PLM Industry Summary

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CIMdata News

Beyond MES - a CIMdata Commentary

18 March 2025

Optimizing Manufacturing with Industrial IoT

Key Takeaways

- Modern manufacturing solutions must evolve beyond traditional MES capabilities, integrating systems like PLM, ERP, and EAM to improve operational efficiency across the entire manufacturing asset lifecycle.
- CONTACT's MES solution is based on CONTACT Elements for IoT—a framework constructed on a composable architecture that is extendable to other process areas related to the Smart Factory, including Manufacturing Operations Management.
- CONTACT Elements for IoT enables an incremental approach to implementing Smart Factory capabilities, allowing companies to balance risk and achieve quick wins by improving automation, connectivity, and process optimization.
- CONTACT for IoT provides data-driven automation of business processes and monitoring of the lifecycle of manufacturing assets that streamline production processes, optimize resource allocation, and drive operational efficiency.

Introduction

As companies strive to enable smart manufacturing, they seek solutions that extend beyond traditional Manufacturing Execution Systems (MES) by leveraging real-time data, advanced analytics, and integrated systems to drive agility, efficiency, and innovation throughout their manufacturing operations. MES has long been central to improving manufacturing operations by connecting, monitoring, and controlling shopfloor processes. Acting as the crucial link between enterprise resource planning (ERP) systems and factory equipment, MES facilitates production execution through functionalities such as scheduling, resource allocation, and work-in-progress (WIP) tracking. However, MES is only a part of the broader Manufacturing Operations Management (MOM) framework, which seeks to optimize all aspects of manufacturing.[1]

Despite their potential, MES solutions have faced persistent challenges that limit their effectiveness. MES solutions often lack visibility to real-time data, which hampers production tracking, equipment monitoring, and inventory management. Furthermore, siloed legacy systems obstruct a holistic operational view. Different factories will often acquire different equipment and/or processes to perform the same production tasks resulting in an overall inefficiency of a company's operations. This leads to poor process control, resulting in high defect rates and inconsistent product quality. They also create production bottlenecks, increase machine downtime, and hinder process efficiency, ultimately reducing overall productivity. Attempting to run MES solutions with limited connectivity adds to the burden of maintaining up-to-date documentation, which is resource-intensive. These disconnects result in a lack of

traceability of materials, parts, and processes, which is time-consuming, costly, and error prone.

These standalone manufacturing solutions often require extensive customization, making deployments resource-intensive and costly. Additionally, user adoption often suffers due to the lack of organizational change management and adequate training. As manufacturing transitions to smart manufacturing, the limitations of traditional MES highlight the need for a more integrated, flexible, and scalable approach—one that extends beyond MES to address the full spectrum of factory operational challenges.

The Smart Factory: Advancing Beyond Traditional MES

To overcome the persistent challenges in modern manufacturing, smart factory solutions (i.e., factory solutions that integrate automation, AI, IoT, and data analytics to optimize production processes) must evolve beyond the limitations of traditional MES software. Rather than functioning solely as a production execution tool, these solutions should align more closely with MOM solutions, integrating IT and operational technology (OT) systems to enable seamless connectivity across the manufacturing ecosystem. By leveraging advanced analytics and real-time data, smart factory solutions drive operational efficiency, enhance decision-making, and support digital transformation throughout the entire lifecycle of manufacturing assets.

A modern manufacturing approach requires a holistic integration of MES with other critical operational systems, including Product Lifecycle Management (PLM), Enterprise Resource Planning (ERP), and Enterprise Asset Management (EAM). This interconnected framework ensures comprehensive visibility and control over manufacturing operations, from product design and planning to execution and maintenance. The ability to unify these systems fosters a data-driven environment where information flows seamlessly across an enterprise's critical systems, eliminating silos and enabling more informed decision-making.

To handle the complexity and variability of manufacturing environments, smart factory solutions should be designed with a modular architecture, enabling scalability, flexibility, and seamless integration across systems. This approach provides the flexibility to tailor implementations to specific operational needs while maintaining scalability and interoperability across different facilities and production processes. By adopting modular, cloud-enabled, and service-oriented architectures, manufacturers can future-proof their operations, ensuring their solutions remain adaptable to evolving business, product, and technological demands.

A successful transition to a smart factory environment requires an incremental implementation strategy. Rather than attempting a disruptive, large-scale transformation, companies should adopt a phased approach, deploying capabilities gradually to achieve sustainable, scalable growth. This allows organizations to validate improvements at each stage, manage change effectively, and minimize operational disruptions.

One of the key enablers of this transformation is quickly becoming the application of AI-driven advanced analytics. Harnessing real-time insights enables manufacturers to optimize resource allocation, streamline production processes, and proactively address inefficiencies. Predictive maintenance, demand forecasting, and automated quality control further contribute to

productivity by reducing downtime and increasing overall equipment effectiveness (OEE). These capabilities position manufacturers to achieve greater agility, resilience, and competitiveness in an increasingly digital and data-driven industrial landscape.

As the industry shifts toward smart manufacturing, the convergence of MES, MOM, and emerging technologies will define the next generation of operational excellence. Companies that embrace this integrated, data-centric approach will be well-positioned to navigate the complexities of modern manufacturing and drive sustained business value.

CONTACT Software Elements for IoT: Going Beyond MES

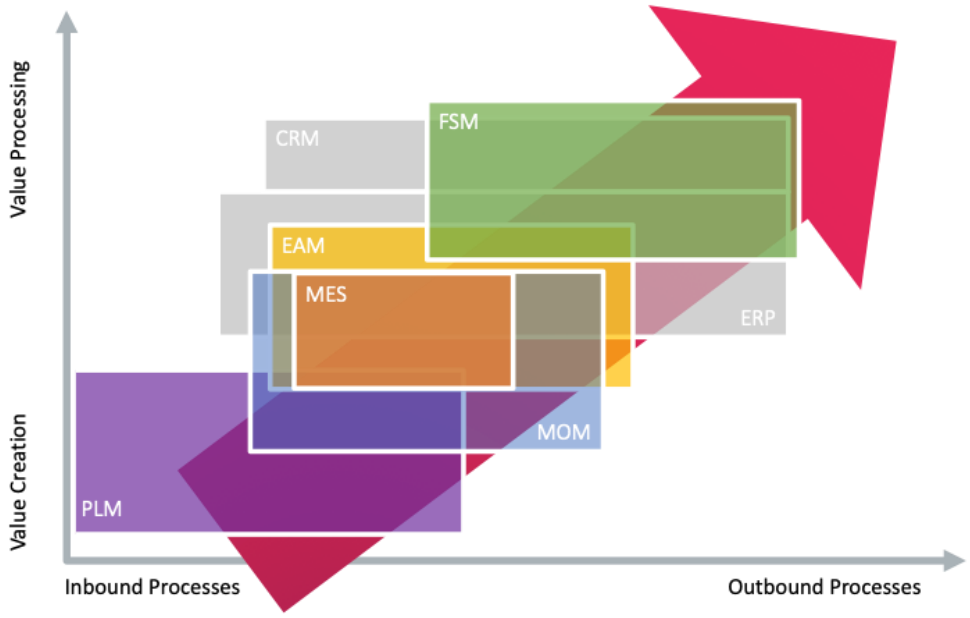
CONTACT Software has developed a solution that extends beyond traditional MES, enabling smart factory operations that drive productivity improvements across manufacturing. The core philosophy behind CONTACT Software's approach is to ensure manufacturers can adapt to future business challenges, emphasizing minimizing the long-term total cost of ownership beyond immediate budget cycles, and maximizing long-term ROI.

CONTACT Elements for IoT

At the heart of CONTACT Software's offerings is CONTACT Elements, a modular and composable architecture. A specific subset, Elements for IoT serves as the foundation for Industrial Internet of Things (IIoT) applications, integrating MES and MOM functionalities. CIMdata has previously highlighted the advantages of the CONTACT Elements Platform, recognizing its open, flexible, and resilient framework.[2] This architecture supports digitalizing value streams from design through validation, production, and after-sales operations in a closed loop. In today's interconnected business environment, isolated, hyper-optimized systems can often have an adverse impact on the overall enterprise value. Smart Factories demand a holistic approach, ensuring seamless integration between production equipment and required digital applications.

CONTACT Elements for IoT Key Features

CONTACT Elements for IoT enables the comprehensive digitalization of industrial assets across their lifecycle. Key capabilities include connectivity services that integrate IT, OT, and ET systems. This includes accelerator technologies such as AI/ML, simulation, 3D visualization, and time series analysis to enhance decision-making. Its process automation functionalities facilitate the deployment of digital twins and archive management, while microservices provide modular features such as ticket management. Layered on top, domain applications leverage microservices and industry-specific solutions to optimize process performance. This composable architecture allows organizations to achieve sustainable value while enabling end users to adapt and modify solutions using low-code/no-code capabilities.



Rethinking System Architectures in the Lifecycle of Industrial Assets

Incremental Implementation for Smart Factories

To facilitate the development of smart factory operations, CONTACT Software's solutions can be implemented in a modular and incremental manner. This ensures a balance between meeting long-term digital transformation goals and short-term measurable gains. As a first step, companies can pursue digital production initiatives within their factories that encompass asset management, maintenance management, document management, and operational data collection. A logical next step is to add connectivity and automation capabilities that reduce manual intervention and improve response times by incorporating IoT-driven machine data collection, monitoring and analytics, data-driven process automation, and predictive maintenance. Companies looking for advanced smart factory capabilities can enhance production networks through cross-site standardization, closed-loop engineering, multi-site deployment, and production control to drive further operational effectiveness. CIMdata advocates for an incremental approach that aligns with strategic objectives while mitigating implementation risks.

Business Benefits of CONTACT For IOT Smart Operations

The business benefits of CONTACT Elements for IoT Smart Operations enable companies to react quicker to real-time conditions, disruptions, and changing production demands with resilience, improved productivity and quality, and increased overall equipment effectiveness. By integrating real-time data, manufacturers can synchronize their supply chains, ensuring precise, up-to-date information flow and driving more efficient operations. Real-time analytics foster continuous improvement, while AI-driven energy management is used to enhance consumption based on production orders, enabling work shift priorities to be optimized. One customer reported energy savings of up to 23% by doing so.

Case Studies

thyssenkrupp Dynamic Components, a leading global manufacturer of powertrain components for hybrid and electric engines, has implemented CONTACT for IoT across its ten global production sites. Their implementation automates shop floor management, standardizes work schedules, and optimizes numerous operational processes. This integrated approach enables smooth cross-system workflows, real-time production control with KPI dashboards, and efficient shift handovers with comprehensive documentation.

Kübler, a high-tech specialist in measurement, transmission, and evaluation solutions, utilizes CONTACT Elements for IoT to streamline shop floor management and condition monitoring. By integrating IoT with PLM and MES, Kübler's solution delivers seamless data consistency and bi-directional communication between engineering and production. The company benefits from automated variant management, real-time process monitoring, and efficient coordination of customer orders and workforce shifts. The closed-loop methodology enhances optimizing production performance. This integration lays the foundation for Kübler's digital factory, driving efficiency and continuous improvement across the value chain.

Conclusion

Modern manufacturing demands solutions that extend beyond traditional MES, integrating PLM, ERP, and EAM to optimize operational efficiency across manufacturing asset lifecycles. CONTACT's MES solution, built on the CONTACT Elements for IoT framework, leverages a composable architecture that extends across MOM and other Smart Factory processes. CONTACT Elements for IoT's modular approach enables manufacturers to adopt Smart Factory capabilities incrementally, balancing risk while achieving rapid automation, enhanced connectivity, and streamlined process optimization. By providing data-driven automation and real-time manufacturing asset lifecycle monitoring, CONTACT's solution improves production efficiency, resource utilization, and operational agility. CIMdata recommends that organizations pursuing Smart Factory transformation include CONTACT Software in their evaluation.

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[1] Research for this paper was partially funded by CONTACT Software.

[2] https://www.cimdata.com/en/resources/complimentary-reports-research/commentaries/item/20364-contact-cloud-bringing-contact-elements-to-the-cloud-commentary.

Siemens NX X: SaaS-Based MCAD - a CIMdata Commentary

19 March 2025

Key Takeaways

- Deploying CAD in a SaaS environment provides ease of initial deployment, automatic upgrades, and flexible scalability. NX X is installed on the desktop via the cloud (similar to MS Office 365), and as an option it can be streamed remotely.

- NX X provides built-in data management but also can be deployed in a Teamcenter Share, Teamcenter or Teamcenter X environment.
- Siemens delivers seamless scalability from startup to global OEM with 100% data fidelity from browser to desktop.
- Through Designcenter, Siemens delivers complete, transparent compatibility across its MCAD solutions—the data models are identical among NX, NX X, and Solid Edge—no data migrations, updates, or translations are needed.
- NX X enables the rapid adoption of new capabilities—delivered with instant updates and through flexible licensing.
- Value Based Licensing tokens provide the flexibility to use what you need—when you need it.
- NX X deployment streamlines a company's ability to digitalize their business.

Introduction

Siemens has introduced a new way to access the NX suite of mechanical CAD capabilities as a cloud-based Software as a Service (SaaS) offering called NX X, that can be installed as a desktop app with the option to be streamed remotely. NX X is part of Siemens' Designcenter, a software suite that brings together its portfolio of design and engineering software including Solid Edge and NX in one unified offering so that companies of any size can design and collaborate using the industry-leading Parasolid modeling kernel. Available immediately, NX X complements NX. This delivery option provides mechanical CAD capabilities with complete data model compatibility—that is, the CAD models, drawings, and other data produced in each can be directly opened and worked on without migration, update, or translation of the CAD models. NX X is NX.[1] As shown in Figure 1, NX X is part of the NX family and sits at the heart of a full product development environment.

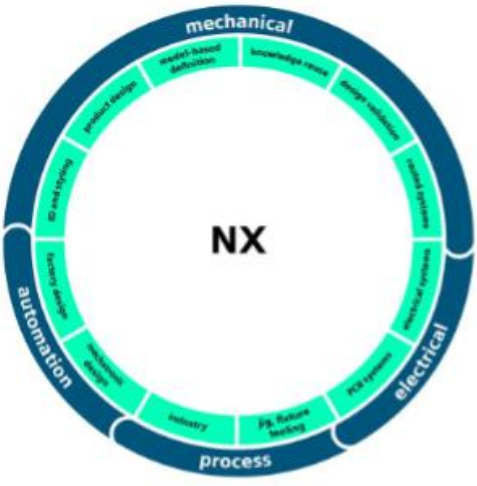

Figure 1—NX X Fits Into a Full Product Development Environment

NX X data management is provided with the CAD product. This internal data manager is built on Teamcenter X technology and manages the data in the cloud. In addition, Teamcenter Share, is provided with NX X to support ad-hoc data sharing. For companies that have deployed a Teamcenter or Teamcenter X PLM environment, NX X can work within that preexisting context. These data management options provide flexibility and consistency for managing NX X data regardless of it being used on premises or on the cloud.

The SaaS delivery model has some inherent advantages over the typical deployment of CAD running as a dedicated program installed on each user's computer. SaaS subscription licensing provides low initial cost of acquisition and deployment. The subscription cost is spread out over time as opposed to occurring in large, periodic lump payments-enabling better budget management. The flexibility of the SaaS licensing model is also important—companies can readily adjust license use as their needs change, moving licenses from user to user based on need. Cost and scalability of licenses, data storage, and computing resources are critical issues for many companies. A SaaS model enables companies to adjust more rapidly and flexibly to evolving business needs and that capability can mean the difference between financial success and failure. Implementation, upgrade, and maintenance also tend to be streamlined, with the vendor maintaining and upgrading the software. NX X is a cloud SaaS deployment that is delivered, managed, and updated by Siemens. This results in less disruption for users and IT support organizations.

Another very important benefit of SaaS is that it enables access to the software at work, from home, and on the go. Supporting today's highly mobile workforce who do not have to be tied to a particular Internet connection location promotes broad real-time collaboration across globally distributed teams, which is becoming a much more important and prevalent strategy for companies that must more rapidly create today's innovative products. Some people are concerned about security issues with a SaaS environment. However, CIMdata (and many others) consider this to be a false issue since the hyperscalers that provide SaaS environments have robust security strategies and substantial security-focused resources that address software, data, infrastructure, and physical security. When a company manages its security on-premises the level of security is only as good as budgets and staff skills can deliver—and these are usually significantly lower than the SaaS hyperscalers deploy.

Siemens' goal is to deliver seamless, consistent, scalable CAD SaaS from NX to NX X from on-premises to desktop to browser. All built to use and share the same data model for product definition. To reiterate a main precept of the continuous Siemens CAD experience, NX X is NX, just via a different delivery model—there is complete, seamless data model and user experience compatibility regardless of the deployment method used—providing complete data reuse from previous versions of NX, without any translation.

NX X Value

So, what does NX X deliver in addition to on-premises NX? Some key capabilities provided by NX X in the SaaS environment are described below.

Because it is implemented in a SaaS environment it is easy to deploy. A local install, just like MSOffice 365, is all the users need to do. The software a person gets when the NX X license is

delivered is always the latest version available. This points to another advantage; in that the software can be updated by Siemens without disrupting users, assuring they always have access to the latest version of capabilities. Value Based Licensing is yet another flexibility option users. This licensing strategy is based on a "floating token" concept through which users can access add-on capabilities in NX X (see Figure 2) using any currently unused tokens. A user with a core seat NX X license may want to access add-on capabilities for industrial design, styling, design validation, PCB design (and many others). If the tokens are available, the user can simply check-out the desired capability using tokens and use it as long as required. Once they return the tokens to the token pool, other users have access to reuse those tokens to access the broad suite of NX X add-on capabilities within Value Based Licensing as needed. Tokens also provide access to new NX X add-on capabilities without additional cost. CIMdata applauds this flexibility as it enables companies to take advantage of the many NX X applications without having to deal with complex and time-consuming licensing rules—people can use what they want from the NX X suite when they need it and only for as long as they need it.

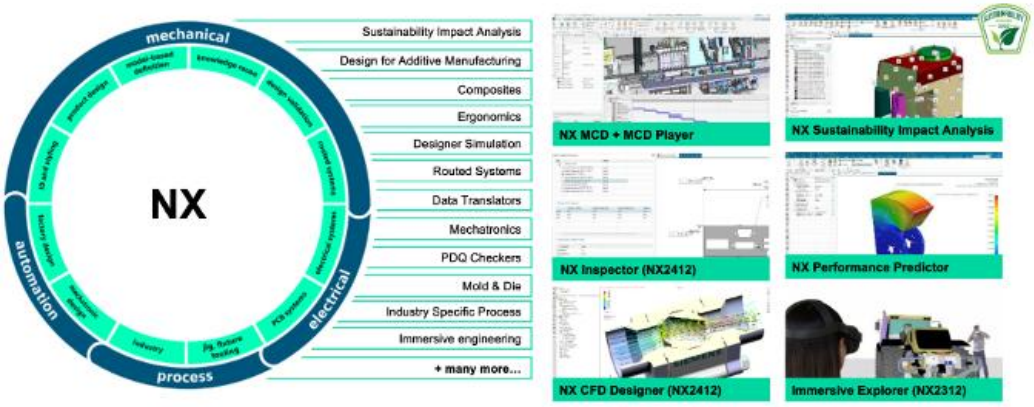

Figure 2—Tokens Provide Access to NX X Capabilities Including Advanced Features

Due to its SaaS implementation, NX X is both scalable and flexible in terms of how, where, and when it can be used in support of diverse product development strategies.

NX X offers 4 tiers of modeling licenses—to support basic, low level prismatic machined parts and simple surface models; then support for more refined, styled surfaces and Model-Based Definition; and advanced surfacing and subdivision modeling and more sophisticated surface modeling capabilities. These are all integrated across the product design continuum of mechanical and electrical/electronic product components. Again, the value-based token licensing enables any user to access additional add-on NX X capabilities if tokens are available.

