

Siemens and NVIDIA Expand Partnership to Build the Industrial AI Operating System

News Summary:

- Through AI, Siemens and NVIDIA are reinventing the entire end-to-end industrial value chain — from design and engineering to manufacturing, production, operations and into supply chains.
- Siemens and NVIDIA to build AI-accelerated portfolio including AI-native electronic design, AI-native simulation as well as AI-driven adaptive manufacturing and supply chain.
- Siemens and NVIDIA to design the next generation of AI factories.
- Siemens and NVIDIA to optimize operations through shared innovation.

CES—Siemens and NVIDIA today announced a significant [expansion of their strategic partnership](#) to bring artificial intelligence into the real world. Together, the companies aim to develop industrial and physical AI solutions that will bring AI-driven innovation to every industry and industrial workflow, as well as accelerate each others' operations.

To support development, NVIDIA will provide AI infrastructure, simulation libraries, models, frameworks and blueprints, while Siemens will commit hundreds of industrial AI experts and leading hardware and software.

“Together, we are building the Industrial AI operating system — redefining how the physical world is designed, built and run — to scale AI and create real-world impact,” said Roland Busch, President and CEO of Siemens AG. “By combining NVIDIA’s leadership in accelerated computing and AI platforms with Siemens’ leading hardware, software, industrial AI and data, we’re empowering customers to develop products faster with the most comprehensive digital twins, adapt production in real time and accelerate technologies from chips to AI factories.”

“Generative AI and accelerated computing have ignited a new industrial revolution, transforming digital twins from passive simulations into the active intelligence of the physical world,” said Jensen Huang, founder and CEO of NVIDIA. “Our partnership with Siemens fuses the world’s leading industrial software with NVIDIA’s full-stack AI platform to close the gap between ideas and reality — empowering industries to simulate complex systems in software, then seamlessly automate and operate them in the physical world.”

Accelerating the Entire Industrial Lifecycle

Siemens and NVIDIA will work together to build AI-accelerated industrial solutions across the full lifecycle of products and production, enabling faster innovation, continuous optimization and more resilient, sustainable manufacturing. The companies aim to build the world’s first fully AI-driven, adaptive manufacturing sites globally, starting in 2026 with the Siemens Electronics Factory in Erlangen, Germany, as the first blueprint.

Using an “AI Brain,” — powered by software-defined automation and industrial operations software, combined with [NVIDIA Omniverse™ libraries](#) and NVIDIA AI infrastructure, factories can continuously analyze their digital twins, test improvements virtually and turn validated insights into operational changes on the shopfloor.

This results in faster, more reliable decision-making from design to deployment — raising productivity while reducing commissioning time and risk. The companies aim to scale these capabilities across key verticals and several customers are already evaluating some of the capabilities including Foxconn, HD Hyundai, KION Group and PepsiCo.

With the [partnership](#) expansion, Siemens will complete GPU acceleration across its entire simulation portfolio and expand support for [NVIDIA CUDA-X™ libraries](#) and AI physics models, enabling customers to run larger, more accurate simulations faster. Building on that foundation, the companies will advance toward generative simulation by using [NVIDIA PhysicsNeMo™](#) and open models to provide autonomous digital twins that deliver real-time engineering design and autonomous optimization.

Advancing Electronic Design Automation for Accelerated Computing

By applying industrial AI operating logic to semiconductors and AI factories, Siemens and NVIDIA will accelerate the engines of the AI revolution. Starting with semiconductor design and building on NVIDIA’s extensive use of Siemens’ tools, Siemens will integrate NVIDIA CUDA-X libraries, PhysicsNeMo and GPU acceleration across its EDA portfolio with a focus on verification, layout and process optimization — to target 2-10x speedups in key workflows.

The partnership will also add AI-assisted capabilities such as layout guidance, debug support and circuit optimization to boost engineering productivity while meeting strict manufacturability requirements. Together, these capabilities will advance AI-native engines for design, verification, manufacturability and digital-twin approaches to shorten design cycles, improve yield and deliver more reliable outcomes.

Designing the Next Generation of AI Factories

Siemens and NVIDIA will also jointly develop a repeatable [blueprint for next-generation AI factories](#) — accelerating the industrial AI revolution and providing the high-performance foundation for their AI-accelerated industrial portfolios.

This blueprint will balance the next-generation high-density computing demands for power, cooling and automation while ensuring technologies are well positioned for both speed and efficiency — optimizing the full lifecycle, from planning and design to deployment and operations.

The combined effort bridges NVIDIA's AI platform roadmap, AI infrastructure expertise, partner ecosystem and the accelerated power of NVIDIA Omniverse library-based simulation with Siemens' strengths in power infrastructure, electrification, grid integration, automation and digital twins. Together, the companies aim to accelerate deployment, increase energy efficiency and improve resilience for industrial-scale AI infrastructure worldwide.

Optimizing Operations Through Shared Innovation

Siemens and NVIDIA aim to accelerate each others' operations and portfolio by implementing technologies on their own systems before scaling them across industries. NVIDIA will assess Siemens offerings to streamline and optimize its own operations and offerings, and Siemens will assess its own workloads and collaborate with NVIDIA to accelerate them and integrate AI into Siemens' customer portfolio. By accelerating one another and improving their own systems, Siemens and NVIDIA are creating concrete proof points of value and scalability for customers.

Featured image courtesy of Siemens and PepsiCo.

About NVIDIA

[NVIDIA](#) (NASDAQ: NVDA) is the world leader in AI and accelerated computing.

About Siemens AG

Siemens AG (Berlin and Munich) is a leading technology company focused on industry, infrastructure, mobility, and healthcare. The company's purpose is to create technology to transform the everyday, for everyone. By combining the real and the digital worlds, Siemens empowers customers to accelerate their digital and sustainability transformations, making factories more efficient, cities more livable, and transportation more sustainable. A leader in industrial AI, Siemens leverages its deep domain know-how to apply AI – including generative AI – to real-world applications, making AI accessible and impactful for customers across diverse industries. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a leading global medical technology provider pioneering breakthroughs in healthcare. For everyone. Everywhere. Sustainably.

In fiscal 2025, which ended on September 30, 2025, the Siemens Group generated revenue of €78.9 billion and net income of €10.4 billion. As of September 30, 2025, the company employed around 318,000 people worldwide on the basis of continuing operations. Further information is available on the Internet at <https://www.siemens.com/>.

NVIDIA Forward-Looking Statement

Certain statements in this press release including, but not limited to, statements as to: generative AI and accelerated computing transforming digital twins from passive simulations into the active intelligence of the physical world; NVIDIA's partnership with Siemens fusing the world's leading industrial software with NVIDIA's full-stack AI platform to close the gap between ideas and reality — empowering industries to simulate complex systems in software, then seamlessly automate and operate them in the physical world; the benefits, impact, performance, and availability of NVIDIA's products, services, and technologies; expectations with respect to NVIDIA's third party arrangements, including with its collaborators and partners; benefits and impact of NVIDIA's partnership with Siemens; expectations with respect to technology developments; and other statements that are not historical facts are forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, which are subject to the "safe harbor" created by those sections based on management's beliefs and assumptions and on information currently available to management and are subject to risks and uncertainties that could cause results to be materially different than expectations. Important factors that could cause actual results to differ materially include: global economic and political conditions; NVIDIA's reliance on third parties to manufacture, assemble, package and test NVIDIA's products; the impact of technological development and competition; development of new products and technologies or enhancements to NVIDIA's existing product and technologies; market acceptance of NVIDIA's products or NVIDIA's partners' products; design, manufacturing or software defects; changes in consumer preferences or demands; changes in industry standards and interfaces; unexpected loss of performance of NVIDIA's products or technologies when integrated into systems; and changes in applicable laws and regulations, as well as other factors detailed from time to time in the most recent reports NVIDIA files with the Securities and Exchange Commission, or SEC, including, but not limited to, its annual report on Form 10-K and quarterly reports on Form 10-Q. Copies of reports filed with the SEC are posted on the company's website and are available from NVIDIA without charge. These forward-looking statements are not guarantees of future performance and speak only as of the date hereof, and, except as required by law, NVIDIA disclaims any obligation to update these forward-looking statements to reflect future events or circumstances.

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Siemens Forward-Looking Statement

This document contains statements related to our future business and financial performance and future events or developments involving Siemens that may constitute forward-looking statements. These statements may be identified by words such as “expect,” “look forward to,” “anticipate,” “intend,” “plan,” “believe,” “seek,” “estimate,” “will,” “project” or words of similar meaning. We may also make forward-looking statements in other reports, in prospectuses, in presentations, in material delivered to shareholders and in press releases. In addition, our representatives may from time to time make oral forward-looking statements. Such statements are based on the current expectations and certain assumptions of Siemens’ management, of which many are beyond Siemens’ control. These are subject to a number of risks, uncertainties and factors, including, but not limited to those described in disclosures, in particular in the chapter Report on expected developments and associated material opportunities and risks in the Combined Management Report of the Siemens Report (www.siemens.com/siemensreport), and in the Interim Group Management Report of the Half-year Financial Report (provided that it is already available for the current reporting year), which should be read in conjunction with the Combined Management Report. Should one or more of these risks or uncertainties materialize, should decrees, decisions, assessments or requirements of regulatory or governmental authorities deviate from our expectations, should events of force majeure, such as pandemics, unrest or acts of war, occur or should underlying expectations including future events occur at a later date or not at all or assumptions prove incorrect, actual results, performance or achievements of Siemens may (negatively or positively) vary materially from those described explicitly or implicitly in the relevant forward-looking statement. Siemens neither intends, nor assumes any obligation, to update or revise these forward-looking statements in light of developments which differ from those anticipated.

This document includes – in the applicable financial reporting framework not clearly defined – supplemental financial measures that are or may be alternative performance measures (non-GAAP-measures). These supplemental financial measures should not be viewed in isolation or as alternatives to measures of Siemens’ net assets and financial positions or results of operations as presented in accordance with the applicable financial reporting framework in its Consolidated Financial Statements. Other companies that report or describe similarly titled alternative performance measures may calculate them differently.

Due to rounding, numbers presented throughout this and other documents may not add up precisely to the totals provided and percentages may not precisely reflect the absolute figures.

All information is preliminary.

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