 years in quantum computing, including invention of the Bacon-Shor class of error correction codes

Citations: 7601 h-index: 291





Thomas Kramer

Chief Financial Officer

CFO at Opower, 2011–2016, taking company through IPO in 2014 and acquisition by Oracle in 2016

CFO and Co-Founder at Cvent, 2000–2011, taking company from zero revenue to 800 employees and market dominance

10

OP@WER cvent

A 25-Year History of Innovation and Leadership

Our co-founders' academic labs have been at the forefront of quantum computing for decades

Publications

Government Grants To Date¹

200+

\$165M

Licensed Patents¹

19

Academic Labs





2004

Kim proposes chip-based ion trap QC architecture (Bell Labs)

2012

Kim integrates optics with ion qubits on chip (Duke)

1995

Monroe and Wineland demonstrate first known quantum gate (NIST)

2007

Monroe demonstrates first known quantum network (UMD)

2016

Monroe QC bests IBM on all algorithms (UMD)

2005

Monroe traps ions on a monolithic chip (Michigan)

2013

Kim realizes >99.9% fidelity operations on stable qubits (Duke)

2000

Monroe and Wineland develop modern native ion trap gate (NIST) 2011

Kim and Monroe invent photonically-networked modular quantum computer (Duke/UMD)

IonQ: Leading the Quantum Computing Revolution

lonQ has brought the world's best hardware to the commercial market with extreme capital efficiency

Founded

Total VC Investment¹

Patents & Applications¹

2015

\$84M

Employees¹

Spent To Date¹

\$49M

Hardware Generations^{1,2}

2017

IonQ raises \$20M in Series A

2019

IonQ raises ~\$62M in Series B

IonQ announces partnership with Amazon and Microsoft to bring hardware to their cloud services



Microsoft amazon



Investors









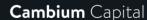


















2015

Harry Weller (NEA) approaches Monroe & Kim; IonQ is born with \$2M seed

2018

lonQ Systems 1 and 2 execute first algorithms: BV-10 and H_2O simulation

2020

Monroe and team announce logical qubit with only 13 physical qubits (UMD)

IonQ announces 32 qubit quantum computer with an expected quantum volume of 4,194,304, smashing record for most powerful quantum computer

2016

Monroe and Kim's labs at UMD and Duke surpass \$100M in combined total grants to date

¹ As of 20 December 2020

World-Class Board



Peter Chapman
President & CEO, IonQ

40-year innovator with multiple fundamental technologies and successful exits to his credit



Harry You Chairman, dMY

Experienced public company officer and board member, including Accenture, Oracle, EMC Corporation, and others



IONQ

Jungsang Kim
Co-founder & CTO, IonQ

Pioneer in photonics, optics, and quantum engineering credited with a variety of novel inventions in the space



Niccolo De Masi CEO, dMY

Seasoned public company CEO and board member, with deep expertise in transformative technologies



G/

Blake Byers

General Partner, GV

Investor in emerging technology and life sciences, including 23andMe, Denali Therapeutics, and others



Craig Barratt

Independent Board Member

Career innovator; director and executive for a variety of high-impact hardware businesses



NEA

Ron Bernal Venture Partner, NEA

Career technologist, early-stage investor and board member for a wide portfolio of high-technology firms



David Wineland

University of Oregon

Physicist and Nobel laureate, pioneered many fundamental techniques used in trapped-ion quantum computing

World-Class Advisors



OREGON

Margaret (Peg) Williams

Former SVP R&D, Cray

Career leader in high-performance computing at IBM, Cray, and Maui High Performance Computing Center



Kenneth Brown

Duke University

Leading quantum information theorist, first to demonstrate Bacon-Shor on trapped ion quantum hardware



Jagdeep Singh

CEO, QuantumScape

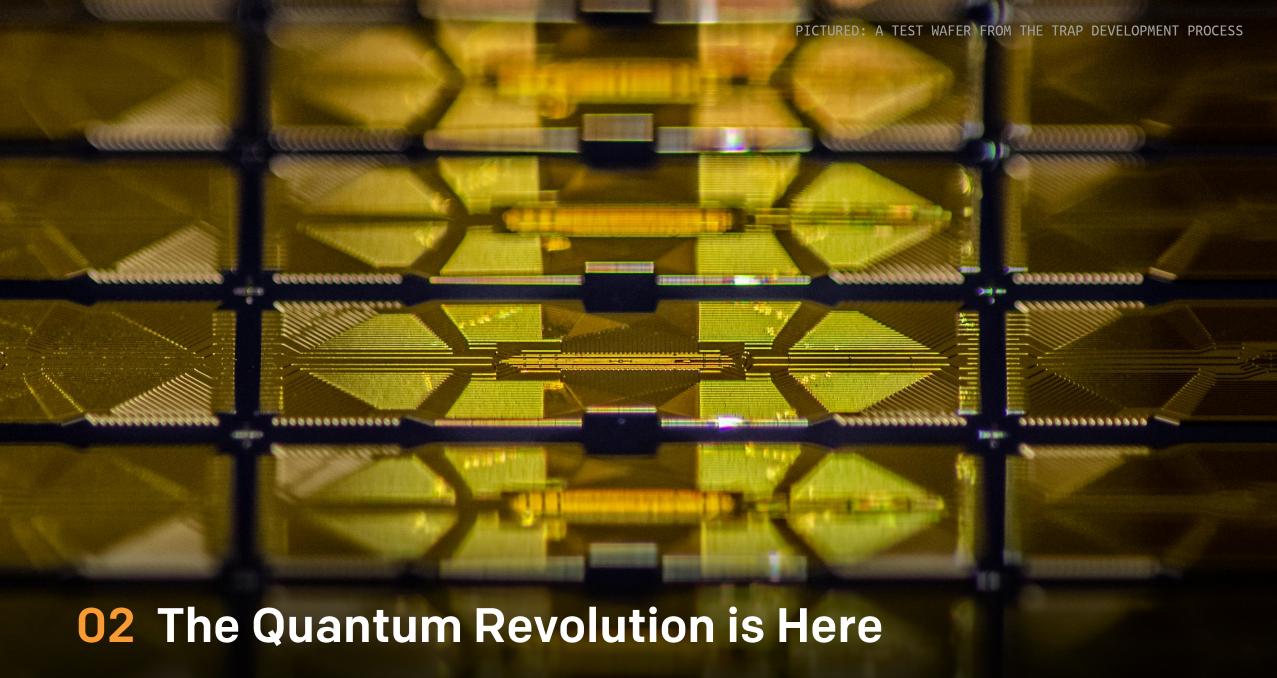
Career leader in photonics and optical networking for telecom and other applications