Siemens includes data management with NX X to support data sharing, and collaboration across the value chain. NX X provides additional data security through its SaaS hosting and Teamcenter Share. Data is as secure as any other data stored and processed in a modern hosting service, providing the high level of protection and availability that hosted services provide. Just one example of enabling collaboration with NX X is the case of Helixx, a UK-based e-mobility technology startup, that has adopted NX X to help achieve its vision of delivering safe, affordable, zero-emission final mile electric vehicles. Mr. Steve Pegg, CEO and co-founder,

Helixx, notes that "Helixx was founded to transform the quality and standard of mobility for citizens in heavily congested cities with globally designed, but locally manufactured mini commercial electric vehicles. Having access to cutting edge product engineering software and the associated digital twins, wherever and whenever we need it, is fundamental to achieving our vision. Siemens' NX X provides the full capability of NX via the cloud, enabling us and our partners to access live design and manufacturing data instantly. Building the future of sustainable mobility and transportation is challenging, but with Siemens' NX X available as a core part of our toolkit, we're able to meet those challenges head on and build a cleaner future."

CIMdata finds several aspects of the NX family, including the updated NX X, to be compelling. Value-based licensing certainly is an attractive option that allows companies to share NX X capabilities more cost effectively without having to purchase licenses that may otherwise remain idle for periods of time, Scalability across the value chain provided from on premises to desktop to browser, provides flexibility for deploying CAD. This is supported by the common data model among these various forms of NX, enabling them to share data regardless of use models. Data model consistency is further enhanced by the NX families ability to read and modify CAD data created from the 1980s to today across the Siemens CAD solution family.

Conclusion

NX X in a SaaS delivery environment provides fundamental benefits, allowing NX CAD to be used in a flexible SaaS environment. The continuum of NX and NX X provides a flexible and scalable CAD deployment opportunity for companies disparate needs. Siemens has stated that NX X will continue to expand with additional capabilities from the Siemens portfolio such as electrical design being integrated into the NX X SaaS delivery model.

Another example of NX X use to is provided by Dovetail. Headquartered in Australia with operations in Spain, Dovetail is currently the only company worldwide converting Cessna 208s to zero emission battery electric propulsion, and the only company designing a hydrogen-electric retrofit for the Beechcraft King Air, the most successful aircraft in its category. NX X helps Dovetail develop these propulsion systems using seamless collaborative workflows between teams based in Spain and Australia. "Whilst a lot has changed in the world of aviation, the fundamental structure of an aircraft hasn't changed much. Therefore, it makes perfect business and sustainability sense to retrofit capable aircraft with new generation, zero emissions drivetrains that take a significant step towards cleaner air travel. This helps us collectively achieve net zero and saves costs. As we've grown, we've realized the need to invest in software that helps us create digital twins of the propulsion systems we design, is easily accessible worldwide and increases collaboration between our design teams in Australia and Spain. Siemens' software is at the heart of our ability to deliver zero emissions air travel, whilst enabling aircraft operators to reduce operating costs by up to 40%," said Mr. David Doral, CEO of Dovetail Electric Aviation.

NX X can be deployed by and is appropriate to be used by all sizes of organizations. The token license model provides a level of flexibility that is very compelling for all companies, but especially those with a need for managing their CAD resources more efficiently. The value of NX

X for companies of all sizes is clear. This value is monetary, but also manifests in convenience, flexibility, and freedom of use. CIMdata recommends that enterprises consider Siemens solution suite when evaluating and selecting CAD solutions—especially.

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[1] Research for this paper was partially supported by Siemens.

Acquisitions

CGI completes Novatec acquisition, strengthening its European presence in key commercial industry sectors

21 March 2025

CGI, one of the largest independent IT and business consulting services firms in the world, has completed the previously announced acquisition of Novatec by its wholly owned limited partnership, CGI Deutschland B.V. & Co. KG.

Novatec is a leading digital services company in Germany and Spain. Founded in 1996, it offers a wide range of business and IT consulting services, including cloud-based solutions, agile products, software development and digital strategies. Novatec's application performance management solutions will complement CGI's existing intellectual property portfolio and enable clients to accelerate digital innovation through the use of new technologies such as AI.

“CGI and Novatec share a corporate culture based on results-oriented intrapreneurship, innovation and a high degree of accountability and ownership. The experts joining us from Novatec are problem solvers and, like us, are focused on delivering tangible results for clients,” said Ralf Bauer, CGI President of Germany operations. “Together, we can create additional value for our clients in the automotive, manufacturing and financial services industries, turning digital innovation into business value.”

“The expertise that Novatec contributes to our team will complement CGI’s local and global capabilities, strengthening our technology expertise and industry insights through new offerings to clients,” adds Alberto Anaya, Senior Vice-President and Business Unit Leader for CGI Spain.

More than 300 IT and consulting experts from across Novatec have now joined CGI from across eight offices in Germany, with a strong presence in the Stuttgart metro market and the South-West region, as well as from Granada, Spain.

Hexagon completes acquisition of Septentrio expanding the reach of mission critical navigation and autonomy applications

19 March 2025

Hexagon announced the closing of the acquisition of Septentrio NV, a manufacturer of GPS/GNSS positioning technology for autonomy and mission-critical applications.

The acquisition of Septentrio will strengthen Hexagon's position as the leader in the resilient, assured positioning solutions market and provide customers greater accessibility to high-accuracy and high-performance positioning technology with the SWaP (Size, Weight and Power) optimised platform.

"Combining Hexagon's extensive positioning portfolio with Septentrio's innovative GNSS platforms will provide our customers with cutting-edge solutions, enabling autonomy and mission-critical applications for diverse markets," stated Gordon Dale, President of Hexagon's Autonomous Solutions division. "This strategic step allows us to push boundaries to deliver technology and products with the lowest SWaP, putting Hexagon at the forefront of the industry."

The combined portfolios will accelerate the adoption of autonomous systems in existing markets and address the needs of emerging high-growth segments like robotics, UAVs, autonomy and other mission-critical applications.

"We are excited to join Hexagon to leverage our combined strengths and deliver greater value to our customers, employees and stakeholders," stated Antoon De Proft, CEO of Septentrio. "This will accelerate innovation, and we look forward to the many opportunities ahead."

Septentrio, headquartered in Leuven, Belgium will continue its business model of supplying state-of-the-art GNSS technology to its large base of OEM (original equipment manufacturer) customers.

Company News

Altair Names EnginSoft as Channel Partner for Italy

14 March 2025

Altair, a global leader in computational intelligence, has named EnginSoft as a new channel partner for Italy. EnginSoft will offer all of Altair's data analytics and artificial intelligence (AI) solutions within the Altair® RapidMiner® platform to its customers, empowering them to transform raw data into strategic insights and drive engineering and manufacturing innovation.

"EnginSoft's legacy of expertise in engineering optimization and data analytics, coupled with Altair's cutting-edge data and AI capabilities, will help businesses unlock the full potential of their data," said Kimon Afsaridis, managing director of Eastern Europe and vice president of indirect EMEA sales, Altair. "Together, we will provide best-in-class solutions that help organizations enhance decision-making, improve efficiency, and accelerate digital transformation."

"Advances in communication, computing, and data storage are defining the next frontiers of progress. We are proud of this partnership with Altair because it supports and updates our historic mission to transform complex data into intelligent data, rationalize all available information, and provide reliable support to our customers," said Marco Perillo, chief executive officer, EnginSoft.

With Altair RapidMiner, EnginSoft customers will gain the ability to connect siloed data, unlock hidden insights, and modernize their existing systems while embracing next-generation technologies like generative AI (genAI) and AI agents. Overall, the partnership will enable businesses to optimize processes, maximize returns on investments, and maintain a competitive edge in an increasingly data-driven marketplace.

Altair works with a global network of channel and technology partners.

Altair Names Var Group as Channel Partner for EMEA Region

18 March 2025

Altair, a global leader in computational intelligence, has named Var Group – through its competence brand Var Industries – as a channel partner for the EMEA region. Var Group will offer Altair's full portfolio of cutting-edge simulation, data analytics, and artificial intelligence (AI) technologies to its customers to optimize their operations, drive innovation, and unlock new opportunities.

"Var Group's digital transformation expertise and commitment to delivering innovative solutions aligns perfectly with Altair's vision of empowering businesses with advanced, intuitive technology," said Kimon Afsaridis, managing director of Eastern Europe and vice president of indirect EMEA sales, Altair. "We look forward to working with Var Group to expand our reach and help more organizations drive more intelligent decision-making and enhanced efficiency through simulation, data, and AI."

"We are thrilled to partner with Altair: a globally recognized leader with whom we share fundamental values, an innovative market vision, and a proven customer-centric approach," said Filippo d'Agata, head of Var Industries. "This collaboration enables us to expand our portfolio with advanced AI, data analytics, and simulation solutions, adding new expertise and tools to meet all industries' increasingly complex needs. Together, we can provide businesses with integrated, high-value solutions that accelerate innovation, enhance efficiency, and drive transformation in an ever-evolving market."

Altair collaborates with a global network of channel and technology partners.

Dassault Systèmes Intensifies the MEDIDATA Commitment to Patient Experience with Investment in Click Therapeutics for Digital Therapeutics beyond Clinical Trials

19 March 2025

Dassault Systèmes announced its investment in Click Therapeutics, a leader in prescription digital therapeutics and software-enhanced drug therapies. The transaction advances Dassault Systèmes' transformation of the patient experience in life sciences and healthcare through end-to-end technology solutions used across the healthcare ecosystem.

The transaction strengthens the existing relationship between Dassault Systèmes' MEDIDATA brand and Click Therapeutics, helping to improve patient engagement - post-trial through commercialization - and advancing the Patient Experience to deliver end-to-end technology solutions across the healthcare ecosystem. The continued relationship and subsequent

investment will set a gold standard and unified offering for digital and pharmaceutical clinical trials' design and execution, providing a path to Prescription Digital Therapeutics (PDTs) and Software-Enhanced (SE) product approvals, expanded labels for existing therapeutics, and, ultimately, a novel pipeline for long-term, real-world evidence generation.

MEDIDATA has virtualized clinical research, creating a unified patient experience with integrated technology solutions. This foundation, built on running over 8,000 active studies annually, allows MEDIDATA, together with Click Therapeutics, to extend their commitment to patients into real-world care, fostering improved coordination and outcomes between patients, physicians, caregivers, and life science manufacturers. Click Therapeutics will gain access to Dassault Systèmes' global presence and expertise, while both companies will provide unparalleled support for developing PDTs and SE products, making them available to patients.

"Digital therapeutics are beginning to transform the way customers think about their future clinical development programs and are providing demonstrable therapeutic benefits over drugs alone in many cases," said Anthony Costello, CEO, Medidata. "Today's investment in Click Therapeutics reflects our commitment to this exciting technology, and our partnership with them will enable our customers to take the fastest, most reliable path to bringing digital therapeutics to patients, helping to build a direct connection to patients over a life-long healthcare journey."

"Since the FDA shared its latest thinking on Prescription Drug Use-Related Software in guidance, we have experienced a surge in interest in how software can add to the benefits of medication. Now is the time to expand treatment options for patients through software as medicine," said David Benshoof Klein, CEO, Click Therapeutics. "The investment from Dassault Systèmes, the foremost leader in virtualizing the life sciences and healthcare industry, will enable us to continue to expand the boundaries of medicine and develop new, cutting-edge patient solutions to advance care."

ENCY Software and DAMRC Announce Partnership to Advance Robotic Machining Technologies

17 March 2025

ENCY Software, a European developer of innovative CAD/CAM/OLP solutions for automating CNC machine and industrial robot programming, and The Danish Advanced Manufacturing Research Center (DAMRC), a leading non-profit research organization dedicated to enhancing manufacturing productivity, are excited to announce their new partnership. This collaboration aims to drive innovation in robotic machining and revolutionize the use of industrial robots for material removal applications.

Expanding the Frontiers of Robotic Machining

The partnership between DAMRC and ENCY Software will focus on several key areas:

- **Advanced Simulation and Programming:** Leveraging ENCY Software's state-of-the-art robotic programming and simulation tools, DAMRC will enhance its research into optimizing robot trajectories for complex material removal applications.

- **Optimization of Machining Parameters:** By integrating DAMRC's extensive research on industrial machining processes with ENCY Software's expertise, the collaboration will develop best practices and machining parameters that improve the efficiency and accuracy of robotic machining.
- **Technology Transfer and Industry Adoption:** The partnership will facilitate knowledge sharing and implementation of robotic machining technologies across manufacturing industries in EU and beyond.
- **Joint Research and Technical Publications:** Both organizations will collaborate on research projects, producing industry reports and scientific publications that highlight advancements in robotic machining.
- **Education and Training:** The collaboration will include the development of specialized educational courses for manufacturing companies, enabling them to implement the latest robotic machining technologies.

A Strategic Collaboration for Innovation

The decision to collaborate stems from a shared vision of transforming manufacturing through advanced digital and automation technologies. With a growing interest in industrial robots as cost-effective alternatives to traditional CNC machining centers, this partnership will provide manufacturing companies with cutting-edge tools to improve productivity and precision.

"We are thrilled to partner with ENCY Software to push the boundaries of robotic machining," said **Christian Skov Lillelund, Chief Operating Officer at DAMRC**. *"By integrating their powerful software solutions into our research framework, we can provide the manufacturing industry with more efficient, flexible, and innovative robotic machining solutions."*

Similarly, **Andrei Kharatsidi, CEO of ENCY Software**, expressed excitement about the collaboration, stating, "*This partnership with DAMRC aligns perfectly with our objective to drive the adoption of robotic machining worldwide. The insights and expertise provided by DAMRC will be invaluable in refining our software and ensuring it meets the highest industry standards."*

Anticipated Outcomes

Through this collaboration, DAMRC and ENCY Software aim to:

- Improve robotic machining efficiency and reliability through optimized programming and trajectory planning.
- Provide manufacturing companies with access to state-of-the-art solutions that enhance productivity.
- Accelerate the adoption of industrial robots for machining applications by addressing industry-specific challenges.
- Strengthen European Union's position as a leader in advanced manufacturing technologies.

The partnership will also offer mutual visibility, with ENCY Software gaining recognition in DAMRC's technical publications and research reports, while DAMRC will benefit from cutting-edge software tools to support its research initiatives.

Hexagon appoints Gordon Dale as President of its Autonomous Solutions division

17 March 2025

Hexagon AB announced the appointment of Gordon Dale as the President of its Autonomous Solutions (AS) division, reporting directly to Norbert Hanke, interim President and CEO, Hexagon.

Gordon Dale has been with Hexagon for 16 years, having joined after the acquisition of NovAtel, the global leader in high-precision positioning technology. He has held several leadership positions across the AS division including as Chief Synergy Officer, where he was instrumental in bringing together the Autonomy & Positioning and Mining businesses to form the AS division. Gordon holds a Master of Business Administration and a Bachelor of Science in Electrical Engineering and Computer Engineering.

"The team has worked closely to integrate the Autonomous Solution division and prepare it to be a strong growth and margin contributor for the Hexagon Group. With the integration complete, it makes sense to now unify the leadership structure, and I am thrilled Gordon, with his in-depth industry knowledge, has accepted this role.", says Norbert Hanke, interim President and CEO, Hexagon.

IFS Appointed Advisor to UK Parliamentary Group on AI

18 March 2024

IFS, the leading enterprise cloud and Industrial AI software provider, has been appointed as an Advisory Board Member of the UK's All-Party Parliamentary Group (APPG) on AI, a key platform shaping AI policy and governance at the highest levels. This advisory role positions IFS at the center of AI policy discussions in Westminster and beyond, alongside policymakers, industry leaders and top businesses including Meta, Capgemini, Deloitte, and Santander.

Bianca Nobilo, IFS Executive Board Member & Chief External Affairs Officer, joins the Advisory Board to lead this engagement, bringing her political experience and expertise as a geopolitical and AI strategist to Westminster's AI policy discussions.

As AI reshapes industries, economies and global power structures, IFS is leveraging its expertise in Industrial AI to provide policymakers with real-world, enterprise-grade insights, ensuring AI is developed responsibly, transparently and with measurable business and societal impact.

Bianca Nobilo, IFS Executive Board Member and Chief External Affairs Officer, stated:

"AI is no longer just a technological breakthrough—it's a geopolitical force, an economic driver and a competitive differentiator. At IFS, we develop AI solutions that power some of the world's most complex industries which we all depend on, and it's imperative that we help shape the global governance that surrounds them."

Since its formation in 2017, the APPG on AI has been at the forefront of policy debates, addressing the economic and societal impact and implications of artificial intelligence. Its aim is to unleash the full potential of AI in all sectors while ensuring responsible and purposeful use of this technology to drive positive change. Its reach and impact have expanded exponentially, driven by the rapid pace of technological advancement. The group's secretariat, Professor Birgitte Andersen, states:

"The APPG on AI does not aim to build consensus on complex issues; rather, its evidence-based approach fosters open debate, embracing and exploring a range of diverse perspectives. We are thrilled to welcome Bianca Nobilo to our Advisory Board, and the expertise of IFS across industries such as manufacturing, energy, and aerospace is crucial to understanding the full potential of AI."

OpenText Software GmbH Receives SAP MEE Partner Excellence Award 2025 for Solution Extensions

14 March 2025

OpenText Software GmbH announced it received an SAP® MEE Award for Partner Excellence 2025 for Solution Extensions. Awards were presented by SAP to the top-performing SAP partners in the Middle and Eastern Europe (MEE) region that have made outstanding contributions to driving digital transformation for businesses that use SAP solutions. Recipients – in partnership with SAP – help customers adopt innovation, gain results rapidly, grow sustainably, and run more simply with SAP solutions.

Werner Rieche, SVP Sales ECS Europe at OpenText said, “OpenText is honored to receive this award. This recognition underscores the strength of our long-standing partnership with SAP, which enables us to jointly deliver innovative enterprise information management solutions that drive business transformation. By integrating enterprise information management capabilities with SAP’s powerful data-driven offerings, together we empower organizations to unlock new insights and agility, ensuring they can respond swiftly to evolving market demands.

“This achievement is not only the result of individual efforts but a testament to the collective dedication of our executives, sales, pre-sales, partners, marketing, R&D and professional services teams. Together, we've worked side-by-side, with a shared goal—to deliver the best possible outcomes for our joint customers.”

Selected from SAP’s large and diverse partner base, nominations for the SAP Partner Excellence Awards are based on internal SAP sales data. A committee composed of regional and global SAP representatives determine winning partners in each category according to criteria such as sales achievement and performance. Awards are presented in a variety of categories, including overall sales, innovation, technology, services, and solution-specific areas.

"Over the last year, OpenText has been a leader in guiding our joint customers through their digital transformation and supporting their business growth," said Susanne Diehm, Chief Partner Revenue Officer MEE, Partner Ecosystem Success. “Thank you for being a trusted advisor to so many of our customers in MEE and helping them tackle their most complex

business challenges with commitment and ingenuity. Congratulations to OpenText on winning the SAP MEE Partner Excellence Award 2025 for Solution Extensions! I look forward to the many achievements and milestones we will reach in the next chapter of our partnership."

Working together OpenText and SAP are enabling businesses to access critical enterprise information seamlessly, enhancing key processes with flexibility and intelligence whilst promoting compliance and ensuring cost control in the cloud. Our joint solutions are designed to support customers' RISE with SAP journey to SAP S/4HANA Cloud ERP as well as employee digital files with SAP SuccessFactors, helping customers accelerate their SAP transformations.

PROS Appoints Growth Veteran Katie May to Board of Directors

18 March 2025

PROS Holdings, Inc., a leading provider of AI-powered SaaS pricing and selling solutions, announced the appointment of Katie May to its Board of Directors, effective immediately. May, an established entrepreneur and board veteran, joins PROS as an independent director, bringing deep expertise in eCommerce, digital transformation and high-growth SaaS strategies.

May is an experienced leader with more than 20 years in C-suite roles, including 14 years as an operating CEO. She has successfully scaled multiple high-growth companies to successful exits, including one IPO and two strategic acquisitions. Her expertise spans SaaS, software, marketplaces, SMB, eCommerce, shipping and digital transformation. She also brings extensive board leadership experience across public and private companies, having served on nine boards, including Pitney Bowes, Rokt Inc and Stamps.com.

