



Market Intelligence White Paper

Explore the quantum technology market data, reports, analytics and insights.

TLDR? Watch the overview here:

[▶ The Quantum Intelligence Platform: track the quantum market in one place](#)



Introduction

Quantum technology is a rapidly emerging and constantly evolving industry that is increasing in size and complexity daily. Not only are quantum technology companies part of a rich ecosystem that deals in sometimes counter-intuitive science, its vertical and horizontal depth and width is expanding as quantum technologies mature and transition from in-house operations to partnering and outsourcing. Numerous specialist, suppliers stretch the value chain to end users across industries, sectors, and government agencies, investigating the transformative power of quantum technologies.

In the quantum technology ecosystem, open-source information is fragmented across startup creation, investment rounds, dissemination of research breakthroughs, constant streams of company news and patent filings. This makes it nigh impossible to stay informed and up-to-date for improved strategies and operations.

Adding to the complexities, growing pressures of 'economization' is also being witnessed for many quantum technology developers that need to demonstrate commercial value or a roadmap towards it, while navigating quantum markets that are increasingly being fragmented and specialized in regional clusters.

The Quantum Insider's intelligence platform equips decision-makers with credible and timely insights to easily monitor and navigate everything in the quantum technology industries for market research, ecosystem mapping, economic development, due diligence, and more.

Guided by making the complex actionable, the intelligence platform gathers and structures global data on quantum technologies, presenting it in a user-friendly format, and disseminates it into insights that take advantage of powerful network theories.

Through this platform, investors, startups, corporations, accelerators, policy makers, and governments gain holistic, yet comprehensive insights of the entire quantum technology landscape.

The platform features detailed data on companies, investors, academic groups, government institutions, and more, underpinned by a proprietary taxonomy that allows the information to be filtered and structured. Customizable metadata, along with powerful visualization tools such as our unique graph explorer and market mapping, make it easy to extract intelligence out of information.

With the Quantum Insider's intelligence platform, decision-makers can stay informed, make strategic decisions, and navigate the rapidly evolving quantum technology ecosystem: to transform the complex into actionable insights.

This whitepaper is designed to show you and your institution how to use the intelligence platform to accelerate your quantum adoption and readiness journey.



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About Resonance

Resonance, founded in 2019 in Toronto, Canada, makes deep technologies accessible, helping clients and audiences thrive in a rapidly evolving world. We empower corporations, governments, academia, and startups with actionable insights across sectors like quantum technologies, AI, climate tech, space, and digital twins.

Our AI-driven intelligence platform processes real-time and raw data from over 100,000 sources, offering strategic insights for growth and innovation. We deliver this through three key units:

- Intelligence Platform: AI-powered data for informed decisions.
- Intelligence Consulting: Expert guidance for market strategies.
- Intelligence Studio: Enhance your brand with targeted content and marketing.

We have 150 clients globally driving data-driven decision-making in emerging technologies. Whether shaping policies or guiding corporations, Resonance is at the forefront of deep tech innovation, making complex information accessible and empowering clients to shape the future with clarity and purpose.

Resonance empowers decision makers with intelligence to navigate and harness emerging technologies shaping the future.

150+ Clients Globally

1M+ Data Point

150% Growth

1M+ Monthly Readers



Mapping the Global Quantum Ecosystem

This section outlines the coverage levels offered.

Classifications

Taxonomy

Classifications - Companies

Here you can read and explore our main taxonomies.

Primary Classifications	Software	Hardware Components	Quantum Communications & Security	Quantum Computers	Quantum Sensing & Imaging
Secondary Classifications	Multiple Software Offerings	Components and Cooling Systems	Quantum Encryption	Superconducting	Quantum Dots
	Quantum Computing Applications	Other Quantum Hardware	Quantum Communications & Security Hardware	Trapped Ion	Quantum Wells
	Quantum Computing Algorithms	Lights and Lasers	Post Quantum Cryptography	Neutral Atoms	Quantum Sensing & Imaging Hardw
	Quantum Cloud and Development Platform	Multiple Hardware Offerings	Multiple Security Solutions	Silicon	Multiple Quantum Sensors
	Firmware and Enablers	Processors and Chips		Photonics	Measurement Devices
		Control Hardware		Topological qubits	Imaging and Detectors
		NV Diamond Hardware		NV Diamond	
		Quantum Sensing Components		Electrons on Helium	
		Vacuum Systems		Cavity QED	
		Diamond Components		NMR Qubit	

Quantum technologies encompass extensive and multifaceted subdomains that increasingly fragment and specialize as the global value chain expands.

Our platform provides a comprehensive analysis of each domain, offering a structured understanding of the fields and opens possibilities for enriching your analysis with network theories.

Each high-level category is underpinned by a deeper taxonomy.

For example, if you need to complete a situational analysis of the superconducting quantum computer ecosystem in Europe, you can filter the quantum ecosystem by the primary classification 'quantum computers', secondary classification 'superconducting' and narrow the region to 'Europe'.

The list of companies can then be characterized and synthesized with additional parameters such as value-adding suppliers, forward thinking end users, investors, and stakeholders such as quantum centers of excellence and universities.

Quantum Computing

The quantum computing ecosystem is expanding rapidly, spanning start- and scaleups, value-adding suppliers, global corporations, government institutions and centers, and universities actively pursuing utility-scale quantum processing.

Our data includes information on qubit modalities, roadmaps and emerging commercialization as pressure on companies to deliver practical value increases.

Secondary Classifications:

- Superconducting
- Trapped Ion
- Neutral Atoms
- Silicon
- Photonics
- Topological qubits
- NV Diamond
- Electrons on Helium
- Cavity QED
- NMR Qubit

Quantum Hardware & Software

As quantum technologies mature, the value chain is transitioning from in-house operations to outsourcing to specialist suppliers, diversifying the ecosystem and making it more complex to understand and disseminate.

Quantum hardware and software companies represent a critical part of the supply chain for quantum technology companies, acting as the value-adding entities that produce parts needed to build quantum devices or translate technical complexities into practical solutions for end users.

Often these hardware and software suppliers fly under the radar, making it hard to find reliable information about them.

Our platform tracks over 750 entities, covering their technological details and partnerships across the rapidly growing ecosystem.

Secondary Classifications:

- Components and Cooling Systems
- Other Quantum Hardware
- Lights and Lasers
- Multiple Hardware Offerings
- Processors and Chips
- Control Hardware
- NV Diamond Hardware
- Quantum Sensing Components
- Vacuum Systems
- Diamond Components
- Multiple Software Offerings
- Quantum Computing Applications



- Quantum Computing Algorithms
- Quantum Cloud and Development Platform
- Firmware and Enablers

Quantum Sensing

Quantum sensing harnesses the principles of quantum mechanics to attain remarkable accuracy, sensitivity, and resolution in measurements. While its practical applications are already evident in various domains, the organizations in this field often remain hidden.

Our platform sheds light on 100+ quantum sensing companies, investors, universities, and other entities, presenting a comprehensive overview of the quantum sensing ecosystem.

Secondary Classifications:

- Quantum Dots
- Quantum Wells
- Quantum Sensing & Imaging Hardware
- Multiple Quantum Sensors
- Measurement Devices
- Imaging and Detectors

Quantum Communication & Security

As cyberthreats evolve new security methods are being sought, especially critical infrastructure organizations.

Four methods are pursued in addressing the quantum threat to security and communication. The first is specially-designed classical encryptions to protect against quantum processing known as post-quantum cryptography (PQC). The second is a unique form of information-sharing called Quantum Key Distribution (QKD). The two remaining areas are less discussed, Quantum Random Number Generators (QRNGs) that can strengthen existing encryption algorithms, and Quantum Cryptanalysis that explores how quantum algorithms can break existing encryption standards aiming to develop safeguards against them.

We track all stakeholders across this increasingly complex and growing global ecosystem.

Secondary Classifications:

- Quantum Encryption
- Quantum Communications & Security Hardware
- Post Quantum Cryptography
- Multiple Security Solutions



Entities & Geography

As governments are categorizing quantum technologies as ‘critical,’ regional specialization and commitment are on the rise across continents.

