

Lenovo Hybrid AI Advantage™
with NVIDIA

The smarter, faster path to achieving AI value



Smarter
technology
for all

Lenovo



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The AI ROI race is on

Across every industry at nearly every level, organizations are embracing the power of AI to transform productivity and efficiency. From retail and hospitality to manufacturing, healthcare, marketing, financial services, and logistics, AI holds tremendous potential to transform the way business operates with streamlined processes, faster insights, and improved outcomes.



60% of organizations believe GenAI will enable employees to refocus on high-value tasks.¹

#1

Employee productivity was cited as the #1 business objective driving AI investments.¹



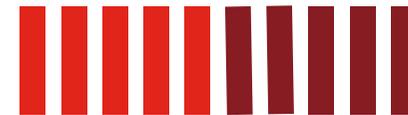
79% of IT leaders say AI will enable employees to focus on more impactful and important work.²

Scaling AI across the enterprise — enabling AI factories to quickly launch agentic solutions — is a transformative opportunity that, while complex, is well within reach with the right approach. With the rapid evolution of AI tools and technology, it can be difficult to know where to start, and organizations need to demonstrate value quickly.



59% of organizations worry about quantifying AI's impact on productivity.³

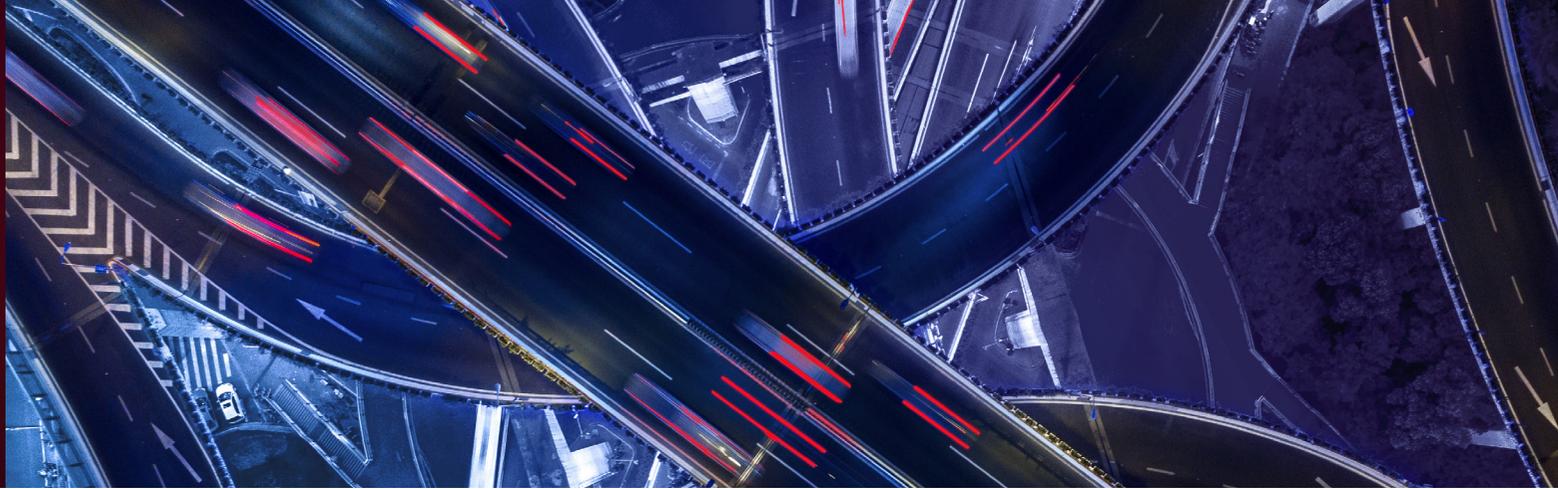
As AI moves out of the experimental phase and becomes a business imperative, there's no room for trial-and-error approaches. Without a strategic roadmap and the right resources in place, organizations run the risk of budget overruns, project delays, lost productivity, and the potential for reduced or negative ROI.