"With experience across high-growth technology companies and marketplaces, Katie brings extensive knowledge of what it takes to scale a business," said PROS Non-Executive Chairman of the Board Bill Russell. "We look forward to adding Katie's perspective to the Board."

"We are delighted to welcome Katie to the PROS Board," said PROS President and CEO Andres Reiner. "Her knowledge and expertise in SaaS, digital commerce and scaling businesses make her an invaluable addition as we accelerate our mission to help companies outperform in an increasingly dynamic market."

"PROS is sitting at the intersection of AI, pricing, and commerce—a space primed for disruption," said May. "I'm thrilled to join the PROS Board at such a pivotal time and help accelerate the company's journey in shaping the future of intelligent commerce and driving long-term success and value for our shareholders."

Russell Reynolds advised the company in the Board search process.

pSeven SAS partners with the Advanced Forming Research Centre (AFRC) to enhance the FutureForge platform with AI-driven process optimization

17 March 2025

pSeven SAS, a leading provider of AI-driven design space exploration and simulation process automation solutions, is proud to announce its partnership with the University of Strathclyde's Advanced Forming Research Centre (AFRC)., part of the National Manufacturing Institute

Scotland (NMIS) This collaboration will integrate pSeven Desktop into the AFRC's FutureForge platform, the world's most advanced digital forging facility.

The FutureForge platform is designed to revolutionize forging by leveraging digital technologies to optimize manufacturing processes, improve efficiency and reduce material waste. pSeven Desktop, known for its cutting-edge workflow automation, machine learning and design optimization capabilities, will play a key role in enhancing process automation and accelerating decision-making within FutureForge.

"We are thrilled to collaborate with the AFRC on this groundbreaking initiative. Our technology will help forge manufacturers achieve higher precision, efficiency and sustainability by streamlining and optimizing processes through AI and machine learning",
- said Laurent Chec, General Director at pSeven SAS.

By integrating pSeven Desktop into FutureForge, manufacturers will benefit from:

- Automated process optimization – streamlined simulation workflows and AI-driven optimization to fine-tune forging parameters.
- Enhanced predictive capabilities – Data-driven insights to improve process control and reduce trial-and-error.
- Accelerated innovation – Faster development of new forging techniques and materials.

This partnership underscores pSeven SAS's commitment to driving digital transformation in industrial manufacturing. Together with the AFRC, pSeven SAS is enabling a new era of intelligent, high-performance forging.

PTC Appoints Trac Pham to Board of Directors

13 March 2025

PTC announced that it has appointed Trac Pham to its Board of Directors, effective March 17, 2025.

Pham is the former Chief Financial Officer of Synopsys, a recognized leader in electronic design automation and semiconductor development. During his tenure as CFO, Pham led Synopsys through two significant transformations that helped scale the company from $2.0B to $5.1B in revenue while expanding operating margins. He is currently on the Board of Directors of UKG and SiFive, serving as Chair of the Audit Committee for both Boards.

"Trac has an excellent record of financial and operational management, and we're pleased to welcome him to PTC's Board of Directors," said Neil Barua, President and CEO of PTC. "Trac's leadership, industry experience, and success at driving growth and value creation make him a valuable addition to our Board. We look forward to his contributions as we continue our efforts to grow our business and support our customers."

"I've long admired PTC and the impact the company has on how its customers design, manufacture, and service the products we all rely on," said Pham. "I look forward to working

with Neil, his leadership team, and my fellow Board members as we continue to execute PTC's strategy and create long-term value for shareholders."

Prior to serving as CFO of Synopsys, Pham led corporate finance, financial planning, and strategy at Synopsys and held leadership roles in corporate planning, strategy, and business development at Juniper Networks.

Pham will serve on the PTC Board's Audit Committee.

Tech Mahindra Expands Partnership with Google Cloud to Scale Enterprise-Wide AI Adoption

18 March 2025

Tech Mahindra, a leading global provider of technology consulting and digital solutions to enterprises across industries, announced an expanded long-term strategic partnership with Google Cloud to boost the adoption of Artificial Intelligence (AI) and lead digital transformation for enterprises globally. The partnership will enable Tech Mahindra to help enterprises worldwide achieve agility, scalability, and sustainable growth through cutting-edge technologies.

The partnership will combine Tech Mahindra's deep domain expertise with Google Cloud's powerful AI capabilities, including Google's Gemini models, AI development platform, and agentic AI technology to develop industry-specific solutions for sectors such as communications, healthcare and life sciences, manufacturing, automotive, retail, and financial services. Together, Tech Mahindra and Google Cloud will help enterprises modernize their infrastructure and data architecture while optimizing the return on investment from their AI-powered cloud solutions.

Atul Soneja, Chief Operating Officer, Tech Mahindra, said, *"AI's promise is undeniable, yet enterprises face significant challenges in its adoption, from ensuring compliance to driving tangible outcomes. Our expanded partnership with Google Cloud reinforces our commitment to scaling AI adoption responsibly by cocreating tailored solutions powered by Agentic AI. These solutions will empower businesses to navigate operational complexities, enhance efficiency, and unlock new growth opportunities while adhering to evolving regulatory standards."*

Through the enhanced partnership, both organizations will help enterprises realize the full potential of AI for business transformation and growth. The partnership will accelerate the time-to-market for new AI-driven solutions, providing customers with early access to emerging technologies. Additionally, Tech Mahindra has made substantial investments in talent upskilling and advanced delivery capabilities to enhance its partnership with Google Cloud.

Kevin Ichhpurani, President, Global Partner Ecosystem & Channels, Google Cloud, said, *"Maximizing value from AI investments requires two things: advanced agent-building technology and deep industry expertise. Our partnership with Tech Mahindra will provide customers with the managed services needed to successfully build and deploy AI agents with Google Cloud's leading AI development platform."*

The expanded partnership with Google Cloud further strengthens Tech Mahindra's position as a leading provider of innovative AI and cloud solutions, ensuring efficient solution deployment while maximizing the resources available. To support this, Tech Mahindra has established dedicated delivery centers in Guadalajara and Mexico. These centers focus on providing Google Cloud-centric solutions and assisting customers in modernizing their infrastructure. Tech Mahindra is a premier systems integrator Google Cloud Partner with 2000+ certified resources and 10,000+ trained engineers deployed across 75+ programs globally.

Wipro Realigns Business Lines to Augment Go-to-Market Capabilities

14 March 2025

Wipro Limited, a leading technology services and consulting company, announced realignment within its Global Business Lines (GBLs) to deepen alignment to clients' evolving business needs and capitalize on emerging technology opportunities driven by AI, cloud, and digital transformation.

Clients are increasingly seeking integrated, outcome-driven solutions that enhance agility and innovation. To better meet these needs, Wipro will realign its Global Business Lines.

"This evolution of our business lines will enable us to further sharpen our focus towards client needs with consulting-led and AI-powered solutions," said **Srini Pallia, Chief Executive Officer & Managing Director, Wipro Limited.** This realignment will allow us to serve our clients better, enabling us to deliver tailored, high-impact transformation," he added.

These changes will come into effect from April 1, 2025.

Wipro will continue to operate with four GBLs, organized around client buying behavior:

- **Technology Services:** Led by Nagendra Bandaru, this GBL will deliver cloud-enabled and industry-specific technology solutions. It will focus on Digital and Industry Cloud, Cyber Security and Risk Services, Cloud and Infrastructure Services, Data, Analytics and AI, Enterprise Applications, and Designit.
- **Business Process Services:** Led by Jasjit Singh Kang, this GBL will focus on digital operations and business process transformation.
- **Consulting Services:** Led by Amit Kumar, this GBL will provide strategic advisory and transformation services.
- **Engineering:** Led by Srikumar Rao, this GBL will continue to provide engineering and R&D services.
- There is no change to **Capco**. Anne-Marie Rowland will continue to lead it.

Jo Debecker, who led Wipro FullStride Cloud, has decided to pursue opportunities outside Wipro.

Xometry Becomes One Of The First Companies To Achieve Cybersecurity Maturity Model Certification (CMMC Level 2) For Meeting Rigorous Cybersecurity Standards

19 March 2025

Xometry, the global AI-powered marketplace connecting enterprise buyers with suppliers of manufacturing services, announced it has become one of the first companies in any industry to achieve Cybersecurity Maturity Model Certification (CMMC Level 2), for adherence to rigorous cybersecurity and information security standards for the aerospace and defense industries as set forth by the U.S. Department of Defense.

The recently finalized CMMC framework requires contractors seeking to do business with the Department of Defense to comply with stringent cybersecurity requirements for protecting Controlled Unclassified Information (CUI), including ITAR-regulated export-controlled data, and to undergo an audit by a Certified Third-Party Assessor Organization (C3PAO). Xometry received a perfect score.

"Xometry's CMMC Level 2 certification demonstrates our industry leadership, and reinforces our position as a trusted partner for domestic aerospace companies, defense agencies, and other organizations that require strict data protection measures," said Tarit Mitra, Xometry's head of cyber and information security. "In today's complex and challenging landscape, protecting sensitive information is not just a regulatory requirement—it's a critical component of maintaining trust with our customers and protecting sensitive information vital to our national security."

Xometry's two-sided, e-commerce marketplace plays a vital role in the rapid digital transformation of America's manufacturing industry. Xometry's proprietary technology shortens development cycles, drives efficiencies within corporate environments and helps companies create resilient supply chains. Xometry's product portfolio includes its industry leading digital marketplace; popular Thomasnet® industrial sourcing platform, and cloud-based tools and centralized project management software for large, mission-critical projects.

Event News

Ansys and NVIDIA to Demonstrate New Era of In-Silico Cardiovascular Research at GTC

18 March 2025

Ansys and NVIDIA unveiled a new technology framework enabling customers to design tailored solutions using the power of AI, advanced simulation, and physically-based visualization. Converging Ansys and NVIDIA open-source technologies narrows the gap between simulation and reality by enabling customized workflows, fostering collaboration, and making simulation more accessible to non-experts. Ansys applied this framework to demonstrate how it can empower clinicians to quickly analyze human heart anatomies in extreme detail — equipping them with deeper insights to make more informed decisions. The companies will jointly demonstrate this research at NVIDIA GTC in San Jose, CA March 18-21.

PyAnsys is a collection of open-source Python libraries that bridge Ansys tools and the Python scripting language, making it easier to run simulations, modify geometries, and process results automatically. NVIDIA NIM — a set of inference microservices for developers to easily deploy AI models — enables Ansys users to connect with large language models (LLMs), in this case via a chatbot. Prompting the chatbot with specific queries about the model triggers the LLM, trained with selected PyAnsys libraries, to auto-generate customized PyAnsys code. This ultimately enables high-fidelity simulation and visualization within applications built on NVIDIA Omniverse, allowing non-experts to forgo learning the underlying complex system of tools needed for simulation.

Customers across industries can harness the value of this technological framework. Simulation users can script existing models with Python and train an LLM for context-specific learning, empowering non-experts to obtain the same simulation insights more easily through a customized or chat-based user interface.

The demonstration at GTC showed how the framework can enable tailored treatments and outcome predictions for those with cardiovascular disease — the leading cause of death in the world. From within the “PyAnsys-Heart” library, a clinician can ask the chatbot, “What does my patient’s heart look like?” “PyAnsys-Heart” will generate code for that specific patient’s heart, enabling a partial or full anatomical model in LS-DYNA. The model can then be visualized in an application developed with Omniverse for visualization, unlocking insights that could have otherwise been inaccessible.

"As a surgeon we have plenty of expertise in dealing with the common cases,” said Dr. Francis Bessiere, cardiac electrophysiologist at Louis-Pradel Cardiovascular and Pulmonary Hospital. “However, the exciting promise of combining computational technologies like simulation, visualization, and AI becomes clear when we can predict which cases will be challenging and prepare the health system to optimally care for the more complex patient cases."

This collaboration also sets the foundation for Ansys and NVIDIA to jointly leverage new tools and workflows for creating high-fidelity, multi-modality, multi-scale physics and physiological simulation for use with NVIDIA Isaac for Healthcare. Isaac for Healthcare is an AI robotics development platform that helps developers safely and efficiently design, test, and deploy advanced AI-driven robotic and autonomous systems specifically for healthcare settings and applications.

"Ansys is committed to helping its customers innovate, and that means enabling rapid testing and deeper insights to instill confidence in product performance," said Prith Banerjee, chief technology officer at Ansys. "It also means that simulation should be accessible by more than a few specialists within an organization. Ansys and NVIDIA recognize this, and our open ecosystem approach to digital engineering and product development sets the standard for collaboration, and as evidenced by our demonstration, has transformative potential for cardiac care and beyond."

“The collaboration with Ansys is foundational to accelerating the next generation of medical imaging and robotics,” said Rev Lebaredian, vice president of Omniverse and simulation

technology at NVIDIA. “The power of advanced GPU computing, physical AI, and simulation will shape the future of personalized healthcare.”

Cyncly brings software for smarter, faster, more precise manufacturing to LIGNA 2025

18 March 2025

Cyncly, the leading global provider of software solutions that help make amazing spaces for living, will bring its comprehensive software solutions to LIGNA, one of the world’s leading trade fairs for woodworking, at Hall 015, Stand F33 from 26 - 30 May 2025 in Hannover, Germany. At the event, Cyncly will invite manufacturers to rethink their production with the industry’s most complete, integrated software for high-end, custom furniture and cabinet manufacturing. Cyncly’s software brings the latest technology and innovations to help make manufacturing smarter, more transparent, and more efficient. Attendees will learn how they can benefit from Cyncly’s user-friendly sales tools and efficient production management to exceed consumer expectations and increase profits.

“This year at LIGNA, visitors will see how Cyncly software including 3CAD, Insight, and Mozaik can help manufacturers of all sizes operate more efficiently and win more customers,” said Karl Fuchs. “Cyncly offers something that no other software provider can: a truly integrated, end-to-end solution that helps manufacturers connect every process. We’re excited to show the benefits of taking control over every step of your operations, from selling to building to delivering high-quality products – benefits like greater profitability, more flexibility, and faster production.”

At this year’s event, Cyncly will highlight two key products for manufacturers: 3CAD and Insight. 3CAD is a powerful visual Configure, Price, Quote (vCPQ) software solution that helps manufacturers streamline the sales-to-production process in a single platform. Insight is a comprehensive ERP, MES and WMS software solution that helps manufacturers automate processes, reduce waste, and optimize efficiency across operations. Cyncly will also showcase Mozaik, a complete CNC software solution designed to meet the needs of any custom cabinet shop.

Highlights of the event will include:

Visual Order Configuration through integration of 3CAD and Insight

Visual Order Configuration (VOC) is an essential tool for manufacturers navigating the challenges of customization and precision. Through integration of 3CAD and Insight, manufacturers can turn abstract data into clear visuals, making every order easier to understand and validate in real time. Customizable workflows ensure that no step is missed, reducing manual errors and increasing accuracy. The result is that manufacturers can reduce errors, cut costs, and ensure products meet consumer expectations every time.

Visual Shopfloor for real-time insights

Insight provides a new feature, Visual Shopfloor, for real-time monitoring and visualization of all floor activities. Users gain a bird's-eye view of operations and can dive deep into

performance metrics to streamline processes. With customizable dashboards and role-specific insights, Visual Shopfloor offers visibility that not only enhances decision-making but also boosts productivity and operational efficiency.

LeapThought Showcases AI Innovation at buildingSMART Summit and BuildTech Asia 2025

18 March 2025

LeapThought is proud to be a Platinum Sponsor of the buildingSMART International Summit and a Silver Sponsor at BuildTech Asia 2025 in Singapore (March 18-20, 2025)—reinforcing our commitment to openBIM, AI-driven automation, and digital transformation in the built environment.

As the AECO industry moves toward greater data intelligence, automation, and interoperability, LeapThought is at the forefront—bringing real-world AI applications to design, construction, and asset management. We are excited to showcase **GenieHQ, our new command-driven AI capability** within FULCRUMHQ, designed to help AECO professionals streamline compliance, optimize workflows, and unlock powerful insights from their data.

At these events, we'll be speaking on key industry topics and demonstrating how AI-powered digital workflows are transforming regulatory approvals, compliance automation, and data-driven decision-making.

Where to Find Us in Singapore

📍 **Key Sessions & Panels**

✔ **March 18, 11:00am (UTC+8) – Keynote**
LeapThought Chairman, CEO, and Founder Ratnakar Garikipati will explore how AI and machine learning leverage open data to reshape the built environment, making design, compliance, and asset management more seamless and intelligent.

✔ **March 18, 16:30 (UTC+8) – Interoperability Panel**
LeapThought joins Autodesk, Bentley, Nemetschek, Esri & Dell to discuss the future of openBIM, interoperability, and collaboration across the industry.

📍 **Live Demos & Booth**

✔ **March 18-20 – Visit Booth B06 at BuildTech Asia**
Experience live demonstrations of FULCRUMHQ and GenieHQ, showcasing how AI-powered automation, real-time compliance, and intelligent data insights are transforming project delivery at scale.

Join the Conversation

From AI-driven approvals to automated model checking and seamless regulatory compliance, the industry is evolving fast. Let's explore what's next.

Check out the full event schedule & learn more!

- View buildingSmart Summit Singapore schedule

- Register for BuildTech Asia

Nemetschek Group Debuts at BuildTech Asia 2025 and Strengthens Presence at buildingSMART International Summit 2025

18 March 2025

The Nemetschek Group, a leading software provider for the AEC/O and media industry, will showcase its cutting-edge digital solutions at BuildTech Asia 2025 in Singapore from 18 to 20 March. Featuring Nemetschek brands ALLPLAN, Bluebeam, dRofus, Nemetschek dTwin, GRAPHISOFT, Solibri, and Vectorworks, Nemetschek reaffirms its commitment to driving AI, sustainability and open standards in the AEC/O industry.

Attendees can visit the Nemetschek booth (Hall 3, Booth J09) to experience an innovative new setup that highlights real-world workflows together with traditional product-focused approach. With a strong presence in both the exhibition and summit areas, Nemetschek is set to test the waters at BuildTech Asia while leveraging its reputation as global industry leader to shaping the discussion with our thought leaders in AI, sustainability and interoperability.

Asia's leading trade event for the construction and built environment ecosystem will take place alongside the buildingSMART International Summit, a leading global platform dedicated to advancing the digital transformation and global industry standards of the built environment. This collaboration will bring together key stakeholders from around the world to foster innovation, explore emerging trends, and shape the future of smart construction and digital technologies such as openBIM. By engaging with industry leaders and showcasing innovative workflows dedicated to Integrated Digital Delivery (IDD), Nemetschek aims to demonstrate how digital solutions can drive greater efficiency and sustainability in the built environment.

The Nemetschek Group is set to play a key role in the thought leadership discussions at both events:

- 18 March 2025 – 09:25 AM: Opening Keynote – *"Bridging Innovations: Interoperability, AI, and Sustainability in AEC/O"*
    - Location: buildingSMART International Summit
    - NGroup Speaker: Marc Nézet, Chief Strategy Officer
- 18 March 2025 – 4:30 PM: *"buildingSMART: Enabling Interoperability with AI, Digital Twins and openBIM"*
    - Location: Hall 3, BTA Conference Stage 1
    - Session starts at 16:00 with two presentations first.
    - NGroup Speaker: Bjørn K. Stangeland, Head of Strategic Partnerships
    - Also invited: Autodesk, Esri, Bentley & Dell
- 19 March 2025 – 11:00 AM: *"In Conversation with Nemetschek & Autodesk: The Past, Present & Future of Interoperability Workflows"*

- Location: buildingSMART International Summit
- NGroup Speakers: Marc Nézet, Chief Strategy Officer & Bjørn K. Stangeland, Head of Strategic Partnerships - Planning & Design Division

Novus Nexus participation at NAFEMS World Congress in Austria

18 March 2025

Together with technology partner VCollab, team members from Novus Nexus will host a booth during this year's World Congress.

The company's co-founder and CEO will also present in the Simulation Democratization circuit referencing Novus Nexus' recently accepted paper, "Democratization of Engineering Simulation: Enabling Technologies and Organizational Shift", demonstrating the effects of embracing a CAE ready CAD approach together with an Abstract Modeling automation strategy to yield big efficiency gains in process and human resources, consistent use of best practice for comparable results analysis, and preservation of corporate simulation expertise.

PROLIM to Showcase PROMIS – Digital Manufacturing at Hannover Messe 2025

19 March 2025

PROLIM, a global leader in digital transformation, an Advanced Consulting Certified AWS Partner, and a Siemens Platinum Partner, is set to showcase its revolutionary PROMIS Digital Manufacturing Platform at Hannover Messe 2025, taking place from March 31 to April 4 in Hanover, Germany.

At the event, PROLIM will demonstrate how PROMIS is reshaping the manufacturing industry by providing real-time visibility, AI-driven analytics, and smart automation. As a cutting-edge Digital Manufacturing Platform, PROMIS integrates data across production, quality, maintenance, inventory, and workforce management—empowering businesses to innovate faster, optimize performance, and drive sustainable success.

Transforming Manufacturing with PROMIS

“PROMIS is designed to bridge the gap between traditional manufacturing and Industry 4.0 by offering a scalable and intelligent digital ecosystem,” said Srinath Koppa, Managing Director of PROLIM. “With real-time insights and seamless integration capabilities, manufacturers can make informed decisions that enhance efficiency, reduce costs, and drive innovation.”

With industries rapidly embracing digital transformation, PROMIS delivers a unified, real-time view of manufacturing operations, ensuring seamless connectivity between machines, processes, and enterprise systems.

Key features include:

- Unified View: Gain a comprehensive overview of all operations from a single interface.
- Real-Time Insights: Leverage live data dashboards for production efficiency and quality monitoring.

- Advanced Analytics: Harness AI-driven reports and predictive insights.
- Smart Automation: Automate workflows and receive proactive alerts.
- Seamless Integration: Easily connect with SAP, Teamcenter, Opcenter, and other enterprise solutions.
- Scalable & Future-Ready: Adaptable, modular architecture to meet evolving business needs.

Key Benefits of PROMIS Digital Manufacturing

- Boost Operational Efficiency with real-time monitoring and data-driven decision-making.
- Improve Product Quality through enhanced traceability and analytics.
- Ensure Easy Compliance with industry standards and regulations.
- Flexible Deployment Options tailored to specific manufacturing needs.

By leveraging Siemens' Industrial Edge technology, PROMIS optimizes the entire digital manufacturing lifecycle, enhancing efficiency, reducing downtime, and ensuring data-driven decision-making.

Industry Perspective

"As manufacturing companies navigate the complexities of Industry 4.0, having a digital manufacturing solution that offers real-time insights and AI-driven automation is crucial," said Prabhu Patil, Founder & CEO, PROLIM. "PROMIS empowers manufacturers with a data-driven approach to enhance productivity, quality, and overall operational excellence. We are excited to showcase its capabilities at Hannover Messe 2025 and help businesses accelerate their digital transformation journey."

Experience PROMIS at Hannover Messe 2025

Visitors to PROLIM's booth at Hannover Messe 2025 will witness live demonstrations of PROMIS in action and explore how the platform can revolutionize their manufacturing operations. Our experts will be available for discussions, product walkthroughs, and in-depth consultations on the future of digital manufacturing.

Qualtrics to Introduce Experience Agents at X4 Conference, Redefining the Future of Experience Management

17 March 2025

Qualtrics, the leader and creator of the experience management category, unveiled Experience Agents™: highly specialized AI agents that autonomously deliver exceptional customer and employee experiences at scale across every channel and interaction.

Unlike transactional AI agents that promise efficiency, Experience Agents are designed to interact directly with customers and employees. They are rooted in the unique ability of Qualtrics® to understand the human experience. Experience Agents will interact directly with customers and employees in personalized, proactive and empathetic ways that increase loyalty,

boost employee engagement, and drive greater business insights and opportunities. The specialized agents scale across every channel and touchpoint, respond in-the-moment to fix or improve experiences, and track market trends to pursue strategic opportunities.

With Experience Agents, companies no longer have to wait to take action from feedback from surveys, call center chats, online reviews, and online interactions. Agents can step right into the customer interaction and resolve the issue in the moment in ways tailored to individual preferences and needs.

For example, a sports fan might leave feedback that the food service was slow at a recent game. Rather than follow up later, an Experience Agent will respond in real time within the survey to learn more about the problem, and resolve the issue with an on-brand response personalized to the fan.

In the future, Qualtrics expects Experience Agents to engage not only in moments of friction, but proactively based on previous interactions with customers and employees, brand expertise, and industry context. They will be able to anticipate needs and proactively engage with customers and employees to continually elevate the experience.

“The best organizations in the world trust Qualtrics AI today to make every connection count, and Experience Agents represent a radical shift in what’s possible from an Experience Management platform,” said Qualtrics CEO Zig Serafin. “Only Qualtrics has the deep human understanding and industry-specific expertise to power a true agentic experience across billions of touch points, on every channel, and in every moment that matters.”

“Qualtrics continues to show its innovative leadership with the introduction of Experience Agents to not only further improve customer experiences, but to make paradigm shifts in the way businesses can operate in the world where Customer Experience continues to be a priority,” said Lou Reinemann, Research Director, Voice of the Customer and Customer Success, IDC.

“Partnering with Qualtrics is allowing us to provide personalized, meaningful responses to our clients’ concerns at scale in an efficient and consistent way,” said Ilana Boyum, Vice President, Voice of the Customer and Customer Insights, Fiserv

“Proactive intervention is key to connecting our patients with care and bolstering their engagement. By leveraging Qualtrics Agentic AI, we can anticipate patient needs, remove barriers to access, and create more seamless experiences; it’s what ensures better access, better experiences, and ultimately, better outcomes for our patients,” said Maggie Gentry, Director, Experience Analytics, Community Health Network.

“Leading the way in healthcare innovation means embracing the most advanced tools available. Collaborating with Qualtrics will enable us to deploy agentic AI to better understand and respond to the needs of our patients, reinforcing our commitment to setting new standards in care excellence,” said David Entwistle, President and Chief Executive Officer, Stanford Health.

Experience Agents on show at Qualtrics X4 2025

Qualtrics will introduce its new Experience Agents at the Qualtrics X4® 2025 Experience Management Summit, which kicks off in Salt Lake City on Tuesday. The annual event brings together thousands of C-suite executives, thought leaders, and Experience Management professionals to hear how the world's leading brands are delivering business success by elevating the customer and employee experience.

This year's X4 will feature keynote conversations with Donna Morris, Executive Vice President & Chief People Officer at Walmart Inc; Bill McDermott, Chairman and Chief Executive Officer of ServiceNow; Rob Swain, Chief Operations Officer at KFC; and Tonya Webster, Chief Customer Experience Officer for New York state; as well as influential music producer Rick Rubin, Hall of Fame Marketing Executive Bozoma Saint John, and renowned business leader Danny Meyer.

The three-day event includes more than 100 sessions from businesses including Hilton, adidas, Ford, Verizon, Google, LinkedIn, New Balance, Workday, Indeed, Roblox, Shake Shack and more. More than 20+ Qualtrics Partners will be at X4 2025 to showcase how attendees can drive value from their experience management programs, including Diamond Partners Bain, commonFont, and EY.

Revolution in Simulation Hosts Webinar on AI & Machine Learning in Engineering Design

20 March 2025

Revolution in Simulation (Rev-Sim) announces an upcoming webinar, "Leveraging AI/ML to Augment State-of-the-Art Design and Simulation," on April 3, 2024, at 11 AM ET.

Justin Hodges, AI/ML Technical Specialist at Siemens Digital Industries Software, will explore the transformative role of artificial intelligence (AI) and machine learning (ML) in engineering design and simulation. Attendees will gain insights into how AI-driven technologies enhance efficiency, optimize workflows, and accelerate innovation across industries.

Engineers, designers, and simulation professionals are encouraged to attend this expert-led discussion to stay ahead of the curve in the rapidly evolving AI/ML landscape.

For more details and to register, visit this page or go to rev-sim.org.

Rockwell Automation Showcases Emulate3D Factory Test for the First Time at NVIDIA GTC 2025

13 March 2025

Rockwell Automation, the world's largest company dedicated to industrial automation and digital transformation, will debut its new Emulate3D® Factory Test ™ capabilities at NVIDIA GTC 2025. This first public showcase will demonstrate how the solution enables factory-scale virtual controls testing, helping manufacturers conduct Factory Acceptance Testing to validate automation systems before deployment. Attendees will get an exclusive look at how Factory Test, integrated with NVIDIA Omniverse ™ APIs and OpenUSD, is redefining digital twin technology with high-fidelity simulation and real-time collaboration.

"Manufacturers need scalable, high-fidelity digital twins to optimize system performance and accelerate commissioning times," said Matheus Bulho, senior vice president, software and control, Rockwell Automation. "With the launch of Emulate3D Factory Test, we're providing a solution that allows engineering teams to test, iterate and validate automation systems at full factory scale – leveraging the power of NVIDIA Omniverse to deliver unprecedented visualization and collaboration capabilities."

Factories are inherently complex environments, with thousands of moving parts, high-speed machinery and intricate system interactions. Traditional simulation tools often struggle to model these environments with sufficient fidelity and scale. Factory Test overcomes these challenges with a modular modeling approach, enabling teams to build, verify and combine mechanical, electrical, controls, process, robotics and device behavior models into a unified digital twin.

At launch, Emulate3D Factory Test will introduce key capabilities, including:

- **Multi-model orchestration –**Synchronizing multiple system models for factory-scale testing
- **Modern DevOps workflows –**Streamlining version control, testing and deployment while allowing all stakeholders to work from the latest version, track changes in real time and maintain alignment across teams
- **Test Runner –**Enabling repeatable, automated testing at scale
- **Fault Framework –**Simulating fault conditions to assess system resilience
- **Advanced full-factory visualization –**Powered by NVIDIA Omniverse APIs, initially available via private preview.

"NVIDIA Omniverse and OpenUSD are redefining how industries use AI-driven simulation to optimize design and operations," said Brian Harrison, senior director of Omniverse Digital Twins at NVIDIA. "With Emulate3D Factory Test, Rockwell Automation is integrating Omniverse technologies and OpenUSD to bring next-generation digital twins to the industrial sector, helping teams simulate, validate and optimize complex manufacturing systems at an unprecedented scale."

The debut of Factory Test coincides with NVIDIA GTC 2025, held March 17-21 in San Jose, Calif. As part of the event, Rockwell Automation experts will present "Exploring Factory-Scale Digital Twin Simulation with Rockwell Automation" on March 20 at 11 a.m. PDT. This session will showcase how Emulate3D Factory Test, with advanced capabilities enabled by NVIDIA Omniverse APIs, is transforming industrial automation through AI-driven simulation and digital twin technology.

This announcement builds upon Rockwell's November 2024 announcement, which introduced the collaboration with NVIDIA to bring AI and physics-based simulation to industrial automation. The introduction of Factory Test represents another milestone in the journey toward more intelligent, autonomous operations.

Siemens to show innovative software solutions for emissions and supply chain management in logistics

18 March 2025

Siemens Digital Industries Software announced that it will present its latest innovations for the digital planning and control of supply chains and enable crisis-resistant supply chain orchestration at transport logistic in Munich from June 2 to 5, 2025.

Siemens' presence includes demonstrations of solutions for automated transport planning, the use of the Digital Twin as an optimization tool in supply chain management and a control tower that can be used to synchronize production and delivery processes in real time.

"At transport logistic 2025, Siemens will showcase our scalable IT solutions that enable industrial and logistics companies to manage their logistics and supply chain networks efficiently and sustainably - especially with regard to current and future challenges," says Volker Albrecht, CEO of Siemens Digital Logistics. "Our portfolio provides customers with numerous tools that enable them to ensure reliable supply to plants and warehouses while achieving a return on investment, for example through higher resource utilization, lower costs and a better carbon footprint."

The solutions presented include the AX4 Transport Optimizer, which uses advanced algorithms to automate and optimize complex tasks such as shipment grouping, route planning and cost management. Transport planning based on vehicle configurations takes into account metrics such as weight, volume, number of pallets and variable and fixed cost structures. Modern algorithms enable the automated creation of cost-optimized transport plans, even for multi-stop transports with several pick-up and delivery locations. Real-time data integration is available as an option, allowing transport plans to be adjusted dynamically. This allows companies to react flexibly to changing conditions and requirements.

Additionally, at transport logistic, Siemens will showcase practical solutions for resilient and cost-efficient supply chains in industry and trade with dynamic planning tools such as the Digital Twin. The Supply Chain Suite allows various scenarios to be analyzed and simulated. For example, sourcing strategies and network configurations can be run through in detail before their operational implementation and their results predicted. In combination with Opcenter™ Intraplant Logistics (IPL), the optimization options extend from the supply chain to the warehouse.

Digital solutions such as Siemens Digital Logistics' Control Tower ensure end-to-end transparency across all production and logistics processes. This bundles and consolidates data across systems, enabling seamless synchronization of production and logistics processes. With its capabilities in the area of supply chain visibility, the Control Tower also forms an ideal ecosystem for implementing a functioning circular economy.

The solutions from Siemens Digital Logistics will be presented at transport logistic in hall B1, booth 113/214. SimPlan AG, one of the leading providers in the field of simulation in Germany, and Wagner Informatik GmbH, will be represented as a co-exhibitors.

Financial News

Accenture Reports Second-Quarter Fiscal 2025 Results

20 March 2025

Accenture reported financial results for the second quarter of fiscal 2025 ended February 28, 2025.

Click to download the Q2 FY25 and Q2 YTD FY25 earnings infographics.

Nemetschek Group: Strong revenue growth of 17% to 19% with continued high profitability expected in the financial year 2025

20 March 2025

The Nemetschek Group, a global provider of software solutions for the building and media industry, reached or even clearly exceeded all its targets for the financial year 2024. This was achieved despite a continued challenging market environment in Europe as well as the ongoing transition of the business model to subscription and SaaS offerings. Furthermore, the Nemetschek Group is also optimistic for the current financial year: The MDAX and TecDAX-listed Group expects to continue its profitable growth course in 2025 with a strong double-digit revenue growth of 17% to 19% and a sustained high EBITDA margin of around 31%. This includes a revenue contribution of around 350 basis points from GoCanvas, which was acquired in 2024.

"2024 was another very successful year for the Nemetschek Group thanks to our resilient business model with a high share of recurring revenues, our broad global presence and our innovative solutions," said Yves Padrines, CEO of the Nemetschek Group. "We have also made significant progress with our strategic initiatives, including the well-advanced transition of our business model to subscription and SaaS, new features in the area of artificial intelligence and the acquisition of GoCanvas - the largest acquisition in the company's history. These milestones strengthen our foundation for the next phase of growth. Together with the structural growth drivers in our industries, which are becoming even more relevant due to the increasing cost pressure in the construction industry, all signs are once again pointing to continued substantial growth and the continuation of our success story in 2025."

Key performance indicators for the financial year 2024

- Group revenue grew by 16.9% to EUR 995.6 million in 2024 (currency-adjusted: 17.2%) with a strong year-end business. The revenue contribution from the first-time consolidation of GoCanvas as of July 1, 2024, was in line with the outlook at around 3 percentage points of total growth. Organic (excluding GoCanvas) and currency-adjusted revenue growth amounted to 14.0% and was thus above the targeted range of 10% to 11%.

- Annual recurring revenue (ARR) increased by 41.9% (currency-adjusted: 41.6%) to EUR 1,019.9 million, with organic growth amounting to 34.6% (currency-adjusted: 34.2%). The main driver was the revenue from subscription and SaaS models with an increase of 88.1% (organic: 79.5%). In line with the group strategy, the share of recurring revenue as a percentage of total revenue grew to 86.5% (previous year: 76.6%) and was therefore above the target share of around 85%.
- Consolidated earnings before interest, taxes, depreciation and amortization (EBITDA), including all transformation and acquisition-related effects, increased by 16.8% to EUR 301.0 million. At 30.2% and 31.1% respectively, the reported EBITDA margin (including GoCanvas) and the organic EBITDA margin (excluding the dilution effect due to the still lower profitability of GoCanvas and effects from the purchase price allocation) were slightly above the upper end of the forecasted range of 29% to 30% (including GoCanvas) and 30% to 31% (organic, i.e. excluding GoCanvas).
- Net income for the year grew by 8.8% to EUR 175.4 million due to acquisition-related effects, which corresponds to earnings per share of EUR 1.52.
- Based on the very positive business development in 2024, the Executive Board and Supervisory Board will propose a dividend increase to EUR 0.55 per share (previous year: EUR 0.48 per share) at the Annual General Meeting. This would be the twelfth consecutive dividend increase by the Nemetschek Group.

Strategic Highlights in FY-2024

- The group-wide transition of the business model to subscription and SaaS progressed successfully and according to plan in 2024. In addition to the Build segment, in which the Bluebeam brand successfully completed its transition to a subscription-based business model, the Design segment as well as the purely SaaS-based revenue from GoCanvas were main drivers.
- In addition, the Nemetschek Group continued to drive forward its internationalization as well as the Group-wide go-to-market approach. The revenue growth abroad increased over-proportionally by around 21% in 2024. Nemetschek further expanded its presence in high-growth regions such as India - including the opening of a go-to-market office in Mumbai.
- Innovation remains a key success factor. With the AI & Data Innovation Hub, the Nemetschek Group is strengthening synergies, increasing efficiency and driving forward the development of ethical and trustworthy AI-supported solutions. Sustainability is also playing an even greater role in the Group strategy. Through innovative solutions, Nemetschek is setting new standards for a resource-efficient construction industry.
- Acquisitions and investments in start-ups are key components of the growth strategy. The acquisition of the US based company, GoCanvas, expanded the portfolio to include SaaS solutions in the area of field management for greater safety and efficiency on construction sites. The Nemetschek Group also continuously invests in innovative start-

ups. In the last three years, it has acquired stakes in more than a dozen companies that further optimize the building process through the use of new technologies such as AI.

- In addition, the Nemetschek Group is focusing on greater operational excellence. As part of its Business Enablement initiative, complexities in the Group structure have been further reduced. The harmonization and optimization of processes and the tool & support system landscape leads to improved organizational efficiency and effectiveness.

Segment Developments in 2024 (see table)

- In the Design segment, revenue in 2024 grew by 13.1% (currency-adjusted: 13.7%) to EUR 488.8 million, also driven by a very strong business performance at year-end. The last time sale of licenses and successful campaigns to migrate existing maintenance customers to subscription contracts had a positive effect. The EBITDA margin expanded to 29.6% (previous year: 27.7%) while simultaneously transitioning the business to subscription and SaaS models.
- In the Build segment, the GoCanvas business has been consolidated since July 1, 2024. Segment revenue therefore grew significantly by 28.4% (currency-adjusted: 28.4%) to EUR 340.7 million. However, the segment also recorded strong organic growth of 18.0% (currency-adjusted: 18.0%). The EBITDA margin decreased to 31.8% due to the dilutive effect of GoCanvas. The organic margin (excluding GoCanvas) was 34.6%, around the same level as in the previous year (35.1%).
- In the Manage segment, revenue amounted to EUR 49.9 million, a slight decline of -1.1% (currency-adjusted: -1.1%). The discontinuity of a unit for consulting services with a low profitability impacted the revenue development. In contrast, the EBITDA margin increased significantly to 10.2% (previous year: 3.6%).
- In the Media segment, revenues grew by 7.8% (currency-adjusted: 8.2%) to EUR 120.1 million. The Maxon brand thus again grew faster than the underlying market, although its business was still impacted by the ongoing restrained demand environment in the important US market, which is mainly a result of the long-lasting strike in Hollywood in the previous year. The EBITDA margin remained at a high level and reached 35.7% (previous year: 38.7%).

Outlook 2025: Continuation of the profitable growth path

The Nemetschek Group's Executive Board looks positively on the financial year 2025 despite the overall restrained economic and industry-specific conditions. The structural growth drivers for the Nemetschek Group, such as the low level of digitalization or the need for more efficiency and sustainability in the construction industry, are fully intact, and are becoming even more important in view of the crisis in the construction industry. In the short term, the ongoing transition to subscriptions and SaaS models, particularly in the design segment, will have a temporary accounting-related dampening effect on revenue growth and profitability. However, in the medium and long term, it leads to more plannable and more resilient revenues.

For the financial year 2025, the Executive Board expects a currency-adjusted revenue growth for the Nemetschek Group (including GoCanvas) in a range between 17% and 19%. This includes an M&A-related revenue contribution from the acquisition of GoCanvas of around 350 basis points. The EBITDA margin for the Nemetschek Group, including the dilutive effect of GoCanvas, is expected to be around 31%.

These figures do not yet reflect the full potential of the GoCanvas acquisition, as both the revenue and EBITDA contribution in the first half of 2025 are still reduced due to IFRS-related purchase price allocation effects.

These forecasts are subject to the proviso that the global economic and sector-specific conditions do not deteriorate significantly in the current financial year. Furthermore, no additional negative effects of the various ongoing geopolitical crises are reflected in the outlook.

Implementation Investments

Barker & Stonehouse Selects Centric Software to Accelerate Time to Market and Empower Supply Chain Visibility

18 March 2025

Centric Software® is pleased to announce that Barker & Stonehouse has chosen Centric PLM™ to drive streamlined operations and bolster supply chain transparency. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, luxury, footwear, outdoor, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

Founded in 1946, Barker & Stonehouse operates 14 stores across the UK, specializing in high-quality furniture and home accessories. Renowned for exceptional customer service and durable products, the company, founded by Charles Barker and Alex Stonehouse, generates an annual turnover exceeding £100M GBP.

As a result of its rapid national growth, the company has encountered growing pains and faced challenges with siloed data across spreadsheets, lengthy lead times and disjointed workflows that hinder collaboration and visibility across the product lifecycle. In 2023, Warren Hampton joined as CTO, tasked with driving digital transformation to overcome these challenges.

“We need a solution to simplify our processes, speed up our go-to-market strategy and integrate our teams seamlessly,” shares Warren. “After hearing about the issues our buying and merchandising teams are facing, I realized ‘I’ve been down this route before.’ Choosing Centric was a no-brainer, I didn’t have to think about anyone else.”

Explaining why Centric Software stood out from the crowd, Warren cites his previous experience with the platform and Centric team.

"We implemented Centric at my former company and I just couldn't fault it. Everything was on time and under budget and the people there were so happy with it," enthuses Warren. "So why search again when I already know what works? When you look at a Centric screen, it all makes sense…everyone can use it!"

With Centric PLM, Barker & Stonehouse anticipate significant operational improvements, including enhanced supplier management and better support for inventory and quality control teams.

"Our goal is to streamline the entire product journey and significantly reduce our lead times that can currently stretch up to twelve months for handcrafted items—which is no longer acceptable in today's market," explains Warren. "We count on Centric PLM to help us innovate and remain competitive in the industry."

Another key focus for the company is improving supplier compliance and optimizing sustainable practices to prioritize eco-friendly product development.

"We pride ourselves on our high sustainability standards, but we're only as good as our factories and warehouses are. With Centric, we can monitor compliance more effectively, introduce more comprehensive auditing processes and gain greater confidence in our CSR achievements."

Further down the line, the company has plans to integrate Centric PLM with its ERP system and website, creating a unified source of truth for all product data.

"Centralizing product care documents and specifications will simplify operations and improve the quality of our customer support," notes Warren. "Having accurate, up-to-date information that is easily accessible across all teams will be a game-changer."

Barker & Stonehouse are optimistic for a successful partnership with Centric

Software and look forward to leveraging the power of PLM to future proof their operations.

"Implementing Centric PLM will be one of our most impactful digitalization projects. The support I've received from Centric in the past has been second to none and we're confident they'll help us achieve our long-term growth goals."

"We are thrilled to support Barker & Stonehouse on their digital transformation journey," says Fabrice Canonge, President of Centric Software. "Our mission is to equip retailers with the tools they need to uphold their commitment to quality and maintain a competitive edge in the market."

BREITNER implements CIM Database PLM for central product data management

17 March 2025

The manufacturer of packaging machinery is replacing its previous keytech environment with CIM Database PLM. With CONTACT's PLM system, BREITNER benefits from consistently available data along the entire product development process.

BREITNER specializes in machinery for liquid filling. The mechanical engineering company is transitioning from its existing keytech environment to CONTACT Software's CIM Database PLM, providing access to standardized information for its development team with a single source of truth.

The initial implementation phase focuses on product data management. SolidWorks is integrated with the PLM system for bidirectional data exchange, while the macros developed by BREITNER for attribute generation in SolidWorks remain fully functional – a decisive advantage for the machinery manufacturer. The PLM system is also connected with the ERP system Sivas.

In the second phase, the company plans to link the E-CAD software WSCAD for electrical design and establish interfaces with production. Similar database structures between the legacy document and product data management system keytech and CIM Database with its modular architecture ensure a gradual and resource-efficient transition.

"With CIM Database, we remain flexible thanks to the system's open and scalable architecture. CONTACT offers us a high degree of standardization while allowing us to tailor the PLM system to our specific needs," says Andreas Müller, Senior ERP Consultant at BREITNER. Once the PLM system is implemented, the company plans to introduce CONTACT Project Office for project management.

In the next step, BREITNER aims to digitalize its service business with CONTACT Elements for IoT. This will enable the machinery specialist to manage customer inquiries more quickly, analyze relevant information, share data across departments, and automate documentation. The goal is to ensure more efficient service processes and greater customer satisfaction.

BREITNER is a specialist in filling systems and packaging machinery for the pharmaceutical and food industries, as well as for manufacturers of chemical and cosmetic products. Founded in 1961, the family-owned company generates approximately 20 million Euro in annual revenue. Around 100 employees work at its site in Schwäbisch Hall, Germany.

DEICHMANN Steps into the Future with Centric PLM & Visual Assortment Boards

17 March 2025

Centric Software® is pleased to announce that DEICHMANN has selected Centric PLM™ and Centric Visual Boards™ to drive targeted product development and boost transparency across the product lifecycle. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, buy, make, price, allocate, sell and replenish products such as fashion, outdoor, luxury, footwear, outdoor, home and related goods like cosmetics & personal care as well as multi-category retail to achieve strategic and operational digital transformation goals.

DEICHMANN was founded in 1913 by Heinrich Deichmann and today is a proud third-generation family-owned business. It is the footwear retail market leader in Germany and Europe and a key player in North America with a sales volume of nearly €9 billion in 2023. Headquartered in Essen, it operates more than 4,700 stores in 34 countries, sells more than 184

million shoes per year and has 49,000 employees. It is a people-focused company with a mission to serve its customers, employees and those in need.

Peter Csapo, Head of Strategy & Corporate Development at DEICHMANN describes how Centric will support DEICHMANN's entire product development process and improve the overall data quality.

"We're currently undergoing the biggest transformation in our company's history, and the world around us is evolving faster than ever," he explains. "We always strive to bring our customers the best price-value ratio on the market, and through leveraging Centric solutions, we aim to further enhance our product offering. Specifically, we're looking to boost transparency, improve data quality and work more efficiently."

DEICHMANN aims to leverage Centric PLM's AI-enhanced functionality and the collaborative, visual aspects of the Centric Visual Boards to empower its product development and buying teams to develop more targeted products, minimize excess samples and cut unnecessary costs.

"With Centric solutions, we anticipate a more structured workflow to reduce over-development and focus on creating the shoes our customers actually want," shares Rainer Ochsenkiel, Chief Purchasing Officer Germany & International Sourcing.

"With Centric Visual Assortment Boards, we can give our international colleagues and subsidiaries a clear, intuitive view of the pipeline," elaborates Csapo. "That leads to us being able to make decisions about which styles to buy and bundle order quantities at our factories more efficiently."

The DEICHMANN team was impressed with the powerful functionality of Centric solutions and Csapo is optimistic that the implementation and adoption will be well-received.

"We are proud that DEICHMANN, the market leader in Europe's footwear industry, has selected Centric Software as its digital transformation partner," says Fabrice Canonge, President of Centric Software. "We look forward to a successful implementation and to collaborating over the long term."

Parfois Selects DXC as Data Intelligence Partner to Improve Customer Experience

17 March 2025

DXC Technology, a leading Fortune 500 global technology services provider, has been selected by Parfois Group, a leading Portuguese fashion brand, to improve and enhance the customer experience with personalized recommendations based on data-driven insights.

With a footprint of more than 1,000 physical stores in 67 countries and a constantly growing online sales platform, Parfois has become one of the biggest Portuguese brands in the demanding international fashion market. It is now reinforcing its commitment to innovation by collaborating with DXC. This partnership is part of the group's global Data Intelligence strategy, with the aim of leveraging data-driven insights to further personalize the shopping experience, offering relevant products tailored to the preferences of its customers.

DXC will help the Parfois Group implement the Snowflake data platform to improve operational efficiency and leverage insights to transform the customer experience. The solution will enable Parfois to analyze customer data through predictive AI models using near real-time data. For example, Parfois' leaders will have access to a navigation panel with management indicators, alerts and information about customer behavioral patterns enabling informed decision-making.

"From the implementation of an analytics platform, through data engineering, to the development of artificial intelligence models and business intelligence dashboards, our partnership with Parfois is all about client centricity – something we are passionate about at DXC," said Nuno Moura Pinheiro, Head of Data & AI at DXC Technology in Portugal. "It is a privilege to contribute to the differentiation of this prestigious Portuguese brand, providing leaders with the insights they need to make timely and informed decisions."

DXC Technology helps the world's most innovative organizations flourish in this era of AI, delivering the services and solutions that customers depend on. The company helps global companies run their mission-critical systems and operations while modernizing IT. Its leadership in IT services has been reaffirmed in the recent Whitelane Research's 2024/2025 European IT Sourcing Study.

TCS Partners with Air New Zealand to Drive AI-Led Transformation, Enhance Passenger Experience

19 March 2025

Tata Consultancy Services (TCS), a global leader in IT services, consulting, and business solutions, has signed a five-year partnership with Air New Zealand to modernize the airline's digital infrastructure and position it at the forefront of AI-driven innovation. This collaboration aims to enhance Air New Zealand's digital capabilities, improve customer experience, and drive operational efficiencies across various aspects of its business, including fleet management, crew scheduling, and ground services.

Announced at a formal signing event at TCS' Banyan Park Campus in Mumbai, the agreement supports Air New Zealand's vision to become the world's most digitally advanced airline. The event was attended by New Zealand Prime Minister the Right Honourable Christopher Luxon, Tata Group Chairman, Natarajan Chandrasekaran, Air New Zealand Chief Executive Officer Greg Foran, and TCS Chief Executive Officer and Managing Director K. Krithivasan.

This partnership strengthens TCS' commitment to New Zealand, where it has been a trusted partner for digital transformation for over 37 years, driving innovation across industries. With an office in Auckland and a team of 460 professionals, TCS serves 20+ blue-chip customers in the region across banking, retail, construction, manufacturing, and local government. Through the TCS Co-Innovation Network™ (COIN™), the organization works closely with top universities in New Zealand to advance research in cybersecurity, sustainability, and AI. TCS also led the development of the Asia Pacific Digital Sustainability Index in 2022, shaping the region's approach to sustainable digital transformation. Beyond business, TCS is committed to fostering digital talent in New Zealand. Its flagship STEM empowerment programs, goIT™ and goIT™ Girls in the region are inspiring students to pursue careers in technology and innovation.

Greg Foran, Chief Executive Officer, Air New Zealand, said, *"Leveraging TCS' expertise in cutting-edge technologies will help us enhance the customer experience, streamline operations, and reinforce our commitment to cybersecurity and data protection. This collaboration aligns with our vision to be a digitally enabled airline of the future. We began working with TCS in September 2024 and in just a few short months, we've seen the benefits of tapping into the depth and breadth of talent and expertise they have when it comes to digital solutions. Going forward, TCS will be an instrumental partner in helping us deliver our Cargo Digital Transformation and improvements to our Digital Retail capability. We're excited about the benefits this partnership will bring for our customers and the aviation industry."*

K. Krithivasan, Chief Executive Officer and Managing Director, TCS, said, "*We are excited to partner with Air New Zealand in its journey to become a digitally advanced airline. With our expertise in aviation, combined with our ability to drive large-scale innovation, TCS will enable Air New Zealand to set new benchmarks for efficiency, sustainability, and customer engagement. By leveraging AI, automation, and cloud technologies, we aim to reimagine operations, enhance passenger experiences, and build a more agile and resilient airline. This partnership reflects our commitment to helping global enterprises adapt, grow, and unlock new opportunities through technology.*"

Air New Zealand operates a global network offering air passenger and cargo services across 49 domestic and international destinations. Each year, the airline flies more than 15 million passengers on over 3,400 weekly flights. This transformation marks a significant step in Air New Zealand's commitment to secure, innovative, and technology-driven experiences for travelers worldwide. TCS will streamline Air New Zealand's digital services across a diverse landscape of more than 600 applications, by integrating AI-driven automation and cloud technologies into critical airline functions. This will drive innovation across cargo service, disruption management, retail offerings, maintenance systems and crew operations.

Workforce transformation will also be a key focus of this engagement, with TCS leading large-scale upskilling programs to strengthen digital capabilities across Air New Zealand's teams in AI, cybersecurity, and digital engineering. The collaboration also includes enhancements to Air New Zealand's digital retail and loyalty program experiences.

With three decades of leadership in aviation, TCS partners with the world's leading airlines, offering consulting-led approaches, cognitive-powered portfolio of business, and technology and engineering services. TCS leverages industry-specific solutions, like TCS Aviana™, a unified, autonomous, digital, cloud-ready platform for intelligent airline operations. Its contextual understanding of airline operations, coupled with its AI-led technology capabilities, will help Air New Zealand unlock new growth opportunities and drive innovation across its entire business ecosystem.

Tecsys Expands Global Reach with Roche's Adoption of Elite™ for Laboratory Inventory Management

18 March 2025

Tecsys Inc., a global leader in supply chain management solutions, announced that Roche, the world's largest biotechnology company and global leader in in-vitro diagnostics, has selected Tecsys' Elite™ platform for implementation across Roche's network of core laboratory sites in over 50 countries, with a target of a thousand installations over the next five years. Tecsys' cloud-based solution drives streamlined inventory management, enabling increased efficiency and visibility in laboratory operations.

Optimized to scale across a global network of core laboratories and clinics, Elite™ provides an intuitive and easily configurable platform that simplifies operations and reduces training overhead. With integration into Roche's SAP backend, the Tecsys solution automates the full inventory lifecycle for laboratory reagents and consumables, ensuring centralized real-time inventory visibility, usage tracking and automated replenishment workflows.

Roche's laboratory inventory management requires operational simplicity on a global scale, and Tecsys' solution supports this need with agility and precision. With deployment taking just a few days per site, Tecsys provides a scalable platform without the typical complexity of enterprise software. Elite™ enables efficient inventory management with minimal training and deployment time, allowing Roche to focus on delivering life-saving diagnostic solutions to patients.

By deploying this solution across core laboratories, Roche will benefit from a robust, cloud-native system hosted on AWS infrastructure, offering scalability and security. Laboratories using reagents and consumables now have access to a fully automated inventory management solution that monitors usage, triggers reorders and supports efficient lab operations — while reducing manual effort. Tecsys' technology is the backbone of Roche's navify® Inventory, which is part of the navify® portfolio, an ecosystem of applications and digital solutions driving operational excellence.

"We are proud to support Roche in providing cutting-edge inventory management solutions to hospitals and laboratories around the world," said Peter Brereton, president and CEO at Tecsys. "Their trust in our solution is a testament to the transformative impact of modern supply chain technology."

Roche's adoption of the cloud-based Elite™ platform further demonstrates Tecsys' role as a trusted partner for complex supply chain environments. With innovative solutions like Elite™, Tecsys continues to equip organizations to meet the demands of today's dynamic healthcare landscape.

Volvo Cars Leverages Ansys and NVIDIA GPUs to Accelerate CFD Simulations by 2.5x for the EX90 Electric Vehicle

18 March 2025

Ansys announced a significant breakthrough in aerodynamics simulations in collaboration with Volvo Cars and NVIDIA. Using the combination of eight NVIDIA Blackwell GPUs for the solver and CPU cores for meshing, the companies reduced total simulation run time from 24 hours to 6.5 — enabling multiple design iterations per day, facilitating more optimization studies for

BEVs, and accelerating time-to-market. This collaboration sets a benchmark for the automotive industry and those beyond that require precise fluid flow simulation, including aerospace, motorsports, and consumer electronics.

Volvo Cars relies on advanced computing and CFD to drive innovation and improve electric battery performance. Robust simulations are critical for reducing aerodynamic drag — a significant factor on EV range. However, high-fidelity CFD simulations can be time consuming, compute-intensive, costly, and allow little opportunity for optimization.

To improve the energy efficiency and drive range of the fully electric EX90, Volvo Cars and Ansys scaled Fluent to eight NVIDIA Blackwell GPUs, enabling an optimized end-to-end workflow wherein meshing only took one hour and the solver took 5.5 hours. Compared to solving the same simulation on cost-equivalent hardware using 2,016 CPU cores, this equates to a 2.5X speed increase in solve time. The technology combination can allow Volvo Cars to run multiple CFD simulations per day, evaluating a range of design variants to quickly enable a step change in design optimization.

“Using Ansys simulation has the potential to help our teams obtain favorable designs and carry out virtual testing in much less time than traditional approaches allow,” said Torbjörn Virdung, technical leader CFD, at Volvo Cars. “To make our products more efficient, we must first take stock of the tools and solutions we’re using to get there. In this case, the capability of Ansys Fluent can allow us not only to perform extremely high-fidelity analyses, but the added NVIDIA infrastructure supercharges the computation, so we can consider a greater number of design possibilities and reach an optimal car design faster.”

This accelerated process has the potential to further help Volvo Cars meet critical emissions, range, and efficiency standards, such as Worldwide Harmonized Light Vehicles Test Procedure (WLTP) requirements.

“This breakthrough underscores how GPU-accelerated simulation can drive innovation and get products to market faster,” said Shane Emswiler, senior vice president of products at Ansys. “The combination of high-fidelity modeling and extreme solver speed empowers customers to run more simulations and maximize the results to develop more performant products.”

“The efforts of Ansys and Volvo Cars showcase the exceptional performance and scalability of our latest Blackwell infrastructure offerings and its applicability to engineering simulation,” said Tim Costa, senior director of CAE, EDA and quantum at NVIDIA. “Together with software partners like Ansys, we are paving the way for the future of computer-aided engineering and scaling to unprecedented heights, empowering our customers to solve their most complex challenges.”

Product News

Altair One® Cloud Innovation Gateway Achieves Seamless Integration with NVIDIA Omniverse Blueprint for Real-Time Digital Twins

19 March 2025

Altair, a global leader in computational intelligence, has announced a technical integration between the NVIDIA Omniverse Blueprint for Real Time Digital Twins and the Altair One® cloud innovation gateway. The integration takes advantage of GPU acceleration, NVIDIA NIM microservices, and NVIDIA Omniverse technologies to give customers an unparalleled ability to visualize, build, edit, and interact with complex simulations and digital twins in a shared turnkey environment. More broadly, it helps organizations leverage the full potential of Altair's simulation, artificial intelligence (AI), data analytics, and high-performance computing (HPC) solutions to drive groundbreaking innovation.

"Integrating NVIDIA Blackwell acceleration, AI and Omniverse technologies into Altair One will allow Altair users to take another leap forward in their digital engineering and digital transformation efforts," said Sam Mahalingam, chief technology officer, Altair. "Integrating the Omniverse Blueprint for Real-Time Digital Twins with Altair One gives users a powerful new way to operationalize and innovate with digital twins, data, and AI in real time. Moreover, it is yet another example of how Altair is continuing to lead in all things digital engineering and digital twin."

By leveraging NVIDIA Omniverse Blueprint for Real-Time Digital Twins in Altair One, users can collaborate and simulate in a shared virtual environment in real time. The technology combines 3D design, AI, and ray tracing to create immersive digital environments that function as a next-level digital workspace for professionals in all industries. Users benefit from high-end rendering and streaming capabilities on the cloud that simplifies how software components work together in large systems, especially those used for AI, data processing, and graphics computing. The integration will open new avenues for innovation and collaboration in areas like crash and drop test simulations.

