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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.

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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

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Quantum Computing Intelligence Service

Analyzing the commercialization of quantum computing technology
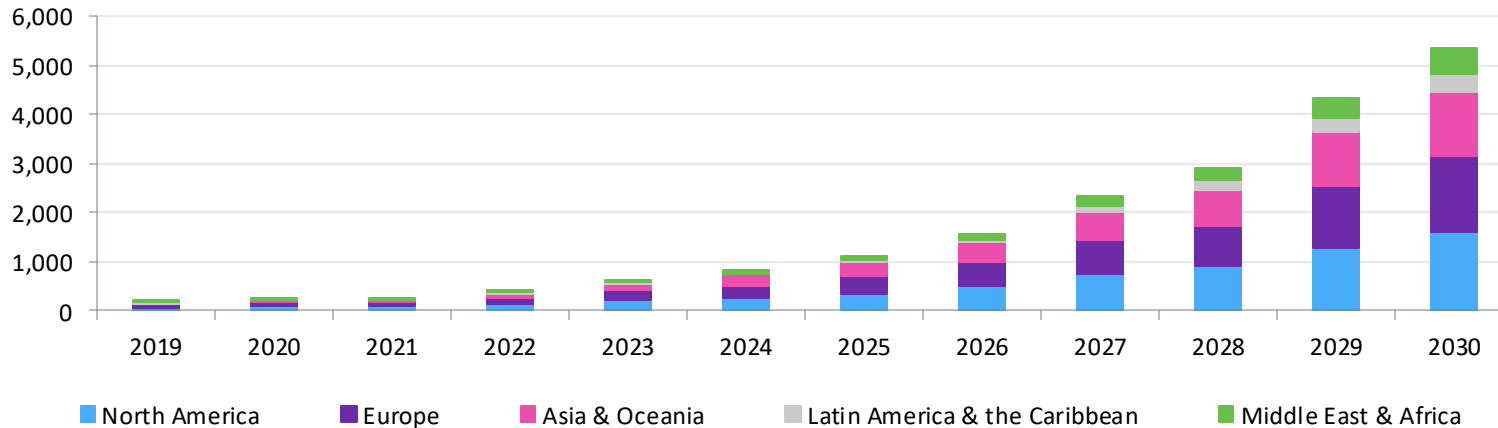
HOW OMDIA HELPS YOU

- **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)

Legend: ■ North America ■ Europe ■ Asia & Oceania ■ Latin America & the Caribbean ■ Middle East & Africa

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.

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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: Vendors, Adopters, Product News, Investment News, 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

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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.
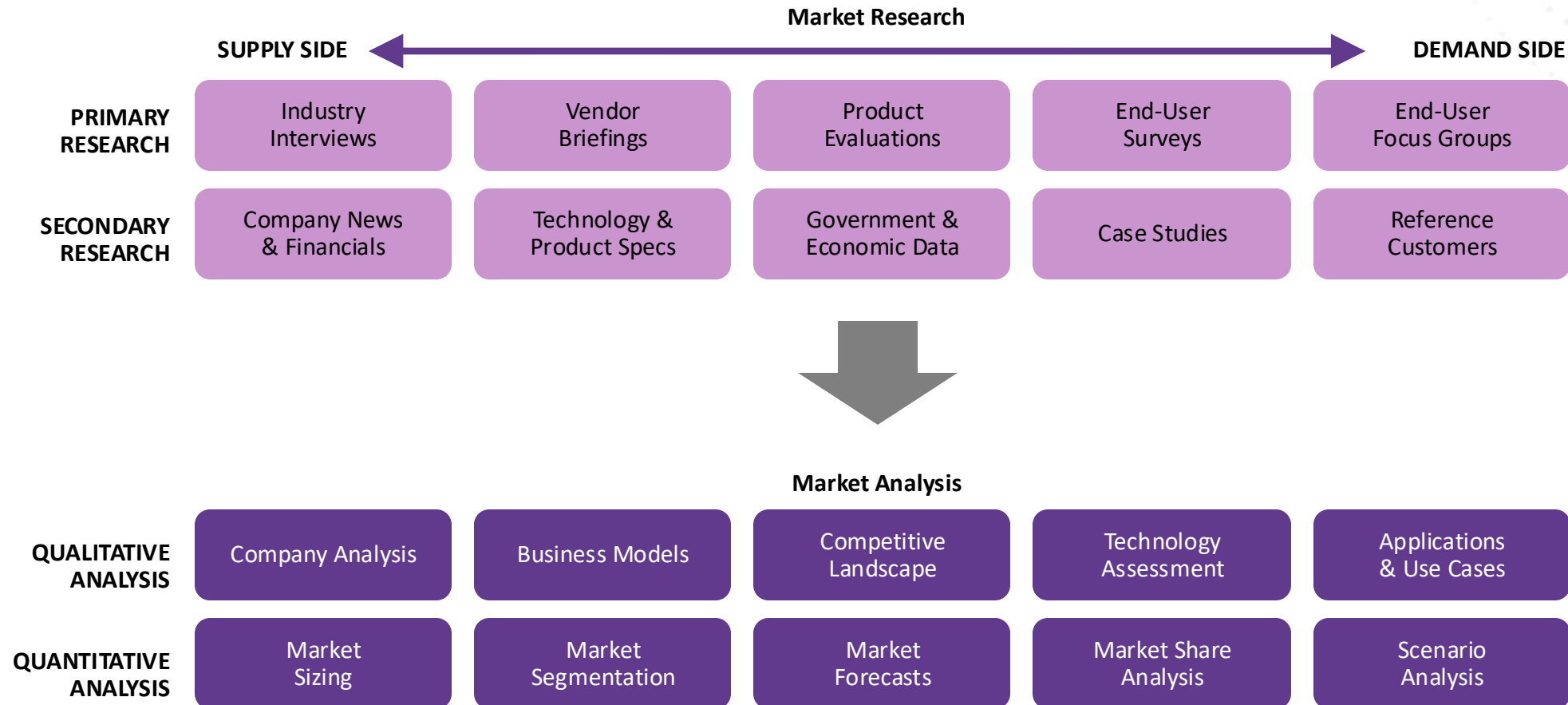
Frequency: Updated annually

