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October 7, 2025

The Future is Quantum:

Investing in the technology poised to solve the most pressing challenges of our time

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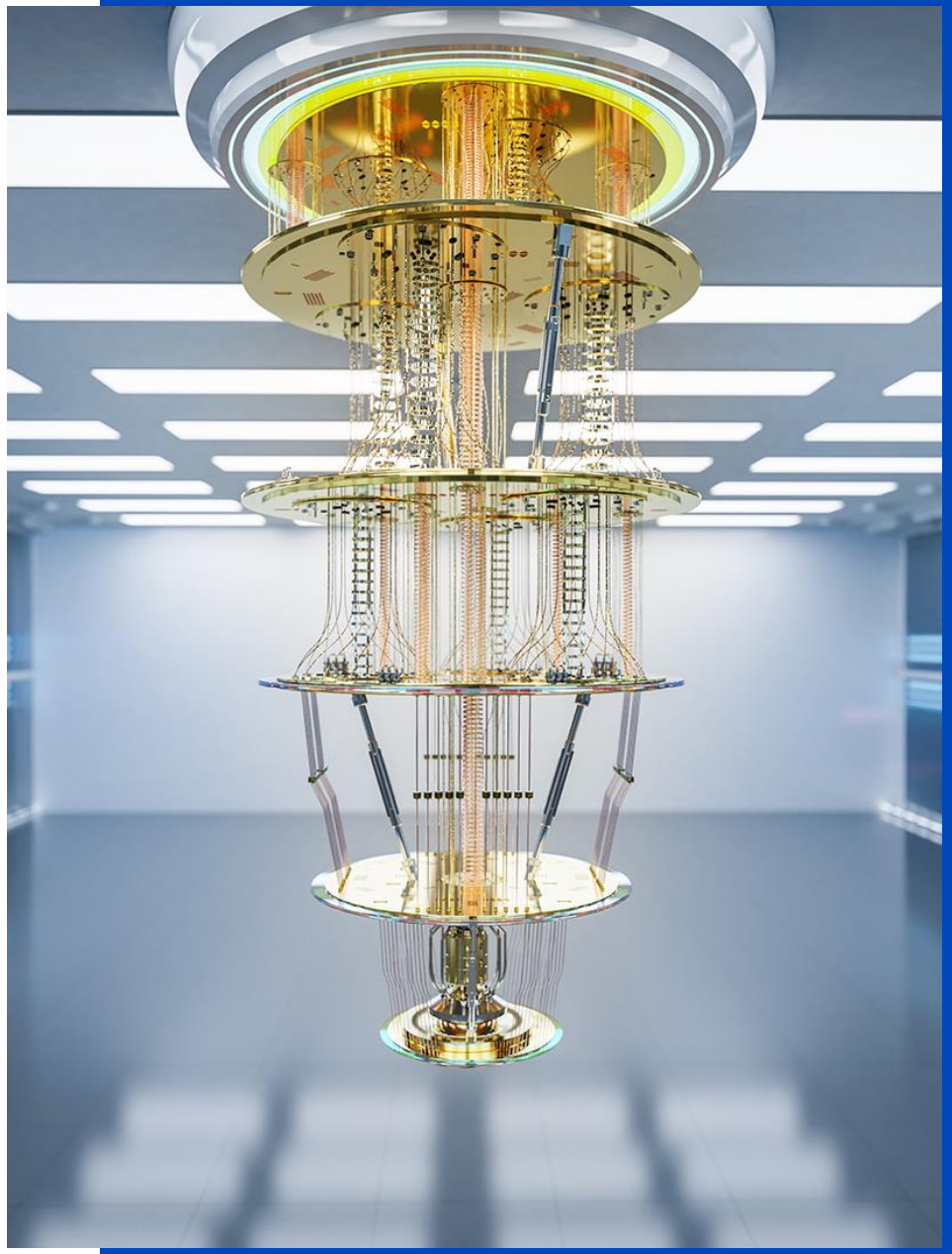
As with all investments, your capital is at risk

WisdomTree®

Exploring early-stage investment opportunities in quantum computing

October 2025



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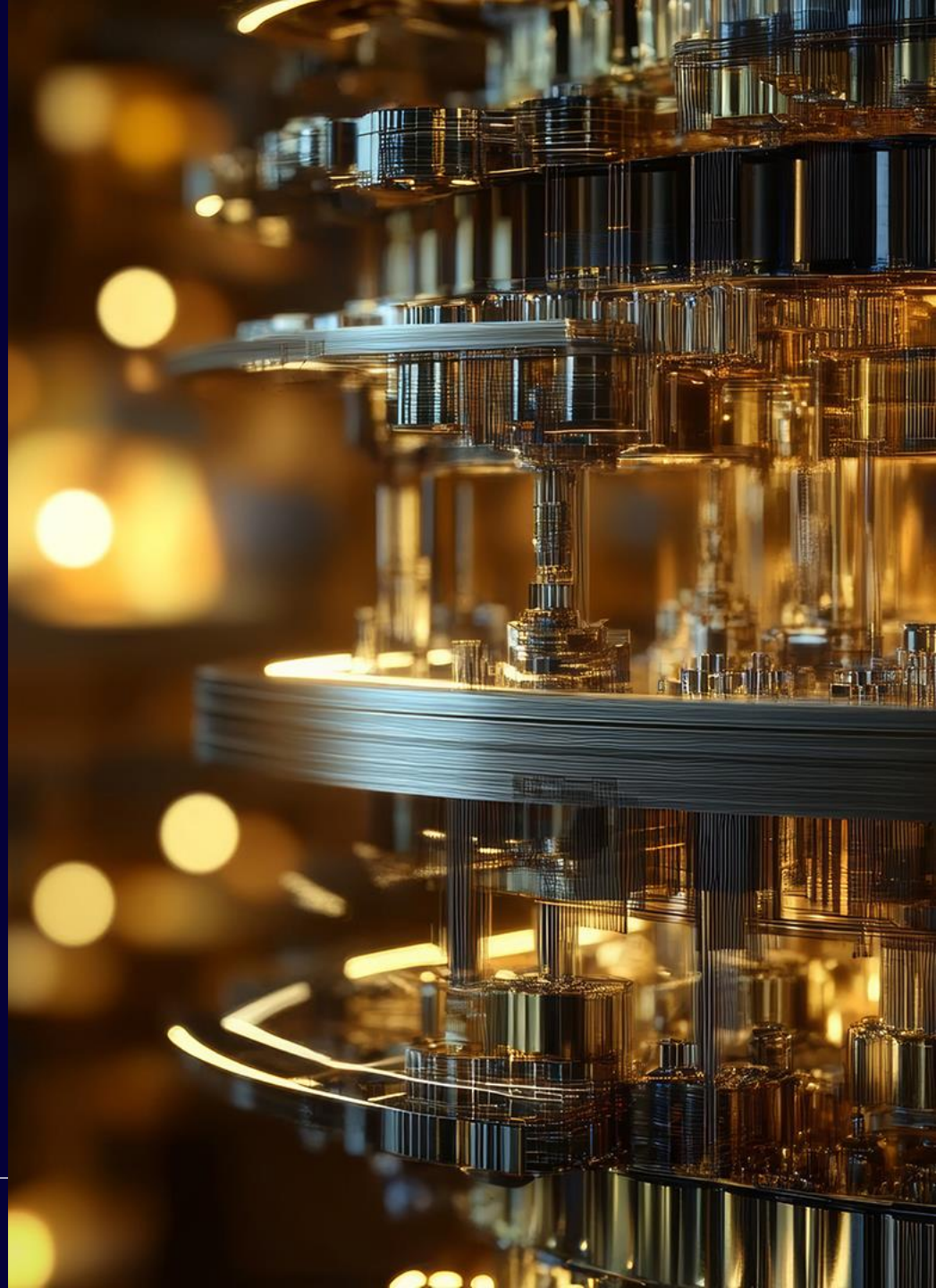
What is Quantum Computing?



What is Quantum Computing?

+ Quantum computing refers to a **paradigm shift in information processing**, using **quantum bits** (qubits) that, unlike classical bits which are either 0 or 1, can exist in both states simultaneously.

+ Quantum Computers will represent a revolutionary leap in computational power and information processing, enabling **problem-solving at scales and speeds far beyond the reach of classical computers**.

+ By harnessing the principles of quantum mechanics, **quantum computing is poised to unlock breakthroughs across diverse areas** from drug discovery, climate modelling to artificial intelligence, materials science, finance and supply chain management – **addressing some of the most pressing challenges of our time.**

Early 20th century

The foundation of quantum mechanics was laid with a series of discoveries

1981 1985

The concept of a quantum computer harnessing the principles of quantum mechanics established

2025 2030

Potential inflection point in quantum computing and **acceleration of the timeline** towards a fully fault-tolerant quantum computer

Source: WisdomTree.

Introducing key definitions in Quantum Computing

Qubit

+ The basic unit of quantum information, a qubit can exist in a combination of 0 and 1 through a property called superposition.

Quantum advantage

+ Signifies outperformance of quantum systems over classical computers in solving real-world problems.

Fault-Tolerant Quantum Computing

+ A fully error-corrected quantum system that can run complex and long-duration algorithms reliably – essential for unlocking full-scale quantum applications across industries.

Q Day

+ Refers to the moment when quantum computers become powerful enough to break widely used public-key encryption systems.

Source: WisdomTree

Willow, our latest quantum chip, performed a standard benchmark computation in under five minutes that would take one of today's fastest supercomputers 10 septillion (that is, 10^{25}) years — a number that vastly exceeds the age of the Universe.

Hartmut Neven
Founder and Lead, Google Quantum AI

Source: Google, Meet Willow, our state-of-the-art quantum chip.

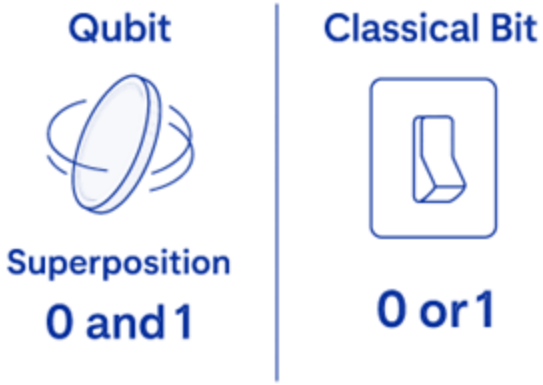
Quantum computing vs. classical computing

	Classical computing	Quantum computing
Basic Unit of Information	Bit (0 or 1)	Qubit (0, 1, or both simultaneously due to superposition)
Processing Power	Increases linearly with more bits	Increases exponentially with more qubits
Error Rate	Low and well-managed	High error rates; requires quantum error correction
Applications	General-purpose tasks	Specialised tasks involving extremely complex calculations, e.g. optimisation, simulation, factorisation
Maturity Level	Fully mature and widely adopted	Early-stage, experimental, rapidly evolving
Hardware Requirements	Uses silicon chips, runs at room temperature	Most qubit technologies need complex physical setups
Software Ecosystem	Extensive, mature OSs, tools, and development frameworks	Emerging quantum programming languages, Python-based frameworks (Qiskit, Cirq)

Peculiar properties of qubits that enable quantum computing

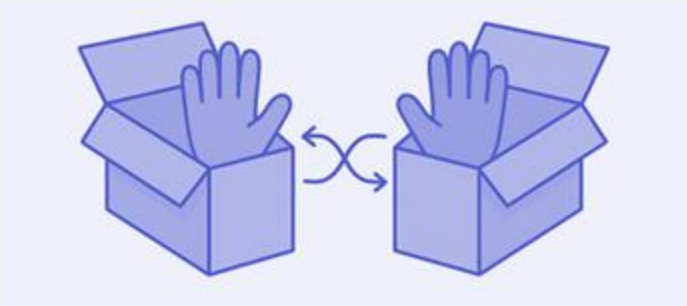
Superposition

- Superposition is a fundamental quantum property that allows a qubit to exist in a combination of both 0 and 1 at the same time — until it is measured.
- Measuring qubits destroys their quantum state.



Entanglement

- A special quantum connection between two or more qubits where the state of one instantly affects the state of the other.
- It allows quantum computers to perform powerful, multi-qubit operations.



Interference

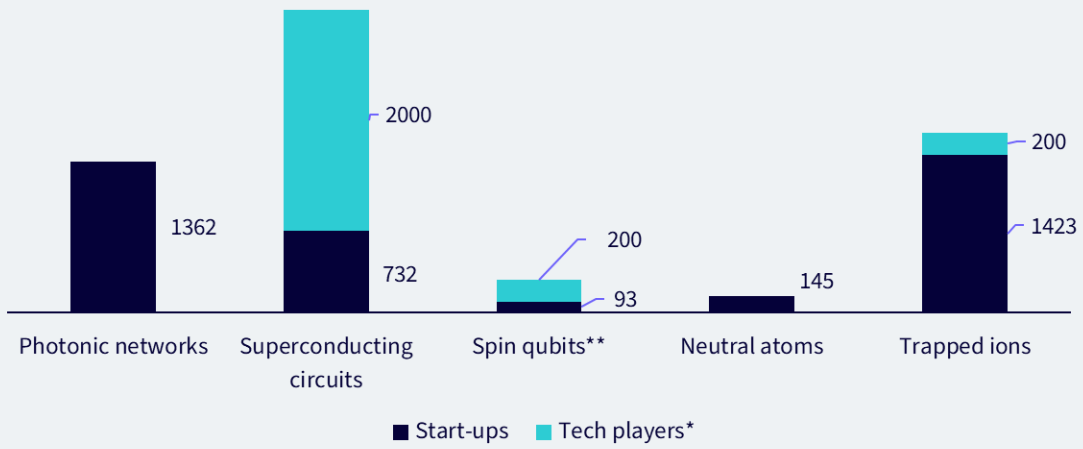
- Interference happens when different paths a qubit can take interact with each other – either strengthening (constructive interference) or cancelling out (destructive interference) the probabilities of certain outcomes.
- Helps quantum algorithms amplify the right answers and suppress the wrong ones.

Source: WisdomTree.

Diversity of qubit modalities highlights that there is no one way to get to a fully fault-tolerant quantum computer

Qubit type	Example companies
Superconducting Qubits	IBM, Google, Rigetti
Trapped Ions	IonQ, Quantinuum
Photonic Qubits	Xanadu, PsiQuantum
Spin Qubits in Silicon	Intel, Hitachi, Diraq, Silicon Quantum Computing
Neutral Atom Qubits	QuEra, Pasqal
Other Superconducting	Microsoft (topological qubits, research phase), Amazon (cat qubits)

Funding in main qubit modalities underpinning currently developed quantum computers ($, million)



Source: McKinesy & Co, "What is quantum computing?" published on 31 March 2025, using Capital IQ, Crunchbase, Pitchbook, McKinsey analysis.
*Assumptions: $500 million per major player (Google, IBM, Alibaba, AWS) and $200 million per medium player (Honeywell before merger with CQC into Quantinuum, Intel).
**Electron spins in silicon quantum dots are examined here because other spin qubits are generally not considered for applications in quantum computing.

From fragile qubits to scalable systems: technical barriers and near-term pathways

Qubit count and scalability

+ Achieving **meaningful quantum advantage** will require scaling from today's noisy **physical qubits** to hundreds or thousands of **error-corrected logical qubits.**

Noise and decoherence

+ Quantum systems are highly **sensitive** to environmental **noise** that impacts **coherence time**, i.e. the duration a qubit stays in a quantum state.

Control algorithms and system stability

+ **Software** and **hardware** used to precisely **manage qubit operations, calibrate gates**, and **maintain system performance** over time.

Error correction & overhead

+ A set of techniques used to detect and **correct errors** in qubit operations caused by **noise** and **instability** and associated **overhead** it causes.

Limitations of qubit modalities

+ Trade-offs in coherence, gate fidelity, and scalability.

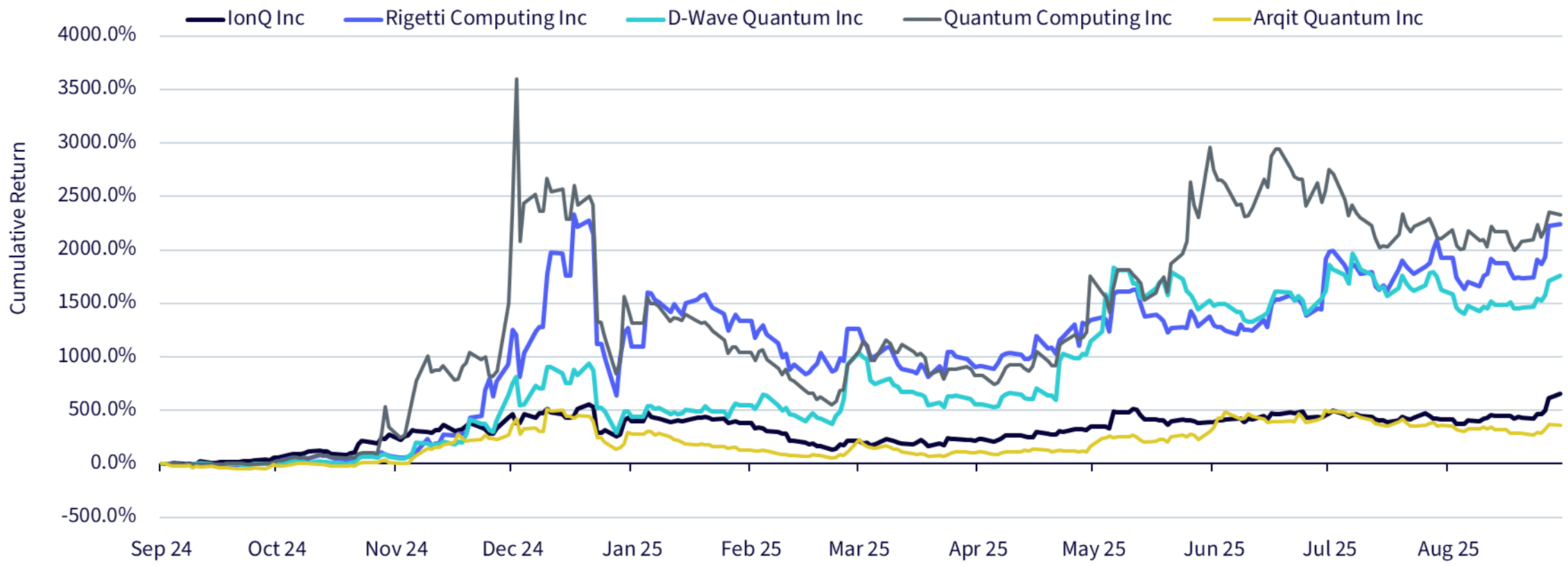
Source: WisdomTree.

Recent technological milestones have strengthened investor optimism and underscore how quickly the field is advancing

Google	Microsoft	amazon	IBM	IONQ
+ Unveiling of Willow processor + Quantum supremacy in Random Circuit Sampling (RCS) + First below-threshold error correction	+ Topological-Core quantum processor Majorana 1 + Introduction of topoconductor materials + Roadmap to million-qubit scale	+ Unveiling of Ocelot chip + Cat qubits for error suppression + Up to 90% reduction in overhead cost of error correction	+ IBM Quantum Starling roadmap: + Large-scale, fault-tolerant quantum computer (200 logical qubits, 100 M gates) by 2029	+ IonQ's updated roadmap: + 20,000 physical qubits by 2028 + 2 million physical qubits by 2030

Source: WisdomTree, based on information on respective company websites. September 2025.

Investor enthusiasm in recent developments has been reflected in share prices of companies involved in quantum computing and post-quantum cryptography



Source: WisdomTree, Bloomberg. Period from 16 September 2024 to 15 September 2025. Historical performance is not an indication of future performance and any investments may go down in value.

Any company displayed are for illustrative purposes only and are not intended to portray recommendations, or an invitation or inducement to trade a particular financial instrument or to engage in an investment activity.

Introducing Shor's Algorithm: how quantum computing threatens modern encryption

What Is Shor's Algorithm?

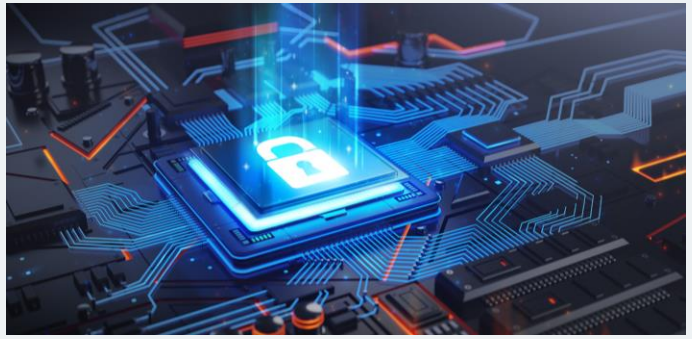
- **Definition:**
  A quantum algorithm that can **efficiently factor large integers**, solving a problem classical computers find intractable.

Why It Matters – Encryption at Risk

- **Core Insight:**
  - Most public-key cryptography (e.g., RSA, ECC) relies on factoring and discrete log problems that quantum computers can break using Shor's Algorithm.
- **Real-World Threat:**
  - "Q Day" = the moment quantum computers can decrypt today's data.
  - Harvest-now-decrypt-later risk already exists — adversaries may store encrypted data now for later decryption.

What Comes Next – Preparing for Q Day

- **Action Required:**
  - Transition to Post-Quantum Cryptography (PQC).
  - Follow NIST-approved algorithms for quantum-safe encryption.
  - Protect data that must remain secure long-term (e.g., IP, military, health records).



Source: WisdomTree. NIST is National Institute of Standards and Technology.

Bridging the gap to fault-tolerant quantum computing: Hybrid quantum-classical architecture

Hybrid systems combine the strengths of quantum processors with classical high-performance computing (HPC), enabling practical value creation today while building toward fully fault-tolerant quantum computing.

NISQ processors, error-prone but with quantum advantage potential

Classical Computer

- Handles data preparation, optimization loops, and post-processing
- Orchestrates workflows, applies error mitigation techniques, and updates quantum circuit parameters

Quantum Accelerator

- Executes the quantum portion of an algorithm
- Provides computational speedups for tasks that are classically intractable

Scalable, error-corrected, full-stack quantum computing

Source: WisdomTree. NISQ refers to the current stage of quantum computing, defined by the term Noisy Intermediate-Scale Quantum (NISQ), introduced by physicist John Preskill in 2018.