"Digital twin technology is reshaping industries and giving engineers and designers the tools to enable real-time design, optimize faster, and more," said Timothy Costa, senior director of CAE and CUDA-X at NVIDIA. "Now, Altair users can leverage NVIDIA's best-in-class technology to operationalize digital engineering and streamline their digital engineering workflows."

Overall, the integration empowers users by giving them seamless, turnkey access to the Omniverse Blueprint with minimal effort. Meaning, if users have built digital twins with the Omniverse Blueprint in Altair One, they can easily deploy them in any cloud or on-premises environment. By systematically cataloging all data with essential metadata, Altair One enables datasets to expand through multiple design iterations. This supports the development of models in tools like Altair® PhysicsAI™, which can slash analysis time from hours or days to just seconds or minutes.

In addition to the enhancements above, Altair is leveraging NVIDIA technology elsewhere to supercharge performance. For example, Altair® OptiStruct® now features the cuDSS GPU-accelerated Direct Sparse Solver library to improve performance on CPU and GPU-accelerated architectures and Altair® EDEM™ will soon support the NVIDIA Grace architecture.

Altair is also pleased to announce performance on NVIDIA Blackwell for Altair® ultraFluidX®, Altair® nanoFluidX®, and EDEM, demonstrating up to 1.6x improvement on NVIDIA DGX B200. For EDEM, this represents a 40x speed increase when compared to 32 CPUs.

Ansys to Integrate NVIDIA Omniverse

18 March 2025

Ansys announced it will offer advanced data processing and visualization capabilities, powered by integrations with NVIDIA Omniverse within select products, starting with Fluent and AVxcelerate Sensors. These integrations will streamline simulation processes by automating manual data preparation and enabling high-fidelity models for deeper insights. This reduces the need for simulation experts to translate results to decision makers, product stakeholders, and potential customers.

Preparing large volumes of data for simulation entails ensuring its quality, interoperability, and flexibility. This typically means users are working across multiple software programs to prepare parameters for just one simulation model. Moreover, once the model is parametrized, additional specialized tools and expertise are often required for visualization.

By leveraging Omniverse technologies, Ansys software facilitates interoperability, scalability, and modularity of 3D scene data within a rich, open ecosystem. Integrating Omniverse technologies with Ansys products will enable customers to easily prepare simulation data — particularly useful for AVxcelerate Sensors applications. Ansys users can render immersive, photorealistic models within the Ansys interface, supporting real-time collaboration and improving communication of results. Moreover, PyAnsys, a family of Python packages that enable users to interact with Ansys products, automatically formats simulation data so simulation practitioners and developers can easily customize and automate simulations inside their own applications built on NVIDIA Omniverse.

For example, Astec Industries, a leading global manufacturer of specialized equipment for asphalt road building, aggregate processing and concrete production, uses Ansys to design and optimize asphalt drum dryers and hydrogen burners.

“The integration of Omniverse technologies within Fluent allows us to visualize complex physics simulations that give us and our customers intuitive insight into how our equipment operates in stunning detail,” said Dr. Andrew Hobbs, director of advanced technologies at Astec Industries. “Simulating environments inside our equipment where physical observation is impossible not only enhances our perspective of how our products will operate in the real world, but it allows us to optimize our designs for performance and efficiency, delivering innovative equipment and a competitive advantage to our customers.”

“Modern digital engineering increasingly relies on technology compatibility to design intuitive, efficient, and innovative products,” said Shane Emswiler, senior vice president of products at Ansys. “By continuing to deepen our collaboration with NVIDIA, we’re empowering our customers to bring their simulations to life and obtain insights that could’ve otherwise not been possible to obtain. To do that easily in the familiar Ansys interface can significantly improve project timelines and get products to market faster.”

“Combining the power of Omniverse’s visualization capabilities with the predictive accuracy of Ansys products creates a powerful digital engineering environment that will expand access to simulation insight,” said Rev Lebaredian, vice president of Omniverse and simulation at NVIDIA.

BricsCAD® V25.2 release is now available

17 March 2025

Bricsys® has announced additional new and enhanced features in their latest BricsCAD® V25.2 release, following the launch of V25 in October 2024. This release empowers BricsCAD users to deliver their designs faster in a familiar, user-friendly CAD environment.

What is new in the BricsCAD V25.2 release?

V25.2 focuses on enhancing the workflows that engineers, manufacturers, builders, and surveyors use daily. From 2D geometry to 3D models, the latest features give designers what they need to accelerate performance and productivity.

BricsCAD® Lite and BricsCAD® Pro
The V25.2 release brings users new and enhanced features to boost productivity and reduce time to deliverables, including large model and section visualizations, better 3D sectioning performance, sheet set model view access, single-sheet publishing, and PDF viewing.

BricsCAD® BIM
BricsCAD has received the IFC4 Architectural Reference Exchange Export Certification, allowing companies to participate in public tenders where IFC4-certified BIM software is required. The V25.2 release also includes user-requested productivity enhancements for parametric 3D modeling of BIM geometry.

BricsCAD® Mechanical
Users benefit from new and enhanced mechanical symbols and annotations for 2D drawings, now with integrated 2D FEA annotations for improved design analysis. These features allow manufacturers to easily convert 3D models to sheet metal, validate and optimize the assembly, and produce 2D documentation.

BricsCAD® Pro with Civil/Survey Toolset
Land surveyors can now communicate project data more effectively with non-CAD users by importing and exporting GIS data in KML or KMZ format. This allows for exporting data from BricsCAD and displaying it in Google Earth. The V25.2 release also includes a new command to offset Strings or 3D Polylines, both horizontally and vertically.

Bricsys product teams are committed to developing smart features designed to automate and accelerate workflows, enabling users to deliver designs faster.

Cadence Accelerates AI-Driven Engineering Design and Science with NVIDIA Grace Blackwell

18 March 2025

Cadence announced the expansion of its multi-year collaboration with NVIDIA, focusing on driving advancements in accelerated computing and agentic AI. This partnership addresses critical global technology challenges, delivering tangible advancements that accelerate innovation across a wide range of industry verticals.

Cadence is driving scientific innovation across multiple industries through the integration of NVIDIA-accelerated computing. The massive acceleration of a broad range of Cadence® engineering and scientific solutions using NVIDIA's latest Blackwell architecture allows designers to tackle larger, more complex problems not previously possible. Some examples of this collaboration include:

- Computational fluid dynamics simulation time reduced by up to 80X—from days to minutes
- Cadence Spectre X Simulatoraccelerated by up to 10X
- 3D-IC design and analysis for thermal, stress and warpage accelerated by up to 7X

Cadence Fidelity CFD Platform Tackling Most Complex Fluid Dynamics Problem with Blackwell

Cadence leveraged the NVIDIA Blackwell platform to help solve one of the grand challenges of computational fluid dynamics (CFD)—a simulation of the complete aircraft within the most challenging parts of the flight envelope—takeoff and landing. Using the Cadence Fidelity CFD Platform, Cadence successfully ran multi-billion cell simulations on NVIDIA GB200 GPUs in under 24 hours that would previously have required an entire top 500 CPU cluster with 100,000s of cores and several days to complete. Cadence will continue to leverage Blackwell to test the limits of the simulation, helping the aerospace industry reduce the amount of wind tunnel tests while reducing cost and expediting time to market.

Cadence and NVIDIA are also working together on a full-stack agentic AI solution for electronic and system design, as well as science applications. This collaboration will introduce breakthrough agentic technology, integrating the Cadence JedAI Platform with NVIDIA's NeMo generative AI framework and the newly announced NVIDIA Llama Nemotron Reasoning Model to accelerate designer productivity for tasks such as:

- Intelligent conversational AI assistants for boosting user productivity and innovation
- Deep reasoning for verification based on the underlying design collateral and verification agents
- Design generation and optimization with design agents for digital and custom circuits

Additionally, Cadence Molecular Sciences (OpenEye) is integrating NVIDIA BioNeMo NIM microservices with Orion® , Cadence's cloud-native molecular design platform. This scientific software collaboration will accelerate tools for drug discovery by harnessing the combination of cutting-edge AI and GPUs in the cloud. With unprecedented access to on-demand and reserved GPU access, Orion will equip scientists worldwide with the power to perform complex calculations at scale, revolutionizing therapeutic design. NIMs microservices expands Orion's capabilities in the areas of:

- AI models for 3D de novo protein structure prediction
- Small molecule generative AI
- Foundational AI models for antibody property prediction

Cadence is accelerating the buildout of the AI infrastructure with cutting-edge digital twin technology, powered by NVIDIA. Cadence is proud to be one of the first adopters of the NVIDIA Omniverse blueprint for AI factory digital twins. This partnership is driving the creation of consistent and accurate models to enable the rapid development of data center digital twins. With the integration of NVIDIA Omniverse Viewport, Cadence Allegro® X Design Platform , and the Cadence Reality™ Digital Twin Platform , designers have new, more accurate visualization for the entire electronic system design process. Downstream users can leverage data for analytics, components and BOM management, manufacturing interfaces, system-level quality, and other disciplines such as mechanical and industrial design. NVIDIA and Cadence are leading the way in creating an ecosystem of high-quality models, opening the door for equipment manufacturers and data center companies to quickly and confidently create digital twins.

"Cadence is accelerating AI-driven EDA and system design and analysis workloads on NVIDIA's latest Grace Blackwell NVL72 platform. We're enabling the delivery of today's infrastructure AI and agentic AI and transforming the principled simulations that underpin physical AI and sciences AI," said Dr. Anirudh Devgan, president and CEO of Cadence. "With these breakthroughs, we're now able to perform massive simulations of complex systems that weren't possible before in hours, including some of the largest and most accurate simulations of full aircraft to date."

"Accelerated computing and agentic AI are setting new standards for innovation across industries," said Jensen Huang, founder and CEO, NVIDIA. "Together, NVIDIA and Cadence are pushing the boundaries of what's possible—delivering breakthroughs in simulation, optimization, and design that drive efficiency, reduce time to market, and fuel scientific discovery."

Capgemini accelerates enterprise adoption of agentic AI for industries with NVIDIA

19 March 2025

Capgemini announced the introduction of customized agentic solutions designed in collaboration with NVIDIA to accelerate enterprise AI adoption. Capgemini will deliver end-to-end AI services tailored to meet the diverse needs of specific industries when implementing AI agents, from healthcare and financial services to manufacturing and telco. By leveraging the power of NVIDIA NIM and a dedicated agentic gallery, Capgemini will be able to streamline deployment and reduce complexity for enterprise clients looking to derive actionable insights to achieve agentic-driven business transformation.

With the combination of Capgemini's deep industry expertise and NVIDIA's state-of-the-art technology, enterprises will benefit from faster time-to-value and agile implementation of AI agents. Built on NVIDIA AI Enterprise with NVIDIA NIM™, Capgemini offers a simplified, high-performance deployment process, enabling clients to seamlessly and securely integrate agentic capabilities into their existing technology infrastructure.

Enterprises will gain access to a dedicated agentic gallery, eliminating the complexities of developing AI agents from the ground up for each business process, resulting in significant time savings and cost reductions. In addition, Capgemini brings robust governance frameworks on top of NVIDIA AI stack, allowing compliance, scalability, and consistent performance. With a focus on scalability and governance, clients will benefit from AI agents that are designed to meet industry standards and regulatory requirements, providing long-term sustainability.

Through this collaboration, Capgemini will help organizations navigate the complexities of implementing agentic AI solutions on the NVIDIA AI stack while addressing strategic objectives such as:

- **Rapid prototyping and deployment:** Accelerating AI agent rollouts with pre-configured workflows and optimized infrastructure, reducing time-to-market.
- **Seamless integration:** Combining AI agent capabilities with existing business applications to unlock new levels of process automation, efficiency and data-driven decision-making.
- **Scalability and governance:** Implementing AI agents with robust governance frameworks, ensuring compliance, scalability, and consistent performance. The dedicated agentic capabilities of Capgemini RAISE, including governance, real-time monitoring and orchestration, enables unified control of agentic solutions with tangible results.

"Agentic AI is changing the way we live and work. There is vast potential for AI agents to drive innovation," said Chris Penrose, Global Head of Business Development for Telco, NVIDIA. *"Capgemini has a deep understanding of the complex challenges facing enterprises and the industry-specific agentic AI use cases that can unlock significant business value. By leveraging NVIDIA NIM, together we can accelerate deployment of AI agents that enhance productivity and revolutionize the way they operate, whilst addressing critical concerns like trust, safety, security and compliance."*

Together with NVIDIA, Capgemini is building over 100 bespoke AI agent-driven solutions tailored to various industry use cases, including:

- **Automotive:** Smart agents to monitor and improve autonomous and human driving performance; vehicle performance in varying urban, weather, and traffic conditions; digital twin test vehicles in omniverse settings.
- **Consumer:** Central and interactive Edge AI access point in the home that can be used to oversee the elderly and infirm, locate mislaid items, and monitor home security.
- **Financial Services:** Fraud alert agents to validate fraud activity and manage response; financial planning and investment management services to dynamically monitor client portfolios in real-time and provide personalized investment strategies.
- **Life Sciences:** Drug discovery support to extract actionable insights from drug mechanisms, disease progression and clinical outcomes; clinical trial refinement to improve design and monitor real-time data for mid-trial adjustments.

- **Manufacturing:** Smart camera-based process monitoring for improved shopfloor performance and safety compliance.
- **Public Sector:** AI-driven assistants capable of executing various administrative and civic tasks; fraud detection and prevention agents that provide comprehensive insights and detect patterns and anomalies that may indicate fraudulent activities.
- **Retail and Supply Chain:** AI-driven agents that monitor shelves in-store and in warehouses, and automatically trigger SKU replenishment.
- **Telco:** Network automation, including AI-RAN, and contact center translation services.

Capgemini has been working with Telenor to build Norway's first sovereign and secure AI Cloud Service in collaboration with NVIDIA. Launched in November 2024, the Telenor AI Factory is designed to accelerate AI adoption across industries while ensuring security, sustainability, and full data sovereignty within Norwegian borders. The AI Factory provides businesses with the infrastructure to develop, scale, and integrate AI into their operations — whether for internal workflows, customer-facing applications, or advanced AI-driven solutions. The service runs on 100% renewable energy, supporting responsible innovation while minimizing environmental impact.

"With the AI Factory, we are creating a secure and sustainable foundation for AI innovation in Norway," said Jannicke Hilland, EVP and Head of Telenor Infrastructure. *"Capgemini has played a crucial role in developing this service, working closely with us to build a platform that allows businesses to harness AI while maintaining full control over their data. Together, we are ensuring that organizations have access to cutting-edge AI solutions without compromising security or sustainability."*

"This new collaboration with NVIDIA marks a pivotal step forward in our commitment to bringing cutting-edge AI-powered technology solutions to our clients for accelerated value creation," said Roshan Gya, Capgemini Invent CEO and Group Executive Board member at Capgemini. *"By leveraging the power of the NVIDIA AI Stack, Capgemini will help clients expedite their agentic AI journey from strategy to full deployment, enabling them to solve complex business challenges and innovate at scale. NVIDIA's robust platform provides the necessary infrastructure and tools to make this acceleration possible. Our work with Telenor on its AI Factory showcases how we can help an enterprise to scale generative and agentic AI to gain competitive advantage and realize business value."*

ENCY 1.1 Update: Precision Text Placement and Expanded Machining Capabilities

20 March 2025

ENCY 1.1 delivers significant enhancements, notably the ability to precisely position text using custom coordinate systems, streamlined machining workflows, and expanded operational capabilities including lathe machining for robots.

Improved Text Placement

Previously, when using the "Text" option, markings were created by default within the current Local Coordinate System (LCS). Update 1.1 introduces the capability to select a custom coordinate system for text placement. Users can now create an LCS directly on a specific part face, ensuring precise and immediate placement of text markings.

Once created, the text position is remembered, eliminating the need to readjust it if the LCS parameters change.

Enhanced Usability and Convenience

- **Lathe Operations for Robots:** Lathe operations are now available for robots, expanding machining capabilities and flexibility.
- **Separate Stocks in Hole Machining:** Radial and axial stocks are now managed separately in hole machining operations. The radial stock is specifically available for Pocketing and Helical machining strategies.
- **Extended Capabilities for 6D Contour Operation:** Users can now define top and bottom levels for multi-pass machining when the the Flank tool orientation is selected. This enhancement is especially valuable for additive manufacturing processes.
- **View Orientation:** Clicking the mouse wheel now conveniently orients the view perpendicular not only to standard views and selected faces but also to custom-created planes, such as tangent surfaces or sketch planes.
- **Coordinate System Zero for Reports:** The Workpiece Coordinate System zero point is now properly supported and exported for generating accurate reports.
- **Direct ENCY Tuner Access:** Generated NC program texts can now be opened directly in ENCY Tuner from the NC program generation window, significantly streamlining the workflow.

Bug Fixes in ENCY 1.1

Fixed errors related to toolpath calculation and visualization, including issues with 5D and 4D surfacing operations, Turn take over operations, and Waterline roughing operation. Fixed errors related to importing 3D models and loading corrupted projects, as well as freezes occurring in Drawing mode and incorrect undo/redo behavior specifically when creating 3D models. Probing operations, external application integration, and equipment compatibility—such as SCARA robots and Sinumerik controllers—have also been improved. Overall system stability and data reliability have been enhanced significantly.

Note: The 1.1 update is available to all users with an active annual support contract (SMC).

EON Reality Presents Groundbreaking EON Exploratory Simulator to Revolutionize Immersive Learning and Problem-Solving

20 March 2025

EON Reality, the world leader in AI-assisted Virtual Reality and Augmented Reality-based knowledge transfer for industry and education, proudly announces the launch of its

groundbreaking **EON Exploratory Simulator**, designed to **enhance active learning and problem-solving** through innovative Extended Reality (XR) experiences.

Why Choose the EON Exploratory Simulator? Traditional education methods often fail to fully engage students or effectively convey knowledge. The EON Exploratory Simulator addresses these shortcomings by:

- **Increasing Engagement:** Missions captivate learners with interactive, narrative-driven scenarios.
- **Promoting Active Exploration:** Learners actively participate in discovering information, reinforcing knowledge through hands-on interaction.
- **Contextualizing Knowledge:** Realistic, immersive scenarios make theoretical knowledge practically relevant.
- **Adaptive Feedback:** Immediate and context-sensitive feedback boosts retention and comprehension.

How Does it Work?

Each immersive mission in the EON Exploratory Simulator follows a structured framework:

1. **Mission Briefing:** Users receive a clear understanding of their role, objectives, and mission background.
2. **Interactive Discovery:** Users actively engage with immersive environments, solving challenges by exploring and interacting.
3. **Adaptive Feedback:** Users receive instant hints and guidance based on their choices.

Sample Scenarios with Interactive Dialogue:

Scientific Scenario: Cellular Structure Exploration – "Viral Intrusion"

- **Role:** Cellular Biologist
- **Objective:** Identify how a virus exploits cellular structures to develop targeted medical interventions.

Interactive Dialogue Example:

- **Avatar (Dr. Ellis):** "The virus has entered the cell and targets the control center housing genetic material. Which organelle is under attack?"
- **User:** "Mitochondria."
- **Avatar:** "Incorrect. Hint: Think about the organelle storing DNA."
- **User:** "The nucleus."
- **Avatar:** "Exactly. By targeting the nucleus, the virus disrupts critical genetic processes. Let's explore potential treatments."

Criminal Investigation Scenario: Lakeside Murder Mystery

- **Role:** Detective
- **Objective:** Solve a murder by examining clues at a crime scene.

Interactive Dialogue Example:

- **Avatar (Officer Lane):** "Detective, we've found a crystalline residue at the scene. What do you think it is?"
- **User:** "Salt."
- **Avatar:** "Incorrect. Hint: The substance suggests heat absorption rather than release."
- **User:** "Sugar."
- **Avatar:** "Correct. It indicates a struggle in the kitchen. Proceed carefully."

