Advanced Computing Intelligence Service

Part of the AI & Intelligent Automation Service Area Package
Covers emerging technology and hardware trends surrounding the next generation of computing performance and capabilities. Key areas of focus include AI-optimized compute, networking and storage hardware, high performance computing, quantum computing, next generation microprocessor architectures, and emerging software and systems paradigms. Omdia's market analysis includes an assessment of how these leading-edge technologies will enable new applications and business models, in-depth profiles of key ecosystem participants in each category, and detailed market sizing and forecasts.

> "Unlike the 1970s when the PC compute stack was emerging, we are now entering a multimodal future where multiple compute techniques will emerge simultaneously."
>
> **Jon Cassell**
> Principal Analyst

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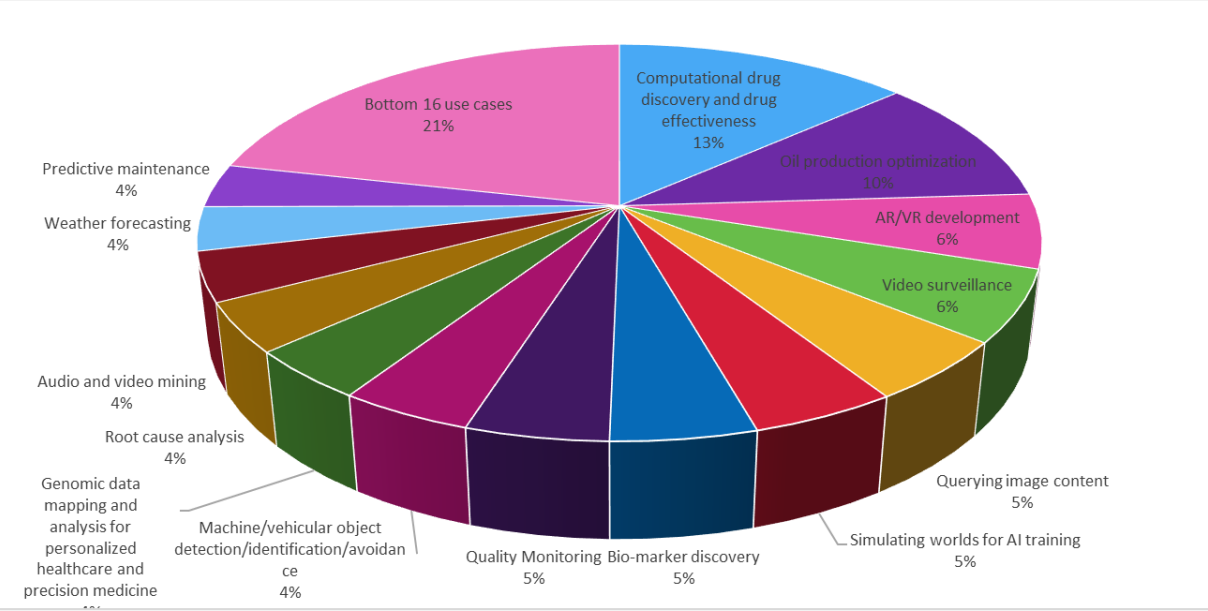
HOW OMDIA HELPS YOU

- Understand the underlying technologies that are driving the future of computing.
- Build strategies that align with the upcoming shift in compute architectures.
- Identify partners and innovators.
- Deliver on a roadmap of products and solutions that take advantage of new compute paradigms.

KEY QUESTIONS ADDRESSED

- How will leading-edge compute technologies enable new applications and business models?
- Who are the key ecosystem participants driving new compute paradigms?
- What applications?
- Coverage of AI Hardware in the context of quantum, neuromorphic, blockchain and other compute fabrics

AI-focused HPC Software Use Cases, World Markets, as Percentage of 2025 Revenue



Advanced Computing: Meet the Analysts

Jon Cassell
Principal Analyst,
Advanced Computing

Alexander Harowell
Senior Analyst,
Enterprise AI

Keith Kirkpatrick
Principal Analyst,
Quantum Computing, HPC

Natalia Modjeska
Research Director,
AI & Intelligent
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Advanced Computing: Deliverables

FORECASTS
—Annual—

- AI Chipsets for Cloud and Datacenter Forecast Report (Q2 2021)
- AI Chipsets for Edge Forecast Report (Q1 2021)
- AI Servers, Workstations, Cards, Storage and Networking Report(Q3 2021)

VENDOR BENCHMARKS
—Annual—

- AI Chipsets for Edge Market Radar (4Q 2021)
- AI Chipsets for Cloud and Datacenter Market Radar (3Q 2021)
- Quantum Computing Market Radar (3Q 2021)

REPORTS
—Annual—

- AI Edge Servers and Appliances, AI Servers, Workstations, Cards, Storage and Networking, AI Workload Analysis for Hardware Infrastructure, Quantum Computing Market and more

ANALYST INSIGHTS
—Ongoing—

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

PRESENTATIONS
—Quarterly—

Quarterly scheduled briefings with analysts on research highlights from all aspects of the market.