Our platform provides a comprehensive global perspective of the quantum landscape, able to filter data specific to geographies of interest down to the city level.

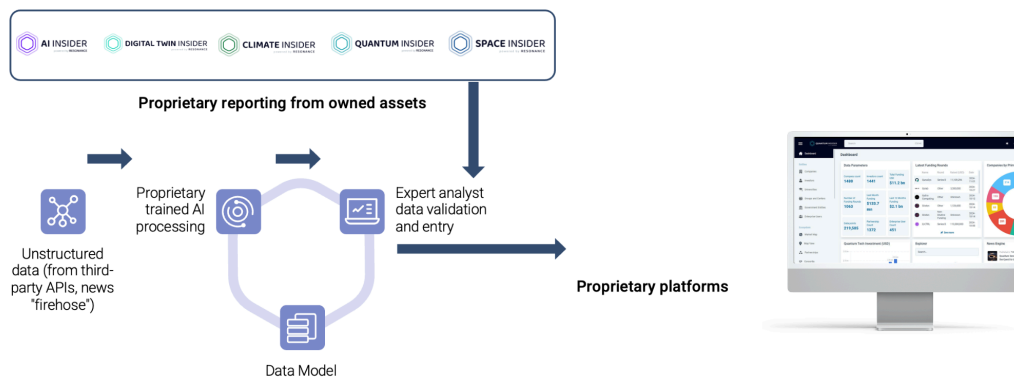
This enables you to identify specialization clusters, how partnerships, mergers and acquisitions evolve, and collaboration deals between nations.



Over 6,000 entities are being tracked in real time globally with more added every day.

- 1,480+ quantum technology companies (computing, security, sensing, etc.)
- 1,440+ investors involved in quantum technology fundraises
- 780+ funding rounds since 2002
- 960+ groups/centers involved in quantum technology research
- 580+ universities engaged in quantum technologies
- 180+ national labs and government agencies
- 450+ end users of quantum technology
- 40+ Consortias within the Americas, EMEA, and APAC
- 80+ Quantum Computing as a Service and Quantum Processing Unit Providers

Our intelligence engine leverages AI to structure and present real time data, at scale



Our proprietary platform consists of three stages to transform unstructured open source data into cleaned up intelligence that enables the dissemination of conclusions to aid decision-making across business and governments.

Stage 1: Data collection

- The core of the intelligence platform is the live aggregation of open-source intelligence (OSINT in military parlance) into conveniently categorized data.
- Complementary to the OSINT data, Resonance owns independent media brands to supply a consistent flow of editorial information covering the relevant deep technology ecosystem, bringing critical nuance to the raw data.
- To further complement data credibility and fidelity, over 100,000 outlets as data entries from non-Resonance sources, deliver unstructured, unprocessed data.
- Additional 3rd party APIs are leveraged to enrich data inputs (e.g. media coverage data, patent data, and academic paper data).

Stage 2: Data structuring

- Resonance has developed its own core software to turn large inputs of unstructured data into useful industry intelligence.
- The software is underpinned by Resonance's proprietary industry taxonomies which define how an ecosystem should be structured, understood and analyzed.
- Resonance leverages its proprietary AI to cut through thousands of data points to further structure and process the data.
- As a last step, Resonance experts and analysts consistently check for quality assurance throughout the intelligence platform.

Stage 3: Data output

- This methodical process concludes in structured data that is presented in a modern and highly customizable multi-tenant SaaS platform.
- Access is provided as a subscription and is delivered through your browser.



Use cases

This section provides an overview of the types of use cases covered offered by the platform.

Competitive Intelligence

Access relevant comparative metrics across quantum companies to ensure your organization stays competitive.

Due Diligence

Analyze rapidly emerging technologies with the latest and deepest information, supporting investment decisions and product development.

Ecosystem Mapping

Gain a structured view of the quantum technology ecosystem, including academic institutions, national labs, and corporate end-users.

Opportunity Scouting

Cover the entire value chain, from suppliers to end-users of quantum technology, and identify potential partnerships, acquisitions, and collaborations.

Technological Growth Assessment

Evaluate the readiness levels of various quantum technologies with expert assessments on technology maturity and commercial viability to make decisions on investments, development and timing for market entry.

Economic Development


Assist the formation and intelligence background of national policies, initiatives, regulations, incentives, and standards for quantum technologies for economic and infrastructure development.



Worked Examples

This section provides some practical worked examples of how our different customers use our platform.

1. Develop your National Quantum Strategy



Insider Brief

- Collaborative investment of 3 trillion won by the government and private sector between 2023 and 2035 to achieve 85% technology level compared to leading countries
- Initiating intercity quantum network
- Developing state-of-the-art quantum sensors
- Training of 2,500 quantum core professionals and 10,000 professionals in the field of quantum
- Increasing market share in the quantum market to around 10% and nurturing 1,200 quantum technology companies

Ministry of Science and ICT (MSIT) announced the "South Korea's Quantum Science and Technology Strategy" for the quantum leap of the country's quantum science, technology, and industry on June 27th at Dongdaemun Design Plaza (DDP). This strategy, which reflects the conversation between President Yoon Seok-yeol and quantum scholars at the Swiss Federal Institute of Technology Zurich on January 19th, is the first-ever national strategy that encompasses the medium- to long-term vision and comprehensive development strategy for quantum science and technology.

Companies	Primary Classification	Secondary Classification	Date	Investors	Lead Investor	Country
Vescent	Hardware Components	Lights and Lasers	2024-03-07	Corporate Fuel Advisors, Caruso Ventures	Corporate Fuel Advisors	United States
Maybell Quantum Industries	Hardware Components	Multiple Hardware Offerings	2024-03-04	Lawrock Ventures, Mark IV Capital, Cerberus Capital Management, Olive Capital, Decisive Point, IQT (In-Q-Tel), Caruso Ventures	Cerberus Capital Management	United States
Inflection	Quantum Computers	Neutral Atoms	2024-02-20	US Department of Energy	US Department of Energy	United States
qBraid	Software	Multiple Software Offerings	2024-02-13	Future Labs Capital	Future Labs Capital	United States
Rigetti Computing	Quantum Computers	Superconducting	2024-02-05	Small Business Research Initiative	Small Business Research Initiative	United States
Rigetti Computing	Quantum Computers	Superconducting	2024-01-11	-	-	United States
SeeQC	Quantum Computers	Superconducting	2024-01-09	US Department of Energy	US Department of Energy	United States
Mesa Photonics	Hardware Components	Lights and Lasers	2023-12-12	US Department of Energy	US Department of Energy	United States

Access reports which give detailed analysis on all National Quantum Strategies (South Korea Shown as an Example)

Access detailed funding insights from any geography (US shown as an example)

Our platform assists in developing national quantum strategies by providing in-depth insights into other nations' quantum strategies and their cross-border collaborations, available in the reports section. In addition, comprehensive private and public funding details filtered by geography with detailed network data of regional organizations can assist in policy development and funding commitments.

