

# The key to unlocking generative AI innovation

Whether you're exploring modern applications to deliver faster innovation or looking to improve business outcomes, the right foundation is critical to success.

Organizations are transforming with **generative AI and large language models (LLMs)** to dynamically extract more value from their data. Leaders are tapping into the vast sources of structured and unstructured data to rapidly identify patterns and insights and accelerate product development, generating new efficiencies and transforming the customer experience.



Generative AI could increase global GDP by 7% and **boost productivity growth by 1.5%.**<sup>1</sup>

**40%**

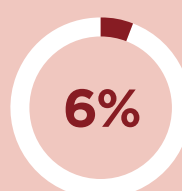
**of all employees' working hours** can be augmented or automated by LLMs.<sup>2</sup>

## Rising above the obstacles for the opportunities

Compared to the kinds of "AI" used in many organizations, generative AI consumes much more data across multiple applications and requires flexible storage, faster computing, streamlined orchestration with tighter security, and operational expertise.

## Delivering the foundation of responsible AI

**Lenovo Reference Design for Generative AI in partnership with VMware** delivers a fully integrated Lenovo ThinkSystem solution featuring NVIDIA-accelerated computing and software that is purpose-built to implement AI — supported by VMware Private AI Foundation with NVIDIA Generative AI solution. The Lenovo Responsible AI Committee ensures our solutions, and those of our 45 AI Innovator partners, meet requirements that protect end users and ensure that AI is used fairly, ethically, and responsibly.

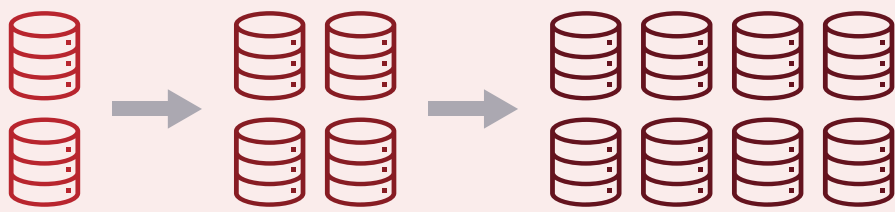


**Only 6% of organizations** feel they have a robust and responsible AI foundation in place.<sup>2</sup>

## Designing for compute power at scale

Lenovo can help accelerate your time to AI delivery, streamline your deployment, and scale using flexible preconfigured technology — purpose-built with AI in mind.

**Discover computing performance with storage flexibility and scalability with VMware vSAN Max to simplify and accelerate data for AI, analytics, and virtualized workloads.**



The amount of compute needed to train the largest AI models is **doubling every 3-10 months.**<sup>3</sup>

## Keeping it all energy- and cost-efficient

AI processing often generates a lot of heat and raises cooling costs and energy usage. Lenovo can even help you manage energy costs with a more sustainably minded data center.



Lenovo Neptune™ direct water cooling delivers **95% heat removal efficiency** (with the ability to reuse the energy from the heat removed) and up to **40% lower power consumption.**

## Employing expertise from trusted partners

**36%**

**say finding and keeping experts is a big obstacle** to implementing AI among financial services professionals.<sup>4</sup>

Ensure deployment success with Lenovo Professional and Managed Services, providing expertise and global coverage to address any resource gaps. Lenovo and VMware can show you the possibilities and significantly shorten your development time with four **Lenovo AI Discover Centers of Excellence** worldwide — created to help you evaluate solutions, execute proofs of concept (POCs), and optimize configurations for AI solutions.

Learn more about AI-ready solutions from Lenovo and VMware.

[www.lenovo.com/VMware-Edge-To-Cloud](http://www.lenovo.com/VMware-Edge-To-Cloud)

Sources  
1 Goldman Sachs, "Generative AI could raise global GDP by 7%," April 2023  
2 Accenture, "A new era of generative AI for everyone," May 2023  
3 Accenture, "Technology Vision 2023," March 2023  
4 NVIDIA, "State of AI in Financial Services," February 2023



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