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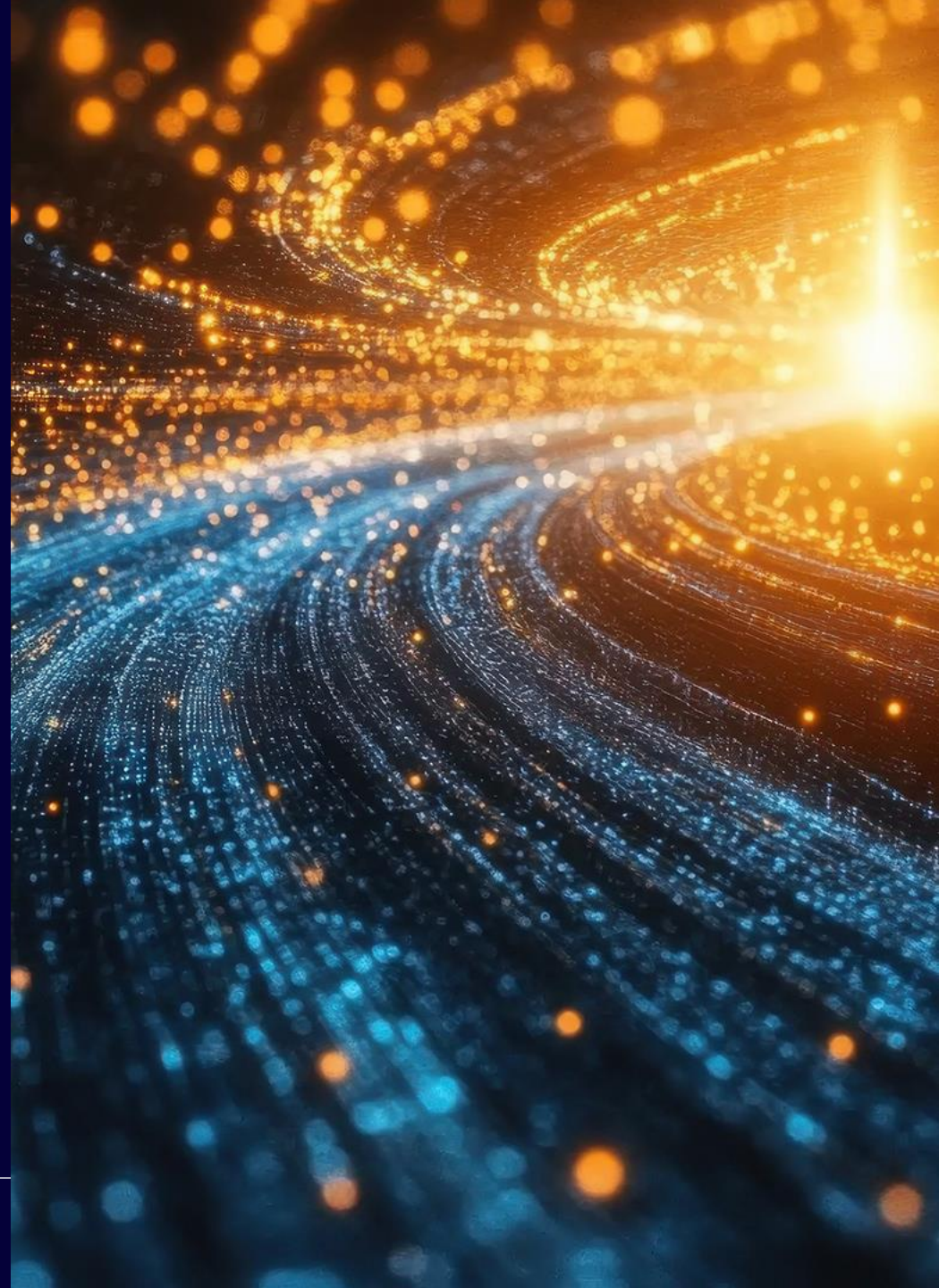
Quantum Computing - transformation potential and investment opportunity



“If you want to make a simulation of nature, you’d better make it quantum mechanical”

Richard Feynman
Nobel laureate in Physics

Source: Springer Nature Limited, Quantum simulation | Nature Physics.

The promise of quantum advantage positions quantum computing as a strategically critical domain for governments and businesses

Estimated economic value of quantum computing across selected domains in the next 5 to 10 years

Key segment for quantum computing	Economic value ~2025-2030	Economic value ~2030-2035	2035 market size, $ trillion	Value at stake with incremental impact of quantum computing by 2035, $ billion
Financial services*	++	+++	14.1	400-600
Sustainable energy**	+	+++		
Chemicals	++	+++	6.1	200-500
Travel, transport, and logistics	+	+++	14.1	200-500
Pharmaceuticals	++	+++	3.1	70-400
Automotive	+	++	8.3	50-100

Economic value:		
	+	*Low*
	++	*Medium*
	+++	*High*

Source: McKinsey & Co, "Quantum Technology Monitor", April 2024.
*Quantum computing technologies and industry is immature and has high uncertainty for viability and value of use cases. Business-value estimates are preliminary and intended to guide research toward high-value-potential areas, not as definitive projections for business value. Insurance is not included.
**Sustainable energy market is expected to grow rapidly from 2022–2035; however, the 2035 market size is influenced by numerous factors and challenging to predict.
Forecasts are not an indicator of future performance, and any investments are subject to risks and uncertainties.

McKinsey & Co estimates that in the next 5 to 10 years quantum computing will deliver significant economic value across several domains, such as **finance, pharmaceuticals, energy and materials, transport and logistics**, with aggregate **value at stake amounting to $1T - $2T.**

McKinsey & Co
"Quantum Technology Monitor", April 2024

Potential use cases for quantum computers

Healthcare

+ Accelerate drug discovery
+ Unlock cures via protein folding
+ Deliver precision medicine
+ Optimise clinical trials

Climate change

+ Engineer carbon capture materials
+ Discover next-gen energy storage
+ Design eco-friendly chemicals
+ Model Earth's climate with accuracy
+ Optimise renewable energy systems

Finance

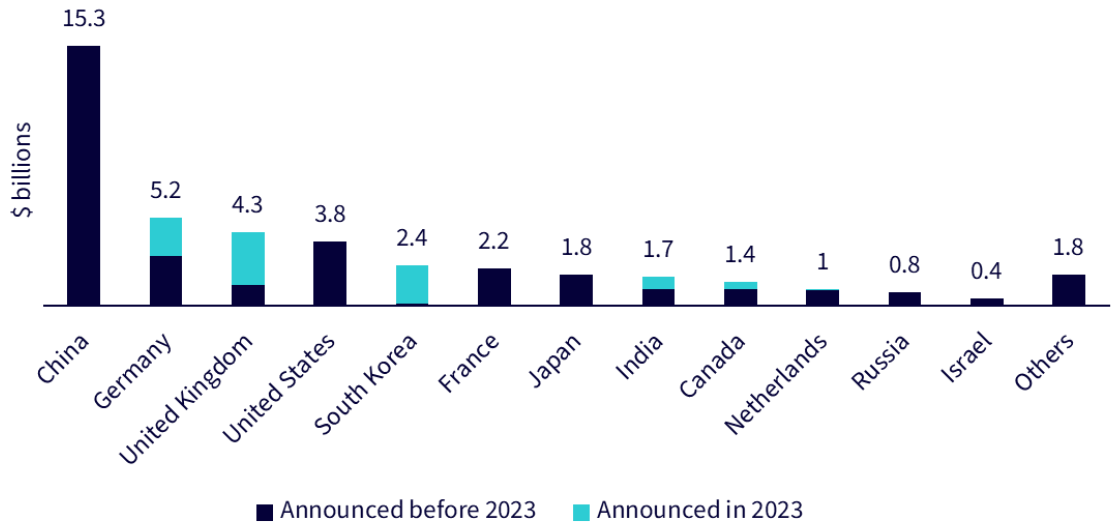
+ Optimize portfolios & risk management
+ Price complex derivatives
+ Strengthen fraud detection & cybersecurity
+ Run real-time market simulations

Source: WisdomTree.