2. Identify partners for skilling and solutions

Name	T1	Description	T1	Interest in Quantum	Design and Content
Aalborg University		Aalborg University is a university in Denmark situated primarily in Aalborg, with additional campuses in Esbjerg and Copenhagen.		The Aalborg Quantum Hub at Aalborg University is a key player in the fast-evolving field of quantum technology. It serves as a gateway to the university's research and education in areas such as quantum computing, quantum communication, and post-quantum cryptography. The hub organizes seminars, courses, and presentations to support and advance knowledge in these cutting-edge topics.	
Aalto University		Aalto University is a Finnish research university based in Espoo, founded in 2009. As the result of combining the Aalto Finance, Aalto Media, and Aalto University of Technology, Aalto University School of Business, and University of Art and Design Helsinki. The university promotes collaboration among business, arts, and design to encourage diverse education and research.		The Quantum Technology program at Aalto University offers both a Bachelor of Science (Technology) and a Master of Science (Technology). It equips students with essential knowledge and skills in quantum technology, preparing them for diverse roles in the field. The program highlights the role of quantum technology in various industries, including quantum computing, quantum communication, and quantum sensing. The program is designed to provide a thorough understanding of quantum mechanics, quantum computing, and related technologies. Physics and AI are also covered at a functional level. The program has been recognized for its excellence in the field of quantum technology. The research, published in Nature Nanotechnology on August 22, 2024, shows that previously unexplained energy loss in superconducting qubits can be traced to thermal radiation from the qubits. This breakthrough enhances the understanding of qubit decay and improves the potential for developing more efficient quantum computers.	
Aarhus University		Aarhus University is a public research university located in Aarhus, Denmark. The main campus is in Aarhus, making it the second oldest and second largest university in the country.		Aarhus University excels in quantum technology research, spanning fundamental quantum physics, quantum materials, and quantum devices. The university's research is supported by extensive quantum-related equipment and facilities, with a focus on post-quantum security and communication. They are leaders in quantum sensor development and offer advanced educational programs in quantum science. The Center for Complex Quantum Systems hosts a Quantum Science Colloquium, fostering collaboration and knowledge-sharing. Aarhus University's comprehensive approach aims to advance quantum technologies and lead the next generation of specialists.	Center for Complex Quantum Systems
Aberystwyth University		Aberystwyth University is a Welsh public research university located in Aberystwyth. It was one of the original universities in the former University of Wales group.		The Aberystwyth University's Research Group operates in a highly interdisciplinary domain that integrates concepts from information theory (non-commutative) stochastic analysis, mathematical physics for open quantum systems, and contemporary quantum theory. The group specializes in functional analysis and operator theory, applying these techniques to practical quantum models.	Aberystwyth Quantum Structures, Information And Control Group
Abu Dhabi University		Abu Dhabi University is a private research university with its main campus in Khalifa City, Abu Dhabi. Other main campuses and satellite campuses are in Abu Dhabi and Madinet Zayed.		Abu Dhabi University and Mohamed bin Zayed International Quantum Hub in Abu Dhabi. The quantum hub will serve as a collaborative hub for students, researchers, and experts to delve into quantum technologies, nurture knowledge, and develop innovative solutions. The hub will provide students with hands-on experience in quantum computing, quantum communication, and quantum cryptography. The hub will also provide satellite campuses with quantum computing, quantum communication, and quantum cryptography. The hub is expected to attract talent and researchers from around the world and contribute to the development of the UAE's knowledge-based economy.	
Academia Sinica		Academia Sinica, based in Hsinchu, Taiwan, serves as the national academy of Taiwan. Originally established as Academia Sinica, it focuses research in diverse fields like math, physical sciences, life sciences, and humanities.		The Academia Sinica, excels in advancing in creating high-quality physical and quantum devices. They have spent interest in using business systems for quantum computation. Unlike traditional multi-qubit methods, bosonic quantum computation leverages the infinite-dimensional Hilbert space of a quantum harmonic oscillator to process and transmit quantum information more efficiently.	

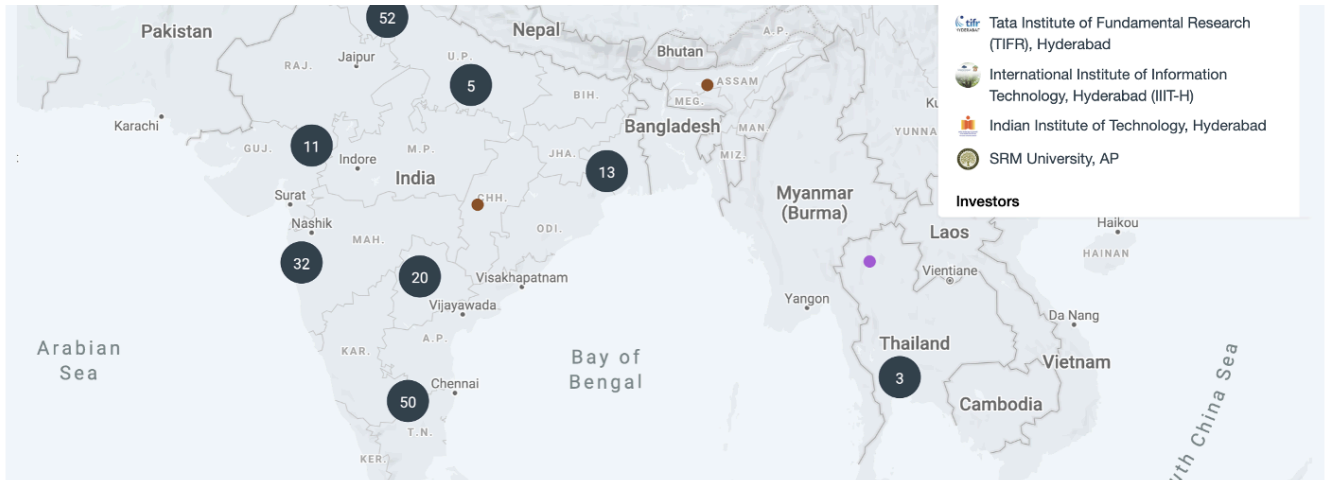
Possible Use Case	T1	Problem Description	T1	Industry	T1	Problem Domain	T1	Approaches	Hardware	Current Status	T1
A More General Quantum Credit Risk Analysis Framework		The work addresses significant bottlenecks in existing quantum algorithms for credit risk analysis (CRA) by proposing a new variant that enhances the risk model for each asset by considering multiple portfolio risk factors, resulting in more realistic and complete default probability models. Additionally, the flexibility of the two-dimensional design is leveraged to enhance the flexibility of the model, allowing for the inclusion of various risk factors and the ability to handle different asset classes.		Finance		Simulation		QAE	NISQ		Resource Estimation
Aircraft Vehicle Design		Building is working with BAE to leverage QC in aircraft design and in developing new methods for aircraft.		Airline and Aerospace		Optimization		QAOA		TBD	Top Demonstrations
Aircraft Cabin Optimization		Determine a fuel efficient and/or time efficient trajectory for an aircraft during its climb phase.		Airline and Aerospace		Optimization		Quantum Genetic Algorithms, Test		FTQC	Problem Formulation
Aircraft Landing Optimization		Determine which airports from the available options should be chosen on board and when on the aircraft they should be placed so as to maximize revenue and minimize operating costs.		Airline and Aerospace		Optimization		Quantum Annealing, QAOA		Quantum Annealing, NISQ, FTQC	Top Demonstrations
Analyzing CT Scan Images		In medical diagnosis and clinical practice, diagnosing a disease early is crucial for accurate treatment. Reducing the stress on the healthcare system is a critical challenge. In medical imaging, reducing the amount of radiation is vital in analyzing and treating diseases with a high degree of accuracy.		Life Sciences		Machine Learning		Quantum Neural Network		NISQ	Top Demonstrations
Anomaly Detection		Anomaly detection is the task of identifying new, irregular data points in a dataset, which differ significantly from the majority of samples in the dataset. This is a critical step in many domains, including medical diagnosis, network intrusion detection, fraud detection, and financial change detection in monitoring services and detection.		Finance		Machine Learning		Quantum Generative Adversarial Networks		NISQ	Demonstrations on real-world data
Anomaly Detection in High-Energy Particle Collisions		Quantum anomaly detection algorithms were used to identify rare particle events in proton collision data at the Large Hadron Collider (LHC). An autoencoder was used to reduce the dimensionality of LHC data followed by the application of conventional quantum neural networks and quantum clustering algorithms to detect anomalies in the data points.		Scientific Research		Machine Learning		Quantum Kernel Methods, Quantum Clustering Algorithms		NISQ	Demonstrations on real-world data

Comprehensive list of universities that can be filtered based on location, size and founding date.

Exploring diverse applications: A snapshot of various use cases showcased on our platform.

Our platform provides in-depth information on a nation's or region's universities and other academic institutions actively engaged in quantum research and vocational programs. This empowers users to identify suitable partners for skill development and research collaborations, or in assessments of new expansions, to inform users of quantum technologies' potential, use cases are featured that can provide practical value.