ANALYST ACCESS
—Ongoing—

For prompt responses to urgent and unique questions.

Advanced Computing: Market Data

AI Chipsets for Cloud and Datacenter Forecast (Q2 2021)

This report focuses on CPU, GPU, ASIC, FPGA chipset revenue and shipment data for AI hardware in the datacenter and cloud. Breakdown by workloads, training vs inference.

Frequency: Annual

AI Chipsets for Edge Forecast (Q1 2021)

This report focuses on CPU, GPU, ASIC, FPGA chipset revenue and shipment data for AI hardware at the edge covering 10 device categories – PC/tablets, Mobile, Drones, HMDs, Smart Speakers, Automotive, Security Cameras, Edge Servers, Machine Vision, Robots.

Frequency: Annual

AI Servers, Workstations, Cards, Storage and Networking Report (Q3 2021)

Provides shipments and revenue for AI hardware largely in the datacenter across cards, workstations, servers, networking and storage.

Frequency: Annual

Regions

- North America
- Europe
- Asia Pacific
- RoW

Coverage

- AI Chipsets
- AI Servers
- Workstations
- PC Cards
- AI-Optimized Networking
- Storage Hardware

Advanced Computing: Market Reports

Deep Learning Chipsets, AI Edge Devices, Quantum Computing, HPC

Frequency: Annual

A Series of 8 or more Advanced Computing Research Reports

- Back catalogue of all published Advanced Computing research reports
- Key topics covered including:
  - AI Chipsets
  - AI Servers, Cards, Workstations
  - AI Cloud/Datacenter
  - AI Edge
  - AI Hardware Development Platforms
  - AI SoC IP Cores
  - Quantum Computing
  - High Performance Computing