Quantum computing's potential to solve problems intractable for classical computers has attracted billions of dollars in funding

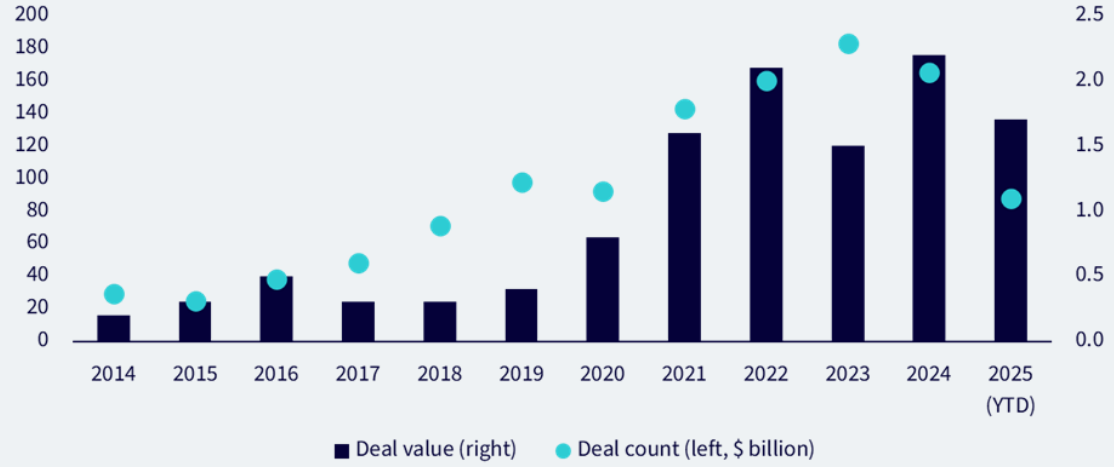
Government funding

+ Governments worldwide are significantly increasing their investments in quantum technologies. The latest estimates suggest announced total public funding at approximately $42 billion[1]. This level of financial commitment underscores governmental recognition of quantum computing's transformative potential to advance national security, economic competitiveness, and technological innovation.



Venture capital

+ Increasing venture capital activity and growing investments into quantum startups reflect rising investor confidence in the field's transformative impact.

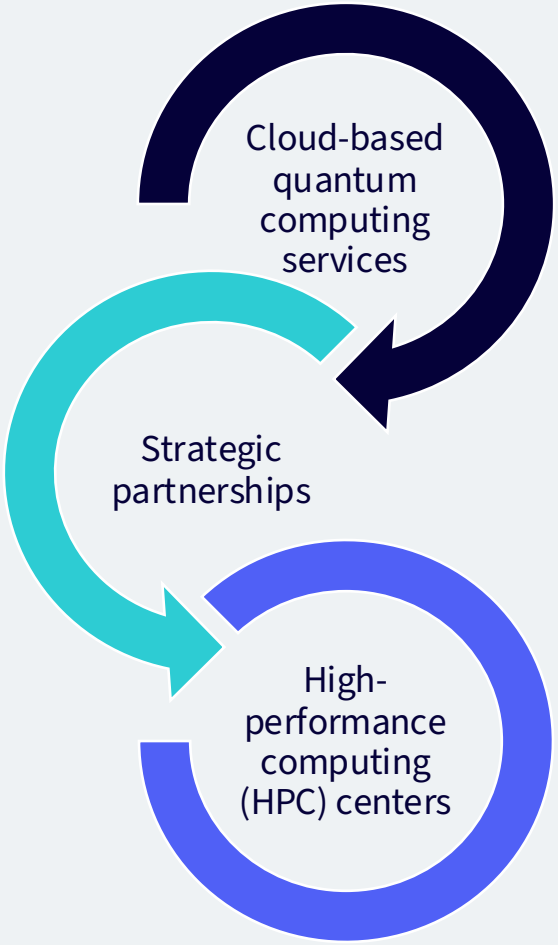


Source: Left chart - McKinsey & Co, "Quantum Technology Monitor", April 2024. Right chart - PitchBook News, as of 12th June 2025.

1. McKinsey & Company, "Steady progress in approaching the quantum advantage", April 2024.

Past performance is not a reliable indicator of future results.

In addition to funding, several developments are supporting the recent surge in quantum computing activities



+ Major technology providers such as Amazon, Google, IBM, and Microsoft have increasingly offered accessible cloud-based quantum computing services, broadening the user base and accelerating quantum research and experimentation across industries.

+ Strategic partnerships between quantum startups, industry leaders, and academic institutions are fostering cross-disciplinary innovation, rapidly advancing technological breakthroughs, and shortening timelines to market readiness.

+ High-performance computing (HPC) centers worldwide are being upgraded to accommodate quantum computing infrastructure, creating a supportive ecosystem crucial for the practical deployment and scalability of quantum technologies.

“Quantum computing is reaching an inflection point”

Jensen Huang
CEO of NVIDIA at NVIDIA GTC 2025

Source: NVIDIA, NVIDIA CEO Drops the Blueprint for Europe’s AI Boom | NVIDIA Blog.

Quantum computing on its way to inflection point

Technological breakthroughs

A surge in quantum computing activities

Public funding and increased awareness

The anticipation of Q Day

Talent Development

A nexus of quantum computing and AI

Source: WisdomTree.

Capturing the investment potential of quantum computing

Broad ecosystem exposure

Quantum computing extends far beyond hardware with broad ecosystem and diverse growth opportunities tied to the advancement of quantum computing.

Transition from private to public markets

Early exposure positions investors to benefit as quantum startups move into public markets, expanding investable opportunities.

Investments from large, diversified players

Major tech and diversified firms are accelerating quantum innovation, with milestones likely to drive investor enthusiasm and share price momentum.

Growth through enabling players

Enabling companies in quantum and AI infrastructure offer dual exposure to high-growth sectors, amplifying investor opportunities through synergistic demand.