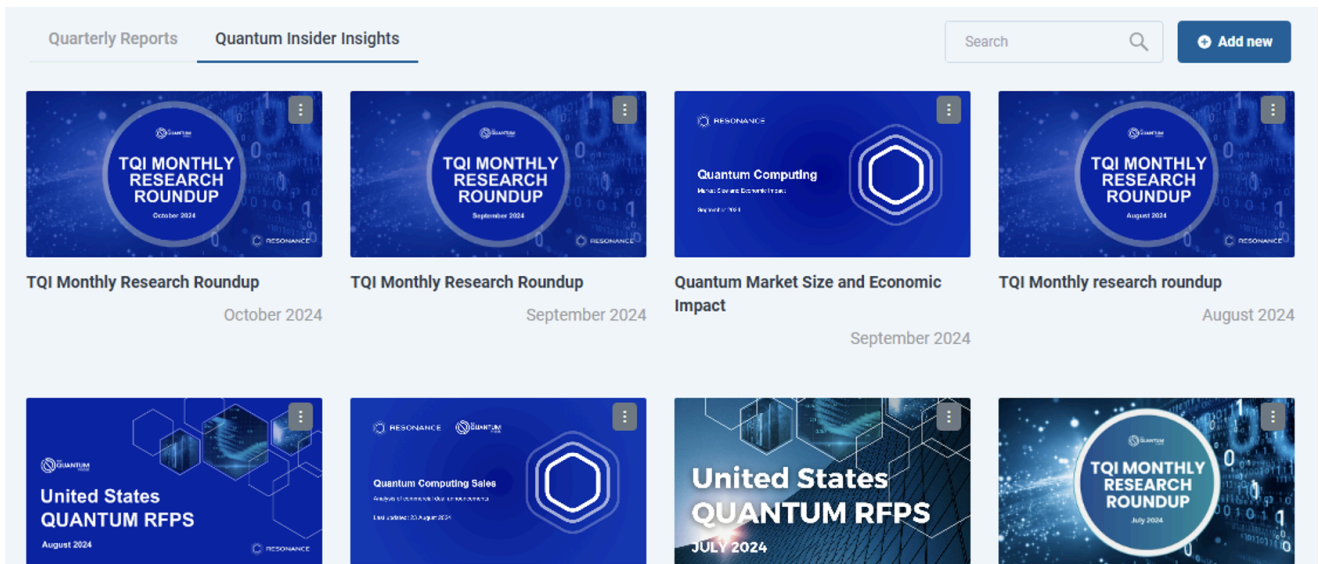
3. Obtain information about your country's quantum ecosystem



Get comprehensive understanding of any countries quantum ecosystem through our map view (India shown as an example)

Using our map view feature, users can get a complete understanding of a country's or region's quantum ecosystem through network visualization, forming intricate nodes and connections between startups, larger corporations, universities, government entities, investors, and more. This way, government institutions and policymakers can track the networks of their local quantum technology organizations to inform where incentives and programs benefit the most.

4. Access comprehensive reports to gain a deeper understanding of quantum technology



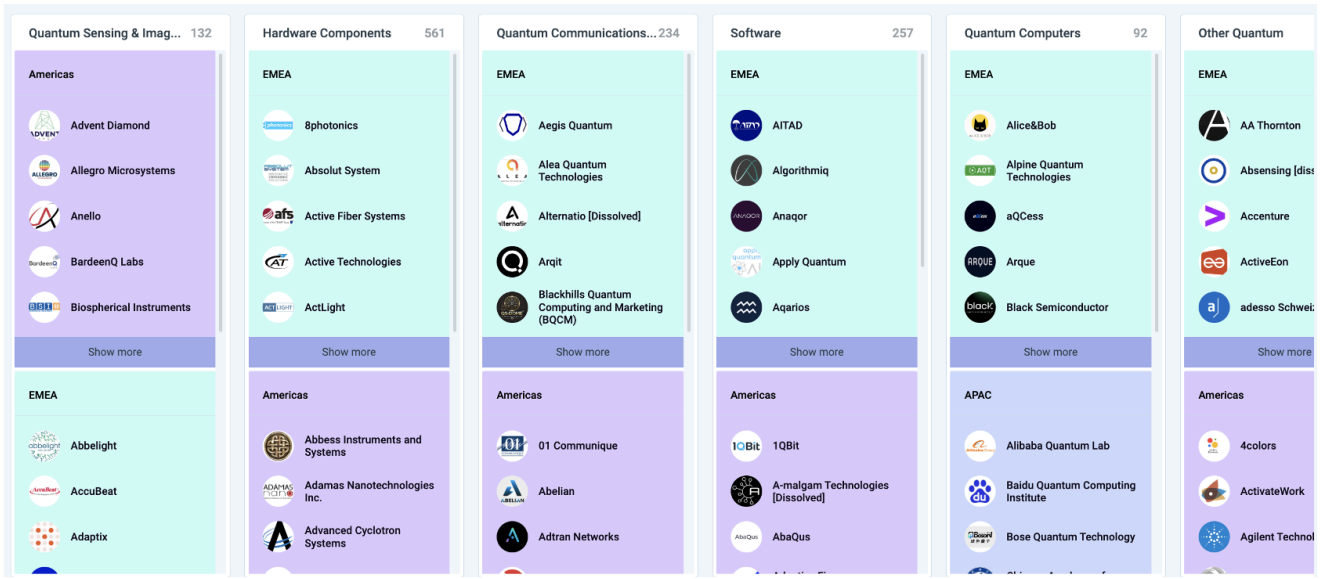
Comprehensive reports on happenings in quantum technology

We regularly publish commercial news in the quantum computing industry and monthly research roundups that also provide in-depth reports on vendor sales, quantum security, and more. The reports illustrate how our platform's data can be disseminated into insights, while providing unique details on leading themes in quantum technologies for our users.



Investors

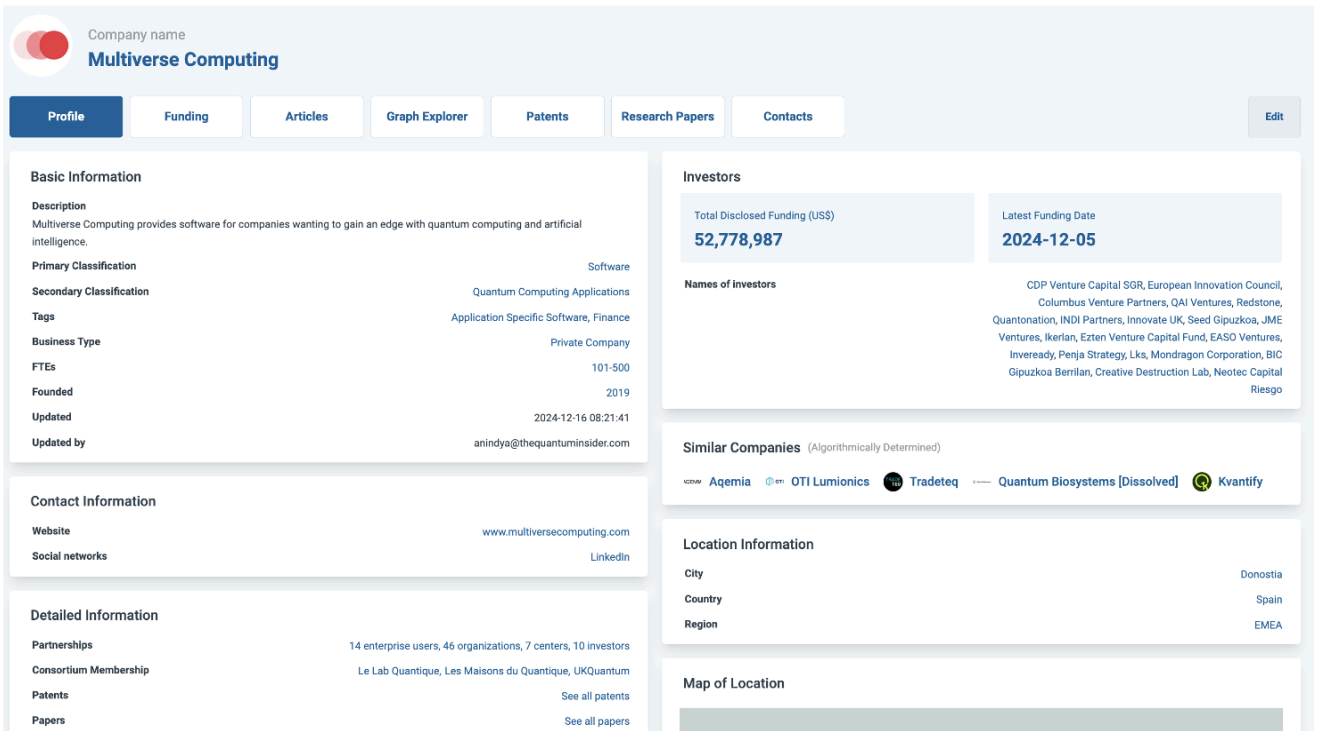
1. Discover potential investment opportunities