Umesh Vazirani

University of California, Berkeley Quantum information science pioneer,

inventor of several fundamental quantum algorithms



There are important problems that classical computers may never be able to solve

Addressing many of the world's greatest problems and opportunities would require the construction of classical computers larger than the universe itself.



By providing solutions to these challenges, quantum computing has the potential to change the world

Computers that utilize the power of quantum mechanics could provide revolutionary breakthroughs in human health and longevity, climate change and energy production, artificial intelligence, and more.

The Next Technological Revolution Is Quantum

IonQ is poised to be the first mover in the quantum revolution, ushering in the next great age of productivity.



Quantum Age

Breakthroughs in energy, medicine, materials science, machine learning, and more



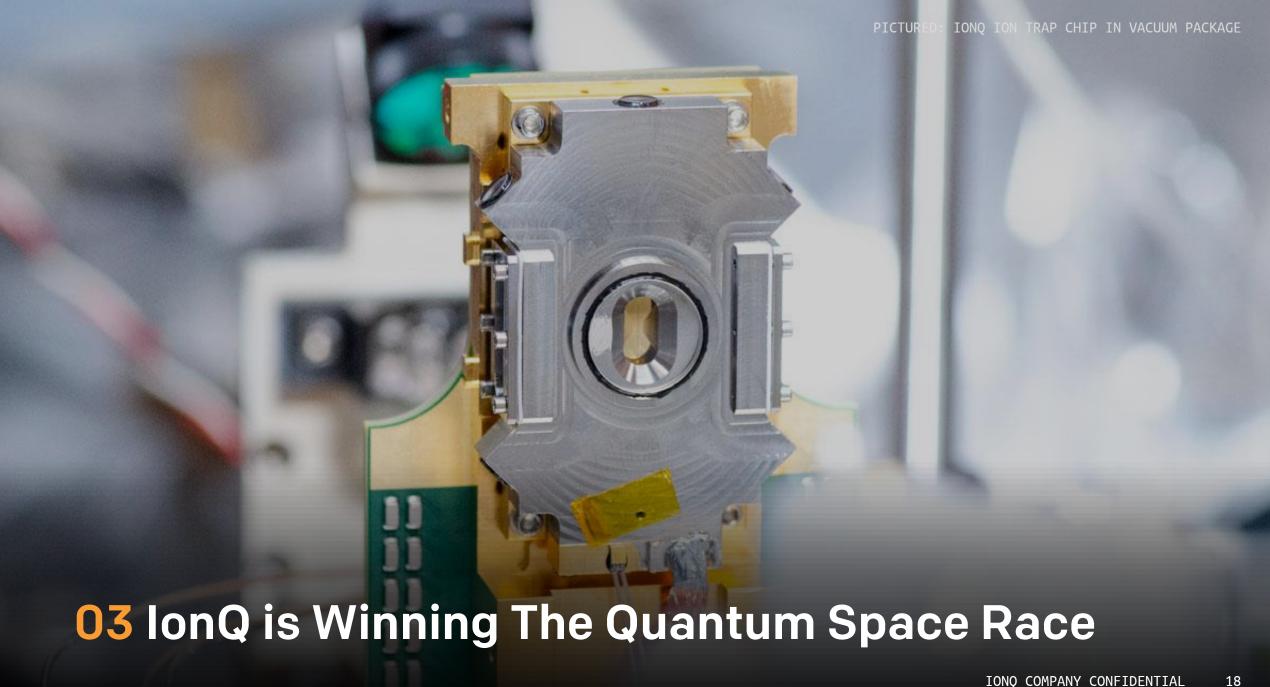
Information Age

Cheap, connected computation



Industrial Age

Electric power, mass manufacturing, economies of scale



Focus on the Results, Not the Hype



Most usable qubits



Highest quantum volume by many orders of magnitude



Best error correction overhead



Systems getting smaller each generation



Only commercial system running at room temperature





Only systems available on both AWS and Azure









OpenQASM

Support for most major quantum SDKs, and plans for more



First known simulation of water to approach chemical accuracy

Expected Phases of Quantum Computing Maturity

Boston Consulting Group Analysis

Phase I

Estimated Impact (Operating Income):

