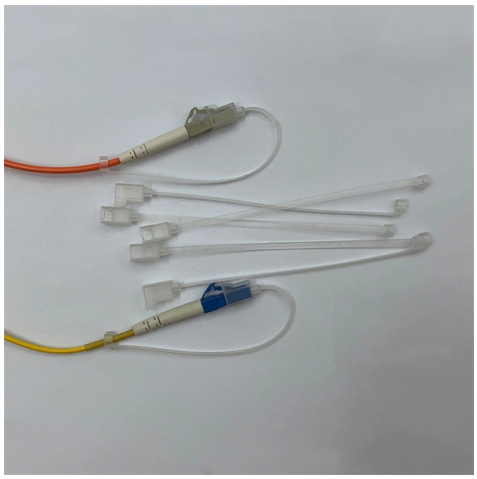
Will Internet data centers continue to grow



Overview

The future of data centers Undergirding this growing use of AI is the need for state-of-the-art data centers. This paper examines the future of these entit.

Key Takeaways

Internet data centers are expected to continue growing rapidly, driven by AI, cloud computing, and digital transformation, with global capacity nearly doubling by 2030.

Market Expansion and Investment

Global data center capacity is projected to increase by nearly 100 GW between 2026 and 2030, effectively doubling current capacity, with a 14–16. 8% CAGR expected through 2030. This growth will require trillions of dollars in investment, including $3 trillion in infrastructure and up to $7 trillion globally to meet surging demand for AI and non-AI workloads.

Hyperscale operators like AWS, Microsoft Azure, Google Cloud, and Alibaba Cloud will remain key drivers, combining leasing and self-building strategies.

A

I and Workload DriversAI is a major catalyst for data center growth. By 2030, AI workloads could account for up to 70% of total capacity, with inference workloads overtaking training as the dominant driver around 2027. This shift is influencing facility design, including higher rack densities (approaching 100 kW) and liquid cooling requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Non-AI workloads will also continue to expand due to cloud adoption, IoT, streaming services, and big data analytics.

Regional and Operational Trends

Growth is geographically diverse, with North America and Asia-Pacific leading due to high technology adoption and investment in digital infrastructure.

The U

S alone hosts 4,280 data centers, representing the largest share globally. Enterprises are increasingly adopting hybrid portfolios, blending on-premises, colocation, hyperscale, and edge computing, while sensitive workloads remain on-site. Power availability, rather than cost or location, is becoming the primary site selection criterion due to grid constraints.

Challenges and Technological Adaptation

Despite strong growth, the sector faces challenges including high capital expenditure, energy consumption, water usage, and regulatory compliance. Technological innovations such as virtualization, sustainable design, and next-generation silicon architectures are critical to mitigating these constraints. Companies that successfully integrate AI-focused infrastructure and energy-efficient strategies are expected to outperform competitors, while others may face volatility and consolidation.

Conclusion

Overall, Internet data centers will continue to grow robustly over the next decade, driven by AI, cloud computing, and digital transformation. The expansion will be accompanied by significant investment, technological innovation, and evolving operational strategies to meet the increasing demand for compute power and data storage globally.

Article Content

The future of data centers

Undergirding this growing use of AI is the need for state-of-the-art data centers. This paper examines the future of these entities.

2026 Market Outlook for Global Data Centers | JLL

The global data center sector is estimated to grow at a 14% CAGR over the next five years, which could result in 100 GW of new capacity coming

Data center demands

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

A stacked bar chart displays the estimated global data center capacity demand from 2025 to 2030, broken down by AI and non-AI workloads, under a “continued momentum” scenario. The

Measuring the Data Center Boom: Facts and Statistics (2026)

Data center revenue is predicted to grow to $624 billion by 2029, but that estimate could vary drastically depending on changes in data center locations, power generation opportunities, and

Building data centers bigger, faster | McKinsey

This article details how data center stakeholders across the industry can keep up with the digital transformation by adopting innovative designs that

JLL 2026 Global Data Center Outlook

The global data center sector will likely expand at a 14% CAGR through 2030, which will require energy innovations to alleviate grid constraints. Hyperscalers will remain a key driver of sector growth,

Data Center Growth Statistics: Understanding the Explosive

Explore data center growth statistics and understand the rapid expansion fueling our digital future. Learn key trends, drivers, and impacts on global infrastructure.

Data Center Growth Statistics 2026

Our in-depth market data report on Data Center Growth. Explore verified statistics and the latest research.

Global Data Centers Are Exploding—Here''s Why It Matters

"The data center market is experiencing robust growth driven by an overwhelming increase in data generation and consumption. Additionally, businesses are rapidly adopting cloud

Breaking Barriers to Data Center Growth | BCG

Data centers plan a $1.8T expansion by 2030 to meet soaring demand. Challenges like power bottlenecks and environmental concerns call for strategic solutions.

Cisco Customer Contract Experience

Find the contract terms that apply when you purchase Cisco offerings. The terms include General Terms, Supplemental Terms, and Offer Descriptions.

Artificial Intelligence (AI) Solutions

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Learn more about the latest AI innovations from Cisco and how our artificial intelligence solutions power and secure your AI infrastructure.

Cisco Government: Digital Government Solutions

Cisco government technologies can help scale limited resources, modernize public services for the future, and protect residents and their data. See why Cisco has

Why does OpenAI need six giant data centers?

Why does OpenAI need six giant data centers? OpenAI''s new $400 billion announcement reveals both growing AI demand and circular investments.

This is the state of play in the global data centre gold rush

Whether you''re streaming a movie, using cloud storage or chatting with AI, your data is being stored, processed and delivered by vast, energy

Global data center sector to nearly double to 200GW amid AI ...

CHICAGO, Jan. 6, 2026 – The global data center sector is poised for continued unprecedented expansion, with capacity expected to nearly double from 103 GW to 200 GW by 2030, according to

Breaking Barriers to Data Center Growth | BCG

GenAI will be the fastest-growing segment of computing demand from 2023 to 2028, but traditional enterprise workloads such as database

Mistral AI raises $830M in debt to set up a data center near ...

French lab Mistral AI has raised $830 million in debt to build a new data center near Paris that will be powered by Nvidia chips, according to reports from Reuters and CNBC.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved