

NVIDIA and Global Industrial Software Leaders Partner With India's Largest Manufacturers to Drive AI Boom

India's largest manufacturers are teaming with global industrial software leaders Cadence, Siemens and Synopsys to build AI factories for design and manufacturing accelerated by NVIDIA AI infrastructure, CUDA-X and Omniverse libraries.

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India is entering a new age of industrialization, as AI transforms how the world designs, builds and runs physical products and systems. The country is investing \$134 billion dollars in new manufacturing capacity across construction, automotive, renewable energy and robotics, creating both a massive challenge and opportunity to build software-defined factories from day one.

At the center of this transformation are applications accelerated by [NVIDIA CUDA-X](#) and [NVIDIA Omniverse](#) libraries, which connect data from design to operations and bring physical AI into factories, warehouses and infrastructure.

India's largest manufacturers are teaming with global industrial software leaders Cadence, Siemens and Synopsys to advance the nation's AI boom using applications accelerated by CUDA-X and Omniverse libraries.

India's Manufacturing Leaders Modernize Factories With Siemens and NVIDIA

To scale India's growth, manufacturers are using [Siemens](#) industrial software integrated with NVIDIA CUDA-X and Omniverse libraries to design, build and operate next-generation, software-defined factories.

Reliance New Energy, the clean energy arm of Reliance industries, is expanding its collaboration with NVIDIA and Siemens by combining Siemens' digital twin technology with NVIDIA Omniverse libraries for faster, more precise simulation and plant design for its next-generation gigafactories.

Addverb Technologies, a leading Indian company providing robots and innovative warehouse automation solutions, is using Siemens' Technomatix portfolio, NVIDIA Omniverse libraries and [NVIDIA Cosmos](#) world foundation models to create digital twins of its factories and train its quadruped and wheeled humanoid robots in simulation.

Hero MotoCorp is utilizing Siemens Xcelerator and NVIDIA infrastructure to accelerate the product development lifecycle by enhancing its capabilities in computer-aided engineering, numerical virtual verification and validation.

Partners Advance Design and Engineering With NVIDIA-Accelerated Software From Synopsys and Cadence

Leading enterprises are integrating [Synopsys](#) and Cadence's electronic design automation tools, powered by NVIDIA AI infrastructure and libraries, to enable rapid design iteration and operational intelligence across the energy, automotive and electronics sectors.

Electrical equipment and home appliances leader Havells India Limited is using Synopsys' Ansys Fluent to accelerate simulation powered by NVIDIA CUDA-X. Havells has obtained 6x faster fluid dynamic simulations, enabling exploration of more design options to optimize airflow and energy efficiencies, and achieve faster time to market.

Larsen & Toubro Semiconductor's application of Cadence Spectre X, accelerated by CUDA-X libraries, on NVIDIA GPUs shortens design iterations of next-generation AI chips.

India's Technology Leaders Advance Industrial Automation With Physical AI

India's IT and business consulting sector has grown into a global powerhouse, [projected to reach over \\$350 billion this year](#), serving as a primary engine for transforming the world's largest industries.

Tata Consultancy Services (TCS), a global leader in IT services, is investing in large-scale AI infrastructure to deliver enterprise solutions at scale. By harnessing the NVIDIA Metropolis platform, the [NVIDIA Blueprint for video search and summarization](#) and digital twins built on Omniverse libraries, TCS is setting safety and precision benchmarks at Tata Motors, converting standard camera feeds into intelligent sensors for automated quality checks and real-time safety compliance.

TCS is also deploying physical AI applications, including autonomous safety and quality inspections via quadruped robots, to minimize risk across complex manufacturing environments.

Wipro PARI, a leader in industrial automation, is integrating NVIDIA AI infrastructure, Omniverse libraries and the [NVIDIA Isaac](#) robotics development platform to deliver solutions for its consumer and automotive customers. This includes real-time simulation and validation of robotic workflows, as well as virtual stress-testing of operations before physical deployment.

Tata Consulting Engineers is launching its Cognitive Twin platform, built on NVIDIA Omniverse, to create real-time industrial simulations that link physical assets with digital intelligence across manufacturing, energy and infrastructure. The platform supports both capital project planning and operational optimization through early-stage simulation and AI-enabled decision-making. Pilot projects are underway with National High Speed Rail Corporation Limited, Torrent Power and Power Grid Corporation of India Limited.