\$2-5 Billion

Technical Barrier To Entry

Error Reduction

Phase II

Estimated Impact (Operating Income):

\$25-50 Billion

Technical Barrier To Entry

Error Correction

Phase III

Estimated Impact (Operating Income):

\$450-850 Billion

Technical Barrier To Entry

Modular Architecture

Phase I: \$2-5B

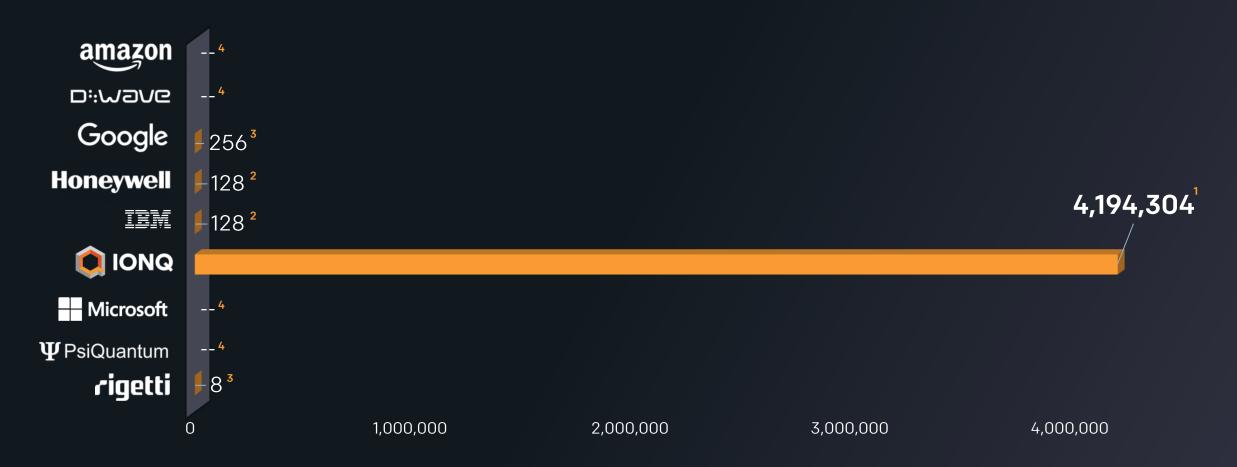
Phase II: \$25-50B

Phase III: \$450-850B

Phase I

IonQ Leads The Pack

Potential Quantum Volume by Vendor, Q2B December 2020



¹ Estimated quantum volume of lonQ's 5th generation system — assumes 32 qubits with 99.9% fidelity two-qubit gates based on internal preliminary results

² Publicly announced quantum volume based on experimental results: <u>Honeywell announcement</u>, <u>IBM announcement</u>

³ Estimation based on published qubit counts and fidelity

⁴ Not possible to calculate — either not a universal gate set quantum computer (D-Wave), years from first working prototype, or unproven hardware approach

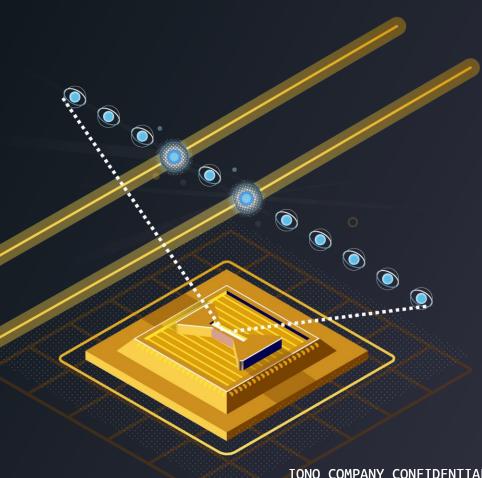
Note Table reflects different inputs and sources and thus company data is not comparable with other vendors

Phase I

Empowered by Unique Technological Advantages

Individual atomic ion qubits in an ion trap are superior to competing qubit platforms, creating the ability for lonQ to move farther, faster than the competition.

- Identical and naturally quantum
- **Perfectly isolated** from environmental influences
- Capable of running at room temperature
- Reconfigurable and highly-connected
- **Unparalleled** inherent performance
- **Longest** qubit lifetime



IonQ Leads in Error Correction Overhead

Phase I

16:1¹

ONQ

1000:1 - 1,000,000:1 2

Other Approaches

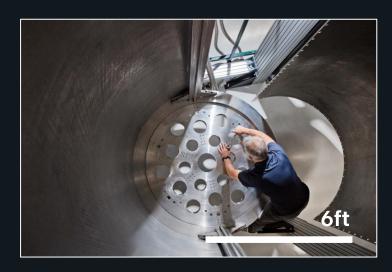
¹ Estimate based on lonQ technical roadmap and <u>experimental results</u> recently published by lonQ founder Chris Monroe, advisor Ken Brown, and collaborators 2 1000:1 based on overhead for surface codes on a 2-D lattice. 1,000,000:1 based on linear connectivity systems.

