



MEDIA

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Quantum Computing Intelligence Service

Part of the AI & Intelligent Automation Service Area Package

Consolidating and extending Omdia's research program covering the global quantum computing market.

**PRODUCT OVERVIEW | Quantum
Computing Intelligence Service**



OMDIA

“ **Forward-thinking companies are experimenting today with current NISQ-era quantum computers to prepare themselves to compete effectively when fully fault-tolerant quantum computers offer a robust advantage over today’s classical computers, which is expected by the end of this decade.**

Sam Lucero

Chief Analyst, Quantum Computing

Quantum Computing Intelligence Service

Analyzing the commercialization of quantum computing technology

HOW OMDIA HELPS YOU

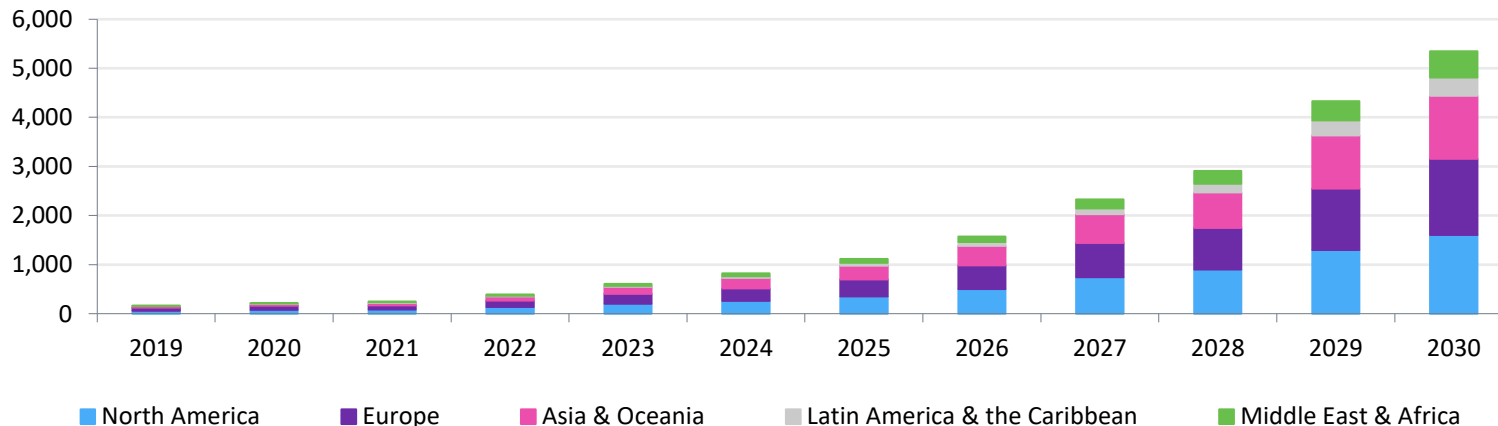
- **Inform:** Analyze technology and market trends in the quantum computing (QC) industry.
- **Advise:** Recommend strategic actions to optimize clients' commercial opportunity.
- **Amplify:** Enhance clients' marketing and business development efforts by leveraging Informa Tech's global media and events platform.

KEY QUESTIONS ADDRESSED

- What is the estimated current size and future market opportunity for QC industry revenue?
- How is QC technology developing now and likely to evolve in the future?
- What are the needs, preferences, and current activities of QC adopters in this market?
- How is QC technology being used to address specific verticals, applications, and use cases?
- What is the current landscape of QC technology providers and how is this landscape evolving?
- Who are the key providers of QC technology and how do they differentiate themselves in the market?
- How is investment and funding of QC research and commercialization activities developing?
- How are governments and regulatory bodies engaging with the QC industry?
- What is the individual impact of key announcements in the industry, assessed as they occur?

Total enterprise quantum computing revenue by region, world market: 2019–30

Revenue (\$m)



Source: Omdia

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Quantum Computing: Our Expert Analysts



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Quantum Computing: Deliverables



MARKET FORECAST

A ten-year view on revenue growth in the global quantum computing market, segmented by region, product type, and industry.