50% of organizations have adopted AI but are struggling with unclear ROI, insufficient data, and limited expertise.⁴

Navigating the road ahead

To effectively deploy AI at scale, organizations need the right AI factory infrastructure to handle the workloads, the right expertise to implement and manage the applications, and the right data preparation.



The right AI factory infrastructure

Enterprise AI implementations need an integrated platform where AI models can be trained, tested, and deployed quickly and efficiently. Hybrid cloud AI solutions optimize performance, enhance data security, reduce latency, and ensure cost-effectiveness, making a strategic foundation for scalable, secure, and efficient AI deployment.

63%

63% of organizations say their AI workloads will be primarily on-prem or hybrid cloud.⁴

But a hybrid cloud platform is just the beginning. Modern AI workloads require specific, optimized configurations of CPUs, and GPUs along with powerful networking and storage to achieve the best performance. And many organizations are finding out that their infrastructures may not meet the demands of today's AI workloads.

60%

60% of organizations said that their businesses' IT or digital infrastructure required modernization.⁵

The right expertise

Designing, deploying, and maintaining AI applications effectively takes a unique and diverse set of skills, including facilitating integration of complex AI technologies with business objectives to align AI initiatives with organizational goals.

98%

98% of IT decision-makers report challenges with implementing new AI initiatives, including a lack of in-house expertise for deployment.¹

As AI advances and becomes embedded across industries, the demand for IT talent proficient in AI will only increase, making it even more challenging to find and retain top talent.

79%

79% of organizations are planning or actively using AI professional services for their deployments.⁴

The right data preparation

AI applications must handle vast amounts of data — ranging from video and audio to text and images — requiring efficient ingestion, pre-processing, and storage. Without an optimized data orchestration layer, businesses face inefficiencies and delays in producing AI-driven insights.

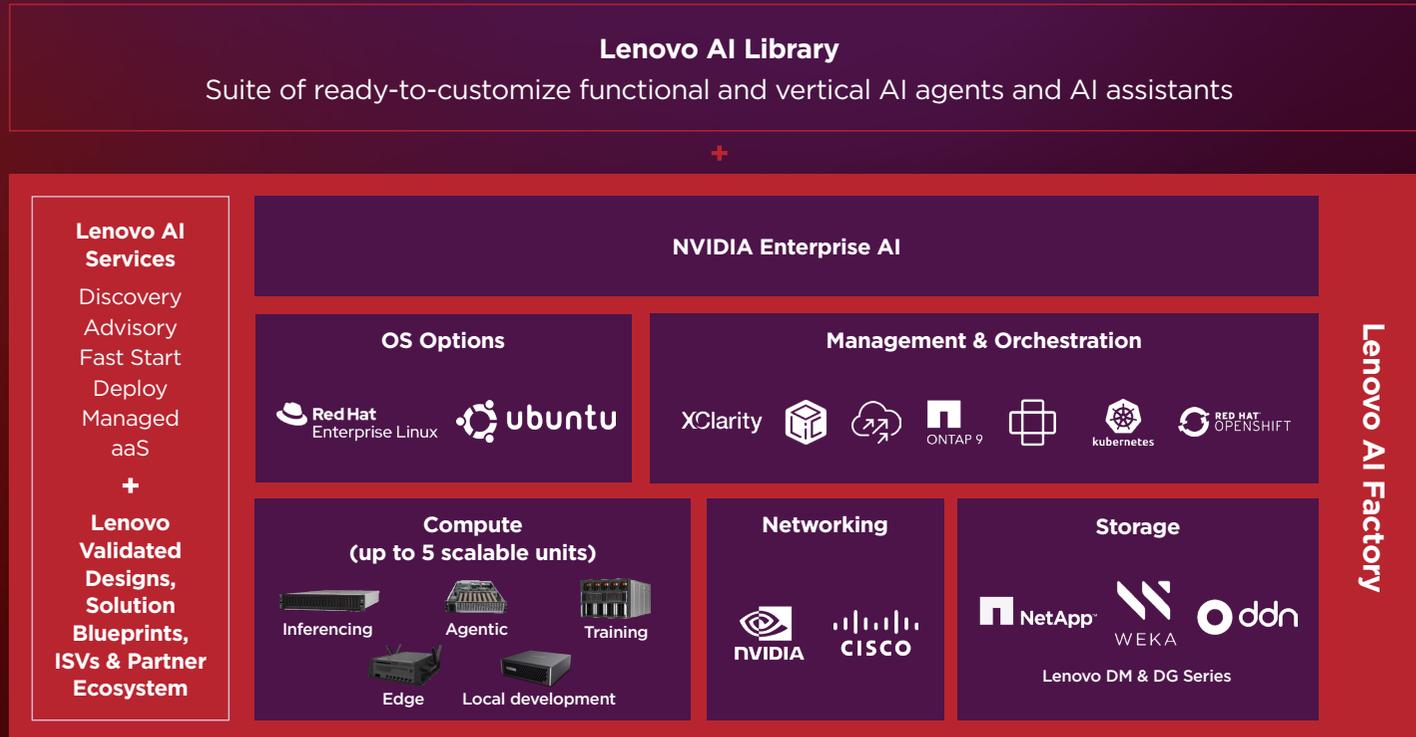
In addition, AI applications in security, retail, and media demand real-time analytics, such as surveillance monitoring, digital asset tagging, and multilingual speech recognition.

46%

Only 46% think their organization currently has the right data and tech in place to enable effective AI.¹

Breaking down the barriers to ROI

Lenovo Hybrid AI Advantage™ with NVIDIA enables companies to quickly deploy powerful AI solutions at scale with great efficiency and unlock benefits throughout the organization.



NVIDIA AI Enterprise software and NVIDIA NIM™ AI models have been integrated along with Lenovo's award-winning infrastructure technology and expert **Lenovo AI Services** into modular Lenovo Hybrid AI Advantage™ solutions to enable enterprises to scale AI implementation efficiently and reliably while preparing for a new era of agentic AI with minimal complexity.

Lenovo and NVIDIA bring years of partnership, collaboration, and engineering to meet customers where they are on their AI journey with speed, ease, and expertise.



Increase productivity

Enable teams to achieve more quickly with functional and vertical AI agents, solutions, and personalized experiences, delivering value across locations and hybrid workplaces.



Optimize agility

Build and validate workloads locally with workstations, before scaling AI operations to reduce tech debt and drive operational efficiencies with modern AI infrastructure, devices, models, and services.



Innovate with trust

Achieve trusted, compliant, and responsible AI by managing and protecting data with Lenovo expertise and integrated, validated solutions across the enterprise and ecosystem.

Lenovo's agentic AI platform supports the rapid customization of **Lenovo AI Library** use cases and development of new AI agents and assistants, while our full-stack Lenovo Hybrid AI Advantage™ with NVIDIA factory solutions unlock relevant intelligence from your data and AI models securely, efficiently, and responsibly.



Optimize agility with pre-validated technology

Building the right hybrid infrastructure for AI workloads takes a strategic approach to hardware, software, and ongoing support for optimal operation.

Lenovo's complete portfolio of hybrid AI devices, infrastructure solutions, and services is optimized with NVIDIA for industrialization and reliability across personal, enterprise, and public AI platforms — helping organizations accelerate agility and maximize efficiencies with ease while reducing technical debt.

Industry-leading technology pre-configured for agentic AI

Lenovo Hybrid AI Advantage™ with NVIDIA solutions tap into **Lenovo Validated Designs (LVDs)** and **Lenovo AI Developer solution blueprints**, which provide comprehensive reference architectures that streamline AI development and the implementation of hybrid AI infrastructures.

LVDs combine market-leading **Lenovo ThinkSystem GPU-rich servers with NVIDIA Hopper™ architecture and Blackwell PRO™ GPUs**. This platform provides a robust, scalable, and pre-validated foundation to run the **NVIDIA Enterprise AI** software stack.

These pre-tested, turnkey solutions include the configuration of compute and storage servers organized as scale-out structures for specific AI workloads.

Lenovo designs and implements data repositories for training various models from within deep learning domains and deployment of trained models in application environments.