Phase III

IonQ's Leading Modular Architecture

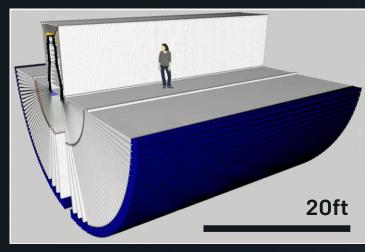
Each Generation of IonQ Hardware is Getting Smaller & Cheaper to Build

IBM



An IBM engineer working on the custombuilt dilution refrigerator casing for a single QPU

Google



Google rendering of a planned millionphysical-qubit system





lonQ ion trap and vacuum chamber in a single, minuscule package

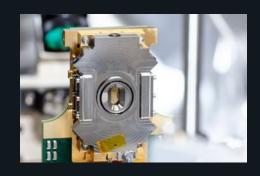
Phase III

Smaller Every Generation: Quantum Core

2016 Chamber



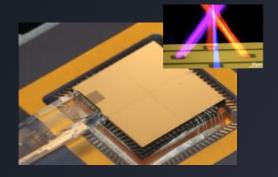
2020 Package



2021Mini Package



2023 Chip











Phase III

Smaller Every Generation: Complete System

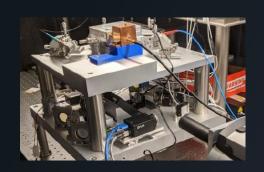
2016 Lab Scale



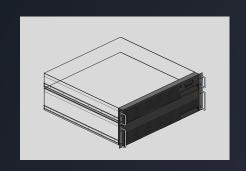
2020 Tabletop



2021 Benchtop



2023 Rackmount

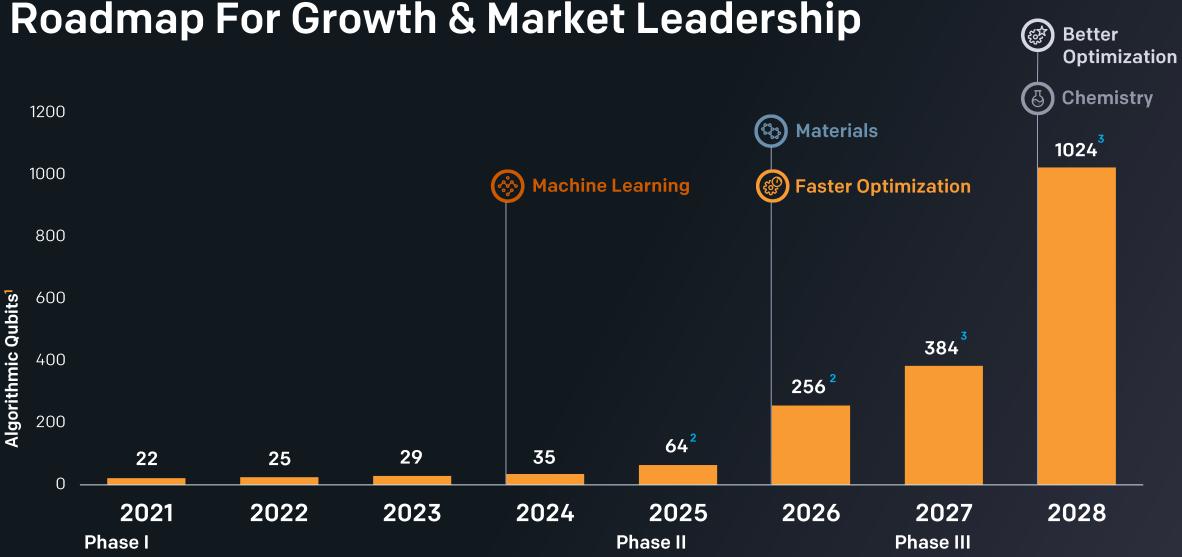












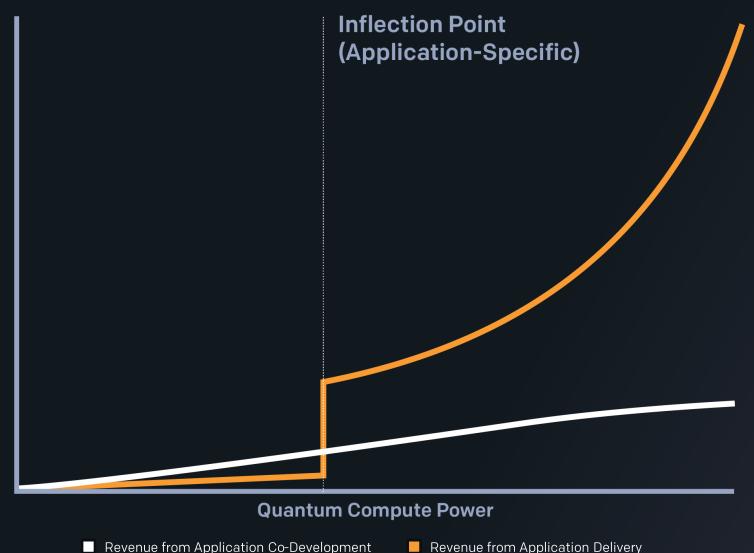
Note Prepared on the basis of certain technical, market, competitive and other assumptions to be subsequently described in further detail, and which may not be satisfied. As a result, these projections are subject to a high degree of uncertainty and may not be achieved within the time-frames described or at all.