Scientific Research Scenario: Space Mission Probe

- **Role:** Space Navigator
- **Objective:** Locate a missing probe using planetary data.

Interactive Dialogue Example:

- **Avatar (Commander Vega):** "Navigator, the probe sent its last transmission from a planet with distinctive rings. Identify the planet to begin your search."
- **User:** "Jupiter."
- **Avatar:** "Incorrect, Jupiter has a faint ring system but not the most pronounced. Try again."
- **User:** "Saturn."
- **Avatar:** "Correct! Let's initiate probe retrieval protocols."

Golden Software Adds Powerful New 3D Subsurface Visualization Functionality to Surfer® Surface Mapping Package

11 March 2025

Golden Software has added the ability to download georeferenced Google aerial and satellite images to map projects in the latest version of its Surfer mapping and 3D visualization package. Other new features focus on faster and simpler creation of 3D visualizations that are easier to interpret and understand.

"The ability to easily download reliably high-quality basemap images from Google Maps adds a rich layer of information that puts a mapping project in its proper geographic context," said Surfer Project Manager, Kari Dickenson. "Surfer users will find they can communicate their work more accurately and vividly with the latest software version."

Surfer is used by more than 100,000 people worldwide, many involved in environmental consulting, water resources, engineering, mining, oil & gas exploration, and geospatial projects.

The software has been relied upon for more than 40 years by users in numerous disciplines to quickly transform complex data into superior 2D and 3D visuals with accuracy.

Known for its fast and powerful contouring algorithms that regularly outperform more expensive packages, Surfer enables users to model data sets, apply an array of advanced analytics tools, and visually communicate the results in a way that even the non-technical stakeholders can understand.

The following upgrades have been made in the latest release of Surfer and are available today:

Direct Google Maps Access – The Base from Server command now gives users online access to global maps and aerial/satellite images from Google Maps for download directly into their Surfer projects as georeferenced base maps. This has eliminated the time-consuming and frustrating task of searching multiple online servers to find compatible basemaps, or manually georeferencing screenshots from Google Earth.

Colorized 3D Drillhole Intervals Based on Keywords – Users can now use text keywords, such as "Limestone" or "Granite" to colorize the intervals in their 3D drillholes, making it easier to visualize stratigraphy, mineralization content, or formations. Surfer automatically generates a legend showing the colors and keywords, greatly speeding the model-making process.

Contour Slices in 3D View – Users can create any number of contour slices, at any orientation, through their 3D grid. Users can select the same powerful contour properties as in the 2D view, such as contour labels, logarithmic contour intervals, and saving/loading LVL files. This allows users to create models displaying multiple components. For example, model contaminant plume concentrations from one 3D grid as one type of visualization, and hydraulic conductivity from a different 3D grid as contour slices.

Linked Text – Users can now link objects to text data, such as the filename, file path, date/time, or the contents of a cell in an Excel spreadsheet. A refresh button lets users easily update the text by inserting the latest edits and new information into text blocks and figures, ensuring the map is always up to date with data that is easy to retrieve.

Surfer Beta Available

As is tradition, Golden Software has released a Beta version of Surfer simultaneously with the new version to give customers a chance to try out new features and provide feedback while they are still in development. Users may find the Beta version by clicking **File | Online | Try Beta Version** from within Surfer.

"In the Beta features now under development, we continue to make the 3D visualization capabilities more robust and easier to use in Surfer with the goal of saving time and reducing headaches," said Dickenson.

The new Beta features in Surfer fall under two categories: 3D Viewing and Legends.

3D Viewing:

- Create, Edit and Export Contact Points in Drillholes – With criteria defined by the user to identify different contacts in drillholes, such as lithologic formation, mineralization

zones, or time horizons, Surfer automatically finds and places points at the contact between the units. The user can edit the points as needed and then export them for gridding and creation of a new surface that can be viewed in 3D. For users with dozens or hundreds of drillholes, this is an enormous time saver.

- Multiple Light Sources – 3D View now offers up to four different lighting directions so that drillholes and surfaces in varying, and even perpendicular, orientations can be fully illuminated for effective viewing.

Legends with Unique Values – Once an inflexible feature that compelled many users to spend time creating Legends from scratch, Surfer can now automatically generate Legends with the appearance, content, and alignment desired by the user. There are seven new Legend functions:

- Create names for unique value attributes,
- Display only the properties that are applied in the layer,
- Change the size of the line sample in the legend,
- Change the size of the symbol sample in the legend,
- Set alignment of samples as left, center, or right,
- Put the line style around a polygon fill sample,
- Separate attribute samples, such as polylines and polygons, into different rows.

Keysight Launches Comprehensive Solution for Accurate and Seamless Photonic Circuit Design

19 March 2025

Keysight Technologies, Inc. announces the launch of Photonic Designer, an innovative photonic design automation (PDA) software solution engineered to provide unparalleled accuracy and compliance-driven design validation. Designed for photonics design engineers, this solution enables streamlined workflows from concept to simulation, emulation, and manufacturing, addressing the challenges of fragmented tools, inconsistent simulation precision, and increasing compliance demands.

Photonics design engineers often face challenges with scattered tool chains and simulation discrepancies that hinder efficiency and precision. Traditional workflows require engineers to switch between multiple software platforms, making it challenging to ensure design consistency. Keysight's Photonic Designer, part of the Advanced Design System (ADS) suite of tools, eliminates these inefficiencies by offering a comprehensive, physics-driven simulation environment that accurately predicts real-world circuit performance. Keysight tools also support an open, interoperable workflow ecosystem for maximum flexibility.

Photonic Designer integrates real-world measurement data directly into the simulation workflow, to optimize models and streamline compliance and validation. This allows engineers to:

- Verify designs against industry modulation standards before fabrication
- Use Models with best-in-class simulators to ensure accurate, confident, robust designs
- Ensure seamless compatibility with foundry PDKs to avoid costly iterations
- Optimize photonic model variables to match foundry processes to align with manufacturing conditions
- Automate and accelerate design verification, reducing go-to-market time

The software is designed to streamline pure optical and combined electrical-optical-electrical workflows for circuit design, providing an intuitive interface for effortless circuit design and layout generation. Engineers can simulate, validate, and optimize photonic circuits while ensuring compliance with stringent design rules, guaranteeing precision and reliability.

To further enhance the design process, CompoundTek, a leading provider of photonics foundry services, is offering a Photonic Designer PDK for Keysight ADS users, for their silicon photonics process. This collaboration enables engineers to develop PICs with foundry-verified components, ensuring a seamless transition from design to fabrication.

S. Gunasagar, Chief Operating Officer at CompoundTek said: "We are excited to offer a highly accurate PDK for our silicon photonics process. This integration with Keysight's ADS allows engineers to confidently design and validate photonic circuits with the assurance of manufacturing compatibility, ultimately accelerating time-to-market for innovative solutions."

Nilesh Kamdar, EDA Design & Verification General Manager at Keysight, said: "Engineers need a reliable and precise environment to design and validate photonic integrated circuits without unnecessary tool-switching. Photonic Designer provides a single, unified platform that integrates physics-based simulations, PDK customization, and compliance verification, ensuring high-fidelity results from concept to manufacturing."

Nano Dimension's Essemtec Product Line Unveils FOX Ultra and PUMA Ultra, the Next Generation of High-Performance SMT Solutions

18 March 2025

Nano Dimension Ltd. ("Nano Dimension" or the "Company"), a supplier of Digital Manufacturing solutions, announced the launch of its latest high-performance solutions from its Essemtec product line: the FOX Ultra and PUMA Ultra.

These next-generation surface mount technology ("SMT") platforms are designed to meet the evolving demands of high-precision, high-mix electronics manufacturing. The FOX Ultra and PUMA Ultra represent a major advancement in providing significantly increased speed, precision, and flexibility. The pick-and-place speed has been improved to 31,000 components per hour ("CPH") for the FOX Ultra, and the Puma Ultra to 30,000 CPH. This increase represents more than a 70% improvement in throughput. The FOX Ultra and PUMA Ultra are also offered in an All-in-One version, integrating pick & place, dispensing, and inspection capabilities into a single platform.

Olivier Carnal, General Manager for Essemtec at Nano Dimension, shared: "Our FOX Ultra and PUMA Ultra systems are engineered to answer the needs of our customers for more speed and flexibility in electronics manufacturing. In constantly listening to our customers' needs, we learned that not only does yield and placement speed matter - but so does versatility. Our advanced customers in aerospace & defense, automotive, medical electronics, electronic manufacturing services, and high-reliability industrial sectors need a machine that can handle dynamic production schedules, multiple product types, and last-minute changes without sacrificing efficiency. FOX Ultra achieves the same or better placement speed as the current FOX with fewer nozzles, allowing room for dispensing without compromising performance. PUMA Ultra delivers similar benefits, enabling dual dispensing heads, such as glue and solder paste jetting, while maintaining peak pick-and-place speed. Truly versatile."

Julien Lederman, Interim Chief Executive Officer of Nano Dimension, added, "The FOX Ultra and PUMA Ultra exemplify our commitment to technological innovation and customer-driven solutions. I am extremely proud of our team for designing and producing these machines, which represent a significant improvement in speed, flexibility, and performance."

Neural Concept Demonstrates Engineering AI Platform Integrated with NVIDIA Omniverse Blueprint at NVIDIA GTC, Accelerating Product Development

18 March 2025

Neural Concept, the leading AI platform for engineering design, will demonstrate its copilots for multi-physics simulation and product development at NVIDIA GTC (March 18-21). Now fully integrated with the NVIDIA Omniverse Blueprint for real-time digital twins and NVIDIA's latest GPU hardware, the Neural Concept platform is trusted by over 70 Original Equipment Manufacturers (OEMs) and Tier 1 engineering teams to accelerate product development by up to 75%.

For decades, OEMs in automotive, aerospace and microelectronics have relied on Computer-Aided Design (CAD) and Computer-Aided Engineering (CAE) tools to enhance product development. Traditional engineering processes are characterized by innovation by 'trial and error' which results in prolonged, costly development cycles and suboptimal product performance. By embedding Neural Concept's AI-based engineering copilots within the design and simulation environment, Neural Concept shifts engineering processes from intuition-driven to knowledge-driven, accelerating time-to-market, reducing costs, and enhancing cross-functional collaboration to create sustained competitive advantages.

By using Neural Concept's Engineering AI platform, now integrated with Omniverse Blueprints and NVIDIA's latest GPU hardware to run multiphysics design studies at massive scale, OEMs can get real-time predictions on performance, explore thousands more design variations than traditional methods allow, and compare design iterations according to virtual experimentation in a highly realistic environment. While over 90% of OEMs are now using AI-driven simulation, only 5% have successfully scaled it across full product development cycles. Neural Concept bridges this gap—enabling engineering teams to deploy AI-driven workflows enterprise-wide, unlocking new product innovations and driving faster go-to-market.

At Neural Concept's GTC booth, attendees will be able to use the platform's newest application to run their own digital twin simulations of the SP80 racing boat. Attendees will be able to optimize a hydrofoil design in a realistic simulation environment with the goal of improving the boat's speed and stability.

In addition, in GTC's conference stream on 20 March at 15.00 PDT, Neural Concept and General Motors will be presenting on how OEMs can "Revolutionize Pedestrian Safety: AI-Powered Crash Worthiness." Together, they will present groundbreaking approaches to pedestrian crash simulation, leveraging deep learning models trained on NVIDIA GPUs to predict impact physics in seconds rather than days.

Simon Xu, Tech Fellow for Vehicle Optimization and ML at **General Motors** said; "*At General Motors, we are actively exploring the transformative potential of Artificial Intelligence in vehicle design and engineering. Through our collaboration with Neural Concept, we've been able to evaluate the significant value and high potential of AI-driven workflows, particularly in accelerating design processes and predictive modelling. This collaboration is helping us to structure and define a roadmap that will enable us to integrate these innovative methodologies effectively across our organization, ensuring we can fully leverage their capabilities to enhance efficiency in engineering workflows, enabling faster exploration of design possibilities*.

Neural Concept's 70+ OEM and Tier 1 customers – including Bosch, OPMobility, General Electric, and Subaru - benefit from lower development costs, AI-optimized product innovation and lightning-fast time to market. Neural Concept's customers have used the platform across a range of applications, including the design of:

- Thermal efficient EV electric cooling systems that improve vehicle range by up to 20km,
- Better turbine designs for energy production, powering hundreds of thousands of additional households,
- Winning F1 racing cars
- Futureproof car designs that enhance crash safety.

Tim Costa, Senior Director for CUDA-X and CAE at **NVIDIA,** said: "*The integration of Neural Concept's Engineering AI platform with the NVIDIA Omniverse Blueprint for Real-Time Digital Twins is enabling product teams to accelerate design with interactive simulation. We're excited to see Neural Concept transform OEM's CAE workflows, bringing together engineering expertise with powerful AI-driven insights*."

Pierre Baqué, CEO and Co-founder at **Neural Concept** said; "*AI-driven engineering transformation is no longer a futuristic vision, it's a matter of OEM survival and our ability to solve global challenges. We are witnessing a paradigm shift and the emergence of a new symbiotic collaboration between human expertise and AI's analytic speed and power. With Neural Concept, leading engineering teams are now combining generative AI, physics-based simulation, and real-time collaboration - bridging the gap between human creativity and AI-driven optimization to push the boundaries of product design.*"

New AR Experience from Dassault Systèmes Transforms Parisian Monuments with Sustainable Energy Innovations

18 March 2025

Dassault Systèmes announced "Energy Experience," its immersive augmented reality experience that transforms Parisian monuments by showcasing sustainable energy solutions created with virtual twins to shape the future of clean energy.

The unique experience merges the virtual and the real worlds to bring disruptive innovations impacting energy consumption, reinventing greener mobility and optimizing food production to life at iconic landmarks, transforming the Arc de Triomphe, Place de la Concorde, the Champs-Elysées and other sights with solutions inspired by nature.

Through street marketing initiatives and a web app challenge to find each project and win prizes, the experience invites the public to become active participants in discovering vertical farming, decarbonized last-mile delivery vehicles, sustainable construction materials, electricity-generating hydro turbines and other innovations from CSADI, EEL Energy, Midipile, NetZero, Polytech Nancy, Strong By Form and Urbanloop, and the benefits they bring to the Generative Economy.

"We believe in the transformative power of virtual worlds to address real-life challenges. And, we want to make this technology accessible to and impactful for everyone," said Victoire de Margerie, Vice President, Corporate Equity, Marketing & Communications, Dassault Systèmes. "'Energy Experience' demonstrates how virtual twins enable clean energy innovators to drive human progress with solutions that benefit all. This isn't just about an experience; this is about virtual worlds for real life."

With global energy consumption expected to increase by 2050, meeting this demand with sustainable energy solutions requires balancing existing and emerging energy sources while keeping climate change and biodiversity top of mind and without impacting the earth's ecosystem.

Dassault Systèmes, through its 3DEXPERIENCE platform and applications, its 3DEXPERIENCE Lab, and La Fondation Dassault Systèmes, is catalyzing new ways for industry and innovators to shape the clean energy of the future. Virtual twins open up unlimited possibilities to imagine, design, simulate, test and optimize solutions, processes and infrastructure before creating them physically, thereby reducing demands on the planet.

"Energy Experience" will run from March 12-April 30. The experience, dedicated to the themes of energy and nature, is part of Dassault Systèmes' "The Only Progress is Human" initiative, which aims to increase awareness of societal and environmental challenges and inspire the use of virtual worlds to drive sustainable innovations for health, mobility, urbanization, water conservation and more.

Qualtrics Introduces New Market Intelligence Capabilities for the Next Generation of Market Insights

19 March 2025

Qualtrics, the leader and creator of the experience management (XM) category, launched Qualtrics Edge™, a powerful new market intelligence platform combining advanced AI, synthetic insights, market research data, and expert advisory services that allow organizations to accelerate strategic decision-making and attract and retain customers.

Qualtrics Edge gives organizations unprecedented visibility into business trends, customer needs, and strategic opportunities through access to millions of trusted consumer insights, market trends, and industry benchmarks – all delivered in a fraction of the time and cost of traditional programs.

With powerful synthetic AI capabilities in Edge Audiences™ and access to a broad range of business and market Edge Instant Insights™ – backed by Qualtrics' own decades of proprietary research, consumer and competitive benchmarks from Qualtrics partners, and the world's largest database of experience data – Qualtrics Edge allows companies to undertake customer, employee, and market research at unprecedented speed and scale.

"To remain competitive and relevant today, organizations can no longer rely on traditional market research tools and practices alone. Teams need instant access to insights they can trust and act on, and they need them to come from a range of sources," said Brad Anderson, Qualtrics President of Products, User Experience, and Engineering. "Qualtrics Edge is a transformative shift in how businesses gather and use customer insights. Edge's speed, scalability, and AI-powered intelligence is proven to rapidly help organizations drive success by staying ahead of consumer needs, making smarter decisions, and increasing operational efficiencies."

Make faster, confident decisions with synthetic data

With **Qualtrics Edge Audiences**, market research teams can shorten the time needed to conduct research from weeks to minutes, and reduce costs by as much as 70%. Edge Audiences combines publicly available data, Qualtrics' vast repository of unique industry-specific experience data, and predictive analytics to equip researchers with synthetic insights they can trust.

Using advanced AI, Edge Audiences enables researchers to ask questions of synthetic respondents designed to represent their target customers. The synthetic capabilities allow researchers to quickly understand market trends and customer expectations, including in hard-to-reach audiences, and simulate consumer behaviors, preferences, and decision-making. Insights inform researchers to help them make faster decisions with confidence, and prioritize future investments and focus areas for maximum business impact.

Synthetic research can also be combined with human-panel research from Qualtrics to enhance programs.

Valuable real-time AI-powered insights on day one

Qualtrics Edge Instant Insights gives organizations immediate access to a library of competitor insights, industry benchmarks, and emerging consumer trends and behaviors to complement and inform future research projects and ensure research teams see rapid value in their investment. With Instant Insights, organizations can view experience data in the context of their location, industry, and competition – including satisfaction, customer behavior and purchase trends – and use Qualtrics AI to quickly and easily determine the next best steps based on their data. Instant Insights is powered by data from Qualtrics' own proprietary research and unique operational and industry data sets from partners.

The first Instant Insights include:

- **Instant Insights for Restaurants** – On-demand insights provide immediate visibility into market trends, shifting consumer preferences, and competitive positioning with named competitors in the quick service restaurant, fast casual, and casual dining industries.
- **Instant Insights for Hospitality** – On-demand insights provide immediate visibility into market trends, shifting consumer preferences, and competitive positioning with named competitors in the hotel, resort and cruise industries.
- **Pulse by NPS Prism for US Insurance –** Actionable customer experience insights for US insurers based on unbiased feedback from your customers and competitors' customers.
- **Pulse by NPS Prism for US & UK Banking –** Actionable customer experience insights for US and UK banks based on unbiased feedback from your customers and competitors' customers.

"With the data and insights from Pulse by NPS Prism integrated into Qualtrics Edge, organizations can quickly and easily benchmark vs. competitors, identify critical points in the customer journey requiring attention, and uncover industry-specific customer experience trends," said Rahul Sethi, President and Co-founder NPS Prism by Bain & Company. "In today's fast-moving world, Qualtrics Edge provides organizations with an instant and significant competitive advantage – enabling them to drive value from their investments in customer experience research."

Qualtrics AI makes data analysis easy and improves data capture

Qualtrics also launched a number of AI capabilities in XM for Customer Experience™ and Strategy and Research that allow market research teams to capture more actionable feedback, and quickly analyze structured and unstructured customer feedback:

- **Qualtrics Conversational Feedback** transforms traditional surveys by using AI to ask targeted follow-up questions that dynamically adapt based on the consumer responses given. Qualtrics AI can identify negative or positive feedback and ask questions to clarify additional details, better enabling teams to take targeted action and improve resolution rates.
- **Qualtrics Insights Explorer,** available now in the XM for Customer Experience suite and Strategy & Research suite, is an AI-powered text analytics tool that makes it easy for organizations to quickly analyze, surface actionable insights, and take action on

responses from structured and unstructured feedback, such as call logs and online reviews. Capabilities in Insights Explorer deliver concise summaries of all feedback, and identify market opportunities, themes, emerging issues, and unmet customer needs empowering organizations to increase customer satisfaction, reduce churn, and drive revenue growth.