Custom AI agents are available for a wide range of AI workloads, including:

- ✓ **AI Data Processing and Transformation**
- ✓ **AI-Powered Quality Inspection**
- ✓ **Workplace Safety Intelligence**
- ✓ **AI-Based Crowd Management**
- ✓ **Intelligent Manufacturing Optimization**
- ✓ **Smart City AI Applications**
- ✓ **Multimodal Agentic AI Solutions**
- ✓ **AI Workload Acceleration on Networking Infrastructure**

For local AI development and testing, Lenovo ThinkStation workstations extend these capabilities to creators and data teams, enabling on-device AI workflows and faster iteration connected to hybrid environments. Built on the NVIDIA GB10 Grace Blackwell Superchip, the Lenovo ThinkStation PGX provides a safe on-ramp for AI exploration and prototyping.

Increased agility on demand

Lenovo and NVIDIA solutions are also available through Lenovo TruScale, maximizing agility with scalable services and a choice of flexible financing and pay-as-you-go pricing models.

Smart devices are your on-ramp to AI

AI-optimized workstations provide organizations a way to develop, test, and fine-tune AI workloads locally before deploying them to edge or data center environments.

Engineered as the on-ramp to AI, **Lenovo ThinkStation** and **ThinkPad® P-Series** workstations deliver a secure, sandboxed environment with exceptional performance and agility for AI workflows, enabling users to tackle the most demanding workloads with confidence.

Designed to not just meet, but exceed the rigorous performance requirements of today's most advanced AI workloads, these systems empower professionals to transform data into actionable insights and accelerate AI initiatives from concept to PoC and into production with remarkable speed and efficiency.

The **Lenovo ThinkStation PGX** provides you and your developers with a secure and powerful environment for prototyping, fine-tuning, and inferencing — all accelerated by the NVIDIA GB10 Grace Blackwell Superchip. When paired with a Lenovo Workstation, the PGX unlocks additional compute capacity for more demanding AI development workloads, delivering flexibility and streamlining workflows before scaling to the enterprise.

Scaling up the Lenovo ecosystem

- 1 Start with a ThinkStation PGX for on-desk AI development and local inference.
- 2 Expand to the ThinkStation P-Series, with the ThinkStation P3 Ultra or P3 Tower utilizing 1x GPU, for more headroom.
- 3 Scale further to the ThinkStation P5, P7, P8, or PX with support for up to 4x GPUs for increased performance with larger models.
- 4 Deliver performance to the data center or cloud on Lenovo ThinkSystem servers supporting up to 8x GPUs per server, using the same Lenovo and NVIDIA AI software stack.
- 5 Lean on Lenovo AI Services for support throughout the lifecycle - Advise, Plan and Design, Implement, Manage

Lenovo AI Developer

Lenovo AI Developer is a suite of full-stack blueprints that simplifies the development journey by integrating best-in-class open-source tools, AI libraries, and frameworks with Lenovo's industry-leading workstation hardware.

- Find solutions for every stage of the AI lifecycle — from data prep, machine learning, and training to deep learning, fine-tuning, and inference.
- Deliver better performance, lower total cost of ownership, and achieve faster time to market with right-sized solutions for each stage of your workflow.
- Keep intellectual property protected with on-premises, sandboxed environments.

Increase productivity with the Lenovo AI Library

The Lenovo AI Library provides a suite of ready-to-deploy vertical and horizontal use cases organizations can leverage to deploy agentic AI quickly and easily. These validated and tested solutions help reduce risk and break down the barriers to ROI.

Some of the use cases available include:

Customer service agents:

Manage high inquiry volumes, ensure consistency across service channels, and scale operations without straining budgets.

- ✓ **AI chatbots powered by intelligent automation deliver instant responses to complex queries.**
- ✓ **Smart routing ensures more in-depth issues reach the right experts for increased accuracy and more engaged conversations.**
- ✓ **Dynamic knowledge base generation and automated translation eliminate communication barriers, empowering both agents and customers.**

Content generation:

AI-powered content agents offer organizations an effective way to establish themselves as leaders in content creation by keeping pace with production demands and aligning closely with market needs.

