HOW ENTERPRISES ARE MODERNIZING THEIR DATA **CENTERS FOR AI READINESS**

Al data center strategies are now central to business success. As Al transforms operations across the enterprise, data center modernization becomes essential to support growing workloads and unlock new capabilities. Explore the three stages of maturity to identify where you stand, and what it takes to advance on the path to enterprise AI readiness.

MOST ENTERPRISES ARE STUCK IN THE MIDDLE

New research reveals a clear divide in AI data center maturity and enterprise AI readiness. While a small group is already positioned for Al-scale transformation, most are still modernizing—and some haven't even started. The longer organizations delay, the harder it becomes to compete at scale.

DATA CENTER MODERNIZATION FALLS INTO THREE MAJOR SEGMENTS



are data center Leaders1



Challengers1

of organizations

are data center Observers1

1 LEADERS

Leaders have done the hard work of data

AHEAD OF THE CURVE

center modernization in the past two years, achieving enterprise AI readiness.

More than

of enterprises will have used

generative AI technology, either through API and models or applications deployed in their production environments.2



- Ready to deploy AI at scale Lower operational costs
- through automation Greater agility and business
- alignment enable faster innovation



- legacy systems Technical debt from earlier decisions
- can drive unexpected overspend Underestimating cloud costs

CHALLENGERS

of organizations say that infrastructure limitations either currently prevent or will prevent

Al models more frequently.3

them in the future from retraining



RISKS

Al data centers while balancing competing priorities and resource constraints.

enterprise AI readiness, modernizing their

Learning from early adopters to avoid costly missteps

ADVANTAGES

- Improved stability and cost control through proven technologi
- More flexibility to adopt best practices and scale strategically
- **OBSERVERS**

Difficulty proving Al's return on investment (ROI)

- Misalignment between IT
 - Infrastructure may limit AI model retraining and performance

Only

AT RISK OF FALLING BEHIND

Observers are in the earliest stage of enterprise Al readiness and data center modernization, with plans to upgrade in

the next two years.

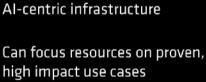
ADVANTAGES

of Observers believe their IT infrastructure is fully adequate to support their Al plans.1

Legacy systems increase operational costs and integration challenges

Lack infrastructure to support Al

Delayed modernization widens the competitive gap



Opportunity to leapfrog with modern,

Lower risk of early adoption missteps

- THE PATH TO LEADERSHIP

01

workloads at scale

RISKS

SUCCESS STORY: KT CLOUD

both AI innovation and execution.

MODERNIZING IN PLACE REFACTORING AND SHIFTING Enhancing existing on-premises or hybrid Rebuilding applications using cloud-native infrastructure to support Al workloads frameworks to enable greater scalability, without a full re-architecture. agility, and AI performance.

There's no "one-size-fits-all" approach to data center modernization. Each organization must shape its strategy around its infrastructure realities, enterprise Al readiness, and long-term priorities. Advancing toward leadership means selecting a path that supports

KT Cloud (formerly Korea Telecom) partnered with AMD and Moreh to launch a scalable AI platform powered by over 1,000 AMD Instinct™ MI250 GPUs. This architecture delivered the performance and efficiency needed to support large-scale language model training while significantly reducing cost.

reduction in GPU cloud service costs4

performance improvement for large-scale model training4

Up to

higher throughput per dollar vs. NVIDIA4

In terms of cost-effectiveness, the AMD Instinct-based cluster using Moreh software exhibited 1.9 times higher throughput per

VP OF KT CLOUD

WANT TO EXPLORE MORE?

center solutions.

by up to 117%.4

JOOSUNG KIM

Explore the full eBook to see how AMD powers enterprise AI readiness through scalable, modernized data

GET THE EBOOK

¹AMD, <u>S&P Global Market Intelligence</u>, 2025. Gartner, More Than 80% of Enterprises Will Have Used Generative AI APIs or Deployed Generative AI-Enabled Applications by 2026, 2023. Vanguard Report, The Newest Workloads Will Be Heterogeneous and Cloud Native, 2023.
⁴AMD, KT Cloud Case Study, 2024.

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dollar compared to the NVIDIA cluster while improving results

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