Note Market inflection points are estimated based on alignment of lonQ technical roadmap with publicly documented quantum research problems in each market

- 1 Algorithmic qubit number defined as the effective number of qubits for typical algorithms, limited by the 2Q fidelity
- 2 Employs 16:1 error-correction encoding
- 3 Employs 32:1 error-correction encoding



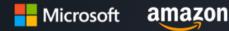
Business Model Aligned to Rapid Quantum Market Growth



Potential Revenue

Application

Full-scale quantum solutions based on the latest lonQ hardware, accelerating customers into the Quantum Age. Delivered via direct partnerships, value-add resellers, and the world's largest cloud providers.



Development

Side-by-side development of quantum solutions alongside customers, preparing them to succeed as compute capacity scales.

Quantum Machine Learning

Problem

Machine learning powers much of modern technology, but further improvement requires prohibitively expensive classical computation. As an example, Google and DeepMind have used ML techniques to achieve a 40% reduction in energy used for cooling Google's datacenters.¹

Solution

A quantum computer can map classical data onto complex quantum states, revealing otherwise-hidden correlations in the data, and adding new quantum-trained models to the existing portfolio could improve overall predictive performance. Even when ML-optimized, Google's datacenters consume \$500 million per year in energy, giving even modest increases in efficiency the potential for large impact.

Physical Qubits

Year Enabled

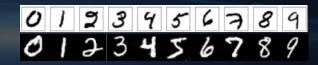
40

2023

IonQ Projects



Generative learning on handwritten digits outperforms comparable classical models²





Classification on handwritten digits matches comparable classical models ³

^{1 &}lt;u>DeepMind Al Reduces Google Data Centre Cooling Bill by 40%</u>, DeepMind Blog (2016)

² Generation of High-Resolution Handwritten Digits with an Ion-Trap Quantum Computer, arXiv:2012.03924 (2020)

³ Nearest Centroid Classification on a Trapped Ion Quantum Computer, arXiv:2012.04145 (2020)

Finance: Faster Optimal Arbitrage

Problem

Markets are never perfectly efficient, giving arbitrageurs a wealth of opportunities to capitalize on pricing discrepancies if they can identify them before the competition. Improving speed to solution has a direct impact on profit.

Solution

Quantitative hedge funds alone represent a \$1 trillion+ industry;¹ even modest speed advantages will let customers win more in the market and may even expose additional currently-unexploitable arbitrage opportunities. The quantum approximate optimization algorithm (QAOA) can provide a wall clock speed advantage over the best classical algorithm for the same problems.