Capitalisation on quantum readiness

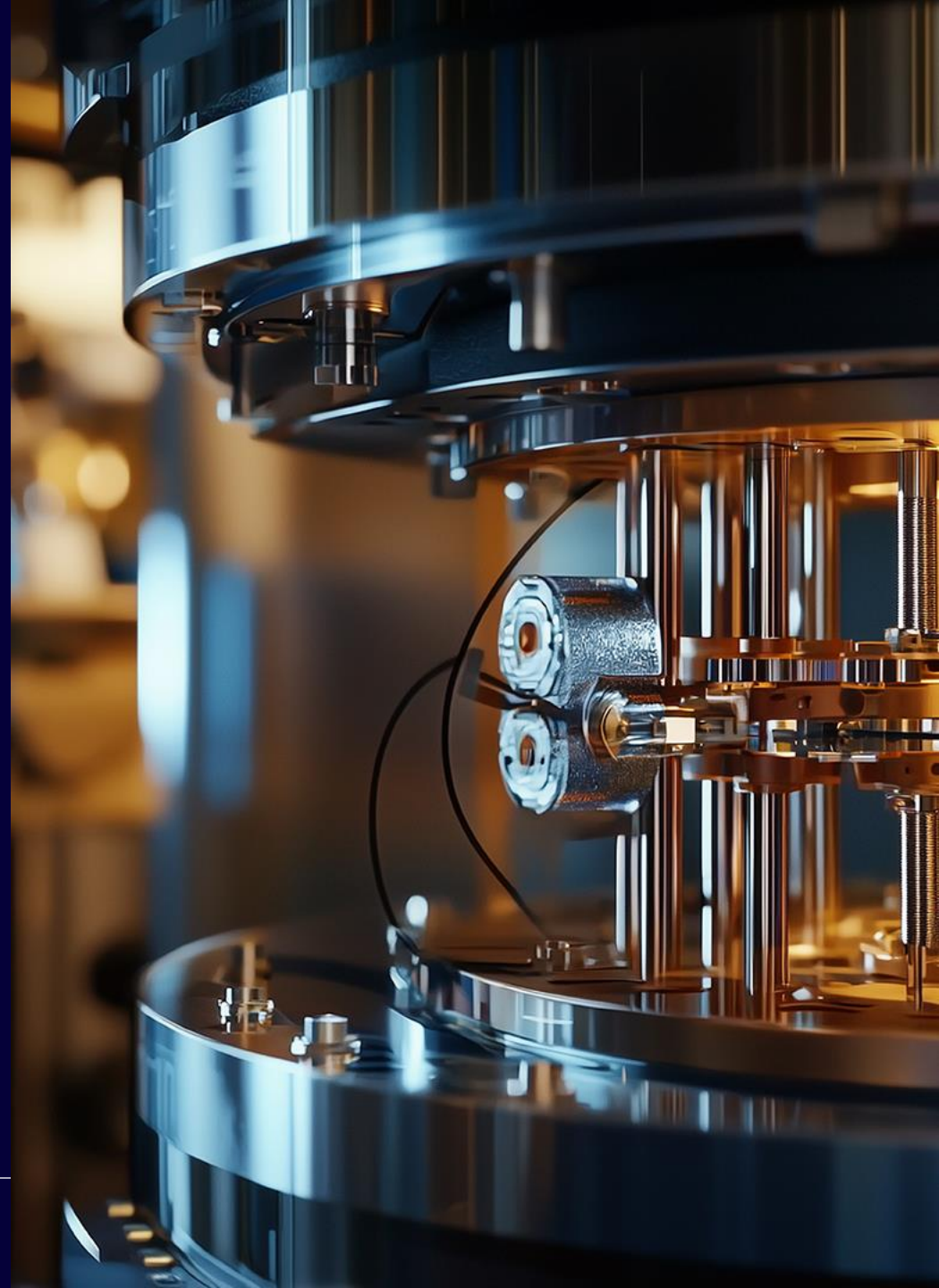
Rising urgency for quantum-secure solutions and quantum readiness is fuelling early growth in post-quantum cryptography (PQC) and quantum communications, offering pre-commercial investment potential.

Growth potential and volatility

A diversified approach – balancing pure-play quantum stocks with established firms – can capture growth potential of the field while managing volatility and risk associated with an emerging space.

3

How WisdomTree captures the investment opportunity



The WisdomTree Quantum Computing strategy

Early exposure to the rapidly developing and transformative megatrend

A balance of purity and diversification

A combination of purity and relevance

Expert-driven selection

Source: WisdomTree

Introducing our expert partner - Classiq

$173M

+ Total funding raised as of May 2025. The latest $110 million Series C funding round was the **largest ever for a quantum software company**[1].

Clients

+ Clients include **BMW, Rolls Royce, HSBC, Deloitte, Citi, AT&T** and other Fortune 500 firms across finance, chemicals & pharma, logistics, energy, aerospace & defence and other sectors.

Partners

+ Numerous high-profile partners in the quantum computing space, including **Microsoft, Amazon, Nvidia and Intel**.

65 employees

+ Classiq is quickly scaling and is planning to expand its headcount.

Investors

+ Classiq counts **SoftBank Vision Fund, Norwest, Team8, Hamilton Lane, Entree Capital, HSBC** among its investors.

60+

+ Patents in Quantum Computing.

"We are building the **Microsoft of quantum computing.**"

Nir Minerbi, CEO & Co-founder of Classiq

Source: Classiq, WisdomTree.

1. https://www.classiq.io/insights/classiq-raises-110m-in-largest-ever-quantum-software-funding-round . Past performance is not a reliable indicator of future results.

Industry-wide integration of Classiq's Quantum Operating System

Citi and Classiq advance quantum solutions for portfolio optimization using Amazon Braket | Amazon Web Services

Wolfram and Classiq integrate advanced quantum software tools into Mathematica

Classiq, BMW, NVIDIA Pioneer Quantum Computing for Enhanced Electric Vehicle Efficiency


HPE, Classiq Develop Quantum Hybrid Optimization Method

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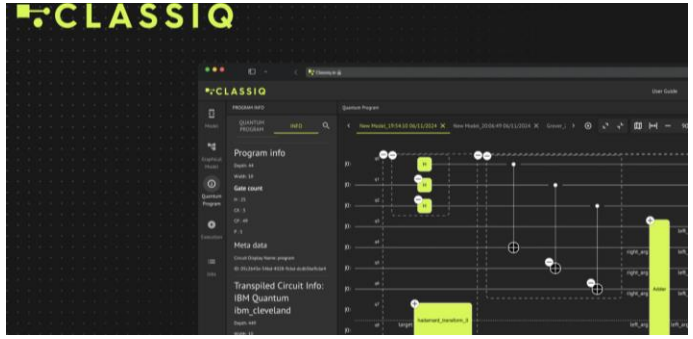
Classiq is uniquely positioned to bring deep insights in the quantum computing space

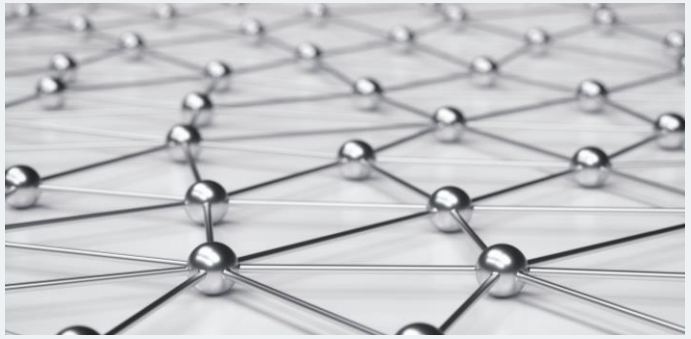
A leading quantum software company

+ Classiq is a leading quantum software company that democratises access to quantum computing through **a high-level hardware-agnostic Quantum Operating System**[1] enabling the development of scalable, real-world quantum applications. **Azure Quantum, Amazon Braket, IBM Quantum,** and **Google Quantum** are all fully integrated with Classiq's quantum platform.



Deeply integrated into the quantum computing ecosystem

+ Classiq is deeply integrated into the quantum computing ecosystem through their **Quantum Operating System** and **numerous corporate and academic partnerships**, including **Microsoft, Amazon, NVIDIA** and **Intel**. For example, over 280 universities can engage with Azure Quantum through Classiq.



Domain-specific expertise and deep insights

+ Through industry collaborations, a compelling product offering and a high-profile client portfolio, Classiq is uniquely positioned to bring **insights** on **leading companies** and **latest developments** in the quantum computing space.

Source: WisdomTree, Classiq. 1. The operating system is available at www.quantum.new.

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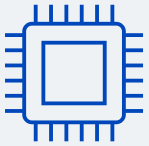
WisdomTree's Quantum Computing ecosystem

Recognising the inflection point in the quantum computing space, WisdomTree offers investors to gain early exposure to companies driving the development and adoption of this transformative technology across the quantum computing ecosystem:

+ Quantum chips and qubit technology providers
+ Quantum software and algorithm providers
+ Quantum annealing and simulation providers
+ Quantum-as-a-Service providers
+ Post-quantum cryptography providers
+ Quantum networking and communications providers
+ Advanced computing providers
+ Providers of tools and infrastructure, as well as semiconductors, materials, and components



Quantum chips and qubit technology providers

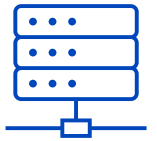
Quantum software and algorithm providers

Quantum annealing and simulation providers

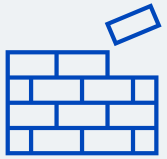
Quantum-as-a-Service providers

Post-quantum cryptography providers

Quantum networking and communications providers



Advanced computing providers



Providers of tools and infrastructure, semiconductors, materials, and components to companies involved in the development of quantum computing technologies

Source: WisdomTree.

