Siemens and NVIDIA to Enable Industrial Metaverse

- Partnership to transform the manufacturing industry with immersive experiences across the lifecycle from design through operation
- Companies will connect NVIDIA Omniverse and Siemens Xcelerator platforms to enable full-fidelity digital twins and connect software-defined AI systems from edge to cloud

Siemens, a leader in industrial automation and software, infrastructure, building technology and transportation, and NVIDIA, a pioneer in accelerated graphics and artificial intelligence (AI), today announced an expansion of their partnership to enable the industrial metaverse and increase use of AI-driven digital twin technology that will help bring industrial automation to a new level. As a first step in this collaboration, the companies plan to connect Siemens Xcelerator, the open digital business platform, and NVIDIA Omniverse™, a platform for 3D design and collaboration. This will enable an industrial metaverse with physics-based digital models from Siemens and real-time AI from NVIDIA in which companies make decisions faster and with increased confidence.

The addition of Omniverse to the open Siemens Xcelerator partner ecosystem will accelerate the use of digital twins that can deliver productivity and process improvements across the production and product lifecycles. Companies of all sizes will be able to employ digital twins with real-time performance data; create innovative industrial IoT solutions; leverage actionable insights from analytics at the edge or in the cloud; and tackle the engineering challenges of tomorrow by making visually rich, immersive simulations more accessible.

“Photorealistic, physics-based digital twins embedded in the industrial metaverse offer enormous potential to transform our economies and industries by providing a virtual world where people can interact and collaborate to solve real-world problems. Through this partnership, we will make the industrial metaverse a reality for companies of all sizes,” said Roland Busch, President and Chief Executive Officer, Siemens AG. “For over a decade, our digital twin technology has been helping customers across all industries to boost their productivity and today offer the industry’s most comprehensive digital twin. When Siemens Xcelerator is connected to Omniverse, we will enable a real-time, immersive metaverse that connects hardware and software, from the edge to the cloud with rich data from Siemens’ software and solutions.”

“Siemens and NVIDIA share a common vision that the industrial metaverse will drive digital transformation. This is just the first step in our joint effort to make this vision real for our customers and all parts of the global manufacturing industry,” said Jensen Huang, founder and CEO, NVIDIA. “The connection to Siemens Xcelerator will open NVIDIA’s Omniverse and AI ecosystem to a whole new world of industrial automation that is built using Siemens’ mechanical, electrical, software, IoT and edge solutions.”

This partnership brings together complementary technologies and ecosystems to realize the industrial metaverse. Siemens is uniquely positioned at the intersections of the real and digital world, information technology and operational technology. The Siemens Xcelerator platform connects mechanical, electrical and software domains across the product and production processes and enables the convergence of IT and OT.

NVIDIA Omniverse is an AI-enabled, physically simulated and industrial-scale virtual-world engine that enables for the first time full-fidelity live digital twins. NVIDIA AI, used by more than 25,000 companies worldwide, is the world’s most popular AI platform and the intelligence engine of Omniverse in the cloud and autonomous systems at the edge. NVIDIA Omniverse and AI are ideal computation engines to represent the comprehensive digital twin from Siemens Xcelerator.

About NVIDIA
Since its founding in 1993, NVIDIA (NASDAQ: NVDA) has been a pioneer in accelerated computing. The company’s invention of the GPU in 1999 sparked the growth of the PC gaming market, redefined computer graphics and ignited the era of modern AI. NVIDIA is now a full-stack computing company with data-center-scale offerings that are reshaping industry. More information at https://nvidianews.nvidia.com/.

Siemens AG (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power.

In fiscal 2021, which ended on September 30, 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30, 2021, the company had around 303,000 employees worldwide. Further information is available on the Internet at www.siemens.com.

Certain statements in this press release including, but not limited to, statements as to: the benefits, performance, impact, and abilities of NVIDIA's products and technologies, including NVIDIA Omniverse and NVIDIA AI; the benefits and impact of the partnership between Siemens and NVIDIA; and the industrial metaverse driving digital transformation are forward-looking statements that 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 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 products 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; 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 NVIDIA'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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