Snapshot of Quantum Startups Across Various Fields from Our Platform

The intelligence platform provides comprehensive and up-to-date company information spanning quantum domains across the globe. This empowers users to discover transformative quantum ventures in their early stages, offering valuable investment opportunities.

2. Perform due diligence on companies of interest



Company Profile gives in depth insights into each company (Multiverse Computing shown as an example)



Company name
Multiverse Computing

Profile Funding Articles Graph Explorer Patents Research Papers **Contacts** Edit

Contacts Department Filter Export

Name	Job Description	Email (accuracy dependent on quality of supplier data)	Location
Abel Carreras	Senior Researcher	Access email	Japan
Ainhoa Mayor Alonso	Executive Assistant	Access email	Spain
Alba Villarino Pelaez	Manager - Tech	Access email	Spain, San Sebastian
Alejandro Gil Ferrer	Ingeniero de software	Access email	Spain, Madrid
Alejandro Moreno Rodriguez	Machine Learning Engineer	Access email	Spain, Bilbao
Ali Ahmed	Junior MLOps Engineer	Access email	Switzerland, Zuerich
Amalia Garmendia	Chief People Officer	Access email	Spain, Hernani
Amal Missaoui	Junior Software Engineer	Access email	Spain, Donostia-San Sebastian
Ander Gil Moro	Mid Machine Learning Engineer	Access email	Spain, San Sebastian
Ane Amenabar	Human Resources and Talent Acquisition Officer	Access email	Spain
Angus Dunnett	Quantum-inspired Software Engineer	Access email	France, Paris
Antonio Pereira	Junior Quantum Software Engineer	Access email	Spain, San Sebastian
Antonio Tiene	Tensor Network Engineer	Access email	Spain, San Sebastian

Our newly launched contact feature helps you get relevant personnel contact information which can be filtered by departments.

We offer in-depth information about each company. This includes essential details such as basic company information, technological specifications, contact details, funding data, patents filed, and relevant articles.

3. Find universities with notable quantum research activity to scout early spin offs

Name	Description	Interest in Quantum	Groups and Centers
Aalborg University	Aalborg University is a university in Denmark situated primarily in Aalborg, with additional campuses in Esbjerg and Copenhagen.	The AAU Quantum Hub at Aalborg University is a key player in the fast-evolving field of quantum technology. It serves as a gateway to the university's research and education in areas such as quantum computing, quantum communication, and post-quantum cryptography. The Hub organizes seminars, courses, and presentations to support and advance knowledge in these cutting-edge topics.	-
Aalto University	Aalto University is a Finnish research university based in Espoo. Created in 2010, it's the result of combining three key Finnish universities: Helsinki University of Technology, Helsinki School of Economics, and University of Art and Design Helsinki. The university promotes collaboration among science, business, and arts to encourage diverse education and research.	The Quantum Technology program at Aalto University offers both a Bachelor of Science (Technology) and a Master of Science (Technology). It equips students with essential knowledge and skills in quantum technology, preparing them for diverse roles in the field. Key highlights include a strong track record of graduates securing relevant jobs across various sectors and a curriculum designed to provide a thorough understanding of quantum mechanics, quantum computing, and related technologies. Physicists from Aalto University and an international team have demonstrated that superconducting qubit coherence loss can be measured as thermal dissipation in the electrical circuit of the qubit. Their research, published in Nature Nanotechnology on August 22, 2024, shows that previously unexplained energy loss in superconducting qubits can be traced to thermal radiation from the qubits. This breakthrough enhances the understanding of qubit decay and improves the potential for developing more efficient quantum computers.	-
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Abu Dhabi University	Abu Dhabi University is a private research university with its main campus in Khalifa City, Abu Dhabi, United Arab Emirates, and satellite campuses in Al Ain, Dubai, and Madinat Zayed.	Abu Dhabi University and Vernewell Group have inaugurated the first academic institution quantum lab in Abu Dhabi. The quantum lab will serve as a collaborative hub for students, researchers, and experts to delve into quantum technologies, exchange knowledge, and develop innovative solutions. The lab will provide students with hands-on experience in quantum computing, quantum communication, and quantum sensing. The partnership between Abu Dhabi University and Vernewell Group aims to position Abu Dhabi as a global hub for quantum research and innovation. The lab is expected to attract top talent and researchers from around the world and contribute to the development of the UAE's knowledge-based economy.	-
Academia Sinica	Academia Sinica, based in Nangang, Taipei, serves as the national academy of Taiwan. Originally established in Nanking, it promotes research in diverse fields like math, physical sciences, life sciences, and humanities.	The Academia Sinica, recent advancements in creating high-quality photonic and phononic cavities have spurred interest in using bosonic systems for quantum computation. Unlike traditional multi-qubit methods, bosonic quantum computation leverages the infinite-dimensional Hilbert space of a quantum harmonic oscillator to process and transmit quantum information more efficiently.	-

List of universities which are a part of the quantum ecosystem.



Our platform provides detailed insights into universities with active quantum research programs, enabling investors to identify potential early spin-offs as opportunities, or new competitive entrants.

4. Find contacts through our quantum expert network

Name	Job Description	Email (accuracy dependent on quality of supplier data)	Location
Aaron Walker	Talent Acquisition Lead	Access email	Canada, Toronto
Alan Martin	Frontend Developer	Access email	Canada, Toronto
Alberto Fumagalli	DevOps Lead	Access email	Canada, Mississauga
Alex Corke	Senior Human Resources Generalist	Access email	Canada, Hamilton
Alex Preciado	Quantum Software Development Manager	Access email	Canada, Toronto
Ali Asadi	Building high-performance quantum software	Access email	Canada, Toronto
Alvaro Bordo	Quantum Computing Educator	Access email	Canada, Toronto
Amandeep Bhatia	Deputy Manager	Access email	
Amintor Dusko	Quantum Software Developer II	Access email	Canada, Toronto
Andrey Goussev	Lab Manager	Access email	Canada, Hamilton
Anthony Hayes	Quantum Software Engineer	Access email	Canada, Toronto
Anton Lukashchuk	Senior Photonics Engineer	Access email	Canada, Toronto
Ashish Singh	Senior Software Developer	Access email	Canada, Toronto

Comprehensive Contact Details: An insight into company's (Xanadu taken as an example) team structure.

Our platform provides an easy list of quantum individuals in key roles, enabling partnerships, collaborations, investments, or primary research.



Quantum Company

1. Gather Competitive intelligence

Company Profile gives in depth insights into each company (Multiverse Computing shown as an example)

Comparison of media coverage between Multiverse Computing and SandboxAQ using our Media Monitoring Tool.

List of patents along with relevant information

In depth Analysis of patent publication from our platform

Our platform offers in-depth information about each quantum organization, such as basic company information, technological specifications, contact information, funding data, patents filed, and relevant articles. Our unique media monitoring tools further helps our users to gain an overview of media coverage and sentiment, proving to be a great tool to track PR.