Algorithmic Qubits

Year Enabled

256

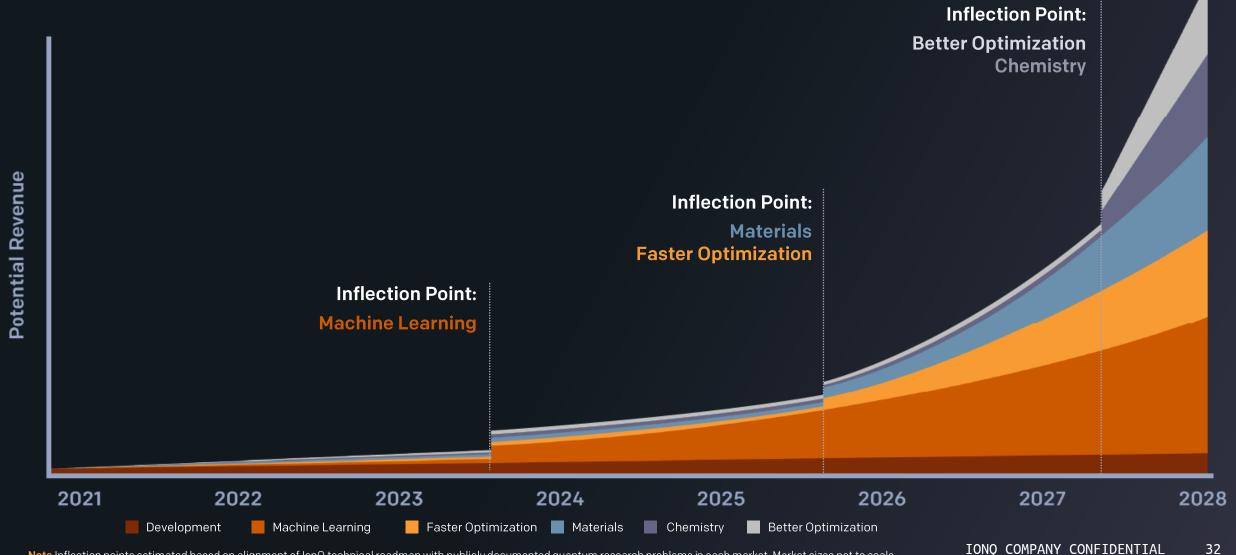
2026

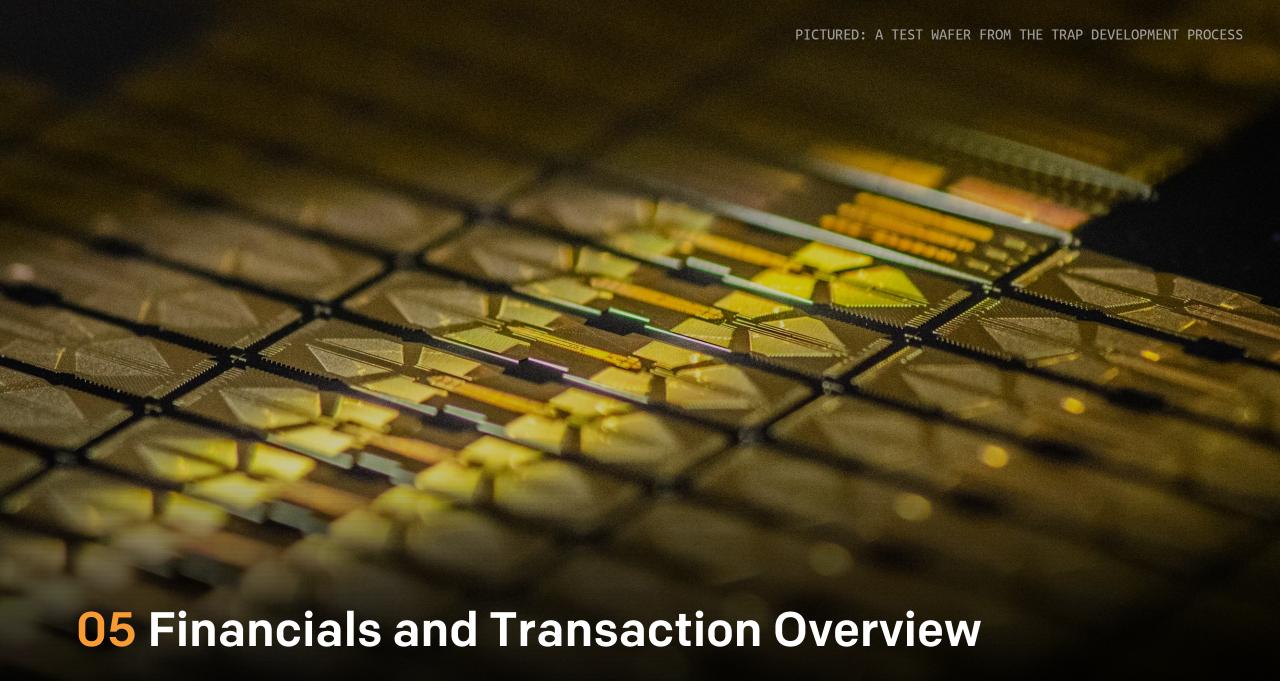
IonQ Projects

Leading Global Bank

Multiple initiatives related to fraud detection, portfolio optimization for capital requirement and risk mitigation

Technical Progress Unlocks Quantum Commercial **Markets Over Time**





Poised For Rapid Growth Over The Next Decade

Summary Forecasted Financial Data (\$M)



Key Growth Drivers & Commentary

Revenue projection includes algorithm co-development (professional services, compute) and full-scale applications.

Once sufficient computational power is reached for each market, lonQ unlocks substantial application potential, increasing potential demand.

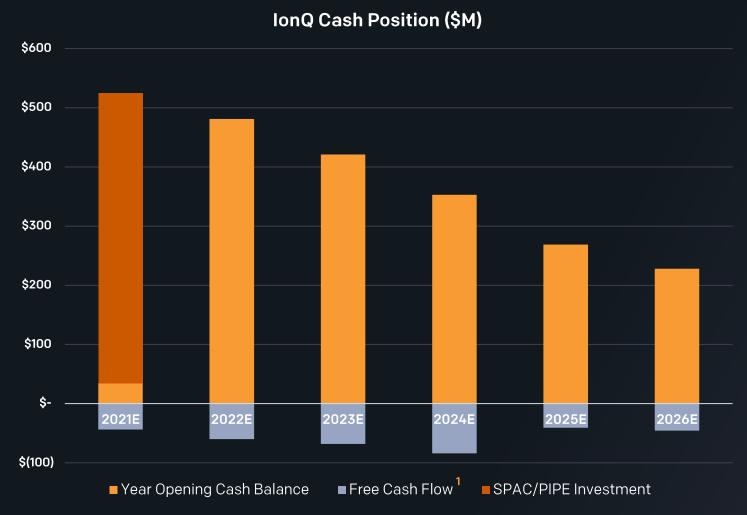
Expenses—consisting mainly of system builds, R&D projects, and headcount—are offset by compounding revenue potential.

As the market leader with the world's best quantum computers, lonQ expects to rapidly grow top-line, even while offering customers exponentially cheaper compute pricing.

Note Prepared on the basis of certain technical, market, competitive and other assumptions to be subsequently described in further detail, and which may not be satisfied. As a result, these projections are subject to a high degree of uncertainty and may not be achieved within the time-frames described or at all.

¹Revenue channels still being defined; exact nature and accounting recognition of lonQ revenue to be determined. Revenue may include prepayments, bookings, and recognized contracts.

IonQ Can Scale Quantum Compute With Controlled CapEx



Cash Balance

SPAC and PIPE are expected to fund lonQ to cashflow breakeven in 2027. lonQ may opportunistically consider debt facilities to fund additional system builds if market demand outpaces expectations.

Free Cash Flow

Operating Cash Flow scales as lonQ fulfills market demand with increasingly powerful quantum systems. lonQ expects to grow system count while maintaining a steady cash balance by exploiting manufacturing economies of scale.