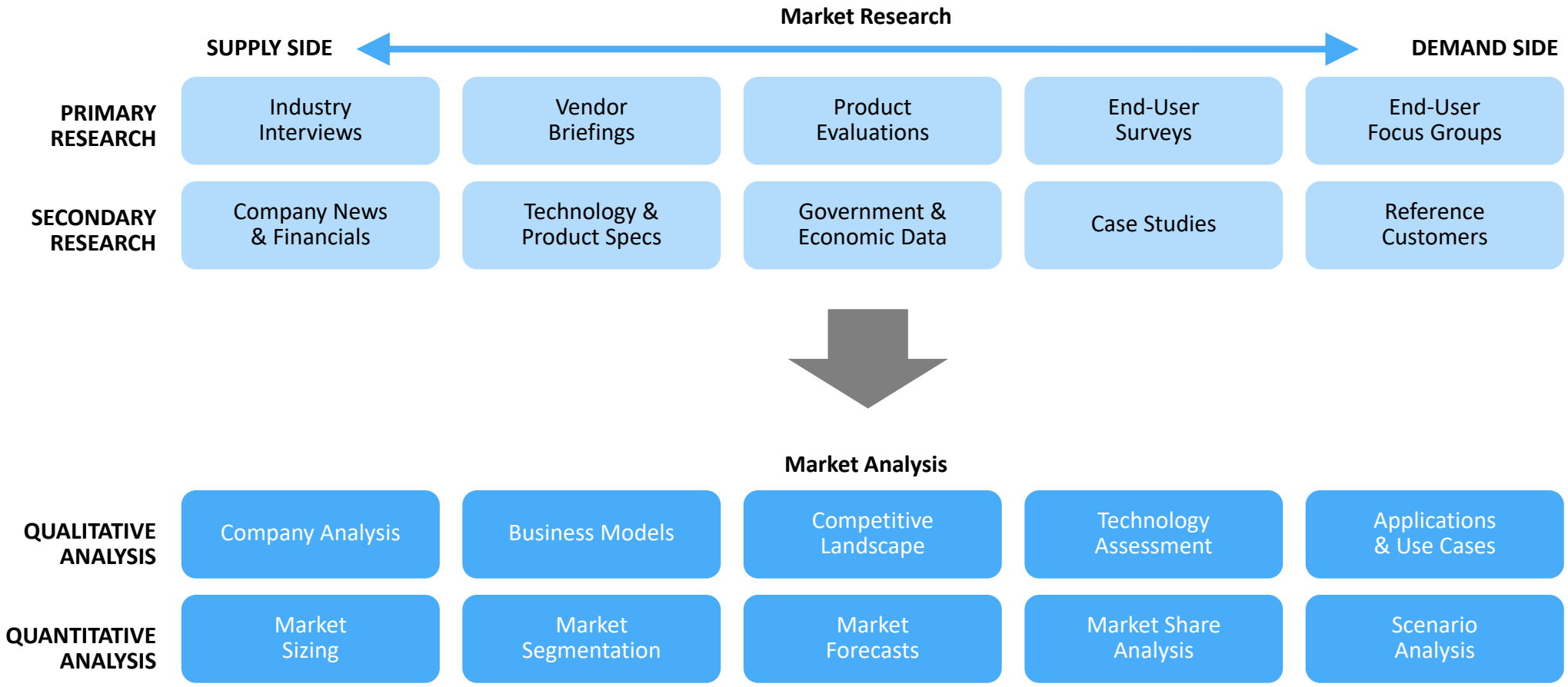
Regions

- North America
- Latin America
- Europe
- Middle East and Africa
- Asia Pacific

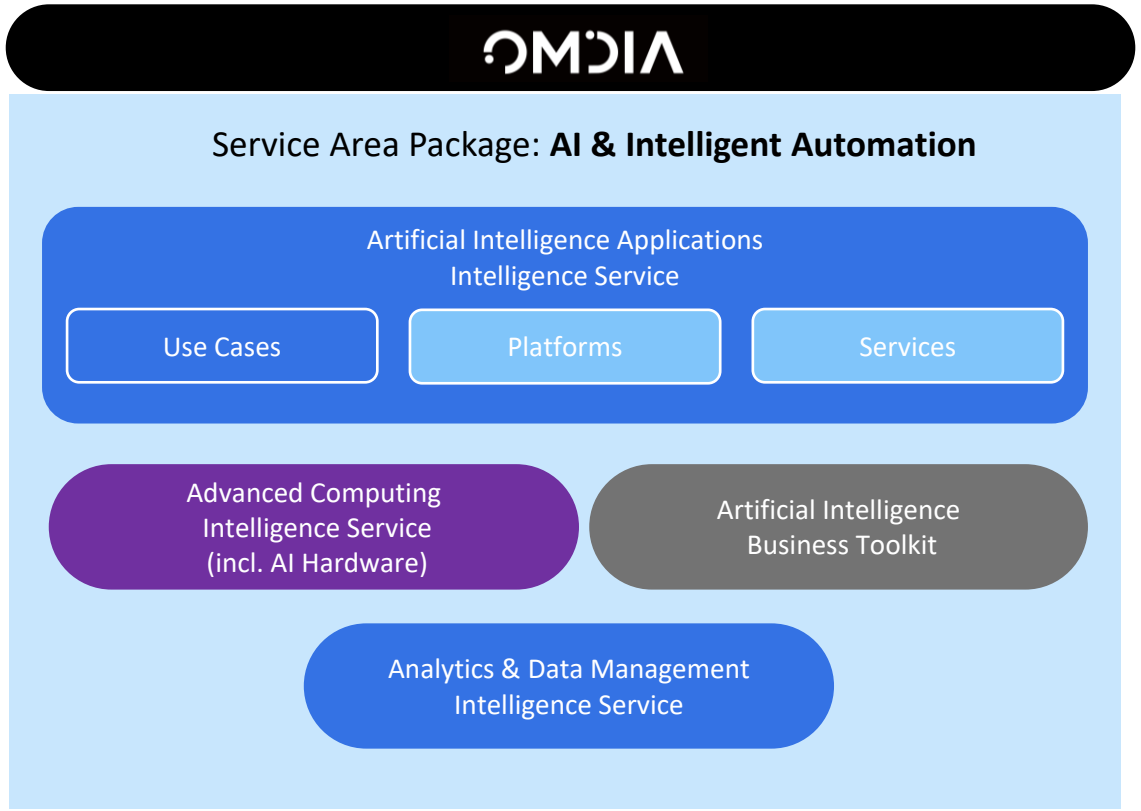
Report Titles

- AI & High-Performance Computing Report
- AI Chip IP Cores
- AI Edge Servers and Appliances Report
- AI Edge Software Development Report
- AI Servers, Workstations, Cards, Storage and Networking Report
- AI Workload Analysis for Hardware Infrastructure
- Orchestration of AI Cloud and AI Edge Processing
- Quantum Computing Market

Advanced Computing: Research Methodology



Related Content: AI & Intelligent Automation Service Area Coverage



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, robots, autonomous machines and the next-generation compute stack from quantum computing to HPC that is emerging to support new applications and services.

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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ABOUT OMDIA

Omdia is a global technology research powerhouse, established following the merger of the research division of Informa Tech (Ovum, Heavy Reading, and Tractica) and the acquired Omdia technology research portfolio*. We combine the expertise of more than 400 analysts across the entire technology spectrum, covering 150 markets. We publish over 3,000 research reports annually, reaching more than 14,000 subscribers, and cover thousands of technology, media, and telecommunications companies.

Our exhaustive intelligence and deep technology expertise enable us to uncover actionable insights that help our customers connect the dots in today's constantly evolving technology environment and empower them to improve their businesses–today and tomorrow.

* The majority of Omdia technology research products and solutions were acquired by Informa in August 2019 and are now part of Omdia.