VENDOR BENCHMARKING

Detailed benchmarking analysis of key vendors in the quantum computing value chain, based on both qualitative and quantitative assessments.



REPORTS

In-depth studies focused on specific technology and market issues and segments, providing both qualitative and quantitative analysis.



MARKET TRACKER

Quarterly update of vendor database, adopter database, investments, and significant technology developments.



ANALYST INSIGHTS

Analyst commentary on market shifts, technology and regional developments, vendors, events, and more.



ANALYST ACCESS

Prompt responses from Omdia's regional analyst team to urgent and unique questions.

Quantum Computing: Market Data

Market Forecast

Ten-year forecast of global quantum computing vendor revenue segmented by region, product type, and industry. Published with an accompanying qualitative market landscape report providing detailed explanation and analysis of the forecast results.

Frequency: Updated annually

Market Tracker

Extensive database with dashboarding and analysis of five key data sets: Vendor Data, Adopter Data, Vendor News, Funding Data, M&A Data, and Government News.

Frequency: Updated quarterly

Adopter and Vendor Surveys

- Quantitative survey (with associated qualitative analysis) of adopters of quantum computing technology in China, Germany, and the US.
- Quantitative survey (with associated qualitative analysis) of a select set of quantum computing vendors.

Frequency: Updated annually

Vendor Benchmark Reports

Quantitative and qualitative benchmarking studies of vendors at multiple levels of the value stack, based on one-on-one depth interviews with the vendors and extensive secondary research.

Frequency: Updated annually

Quantum Computing: Topical Reports

Technology Analysis Reports

Detailed qualitative studies of key segments of the quantum computing technology stack, such as Quantum Processing Units (QPUs), control systems, and Quantum Computing-as-a-Service (QCaaS) offerings.

Frequency: Updated annually

Market Landscape Report

Detailed qualitative analysis of all facets of the quantum computing market, including market structure and key trends. Accompanies and supports the Market Forecast database.

Frequency: Updated annually

Regulatory Analysis Report

Detailed qualitative analysis of how governments are engaging with the quantum computing industry globally. Includes assessments of national technology development programs, ecosystem development efforts, and important regulatory initiatives.

Frequency: Updated annually

Analyst Opinion and News Analysis Reports

Short-form qualitative analysis of key events occurring in the industry.

Frequency: On-going publication

New for 2023 – New Research Content & Product Enhancements

Quantum Computing Intelligence Service

- **Government QC investment and regulation tracker**
 - Regular tracker focusing on government investment and regulation activity related to quantum technology
- **Quantum Computing Software Report**
 - Capstone report covering software-related segments of the quantum computing market (complements existing hardware report)
- **Sentiment Analysis Report**
 - Assessment of sentiment in the QC industry.
- **Quantum Computing Market Forecast Report**
 - Capstone report covering software-related segments of market
- **Quantum Market Tracker**
 - Enhancement including adding QC adopter database

Quantum Computing – 2023 Research Themes

Journey to quantum advantage

The industry is marching steadily towards fully fault-tolerant quantum computers that demonstrate a robust advantage over classical computers. This journey is neither simple nor easy (nor even assured of eventual success), but billions of dollars are being spent to try different approaches to reaching this goal. Our research will identify and assess these approaches and their implications for the market.

Experimenting in the NISQ era

Forward-thinking companies are experimenting with current so-called “NISQ” (Noisy, Intermediate-Scale Quantum) era computers to understand how best to compete when (and if) quantum advantage is finally achieved broadly in the industry. Our research will survey leading adopters to understand how engagement with quantum computing is happening today and what companies should do to position themselves optimally.