Note \$36M approximate existing cash balance as of 1/1/2021, with an additional \$500M invested (\$300M from SPAC, \$250M from PIPE, net \$60M expected transaction fees) in 2021

Note Prepared on the basis of certain technical, market, competitive and other assumptions to be subsequently described in further detail, and which may not be satisfied. As a result, these projections are subject to a high degree of uncertainty and may not be achieved within the time-frames described or at all.

¹ Free Cash Flow is defined as the sum of net operating income and capital expenditures related to system builds.

Attractive and Increasing System Unit Economics



\$9.9M

System

LTV

\$2.1M

System

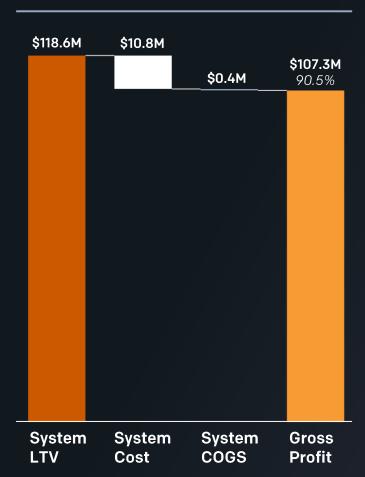
Cost

\$2.9M

System

COGS





Additional Commentary

Exponential increases in algorithmic qubit count drive system lifetime value, all while offering lower computer prices.

Utilization and uptime are also expected to improve as technology matures.

Overall, lonQ's cost per system increases over time, but cost-per-qubit and system COGS drop with economies of scale.

Note System Lifetime Value is defined as the system's algorithmic qubit count multiplied by expected per-algorithmic-qubit-hour pricing during system prime usage years. **System Cost** includes capitalized labor and materials for building the system. **System COGS** includes operations and maintenance, customer support, professional services, and other COGS attributable to an individual system.

\$4.9M

49.3%

Gross

Profit

Upon closing of the transaction, IonQ will trade on the NYSE under the symbol IONQ as the first public pure-play quantum computing hardware and software company.

We believe lonQ could grow at a pace similar to previous foundational computing companies.

Join us in creating the future.



Leading Cloud Partners





Fully Capitalized Balance Sheet

SPAC/PIPE will enable lonQ to expand its lead, consolidate the quantum market, and attract top talent as the central company in a growing industry





Summary Forecasted Financial Data

\$M	2021E	2022E	2023E	2024E	2025E	2026E
Systems Online (Year End) ¹	1	1	2	7	17	33
Revenue ²	5	15	34	60	237	522
% Growth		193%	118%	78%	288%	120%
(-) Costs of Goods Sold ³	(2)	(5)	(6)	(9)	(27)	(75)
Gross Profit	2	10	27	51	210	447
Gross Margin %	47%	67%	80%	85%	88%	85%
(-) Operating Expenses	(45)	(69)	(94)	(123)	(167)	(234)
Depreciation 3,4	1	2	2	4	18	60
EBITDA	(42)	(56)	(63)	(67)	61	272
(-) ITDA	(1)	(2)	(2)	(4)	(35)	(128)
Net Income	(43)	(58)	(66)	(71)	26	144
Net Income	(43)	(58)	(66)	(71)	26	144
Depreciation	1	2	2	4	18	60
(-) Capital Expenses	(1)	(3)	(4)	(16)	(85)	(250)
Free Cash Flow	(43)	(59)	(68)	(84)	(40)	(45)

¹ Systems online subject to change based on lonQ manufacturing timeframes. Figures shown reflect expected systems online at year end, but are not necessarily representative of total number of systems online during the year.

Note Prepared on the basis of certain technical, market, competitive and other assumptions to be subsequently described in further detail, and which may not be satisfied. As a result, these projections are subject to a high degree of uncertainty and may not be achieved within the time-frames described or at all.

² Revenue channels still being defined; exact nature and accounting recognition of lonQ revenue to be determined. Revenue may include prepayments, bookings, and recognized contracts.

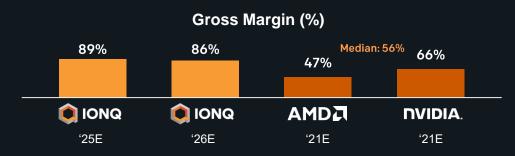
³ Costs of Goods Sold includes depreciation for commercial systems. Depreciation is added back in to calculate EBITDA.

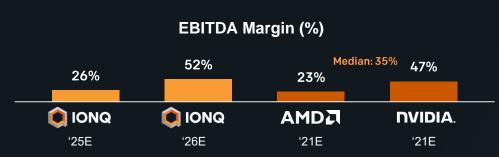
⁴ Depreciation is assumed for commercial systems over their prime usage years. Systems may retain commercial value for lonQ after prime usage years.