Example companies within the quantum computing ecosystem

Quantum chips and qubit technology providers	Quantum annealing and simulation providers	Quantum software and algorithm providers	Quantum-as-a-Service providers
IONQ, rigetti, QCi, Microsoft, Google, IBM, amazon	D-Wave The Quantum Computing Company, NVIDIA	QCi, IBM, Microsoft, CLASSIQ, Q-CTRL, QUANTUM MACHINES	Microsoft, Google, IBM, amazon

Post-quantum cryptography providers	Quantum networking and communications providers	Advanced computing providers	Providers of tools and infrastructure, semiconductors, materials, and components
ARQIT	SK telecom, CISCO, NOKIA	Hewlett Packard Enterprise, DELL	tsmc, GlobalFoundries, SYNOPSYS, KEYSIGHT, FormFactor

Source: WisdomTree.

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Relevancy-driven selection process creates a balance of pure players and large diversified leaders

Relevancy Score

+ The Relevancy Score is set at 3, 2, or 1, reflecting **high, medium, or low relevancy** of each company's involvement in Quantum Computing activities and **significance** of those activities for the progress of Quantum Computing.

	Example companies
3	IonQ, Rigetti Computing, D-Wave Quantum IBM, Alphabet, Microsoft, Amazon
2	SK Telecom, Cisco Systems
1	TSMC, GlobalFoundries, Keysight Technologies, FormFactor

Purity Classification

+ The Purity Classification is specified as '**Pure**' or '**Diversified**', depending on the business focus and, where applicable, concentration of revenue derived from Quantum Computing activities.

	Example companies
Pure	IonQ, Rigetti Computing, Quantum Computing, D-Wave Quantum, Arqit Quantum
Diversified	IBM, Alphabet, Microsoft, Amazon

Source: WisdomTree. You cannot invest directly in an index. Historical performance is not an indication of future performance, and any investments may go down in value.

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A two-stage weighting process

Stage 1 – Relevancy Score adjustment

	Relevancy Score 3	Relevancy Score 2	Relevancy Score 1
Starting weights	Equal weights		
Weight adjustment	30% upweight	same weight	30% downweight

Stage 2 – Purity Classification adjustment[1]

	Pure	Diversified
Starting weights	Weights from Stage 1	
Weight adjustment	30% upweight	30% downweight

Weight factors overview

Purity	Relevancy	Initial weight	Relevancy adjusted	Purity adjusted
Pure	3	1	↑ 1.3	↑ 1.69
	2	1	→ 1	↑ 1.3
	1	1	↓ 0.7	→ 0.91
Diversified	3	1	↑ 1.3	→ 0.91
	2	1	→ 1	↓ 0.7
	1	1	↓ 0.7	↓ 0.49

Additional weight adjustments

Max 15% cap on single constituents	Weights adjusted further to incorporate capping rule
$100mn implied liquidity	Weights adjusted further to ensure implied liquidity at rebalance

Source: WisdomTree. 1. After Relevancy and Purity adjustments, weights are normalised to sum up to 100%.
You cannot invest directly in an index. Historical performance is not an indication of future performance, and any investments may go down in value.

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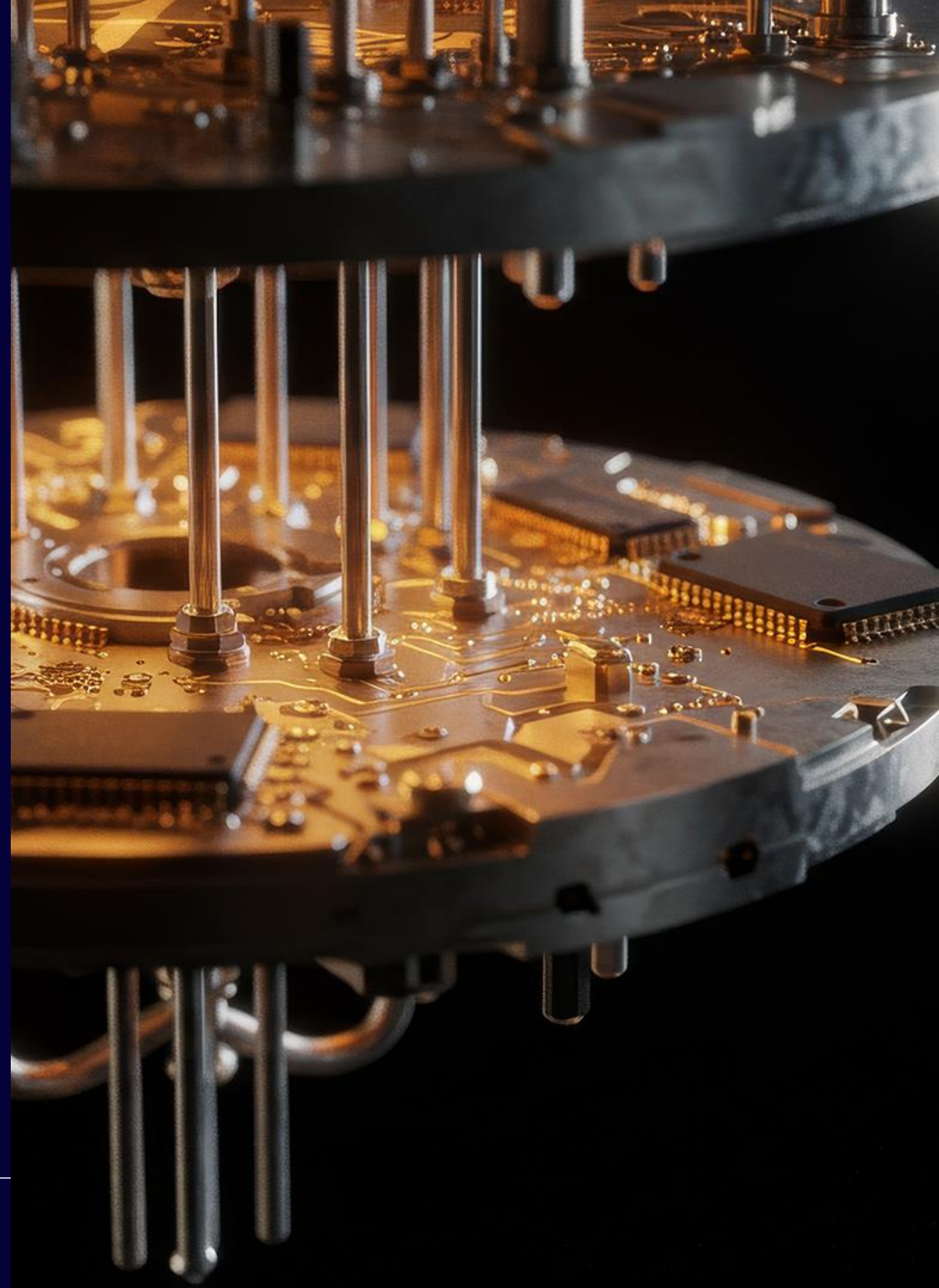
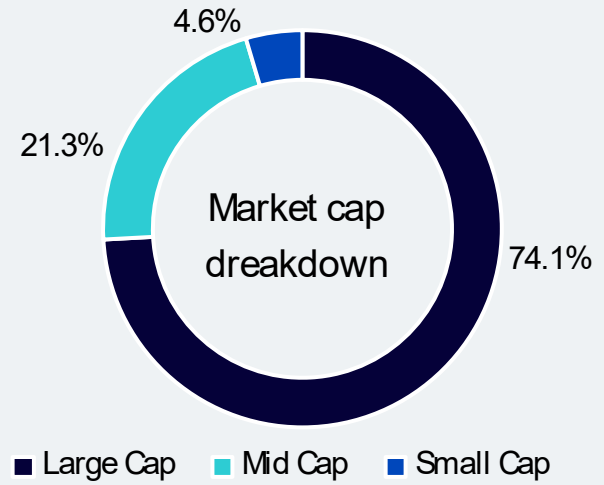
Portfolio and performance overview