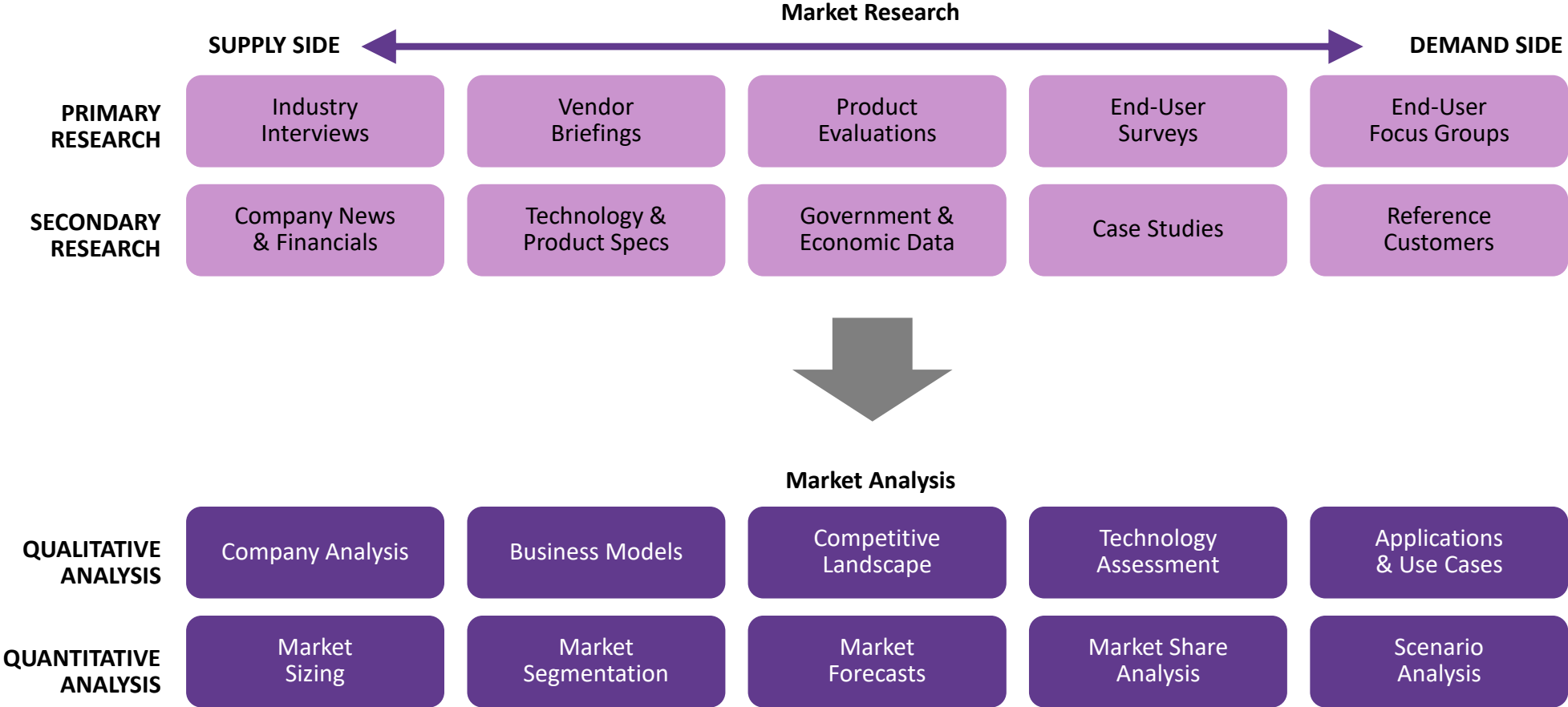
Democratizing access to quantum computing

Quantum computing is a notoriously challenging discipline with a very limited number of technically proficient practitioners. Various efforts are underway to simplify access to, and use of, current quantum computing resources to broaden the global user base and enable faster adoption. Our research will examine these trends and their implications for the market.

Geo-political imperatives

The governments of many developed (and near-developed) nations have identified quantum computing (and quantum technology more broadly) as a key “deep tech” with national security ramifications. These governments are investing from millions to billions of dollars to ensure that their countries have strong domestic capabilities in the use of quantum technology. Their actions range from establishing research programs to develop “national quantum computers” to encouraging vibrant quantum computing ecosystems in their territory, to enacting export controls to limit rival governments’ access to foundational technologies. Our research will analyze these trends and their implication for the market.