Operational and Valuation Benchmarking

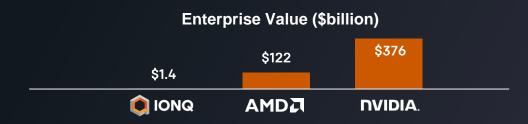
Operational

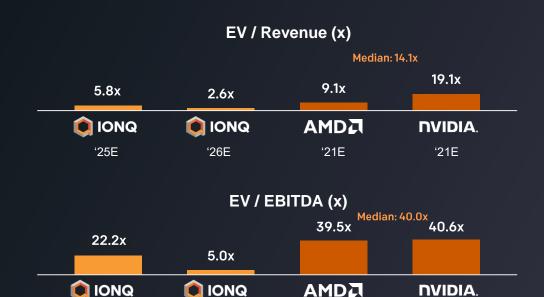
Revenue Growth (%) Median: 32% 30% 34% IONQ AMD 125-'26E 121-'23E 121-'23E





Valuation





'26E

'25E

'21E

'21E

IonQ Has Significant Upside Potential

(\$ in billions)



Summary of Approach

Applies a range of 10.0x – 15.0x EV / Revenue multiple to lonQ's 2026E revenue to arrive at an Implied Future Enterprise Value range.

Future Enterprise Value range is discounted 5 years at a 20% discount rate to arrive at an Implied Discounted Enterprise Value range.

2026E projected financials-based valuation is the appropriate approach given the expected roadmap for revenue growth and inflection point in Quantum Computing maturity.

Materials: Efficient Solar Conversion

Problem

Modern, commercially available solar cells convert sunlight into electricity with about 20% efficiency, with the market valued at \$115 billion in 2019. Improving efficiency with existing technology is prohibitively expensive.

Solution

Solar energy production is expected to increase by approximately 35% by 2027, even given 20% efficiency. With approximately 90 algorithmic qubits, lonQ could model the energy transfer process used in photosynthesis, unlocking the opportunity for much more efficient solar cells that approach 100% efficiency. This step-change improvement would have dramatic impact on the market and the planet.

Algorithmic Qubits

Year Enabled

90

2026

IonQ Projects

Chemicals & Materials Multinational

Benchmarking of widely applicable technique for complex molecules (density matrix embedding)

¹ Most Efficient Solar Panels 2020, Clean Energy Reviews (2020)

Chemistry: Materials for Better Electric Vehicles

Problem

The electric vehicle market is rapidly emerging, with a large amount of value still left to capture by companies that can effectively innovate in the space. Today, the avenues for innovation—better materials and manufacturing processes, better batteries, etc.—are computationally intensive and/or require costly and slow physical materials synthesis.

Solution

A quantum computer with approximately 256 algorithmic qubits could discover better battery materials faster by performing quantum simulations that are impossible on classical computers, improving range, safety and efficiency without costly synthesis and testing. Several automakers are actively piloting quantum computing to address this problem and more.

Algorithmic Qubits

Year Enabled

256

2026

IonQ Projects

Multinational Electronics Conglomerate

Engaged to research and run a variety of materials, electronics, and optimization-focused algorithms

Quantum Solutions Firm

Chemical modeling of simple hydrocarbons relevant to the oil and gas industry

Optimization: Logistics

Problem

As an illustrative example among many parcel services: a UPS driver makes an average of 135 deliveries daily. The number of possible routes they could take is so large, it has 227 digits. It would take a classical computer longer than the age of the universe to calculate the truly optimal route for just one driver. UPS would like to do this for more than 66,000 routes, daily.

Solution

UPS estimates that their current software, which only provides approximately optimal routes, saves the company 100 million miles each year, at a cost savings of approximately \$250 million per year. With 1000 algorithmic qubits, a quantum computer could find truly optimal routing, saving additional millions.

Algorithmic Qubits

Year Enabled

1000

2028

1 <u>UPS To Enhance ORION With Continuous Delivery Route Optimization</u>, UPS Pressroom (2020)

2 ORION Backgrounder, UPS Pressroom (2020)

3 Beating classical heuristics for the binary paint shop problem with the quantum approximate optimization algorithm, arXiv:2011.03403 (2020)

IonQ Projects



Successfully ran a broadly-applicable optimization problem (Binary Paint Shop) on lonQ hardware³



International Telecom Firm

Projects focusing on telecommunications network and logistics optimization

Optimization: Improved Drug Discovery

Problem

The average cost to develop a new pharmaceutical is nearly \$2.2 billion. A large portion of this cost is due to the inefficiency of pre-clinical research: it takes 10,000 small molecules initially screened to yield just 10 candidates for clinical trials, and fewer than 10% of clinical trial candidates result in a new drug.¹

Solution

Large-scale quantum computers will offer many potential improvements to this process, including more accurate computational chemistry and effect modeling. Reducing the cost of development by just 10% would translate to a customer benefit of \$200 million.

Algorithmic Qubits

1000²

Year Enabled

2028

2 Qubit requirements are compound-dependent

¹ Intelligent drug discovery, Deloitte Insights (2019)

Quantum Computing at The Edge

Problem

As quantum computing applications mature, dedicated, on-site systems will become increasingly attractive to certain customers, including financial firms looking to minimize over-the-wire time, compute-centric businesses with high throughput needs, and increasingly-advanced defense platforms that could benefit from onboard quantum compute capability.

Solution

lonQ's increasingly miniaturized and stable quantum computers are uniquely positioned to capture this market, whether on wall street, in a datacenter, or onboard the next generation of US military assets.

lonQ expects to deliver its first edge-deployed quantum computer within the next 18 months.

Estimated Need (in units)

5,000-25,000

IonQ Projects

Aerospace & Defense Firm

Agreement to put a future-generation system in an aircraft