WisdomTree Classiq Quantum Computing UCITS Index - Top 10 holdings overview and market cap

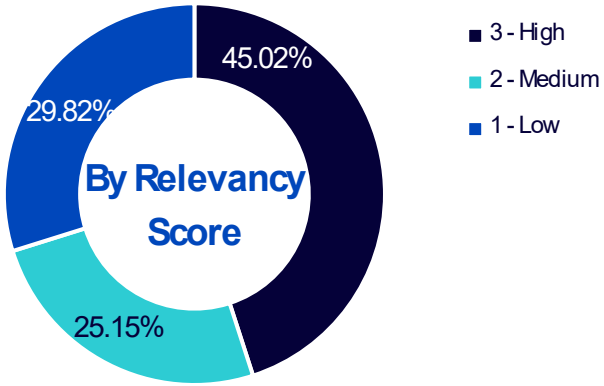
Top 10 Companies	Weight	Primary QC activity	Purity
Rigetti Computing Inc	6.43%	Quantum chips and qubit technology	Pure
IonQ Inc	6.02%	Quantum chips and qubit technology	Pure
D-Wave Quantum Inc	5.84%	Quantum annealing and simulation	Pure
Quantum Computing Inc	4.70%	Quantum software and algorithms	Pure
Intel Corp	3.90%	Quantum chips and qubit technology	Diversified
Amazon.com Inc	3.38%	Quantum chips and qubit technology	Diversified
Alphabet Inc	3.38%	Quantum chips and qubit technology	Diversified
Fujitsu Ltd	3.29%	Quantum chips and qubit technology	Diversified
NVIDIA Corp	3.28%	Quantum annealing and simulation	Diversified
Arqit Quantum Inc	3.28%	Post-quantum cryptography	Pure

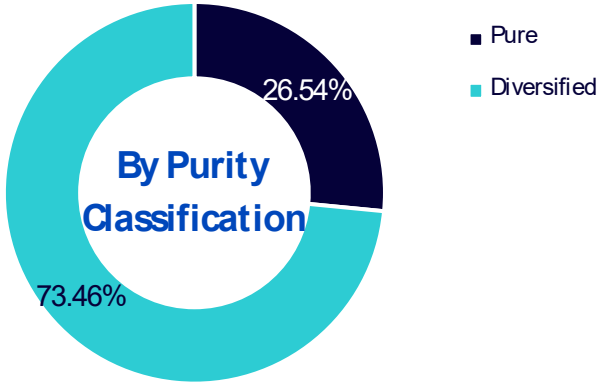


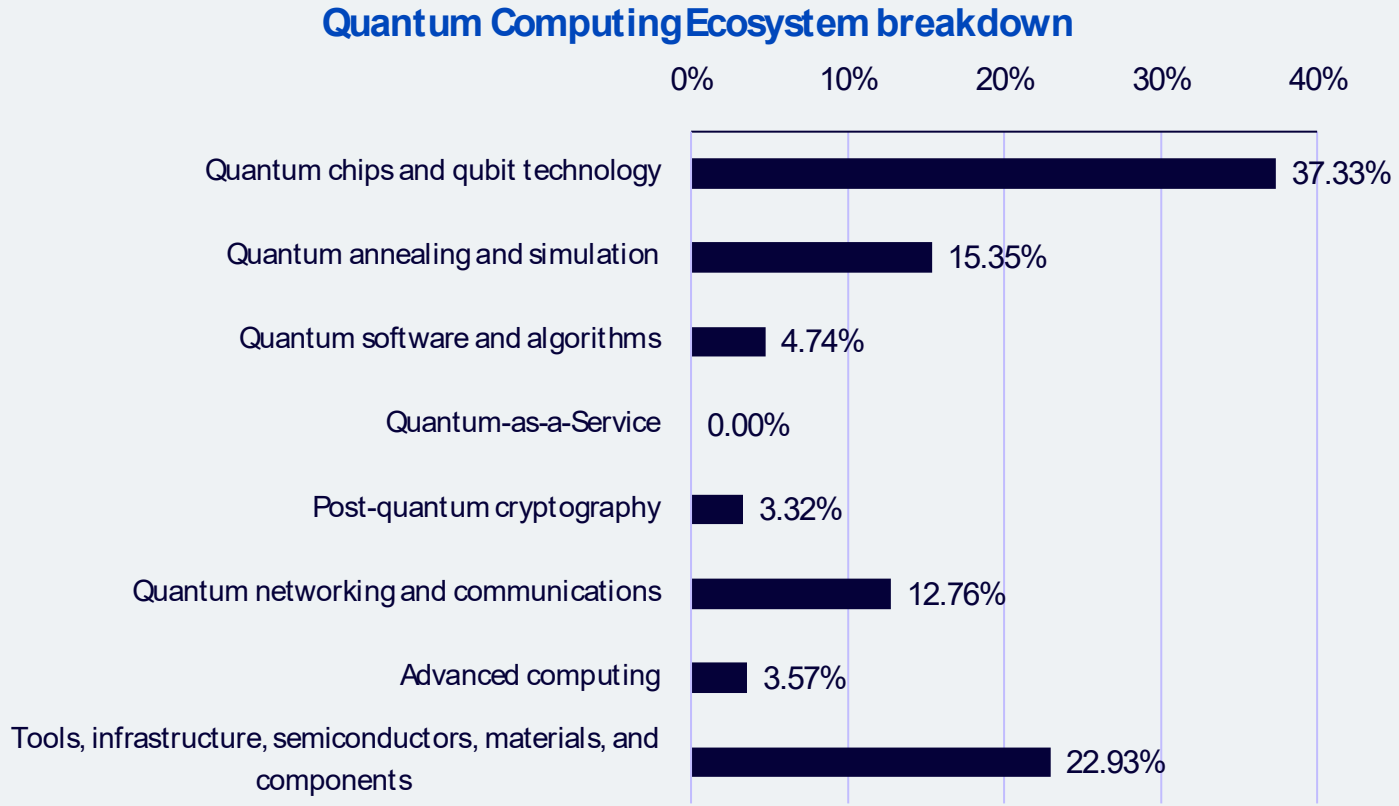
Source: WisdomTree, FactSet. Data as of 18 August 2025. Small caps are companies with market value below or equal to 2B USD. Mid caps are companies with market value from 2B USD and up to 10B USD. Large caps are companies with market value above 10B USD. Primary QC activity represents primary quantum computing activity assigned to each company during the classification process. You cannot invest directly in an index. Historical performance is not an indication of future performance and any investments may go down in value.

Any company displayed are for illustrative purposes only and are not intended to portray recommendations, or an invitation or inducement to trade a particular financial instrument or to engage in an investment activity.

WisdomTree Classiq Quantum Computing UCITS Index offers highly relevant exposure tilted towards core quantum computing activities







Source: WisdomTree. Weights are target weights set for the rebalance of the WisdomTree Classiq Quantum Computing UCITS Index on 15 August 2025. You cannot invest directly in an index. Historical performance is not an indication of future performance and any investments may go down in value.

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Thank you.

Questions

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