AI Applications: Research Methodology



AI and Intelligent Automation

Advanced Computing

Next-generation AI compute architectures

AI hardware trends for edge, cloud, and data center

Quantum

AI Applications

AI & IA ecosystem, use cases, market dynamics, forecasts, and trends

AI & IA market maturity and technologies adoption

Vendor benchmarks

AI Business Toolkit

Enterprise-grade blueprints

Best practices for adopting and scaling

Benchmarks and surveys

AI KPIs

Analytics & Data Management

Hardware, software, and services for agile, comprehensive, secure, and scalable data architectures for AI

AI Viewpoints

High-level summaries and cutting-edge trends

Quantum Computing

Deep-dive coverage of the commercialization of QC technology.

Enterprise adopter and Vendor Surveys

AI & IoT Asia Viewpoint

High-level summaries and cutting-edge trends focusing on the APAC region

AI & Intelligent Automation Overview

About Omdia's AI & Intelligent Automation Research

The AI & Intelligent Automation research area provides a full-stack view of AI across applications, software, hardware and services. There is coverage across a wide variety of companies from AI startups, hyperscalers, chipset vendors, cloud providers, OEMs, IT vendors, AI platform vendors, AI and IT services companies, as well as several end user companies deploying AI across different vertical markets.

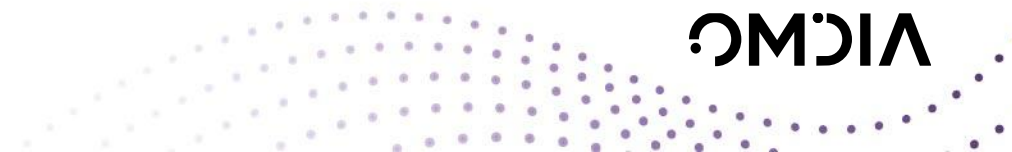
AI is beginning to move from proof of concept (PoC) into a stage of industrialization, with vendors and end users looking to understanding the business of AI. Omdia's AI business toolkit is aimed at bridging the gap between the technology and the economic value of AI, giving clients a range of tools to benchmark, measure and plan around the commercialization of AI.

To complete the circle, AI & Intelligent Automation also covers the impact of AI and automation from the perspective of AI hardware for cloud and edge, autonomous machines and the next-generation compute stack from quantum computing to HPC that is emerging to support new applications and services.

AI Applications – 2023 Schedule

Report
Forecast
Tracker

Q1	Q2	Q3	Q4
<ul style="list-style-type: none">• Quantum Computing Market Tracker – 1Q23 Data• Quantum Computing Market Tracker – 1Q23 Analysis	<ul style="list-style-type: none">• Quantum Computing Market Tracker – 2Q23 Data• Quantum Computing Market Tracker – 2Q23 Analysis• Quantum Market Forecast – Data• Quantum Market Forecast - Analysis• Quantum Computing End User Survey – Analysis• Quantum Computing End User Survey - Data• Quantum Computing Software - 2023	<ul style="list-style-type: none">• Quantum Computing Market Tracker – 3Q23 Data• Quantum Computing Market Tracker – 3Q23 Analysis• Quantum Computing Vendor Survey – Analysis• Quantum Computing Vendor Survey - Data	<ul style="list-style-type: none">• Quantum Computing Market Tracker – 4Q23 Data• Quantum Computing Market Tracker – 4Q23 Analysis• Quantum Computing Hardware – 2023• Q2B 2023 Show Report• Quantum Trends to Watch



Our “Ask an Analyst” Service Provides Best in Class Customer Support

Whether you need guidance to navigate the service, information regarding our methodologies or you want to better understand a data trend, Omdia’s support team is here to help.

Draw on our expertise

- Make the right decisions
- Sanity-check your own findings
- Get the most out of your subscription
- Understand more about our methodologies

Our Ask an Analyst service gives you direct contact via telephone, email or face-to-face session with our expert analyst team:




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Kâren Dyer
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Manager*



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Thank you

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