Analyst Opinion and News Analysis Reports

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

Frequency: On-going publication

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AI Applications: Research Methodology

Market Research

SUPPLY SIDE ←——————————————————————————→ DEMAND SIDE

PRIMARY RESEARCH	Industry Interviews	Vendor Briefings	Product Evaluations	End-User Surveys	End-User Focus Groups
SECONDARY RESEARCH	Company News & Financials	Technology & Product Specs	Government & Economic Data	Case Studies	Reference Customers

Market Analysis

QUALITATIVE ANALYSIS	Company Analysis	Business Models	Competitive Landscape	Technology Assessment	Applications & Use Cases
QUANTITATIVE ANALYSIS	Market Sizing	Market Segmentation	Market Forecasts	Market Share Analysis	Scenario Analysis

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Artificial Intelligence – 2024 Research Themes

Generative AI reaches the enterprise	Companies are taking pretrained generative AI models and fine tuning them on internal proprietary company data.
MLOps renewed and reinvigorated in the realm of generative AI	Enterprises will learn quickly that governing large language models will demand a new set of tricks, extending and deepening the scope of responsibility for MLOPs as a driver of business value.
Can any hardware alternative stop NVIDIA?	Although the challenges of AI on GPUs are as difficult as ever, the AI hardware startups are struggling to get traction in the fact of NVIDIA's status as the industry standard for AI software development. Only the hyperscalers' custom ASICs are serious competition. Can anyone change this situation?
Safety and trustworthiness of (Generative) AI become top priority for governments and business leaders alike	Governments rush to regulate generative AI. Meanwhile, well ahead of any tangible regulatory requirements, enterprises begin to invest in software tools and services capable of imposing some degree of control, transparency, and accountability.
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.

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AI and Intelligent Automation

Advanced Computing

- Next-generation AI compute architectures
- AI hardware trends for edge, cloud, and data center
- Quantum for AI

AI Enterprise Insights

- AI market maturity, buyer needs and pain points and implications for vendors
- Best practices for adopting and scaling AI: AI KPIs, budgets, innovation, talent and risk management
- Enterprise adopter and vendor surveys

Quantum Computing

- Deep-dive coverage of the commercialization of QC technology
- Enterprise adopter and vendor surveys

AI Applications

- AI & IA ecosystem, use cases, market dynamics, forecasts, and trends
- AI & IA market maturity and technologies adoption
- Emerging capabilities and vendor benchmarks

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

AI & IoT Asia Viewpoint

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

AI, Intelligent Automation & Quantum Computing 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. We cover a wide range of companies, from AI startups to hyperscalers, chipset vendors, cloud providers, OEMs, IT vendors, AI platform vendors, AI and IT services companies, as well as select end-user organizations deploying/scaling AI. We address AI both horizontally and vertically, via deep dives into technologies and use cases in several vertical markets.

AI is rapidly progressing from the proof of concept (PoC) stage into the stage of industrialization and early majority market, with vendors and end users looking to ramp up AI more quickly than the early adopters before them. Omdia's AI Enterprise Insights Intelligence Service bridges the gap between the technology and the economic value of AI, giving clients a range of tools, insights, and best practices for adopting and scaling AI innovation.

Data is the lifeblood of AI. The Analytics & Data Management Intelligence Service assesses key industry trends and emerging capabilities, tooling and platforms for managing, securing, curating, and sharing data, as well as advanced analytics and data science.

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.

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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.

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

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

Shelley Hunter
Customer Success Manager

Kâren Dyer
Customer Success Manager

96%
of our customers rate our service as Excellent or Very Good

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Thank you

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