- ✓ **Tuned language models ingest briefs and generate draft content in real time — freeing employees to focus on higher-value tasks.**
- ✓ **Automated multimodal content generation accelerates production, reducing time to value.**
- ✓ **AI-enabled content analytics support improved quality and enhanced relevance and engagement through personalization.**

Knowledge assistants:

By leveraging AI knowledge assistants, organizations can synthesize and drive value from vast amounts of complex information in domains such as legal, finance, and human resources (HR).

- ✓ **Accelerated information retrieval and synthesis provide context-aware insights for informed decision-making and action.**
- ✓ **AI-driven compliance checks and personalized query handling optimize accuracy, mitigate risks, and reduce time spent processing contracts, policies, and reports.**
- ✓ **Teams have access to real-time information thanks to dynamic updates and structured knowledge repositories handled by AI.**

These pre-tested and pre-validated use cases provide flexibility for customers to choose from a range of sizes, locations, deployment methods, and managed services options aligned to the specific needs of their business. For example, with Lenovo AI Fast Start service, you can prove business value in under 90 days using your own data, with use cases tailored to your industry and workflow needs.

Innovate for growth with AI expertise

To compete in the market today, organizations must keep their data and AI platforms secure and compliant across locations and ecosystems while also ensuring workloads and resources can adapt to meet changing business needs and maintain sustainable innovation for continued growth.

Flexible access to Lenovo's AI expertise and proven tools helps organizations make faster, more informed decisions so they can find innovative ways to improve operations.

Getting started safely and responsibly

Lenovo AI Services include assessments to help evaluate your organization's AI readiness from both a security and a responsibility perspective.

Our experts rapidly assess your organization's maturity across security, people, processes, and technology. We identify gaps that could slow your progress and provide clear recommendations to address them.

We also build a roadmap with defined next steps tailored to your unique needs and desired pace. You get a concrete action plan to start adopting AI in a way that delivers results quickly while proactively mitigating risks.

And we don't stop there. Lenovo AI Services can help with implementation and ongoing management to support your internal teams and ensure optimal productivity down the road.

Lenovo AI Service portfolio

AI Readiness Methodology
Security | People | Technology | Processes

Proven Responsible AI Framework



Identify the ways AI creates



Define outcomes, plan and roadmap, business case



Design and build critical AI elements to showcase outcomes



Implement a secure and tailored hybrid AI solution



Continue to manage and optimize the AI environment

Outcomes Definition & Rapid Innovation

Production

Optimization

A powerful ecosystem of ISV partners

Lenovo and NVIDIA collaborate deeply with leading independent software vendors (ISVs) to unlock the power of AI across a wide range of modern business challenges many of these solutions begin development, or local model refinement, on Lenovo workstations before scaling. Built with Lenovo Validated Design, these solutions fuse Lenovo and NVIDIA accelerated computing technology and software to solve operational challenges and deliver measurable value.

Hospitality with Centific AI Data Foundry and NVIDIA:

Enables hotels and resorts with real-time personalization, streamlined operations, and data-driven insights.

Workplace Safety and PPE Compliance with Avathon Visual AI and NVIDIA:

Powers real-time hazard and PPE compliance monitoring to instantly detect safety risks, violations, and hazardous behaviors.

Quality Inspection with Trifork and NVIDIA:

Delivers automated defect detection, on-device model retraining, and transforms real-time sensor data into actionable insights on the factory floor.



**Lenovo Hybrid AI Advantage™
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Take the smarter, faster path to achieving AI value

Industrialized for performance, the **Lenovo Hybrid AI Advantage™ with NVIDIA** solutions brings AI to where it makes the most impact — empowering teams to be more productive. Lenovo's agentic AI platform supports the rapid customization of **Lenovo AI Library** use cases and development of new AI agents and assistants, while our full-stack Lenovo hybrid AI factory optimized with NVIDIA unlocks relevant intelligence from your data and AI models securely, efficiently, and responsibly.

**Discover what your organization can accomplish with
Lenovo Hybrid AI Advantage™ with NVIDIA solutions today.**

Visit lenovo.com/hybridai to learn more.

Sources

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