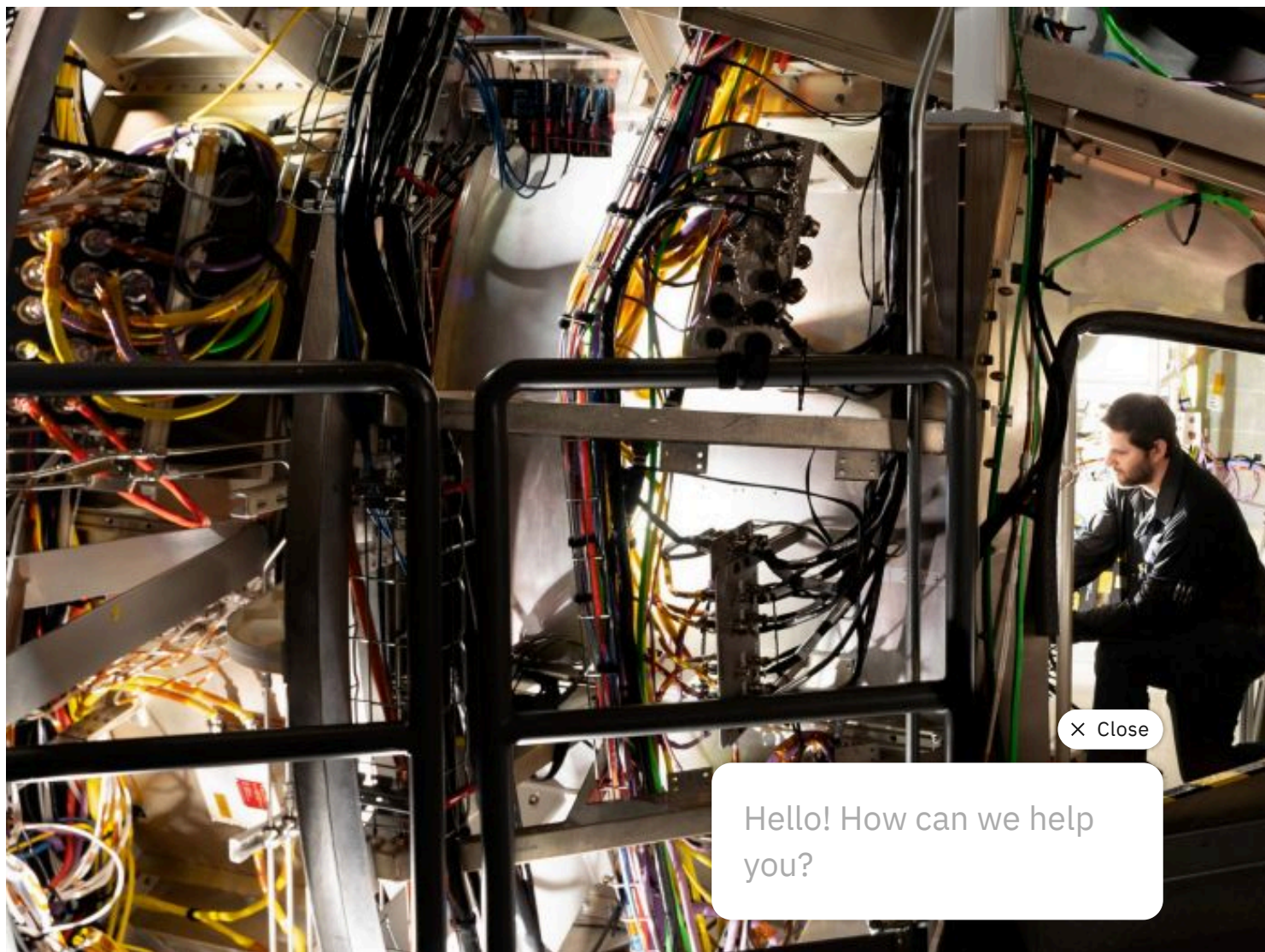


A new era of AI takes

To meet new partner demands, a leading aerospace and defense company comes to AI



X Close

Hello! How can we help you?

Defeating data silos

Lockheed Martin, a global leader in aerospace and defense technology, designs and delivers innovative, next-generation security solutions that help keep people and nations safe.

To ensure its customers remain a step ahead of their toughest challenges, Lockheed Martin embarked on a bold, AI-powered transformation to modernize and restructure its operations from the ground up.

The company teamed up with IBM to streamline its data landscape and overcome the complexities of data integration, which led to an AI-driven overhaul across the business, from daily tasks to strategic execution.

This paved the way for responsible, seamless, and secure integration of advanced AI technology, such as generative AI (gen AI) and agentic AI, into Lockheed Martin's internal processes.