2. Identify potential partners or investors

Partnerships between different groups (research institutions, and industries) can be easily tracked on our platform

Showing the various types of investors involved in the quantum field, indicating the wide interest and support in the industry

Our platform offers comprehensive investor information with basic details, portfolio, and funding rounds. Additionally, the partnerships page assists users in discovering potential partners for collaborations, enabling networking opportunities.



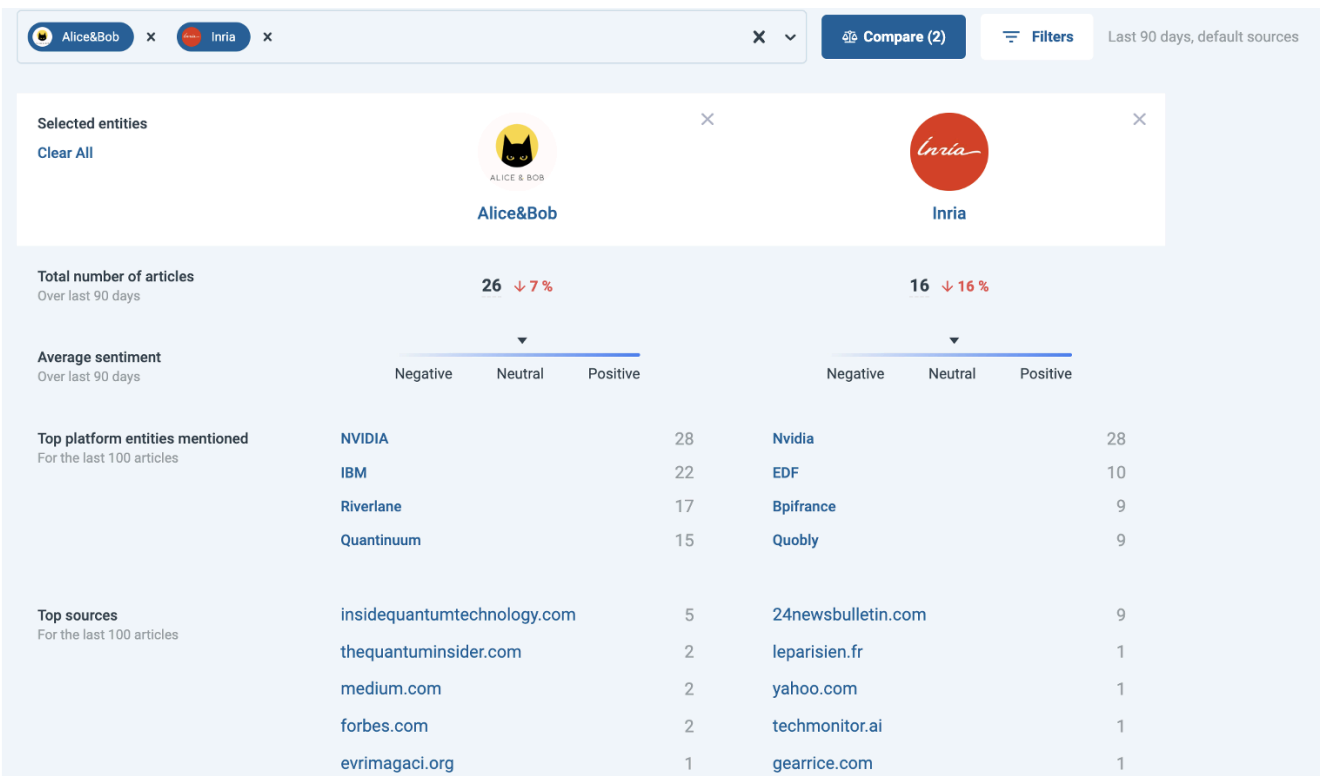
3. Stay informed about every country's government funding

Quantum Initiative Funding by Country USD Millions			
Country/Region	↑ ↓	Funding USD	↑ ↓ National Strategy
Australia		228.6m	Australia National Quantum Strategy
Austria		162.0m	Austrian Quantum Technology Initiative
Canada		1.0bn	Canada's National Quantum Strategy
China		15.0bn	Treated as a strategic industry in China's Five Year Plans
Denmark		604.0m	Quantum Computing Programme

Global Quantum Funding Insights: Tracking National Investments and Strategic Initiatives

Our platform provides details about the quantum initiatives through national quantum strategies and funding commitments, highlighting each nation's strategic focus in quantum technology. It helps companies identify regions with government support and align their efforts with national priorities.

4. Gain insights into media sentiment to assess perception and boost competitiveness



Snapshot of Media Sentiment Analysis which gives insights into quantum companies' perception.

Our platform offers detailed media coverage insights and sentiment analysis tailored for quantum companies. It provides a comprehensive understanding of public and media perceptions. By



comparing media coverage with competitors, organizations gain valuable insights into their own media presence, enabling them to maintain a competitive edge in the industry.

5. Discover a list of Government Opportunities

Title	Description	Agency	Sub Agency	Updated Date	Posted Date
Purchase FARO® 3.5-meter Three-Dimensional (3-D) Measuring Arm, FAROBlu xP Laser Line Probe, PolyWorks Inspector™ Premium + Modeler™ Premium Software Package and Training, and Related Accessories	This is a combined synopsis/solicitation for commercial items prepared in accordance with (AW) the format in Federal Acquisition Regulation (FAR) subpart 12.6 and part 13 as supplemented with additional information included in this notice...	HOMELAND SECURITY, DEPARTMENT OF	U.S. COAST GUARD	2025-01-02	2025-01-02
Future Program Announcement: Robust Quantum Sensors (RoQS)	The purpose of this Special Notice (SN) is to provide public notification of additional research areas of interest to the Defense Advanced Research Projects Agency (DARPA) Microsystems Technology Office (MTO), specifically for the contemplated forthc...	DEPT OF DEFENSE	DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (DARPA)	2024-12-23	2024-12-23
USAF A Dilution Refrigerator Source Sought	SOURCES SOUGHT: THIS IS NOT A NOTICE OF REQUEST FOR QUOTATION BUT INFORMATION AND PLANNING PURPOSES ONLY! This notice does not constitute a commitment by the Government. All information submitted in response to this announcement is voluntary and t...	DEPT OF DEFENSE	DEPT OF THE AIR FORCE	2025-01-08	2024-12-20
Advanced Computing Branch Subject Matter Expert (SME) Support	The Department of Homeland Security (DHS) Science Technology Directorate (ST), Office of Science and Engineering (OSE), Technology Centers Division (TCD) are conducting market research to identify key personnel to provide SME support in...	HOMELAND SECURITY, DEPARTMENT OF	OFFICE OF PROCUREMENT OPERATIONS	2024-12-19	2024-12-19
Notice of Intent to Sole Source: Vertical Screw Compressor	THIS IS A NOTICE OF INTENT TO AWARD A SOLE SOURCE CONTRACT AND IS NOT A REQUEST FOR COMPETITIVE QUOTES. Rotary Screw Compressor The National Aeronautics and Space Administration (NASA), Glenn Research Center (GRC) has a requirement...	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	2024-12-17	2024-12-17
Graduate Research, Education and Technology (GREAT) Support	The purpose of this Amendment 6 is to correct time zone errors in Amendment 5. Offerors must be registered in ASSIST and notify the Contracting Officer via email by 30 Dec 2024 at 12:30 CST in order to facilitate submission of their proposal...	GENERAL SERVICES ADMINISTRATION	FEDERAL ACQUISITION SERVICE	2024-12-30	2024-11-27
Low Profile Mast (LPM) Type 20 & Type 24 – Sources Sought	THIS IS A SOURCES SOUGHT NOTICE ONLY. THIS IS NOT A REQUEST FOR PROPOSALS. THIS SOURCES SOUGHT NOTICE IS PUBLISHED FOR MARKET RESEARCH PURPOSES ONLY. THE GOVERNMENT IS NOT SEEKING OR ACCEPTING UNSOLICITED PROPOSALS. This Sources S...	DEPT OF DEFENSE	DEPT OF THE NAVY	2024-12-12	2024-11-25

Table showcasing government opportunities for quantum companies to engage in funded projects.

