CORESITE
An American Tower Company

Trust CoreSite Data Centers to Enable Your AI Strategy

CoreSite.com

ANALYSTS PREDICT THERE WILL BE

55.7 BILLION CONNECTED

INTERNET OF THINGS (IOT) DEVICES

BY 2025, GENERATING ALMOST

80B ZETTABYTES OF DATA.[1]

Introduction

The potential of artificial intelligence (AI) has come into focus. Actualizing that potential for your business depends on an infrastructure capable of the high-density power, high-performance compute and low-latency cloud and digital ecosystem interconnection that AI needs to be valuable.

Much of the buzz around AI is about data. While it's true that Internet of Things (IoT) devices, machine learning (ML), generative AI and other AI technologies involve unprecedented data volumes, we can't lose sight of the fact that AI applications learn and make inferences from generated data. Data management and data integrity are keys to smarter, more accurate and more useful AI technologies that accelerate your business initiatives.

90%

By 2027, 90% of enterprises will use some artificial intelligence (AI) functions to automate Day 2 network operations, compared with fewer than 10% in 2023.[2]

The Incubator for AI

CoreSite data centers are hubs for interconnection, providing broad and efficient access to the data sources that are training AI models. CoreSite's network-dense data centers can serve as a funnel for data produced at every end point, by every connected device.
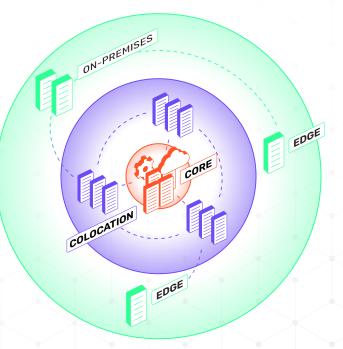
They also are environments where the universe of AI users can operationalize AI technologies. Developers, researchers, data scientists and other AI users have common as well as unique requirements that fit naturally in our data center environments.

- **Flexible low-latency networks, interconnection and cloud networking options**

- **Variable capacity capabilities to develop AI applications that support unique business goals and use cases**

- **Power and cooling sufficient to support the operating requirements of AI-servers**

A VISION FOR THE AI-ENABLING DATA CENTER ECOSYSTEM

An ecosystem of data centers spanning on-premises, edge, colocation and hyperscale – storing, processing and sharing data between optimally distributed AI workloads – will provide a variety of data center resource options. Edge-to-core networks will tie the architecture together.

AI also opens the possibility for digital platforms to bring AI-enhanced offerings to market. For example, more than 70% of IT service providers said their organization has already deployed AI or will be deploying AI within one year in each of the following areas: IT and cloud operations, network operations and network planning.[3]

FIGURE 1: Depiction of the data center ecosystem that powers AI technology. Data centers on the scale CoreSite operates are a funnel for data sourced at the edge and on-premises that can be processed by AI applications in colocation or relayed to public clouds.

What Industries and Companies Are Leveraging AI?

Many organizations recognize AI's potential and are either using or plan to use AI, or are providers that facilitate AI access. Among the vast array, a few use cases rise to the top of the list:

Public Cloud Providers. Enabling ML deployments requiring immense scale and data access

Data Science Providers. AI-driven software applicable in multiple industries designed to take advantage of machine vision, natural language processing, ML, and data APIs

Media and Entertainment (M&E) Enterprises. Streamlining workflows, cutting production costs and remonetizing existing assets

Infrastructure Providers. Leveraging AI to improve high-performance (GPU-driven) applications

AI Application Developers. AI-driven cloud computing support for building and scaling AI-driven applications in all industries

ML, Deep Learning, NLP Facilitators. Providing GPU-class performance on commodity CPUs or cloud-based AI resources
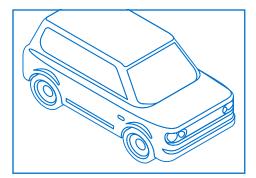
Enterprise R&D. Tackling genomics, biomedicine and multiple other universal challenges that, if solved, have the potential to be world-changing
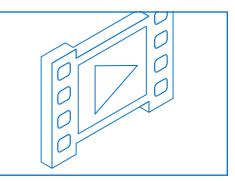
EdTech. Solving burnout and retention issues, cutting operational costs and streamlining admissions and administration, fostering collaborative R&D in edtech
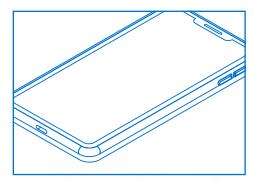
CoreSite clients are the AI experts and innovators. They are implementing AI in their business models today, leveraging the core strengths of the company – high-density, high-performance, reliable and secure data centers, and vibrant digital ecosystems consisting of carriers, platform providers and IT services providers. Industries include:
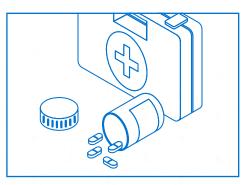
Automotive company developing autonomous vehicles and driverless delivery systems

Software solutions provider offering real-time development platforms for companies in gaming, M&E, general enterprise, manufacturing, government and more

Entertainment streaming services making genre and artist recommendations and building playlists customized to individual listener preferences
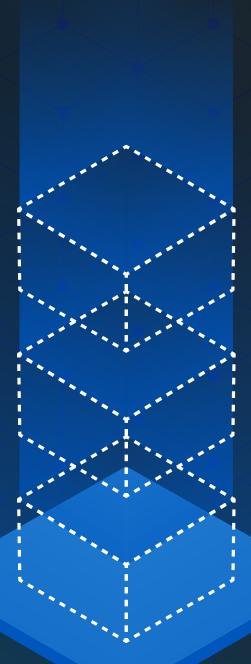
Drug development enterprise offering advanced neuroimaging capabilities for biopharmaceutical companies, clinical research organizations, marketing organizations and patients

CoreSite is the Foundation Needed to Build Your AI Future

CoreSite is an AI accelerator, providing data centers purpose-built for the high-density power, high performance compute, and cloud and digital ecosystem interconnection AI demands.

CoreSite has the distinction of being certified for the NVIDIA DGX-Ready Data Center program. By choosing to host their NVIDIA DGX™ infrastructure with CoreSite, customers can benefit from a national portfolio of high-density-powered data center campus environments for NVIDIA AI and high-performance computing at several CoreSite locations.

Organizations specialized in AI-scale data transport and AI-specific services can rely on CoreSite for the customization, interconnection, reliability, scalability and digital ecosystem they need to develop solutions today and continuously evolve their core competencies as AI matures.

REFERENCES:

1. Future of Industry Ecosystems: Shared Data and Insights, IDC, 2021

2. Gartner®, Innovation Insight: AI Networking Has the Potential to Revolutionize Network Operations, Jonathan Forest, Andrew Lerner and Tim Zimmerman, May 15, 2023, GARTNER is a registered trademark and service mark of Gartner, Inc. and/or its affiliates in the U.S. and internationally and is used herein with permission. All rights reserved.

3. Artificial Intelligence: Charting the Way Forward for AI: 2022 Survey of IT Leaders and Service Providers on AI Deployment, Heavy Reading, 2022

About CoreSite

CoreSite, an American Tower company (NYSE: AMT), provides hybrid IT solutions that empower enterprises, cloud, network and IT service providers to monetize and future-proof their digital business. Our highly interconnected data center campuses offer a native digital supply chain featuring direct cloud onramps to enable our customers to build customized hybrid IT infrastructure and accelerate digital transformation. For more than 20 years, CoreSite's team of technical experts has partnered with customers to optimize operations, elevate customer experience, dynamically scale and leverage data to gain competitive edge.

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