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Using IBM Cloud Pak for Data, Lockheed Martin cut its data and AI tools in half

20%

boost in AI response accuracy through query optimization using watsonx

11%

increase in accuracy of responses with prompt engineering

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“AI is transforming our customer’s mission and our own business. Our customers have a need for AI-driven tools that increase decision speed & improve decision quality. AI isn’t magic, but when problems are beyond human scale to comprehend based on the volume of data, complexity, or urgency, AI can help illuminate solutions and opportunities.”

Stephan Gerali

Chief Architect and Senior Fellow
Lockheed Martin

An atmosphere to build

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Lockheed Martin decided to implement [IBM Cloud Pak® for Data](#) as its centralized data platform. The solution’s built-in data fabric architecture allowed the company to

connect a complex data landscape encompassing databases, data lakes, data lakehouses, and data reporting tools. Using IBM Cloud Pak for Data, Lockheed Martin reduced the number of its data and AI tools by half.

With a unified and scalable data foundation now in place, the company can reliably access its highest-quality data, enabling the rapid deployment of AI-based solutions across the enterprise through its AI Factory ecosystem.

The Lockheed Martin AI Factory is a secure AI ecosystem where engineers can build, iterate on, and deploy AI solutions, at scale. The [IBM® Granite®](#) family of open-source large language models (LLMs), complemented by other best-in-class models, is hosted within Lockheed Martin's AI Factory, empowering its workforce of 10,000 engineers to drive innovation and accelerate business transformation, while enhancing the success of national security missions through the creation of advanced assistants and agents.

Data management, governance, and orchestration products from the [IBM watsonx®](#) portfolio radically improve internal operations. GenAI models have eliminated the need for specialized coding by letting employees inquire about source data in their natural language.

Agentic frameworks and virtual assistants built within the AI Factory have enabled the company to better manage complex workflows, simplify interactions between people and technology, and enhance efficiency through process automation and optimization.

Finally, as part of an initiative to establish trusted and secure guardrails for scaling AI, the company has adopted the watsonx® end-to-end AI governance toolkit to ensure responsible, transparent, and explainable AI. This initiative is crucial for maintaining ethical standards and compliance with industry best practices and data privacy regulations.

Internal AI drives external success

Lockheed Martin's data and AI transformation has already

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The solutions provided by IBM have helped Lockheed Martin consolidate 46 disparate data systems and tools onto a single integrated platform. The company's internal

operations and data management processes are now streamlined to enable rapid, cost-effective innovation.

Lockheed Martin has also been able to better manage employee inquiries and HR-related tasks using watsonx conversational AI chatbots. These AI assistants have helped to simplify the company’s rapid response to employee questions and improve HR processes.

Early results for a gen AI question answering pilot program showed a substantial increase in the accuracy of responses to sample questions—rising from 45.45% to 56.8% with prompt engineering and 66.0% with query optimization.

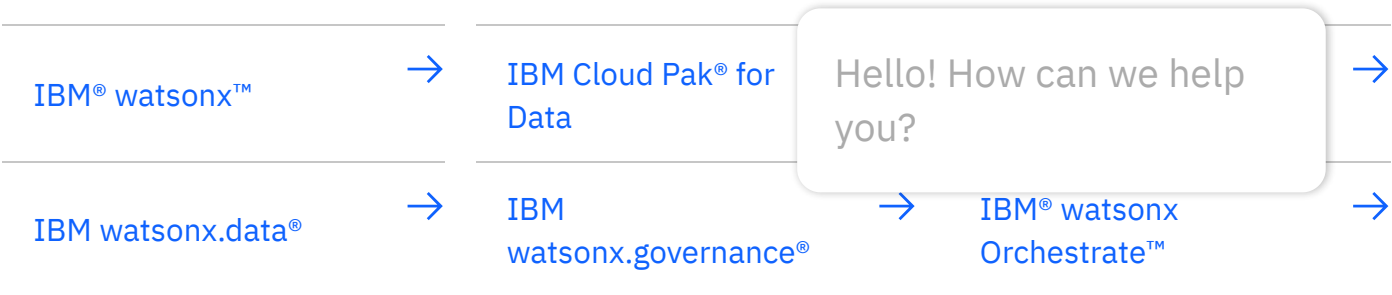
Lockheed Martin’s forward-thinking approach to AI technology, and its strategic partnership with IBM, have positioned the company to exceed customer demands and to build a strong foundation for future growth and competitiveness in an ever-evolving technology landscape.



About Lockheed Martin

[Lockheed Martin](#) (link resides outside of ibm.com) is a global defense technology company driving rapid innovation and advancing scientific discovery. The company’s all-domain mission solutions and 21st Century Security® vision accelerate the delivery of transformative technologies to ensure those we serve always stay ahead of ready.

Solution components



Good data is good business

Use all your data, everywhere. With the speed of a data warehouse, the flexibility of a data lake and special features to support AI, IBM watsonx.data can help you scale AI and analytics across your business.

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Examples presented as illustrative only. Actual results will vary based on client configurations and conditions and, therefore, generally expected results cannot be provided.

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