Our platform provides a list of all the government opportunities that could help quantum companies enhance their reputation and business development by working on government-backed projects.

6. Stay up to date with AI-driven news summary

AI Summary

All categories
▼

to spin control complexities.

- Nitrogen-vacancy centers in diamonds offer promising applications in quantum sensing, maintaining coherence at room temperature.
- Neutral atom qubits present a highly scalable approach with potential for complex many-body simulations and quantum networking.
- Photonic qubits are particularly promising for quantum communication due to their ability to transmit information over long distances with minimal loss.
- **IonQ's** advancements in quantum error correction mark a significant step towards stable, commercially viable quantum computing applications.
- **Singtel** enhances quantum-safe solutions by integrating **Post-Quantum** Cryptography (PQC) and Quantum Key Distribution (QKD) to secure against emerging cyber threats.

AI driven news for concise and professional summaries.



The platform delivers AI-driven summaries, including technical, grant, market, patent, and financial news. This service makes it easier for companies to stay informed on key developments without spending hours on news consumption. By filtering and distilling relevant information, the platform saves time and ensures that critical insights are never missed.

7. Gather R&D Analysis

Title	Publication Date	Organizations	Authors	Paper URL	Journal
The ORCA quantum chemistry program package	2020-06-12	Max Planck Society, FAccTs GmbH, Rolandstr. 67, 50677 Köln, Germany.	Frank Neese, Frank Wennmohs, Ute Becker Show more	View Paper	The Journal of chemical physics
Quantum computational advantage using photons	2020-12-03	University of Science and Technology of China, Chinese Academy of Sciences, Tsinghua University	Han-Sen Zhong, Hui Wang, Yu-Hao Deng Show more	View Paper	Science (New York, N.Y.)
Variational Quantum Algorithms	2021-08-12	Oak Ridge National Laboratory, Los Alamos National Laboratory, Google Show more	Marco Cerezo, Andrew Arrasmith, Ryan Babbush Show more	View Paper	Nature Reviews Physics
Advances in quantum cryptography	2020-12-14	University of York, Center for Macroscopic Quantum States, University of Florence Show more	Stefano Pirandola, Ulrik L. Andersen, Leonardo Banchi Show more	View Paper	Advances in Optics and Photonics
Quantum computational chemistry	2020-03-30	University of Oxford, Canadian Institute for Advanced Research	Sam McArdle, Suguru Endo, Alán Aspuru-Guzik Show more	View Paper	Reviews of Modern Physics
Conformal quantum dot-SnO2 layers as electron transporters for efficient perovskite solar cells.	2022-01-20	Ulsan Advanced Energy Technology R&D Center, Korea Institute of Energy Research, Ulsan 44776, Republic of Korea., Laboratory of Photonics and Interfaces, Institute of Chemical Sciences and Engineering, Ecole Polytechnique Fédérale de Lausanne (EPFL), CH-1015 Lausanne, Switzerland., Ecole Polytechnique Fédérale de Lausanne Show more	Minjin Kim, Jaeki Jeong, Haizhou Lu Show more	View Paper	Science (New York, N.Y.)
Superconducting Qubits: Current State of Play	2020-03-10	Massachusetts Institute of Technology, Chalmers University of Technology	Morten Kjaergaard, Mollie Schwartz, Jochen Braumüller Show more	View Paper	Annual Review of Condensed Matter Physics

Snapshot of the research papers across various fields of quantum technology

Title	Abstract	Publication Date	Application Date	Organizations	Inventors	Patent PDF
PHASE-MODE BIT-ADDRESSABLE SENSING REGISTER	Shift register elements of a phase-mode bit-addressable sensing register sample varied AC or DC bias values provided to operational RQL circuitry on the RQL IC via clock resonators or DC bias lines. The shift register can be constructed of phase-mode...	08/01/2025	31/03/2023	Northrop Grumman Corp	ALEXANDER LOUIS BRAUN, MAX E. NIELSEN, DANIEL GEORGE DOSCH, KURT PLEIM, HAITAO O. DAI, CHARLES RYAN WALLACE	View Patent PDF
METHODS AND SYSTEMS FOR STUDYING MOLECULE AND PROPERTIES THEREOF	Provided herein is a method for studying molecule and properties thereof, the method comprising: a) obtaining a request comprising an indication of at least one property of a molecule and a corresponding task; b) performing inference on at least one...	08/01/2025	27/02/2023	Good Chemistry Inc	TAKESHI YAMAZAKI, Kevin RYCZKO, ARMAN ZARIBAFIYAN, NIMA ALIDOUST	View Patent PDF
CRYPTOGRAPHIC KEY AND RANDOM NUMBER GENERATION BASED ON QUANTUM SYSTEMS	An apparatus is provided for generating certified random numbers usable as data keys, for example postquantum cryptographic keys, wherein the apparatus is a self-contained hardware unit configured to operate at room temperature. The apparatus include...	08/01/2025	09/03/2023	Quantinuum Ltd	Henry SEMENENKO, Nicholas KAY, Mafalda, Ludovina ALMEIDA, Hye, Jung JEE, Matthew HOBAN, Florian CURCHOD, Sherilyn WRIGHT, Cameron FOREMAN, Yui, Chi, Richie YEUNG, ELIZABETH LEE, Stefano PIRONIO, Cameron OKOTH, Kevin MILNER, Maria, Laia, Gines BARTOLOME	View Patent PDF
COMPOSITIONS AND METHODS FOR CROSSING BLOOD BRAIN BARRIER	Disclosed herein include novel blood-brain barrier (BBB)-crossing receptors on the BBB interface, targeting peptides and derivatives thereof capable of binding to the novel receptors, and related methods of using the receptors to increase the permeab...	08/01/2025	02/03/2023	California Institute of Technology	Timothy F. SHAY, VIVIANA GRADINARU, Xiaozhe DING	View Patent PDF

Snapshot of patents across various fields of quantum technology

Our platform provides a list of research papers and patents per organization to stay informed about emerging trends and competitive factors, while enabling users to foster innovation and safeguard strategies.



Enterprise

1. Find partners to implement quantum solutions

Company	Description	Primary Classification	Secondary Classification	Total Funding (USD)	Region	Founded
01 Communique	01 Communique operates in the zero-trust remote access software market and has launched IronCAP, a quantum-safe encryption solution.	Quantum Communications & Security	Post Quantum Cryptography	Unknown	Americas	1992
1QBit	1QBit develops and sells hardware-agnostic quantum software tools.	Software	Multiple Software Offerings	39,099,796	Americas	2012
4colors	They are an R&D consulting company specializing in data, algorithms, and optimization. We leverage mathematical and computational techniques to help businesses and organizations solve complex problems.	Other Quantum	Consultancy	Unknown	Americas	2016
8photonics	8photonics specializes in manufacturing modular fiber and free-space optics prototyping systems.	Hardware Components	Lights and Lasers	22,592	EMEA	2020
A*Quantum	A*Quantum specializes in the development of quantum software solutions compatible with both annealers, including digital annealers from Fujitsu, and gate-based quantum computers from IBM.	Software	Quantum Computing Applications	2,863,800	APAC	2018
A-malgam Technologies [Dissolved]	The company is known to be the power behind MOOVIN.IO, and Shorebird.io, and is a blockchain company specializing in asset management, data logging and analyzing in mobility.	Software	Quantum Computing Applications	200,000	Americas	2016
AA Thornton	AA Thornton is a firm of Intellectual Property (IP) professionals, including UK Chartered Patent Attorneys, Registered UK and European Trade Mark Attorneys and IP Solicitors, based in London and Alicante.	Other Quantum	Private Research Company	Unknown	EMEA	1911

Snapshot of Quantum Companies Across Various Fields

With our platform, users gain valuable insights into all available quantum processors, the services and deployment models offered, and a range of practical use cases identified with each quantum technology organization. This comprehensive information empowers users to make informed decisions and select suitable partners for implementing their quantum solutions effectively.

2. Identify relevant stakeholders and consortia to collaborate with

Snapshot of Market Map Tool: This tool shows all the companies, investors, and users around the world, sorted into different groups.

Snapshot of consortia from different countries and regions around the world.

Users can easily identify relevant stakeholders ranging from universities to startups, collaborative efforts in research, skill development, and more. Our extensive consortia page showcases various quantum technology consortia worldwide, providing a convenient resource for users seeking to connect with consortiums.



3. Find companies for strategic investments

Snapshot of Quantum Startups Across Various Fields from Our Platform

Our platform provides comprehensive and updated company information spanning quantum technology domains across the globe. This empowers users to discover disruptive quantum ventures in their early stages, offering valuable investment opportunities and competitive information.

4. Identify Quantum Processing Units (QPUs) available for deployment

Company	Qubit Technology	Accessible via	Quantum Cloud Links	Compatible SDKs	QPU	Year of Release	Physical Qubits/Quumodes	Logical Qubit
Bose Quantum Technology	Photonics	Bose Quantum Technology	platform.qboston.com	-	Tiangong Quantum Brain 100	2023	100	-
	Photonics	Bose Quantum Technology	platform.qboston.com	-	Tiangong Quantum Brain 550W	2024	550	-
Chinese Academy of Sciences	Superconducting	QuantumCTek, ScQ.Cloud	q.iphy.ac.cn quantumctek-cloud.com	-	Zuchongzhi	2023	176	-
	Superconducting			-	Xiaohong	2024	504	-
	Superconducting			qasm	ScQ-P10	-	10	-
	Superconducting			qasm	ScQ-P50	-	50	-
D-Wave Systems	Superconducting	Fixstars, Amazon Web Services (AWS), D-Wave Systems	amplify.fixstars.com cloud.dwavesys.com	Ocean	Orion	2007	16	-
	Superconducting			Ocean	One	2011	128	-
	Superconducting			Ocean	Two	2013	512	-
	Superconducting			Ocean	2X	2015	1152	-
D-Wave Systems	Superconducting	Fixstars, Amazon Web Services (AWS), D-Wave Systems	amplify.fixstars.com cloud.dwavesys.com	Ocean	2000Q	2017	2048	-
	Superconducting			Ocean	Advantage	2020	5760	-

Snapshot of QPUs with key metrics that can be used for deployment for specific applications.

The Quantum Insider platform provides a list of all the available QPUs alongside essential metrics like qubit technology, cloud accessibility, and compatibility with development tools. This enables enterprise users to identify the most suitable QPUs for their specific application domains, streamline integration with existing workflows, and take investment decisions in emerging quantum technology.

5. Identify the appropriate use cases in order to develop effective Quantum Computing solutions

Possible Use Case	Problem Description	Industry	Problem Domain	Approaches	Hardware	Current status
A More General Quantum Credit Risk Analysis Framework	The work addresses significant limitations in existing quantum algorithms for credit risk analysis (CRA) by proposing a new variant that enhances the risk model for each asset by considering multiple systemic risk factors, resulting in a more realistic and complex default probability model. Additionally, the flexibility of the loss-given-default input is increased by allowing real data instead of only integer values, enabling fair benchmarking protocols. These improvements were tested through classical simulation and on IBM Quantum Experience QPUs, providing a baseline for future research. While the new variant increases circuit depth and width, it offers a substantially more realistic and practical solution for the financial sector as quantum technology progresses.	Finance	Simulation	QAE	NISQ	Resource Estimation
Aircraft & Vehicle Design	Boeing is working with IBM to leverage QC in aircraft design and in developing new materials for aircraft.	Airline and Aerospace	Optimization	QAOA	TBD	Toy demonstrations
Aircraft Climb Optimization	Determine a fuel efficient and/or time efficient trajectory for an aircraft during its climb phase.	Airline and Aerospace	Optimization	Quantum Genetic Algorithm, Test	FTQC	Problem Formulation
Aircraft Loading Optimization	Determine which payloads from the available options should be carried on board and where on the aircraft they should be placed so as to maximize revenue and minimize operating costs.	Airline and Aerospace	Optimization	Quantum Annealing, QAOA	Quantum Annealer, NISQ, FTQC	Toy demonstrations
Analysing CT Scan Images	In medical diagnosis and clinical practice, diagnosing a disease early is crucial for accurate treatment, lessening the stress on the healthcare system. In medical imaging research, image processing techniques tend to be vital in analyzing and resolving diseases with a high degree of accuracy.	Life Sciences	Machine Learning	Quantum Neural Network	NISQ	Toy demonstrations

A snapshot of use cases that helps explore the potential of quantum computing applications and develop solutions.

Our platform provides a list of all major quantum computing use cases that addresses high-impact problems in finance, aerospace, healthcare, and other fields, ensuring that the resources are directed towards tangible benefits.



Case studies

Example case studies from our customers

National Quantum Strategy for the Department for Science, Innovation & Technology



Department for
Science, Innovation,
& Technology

Client Background

The United Kingdom is one of the global leaders in quantum technologies considered based on funding commitment and leading quantum ecosystems spanning universities, investors, corporate entities, and more.

Objectives

To support the conception of the UK government's national quantum strategy, His Majesty's Government required reliable market intelligence on the quantum technology industry - covering the global market - to help inform their £2.5 billion national strategy announced in March 2023.

Solutions

We provided the Department for Science, Innovation & Technology with subscription access to our market intelligence platform. While, in parallel, the QI team consulted on how to interpret the data and engaged in deep-dive reviews to further support the national strategy.

Impact

Our intelligence platform provided credible data and intelligence insights, backing the UK's quantum national strategy in factual clarity for optimal impact and funding commitment allocation.



Ernst & Young (EY) Data Intelligence Support



Client Background

As one of the leading consulting firms globally, EY is seeking to cement its authoritative role in the quantum technology ecosystem, pursuing a collaborative approach such as with IBM Quantum.

Objectives

EY sought reliable and comprehensive data on quantum technology funding to gather insights and incorporate them into their public reports, offering valuable knowledge to their clients and stakeholders.

Solutions

Our market intelligence platform provided an in-depth analysis of private and government funding trends, including investments, grants, and partnerships.

Impact

EY used credible quantum data and intelligence on the funding ecosystem of quantum technologies, enabling them to make informed decisions and drive innovation. Our platform increased the quality of their public reports and client deliverables, forming stronger customer relationships and retention.



Testimonials

Feedback from our delighted customers

“



“Before Resonance, finding aggregated information about the quantum computing market and competitive ecosystem was nearly impossible. As a Competitive Intelligence Analyst at Pasqal, we struggled to access centralized data about global quantum ecosystems. Resonance transformed this with their comprehensive, accurate data platform - saving us at least 50% of our research time. Their ability to understand and anticipate customer needs, combined with rapid platform updates, is impressive. If you're a quantum company looking to improve your strategic decision-making process, Resonance covers 95% of your quantum ecosystem data needs.”

Antoine Bourbon

Competitive Intelligence Analyst, Pasqal

“



“Understanding the quantum market can be akin to understanding quantum physics itself. I have found that the TQI breaks down the market and allows me to look at the data how I want - simply and cleanly - separating out funding from investment to services and applications. This product again shows The Quantum Insider's industry leadership.”

Stuart Woods

Former Managing Director of Oxford Instruments, and former Chief Operating and Strategy Officer of Quantum Exponential. Currently Business Strategy Adviser on Resonance Advisory Board

“



“TQI has become a key source of information and insights for our fund. There are few available resources if you're looking into quantum or deep tech in general, and we're very impressed by what TQI has put together.”

Thomas Park

Partner Lead for BDC's Deep Tech Venture Fund

“



“The Quantum Insider has emerged as a critical resource for our team as commercial markets develop for quantum technologies. Their continued contributions to the quantum ecosystem is significant.”

Jimmac Lofton

Business Development at Quantinuum

Get started

You can start exploring a limited version of the TQI Intelligence Platform now by visiting the platform [here](#).

Premium access is offered as a SaaS monthly subscription and is priced based on number of seats and access rights.

For those who are looking for more than self-service access, we support our clients with bespoke, market intelligence-driven consulting.

To learn more please contact us at hello@resonance.holdings