Availability:

- Edge Audiences subscriptions are available today through Qualtrics early access. General availability is expected by the end of the year.

Siemens Xcelerator: Siemens accelerates IT and OT integration with Microsoft for Edge, Cloud, AI and Simulation

20 March 2025

Siemens announces an extended collaboration with Microsoft in the context of Siemens Xcelerator, Siemens' open digital business platform, to simplify the integration of information technology (IT) and operational technology (OT) for enterprise customers. By combining Siemens Industrial Edge with Microsoft Azure IoT Operations, customers will benefit from complementary solutions that enable a seamless flow of data from production lines to the edge and to the cloud. This edge-to-cloud data integration enables AI- and digital-twin-powered solutions to improve machine performance, product quality, and reduce machine maintenance.

Siemens Industrial Edge integrates with Azure IoT Operations, part of Microsoft Azure's adaptive cloud approach

In the past, industrial companies have managed data and workloads in separated IT and OT environments. Today, making manufacturing more adaptive calls for OT and IT to converge. Edge computing plays a pivotal role by bridging the gap between shopfloor and cloud, allowing data to be captured and processed directly at the source: on the shopfloor.

With Siemens Industrial Edge, manufacturers can simply and quickly deploy and manage applications in a factory environment. Connectivity applications deployed to Siemens Industrial Edge devices enable continuous data flows from industrial assets to Azure IoT Operations.

A core component of the Azure adaptive cloud approach, Azure IoT Operations is designed to seamlessly integrate on-premises industrial edge solutions, like Siemens Industrial Edge, with the cloud, ensuring a continuous flow of data for smarter operations.

In this way, the powerful OT data plane provided by Siemens Industrial Edge works easily with Azure IoT Operations, to create an interoperable OT and IT data plane for manufacturing. The data layer from Siemens Industrial Edge effectively addresses mission-critical production applications such as virtualized control, low-latency closed-loop AI, executable digital twins, or production line-level analytics. It allows manufacturers to deploy responsive, reliable, flexible and secure applications to optimize their operations, reduce costs, and increase uptime and quality. By coupling with Azure IoT Operations, industrial producers can easily leverage this OT data in cloud-based, data-driven use cases to optimize production across sites and gain insights from advanced analytics.

"Siemens and Microsoft are reducing complexity for industrial customers by easing the burden of integrating and managing infrastructure, data and applications," explained Rainer Brehm, CEO Factory Automation at Siemens. "It is now easier to deploy and scale automation solutions across machines, lines and factories, enabling higher machine performance and reduced maintenance time."

Siemens Industrial Edge also provides a unified and scalable control plane for critical OT workloads, allowing customers to centrally deploy and manage production-level use cases at scale, while Azure provides a unified control plane for IT workloads in the cloud and on-premises. By using both infrastructure solutions together, users can quickly deploy and manage workloads in hybrid environments at scale, wherever they are needed, and focus on the real results: harnessing data and technologies like AI and digital twins, to streamline their production and make it more adaptive.

"Through the Microsoft adaptive cloud approach, manufacturers can now leverage Siemens Industrial Edge with Azure IoT Operations and unify their data with Microsoft Fabric. This marks a significant milestone in Siemens' and Microsoft's common journey towards accelerating the digital transformation of manufacturers by enabling them to create data-driven applications in hybrid environments faster than ever before," said Dayan Rodriguez, Corporate Vice President, Manufacturing and Mobility, at Microsoft.

Microsoft Fabric is a unified data platform that simplifies data management and analytics, readying it for AI.

Turning shopfloor data into real outcomes

Together, Siemens and Microsoft are enabling industrial manufacturers to deploy edge to cloud use cases. To improve product quality with AI and reduce manual rework and costs, producers can use the Siemens Industrial AI portfolio with Azure Machine Learning services to train AI and machine learning models in the cloud and run them at the edge with low latency. To improve overall equipment efficiency and value flows on the shopfloor, data provided by Siemens Industrial Edge to Azure IoT Operations and Azure cloud services can be used to create digital twins. The collaboration also enables the use of live production data with generative AI capabilities to enhance workforce skills and operations. The Siemens Industrial Copilot for Operations helps operators troubleshoot problems and access machine information through natural language queries.

SimScale Unveils the World's First Foundation AI Model for Centrifugal Pump Simulation Built with NVIDIA PhysicsNeMo

18 March 2025

SimScale, the leader in cloud-native engineering simulation, announces the launch of the world's first foundation AI model for turbomachinery simulation. Built with NVIDIA PhysicsNeMo™ and seamlessly integrated into SimScale's cloud platform with NVIDIA Blueprint™, the model reinforces SimScale's commitment to bringing Physics AI, Engineering AI, and cloud-native simulation into one platform. The combination of SimScale's cloud simulation

architecture, AI surrogate models, NVIDIA Warp and NVIDIA Omniverse for interactive visualization, and cutting edge NVIDIA Blackwell hardware allows engineers to discover optimal pump designs in seconds instead of days—revolutionizing simulation-driven engineering.

Unlocking a New Era of Engineering Innovation

This physics-informed AI model, trained on thousands of validated simulations, enables engineers to:

✅ **Optimize pump designs instantly –** explore thousands of design points in real-time, speeding simulation runs by ~2700x using AI surrogate models developed using PhysicsNeMo.

✅ **Reduce computational costs** – eliminate reliance on costly on-premises simulation tools.

✅ **Enhance accuracy & efficiency** – AI-powered results that match traditional CFD fidelity.

✅ **Scale globally via the cloud** – accessible to engineers everywhere, from startups to enterprises.

“This is a game-changer for engineering teams,” said David Heiny, CEO of SimScale. “By combining SimScale’s cloud-native CAE platform with NVIDIA PhysicsNeMo, we’re focused on delivering ready-to-use AI models that eliminate simulation bottlenecks and unlock new levels of speed and efficiency for engineers.”

A Leap Forward for AI-Powered Engineering

NVIDIA PhysicsNeMo, an advanced Physics AI framework, powers the AI-driven simulation by leveraging NVIDIA accelerated computing.

“AI and accelerated computing are transforming engineering design,” said Tim Costa, senior director of CAE and CUDA-X at NVIDIA. “With NVIDIA PhysicsNeMo and SimScale’s cloud-native approach, we’re bringing AI-driven predictive simulation directly to engineers, empowering them to innovate faster than ever.”

Synopsys Accelerates Chip Design with NVIDIA Grace Blackwell and AI to Speed Electronic Design Automation

18 March 2025

Synopsys Inc. announced the next phase of its work with NVIDIA to accelerate chip design up to 30x with the NVIDIA Grace Blackwell platform.

To achieve this speedup, Synopsys announced at the GTC global AI conference that it is using NVIDIA CUDA-X libraries to optimize its solutions for next-generation semiconductor development. The company is also expanding support for the NVIDIA Grace CPU architecture and enabling more than 15 Synopsys solutions in 2025.

"At GTC, we're unveiling the latest performance results observed across our leading portfolio when optimizing Synopsys solutions for the NVIDIA Blackwell platform to accelerate computationally-intensive chip design workflows," said Sassine Ghazi, president and CEO of Synopsys. "Synopsys technology is mission-critical to the productivity and capabilities of

engineering teams from silicon to systems. By harnessing the performance of NVIDIA accelerated computing, we can help customers unlock new breakthroughs and deliver innovation even faster."

"Chip design is one of the most complex engineering challenges in human history," said Jensen Huang, founder and CEO of NVIDIA. "With NVIDIA Blackwell and CUDA-X, Synopsys is cutting simulation times from days to hours—advancing chip design to power the AI revolution."

Synopsys and NVIDIA are advancing a multi-year collaborative effort to accelerate electronic design automation (EDA) workloads. Synopsys is further applying NVIDIA accelerated compute architectures, including the NVIDIA GB200 Grace Blackwell Superchip, to achieve significant, projected runtime gains for workflows including circuit simulation, computational lithography, Technology Computer-Aided Design (TCAD), physical verification, and materials engineering. These accelerated workflows include:

- **Circuit Simulation:** Synopsys PrimeSim™ SPICE simulation workloads are projected to achieve a 30x speed up utilizing the NVIDIA Grace Blackwell platform. Today, customers can achieve up to 15x speed up utilizing NVIDIA GH200 Superchips. NVIDIA accelerated computing architectures enable the simulation of challenging circuits to achieve signoff with SPICE-level accuracy, reducing runtimes from days to hours.
- **Computational Lithography:** The production-proven choice for accelerating computational lithography for more than two decades, Synopsys Proteus™ provides optical proximity correction (OPC) software and inverse imaging technology (ILT) to resolve challenges at leading technology nodes. By leveraging NVIDIA technologies, Synopsys is delivering game-changing technology to advance this computationally-intensive manufacturing process. Today, Synopsys Proteus is optimized for NVIDIA H100 GPUs and integrated with the NVIDIA cuLitho library, achieving a 15x speed up of OPC. Leveraging the NVIDIA Blackwell platform, Synopsys Proteus is expected to accelerate computational lithography simulations by up to 20x.
- **TCAD Simulation:** Early results applying GPU-enabled capabilities and NVIDIA CUDA-X libraries to the Synopsys Sentaurus™ TCAD process and device simulation solution is projected to accelerate time to results up to 10x. This solution is currently under development and is expected to be available to customers later this year.
- **Materials Engineering:** Synopsys QuantumATK® delivers atomic-scale modeling for semiconductor and materials research and development. Utilizing CUDA-X libraries on the NVIDIA Hopper architecture can accelerate time to results up to 100x, enabling customers to simulate and analyze a wide range of materials with greater efficiency.

Synopsys plans to continue enabling accelerated computing on NVIDIA platforms throughout its portfolio.

Advancing Synopsys Solutions with NVIDIA AI Software
Synopsys and NVDIA's efforts to accelerate chip design extend to speeding chip design with generative AI using NVIDIA NIM microservices:

- Generative AI Software for Chip Design: Today, customers using Synopsys' Gen AI-powered knowledge assistant, Synopsys.ai Copilot, are realizing an average 2x productivity improvement compared to prior methods. The integration of NVIDIA NIM microservices is projected to enable an additional 2x speedup for even faster time to answers.[2]

Optimizing Synopsys EDA with Grace CPU

- Additionally, Synopsys is enabling more than 15 solutions using the Grace CPU architecture for Synopsys EDA workloads spanning circuit simulation, physical verification, static timing analysis, and functional verification. The company plans to further increase support on the Grace CPU architecture in 2025.

Synopsys at GTC 2025
Synopsys is demonstrating at GTC 2025 March 18th through 21st in booth #222 in the Design and Simulation Pavilion. The company is also presenting sessions on semiconductor manufacturing and materials engineering and AI-driven chip design.

[1] Compared to CPU-based models.
[2] Synopsys.ai Copilot knowledge assistance without NVIDIA NIM integration.

Tech Mahindra and NVIDIA Collaborate to Advance Drug Safety with Agentic AI-Powered Pharmacovigilance Solution

19 March 2025

Tech Mahindra, a leading global provider of technology consulting and digital solutions to enterprises across industries, announced a pharmacovigilance (PV) autonomous solution built with NVIDIA AI software to advance drug safety management. The transformative solution leverages agentic artificial intelligence (AI) and automation to enhance the accuracy, speed, and efficiency of pharmacovigilance processes, addressing critical industry challenges such as manual delays and data overload.

Powered by Tech Mahindra's TENO framework, which is built on NVIDIA's cutting-edge AI technology, the solution is designed to automate and optimize pharmacovigilance workflows. By integrating the NVIDIA AI Enterprise software platform, including NVIDIA NeMo™, NVIDIA NIM™ microservices, and NVIDIA AI Blueprints, the Tech Mahindra solution streamlines case intake, data transformation, quality control, and compliance management, thereby ensuring a seamless and intelligent PV workflow. Additionally, the LLM-powered AI agents within the solution autonomously handle case classification, prioritization, and verification of pharmacovigilance emails to reduce the risk of human error.

Nikhil Malhotra, Chief Innovation Officer & Global Head of AI and Emerging Technologies Tech Mahindra, said, *"As the pharmaceutical industry navigates volumes of data during trials and post-launch, our collaboration with NVIDIA leverages generative AI and multi-agent systems to streamline pharmacovigilance process. Together, we are revolutionizing drug safety management and using the innovative AI-driven framework to develop multiple use cases for our global customers."*

Tech Mahindra and NVIDIA work together to provide better patient outcomes by bringing agentic AI-driven intelligence to pharmacovigilance. The pharmacovigilance industry manages over 1,000 daily cases of adverse drug reaction (ADR) for major drugs. For instance, in the case of an email reporting adverse drug reaction (ADR), the AI-driven PV solution instantly flags, prioritizes, and processes the request by eliminating human intervention that could potentially lead to delays and errors. The solution reduces turnaround times by up to 40%, enhances data accuracy by 30%, and cuts operational costs by 25%. This ensures timely case processing, regulatory adherence, and proactive risk mitigation, thereby transforming pharmacovigilance from reactive to predictive.

John Fanelli, Vice President, Enterprise Software, NVIDIA, said, *"AI is ideal for monitoring medicines throughout their lifecycle to support safety. Integrating AI into the Tech Mahindra TENO framework with NVIDIA AI Enterprise software enhances pharmacovigilance by augmenting human capabilities to help identify potential safety issues more effectively."*

Tech Mahindra has also expanded its TENO framework to encompass NVIDIA AI Enterprise, enriching it with customized AI agents to address a broad spectrum of industry challenges. The framework integrates NVIDIA NeMo™ to accelerate generative AI pipeline for data collection and curation, coupled with Tech Mahindra's VerifAI solution for data validation and governance. The distributed training and model customization capabilities embedded within the framework ensure that the AI models continuously evolve to enhance decision-making precision.

Trimble and PTx Trimble Expand Innovative Technology to Maintain Precision and Continuous Operations in the Agriculture Industry

20 March 2025

Trimble® and PTx Trimble announced the availability of Trimble IonoGuard™ for the precision agriculture industry. IonoGuard is a next-generation technology engineered to enhance RTK GNSS signal tracking and hardware positioning performance. IonoGuard helps ensure more reliable and accurate positioning by reducing the risk of signal loss and maintaining signal integrity during challenging ionospheric conditions.

Every 11 years, solar activity peaks, causing ionospheric disturbances such as scintillation and signal noise that can result in unreliable positioning. Solar Cycle 25, which began in 2024 and is expected to last through 2026, could pose significant challenges with the potential for global disruptions. While solar cycle disturbances are a phenomena noticed by few in most occurrences, high-precision RTK GNSS users in equatorial regions are regularly impacted by solar activity year-round, inflicting costly interruptions on agricultural operations.
Customer Testing and Validation

"There was no question when asked if we wanted to test IonoGuard," said Michael Munro, General Manager, Sales and Marketing of Vantage Australia. "Knowing we can better weather the next major solar storm with less risk for signal loss and improved signal availability and precision during such a disturbance provides peace of mind knowing we can still get the work done."

"The solar storm experienced in May 2024 put IonoGuard to the test and, based on feedback from our beta testers like Vantage Australia, demonstrated the value of this technology to enable uninterrupted work in the midst of significant solar activity," said Andrew Sunderman, Vice President, Product & Customer Experience at PTx Trimble. "When a solar storm hits, work might be stopped due to signal loss, resulting in downtime, increased labor costs and potentially wasted inputs during planting and spraying. We're extremely proud to offer a solution that truly minimizes this risk by decreasing downtime, reducing costs for the farmer and keeping the agriculture industry up and running all day, every day."
Availability

Trimble IonoGuard is available on the PTx Trimble NAV-900™ guidance controller via the latest PTx Trimble Precision-IQ firmware release and Trimble base stations that support the ProPoint GNSS positioning engine, sold and distributed by PTx Trimble. When combined, users can achieve maximum RTK performance.

Vectorworks 2025 Update 4 Amplifies Mobile Collaboration, AI Image Enhancements, Smarter Workflows, and More

18 March 2025

Global design and BIM software provider Vectorworks, Inc. has released its fourth update to the Vectorworks 2025 product line, delivering powerful AI-driven design enhancements, expanded reality capture capabilities, and seamless partner integrations. This update also introduces Braceworks Chord Loading, a critical advancement in structural analysis that enhances the safety and stability of truss systems. These improvements empower designers to work faster, smarter, and more connected than ever.

"With the release of Vectorworks 2025 Update 4, we are excited to enhance design technology by providing more efficient and intelligent workflows," said Darick DeHart, Chief Product Officer at Vectorworks. "This update features improved mobile accessibility, AI-powered design tools, enhanced interoperability, and performance refinements, allowing designers to work seamlessly from anywhere. These enhancements reinforce our commitment to innovation, ensuring our users have the flexibility, accuracy, and efficiency to reach their creative potential."

Vectorworks Nomad Upgrades: Smarter, Smoother, and More Precise

Vectorworks 2025 Update 4 delivers significant enhancements to the Vectorworks Nomad mobile app for iOS, improving accessibility, usability, and collaboration for designers on the go.

The Vectorworks Nomad interface has been redesigned for a more intuitive experience, aligning with the Vectorworks desktop application for familiar navigation. Users can now filter and find files more efficiently, save directly to organized folders, and access tools with minimal effort. Additionally, users can harness the new guest mode to share information with external collaborators.

With Nomad Object Capture, users can also unlock the full potential of mobile 3D object scanning using Apple's advanced Reality Capture tools. The LiDAR sensor on supported devices

enables detailed texture capture, allowing designers to integrate high-fidelity scans into their Vectorworks projects. A redesigned interface ensures all reality capture modes are easily accessible, while improved device compatibility notifications inform users of available features, maximizing their mobile workflow.

Enhancing collaboration, Update 4 introduces a native viewer for the Cloud Document Reviewer to the Nomad app, bringing desktop-level control to iOS devices. Users can view, measure, and markup project sheets remotely, whether in the office, on-site, or offline. With the ability to access documents anytime, anywhere, Nomad can now be used as a powerful tool for coordination and enhanced productivity beyond the desktop.

"We've enhanced the Vectorworks Nomad app to provide a more intuitive and powerful mobile experience, ensuring designers can seamlessly access, review, and collaborate on projects from anywhere," said Vladislav Stanev, vice president of product management at Vectorworks. "Leveraging Apple's latest Reality Capture technology allows users to now capture and visualize real-world textures with incredible precision. These improvements, a more cohesive interface, and offline access empower our users with the flexibility and efficiency they need to keep their workflows moving."

AI Image Enhancements

Update 4 also delivers significant enhancements to the AI Visualizer, giving designers more control over AI-generated imagery. New capabilities include inpainting for precise edits, image style transfer for custom aesthetics, enhanced detail creation for high-definition visuals, and adjustable aspect ratios for greater image proportion control. Additionally, new options make generating textures, fills, and image props easier, allowing for effortless integration into projects. These updates aim to improve design processes and further solidify state-of-the-art AI technology in the Vectorworks workspace.

Advanced Rotational Force Analysis with Braceworks Chord Loading

This feature provides precise rotational force analysis for individual truss chords, ensuring the safety and stability of the designed truss structure. It includes a visual display of the direction and value of rotation force, customizable thresholds, and chord-based reporting for improved control and clarity, allowing customers to reduce the risk of designed truss systems.

New Partner Integrations Enhance Workflow Flexibility and Performance

Update 4 expands the Vectorworks ecosystem with new partner integrations through its Partner Network to enhance workflow efficiency.

For landscape design professionals in Australia and New Zealand, a new EvergreenConnect integration streamlines plant specification management within Vectorworks Landmark. Designers can now directly verify plant availability, required quantities, and pricing in their workflow, reducing manual checks and ensuring more accurate project planning.

For Windows users, Vectorworks has partnered with nCircle to improve reality capture workflows. This integration allows designers to import RCS/RCP files directly into Vectorworks

without complex, time-consuming conversions, enabling a more fluid and efficient experience when working with point cloud data.

Wipro Brings Sovereign AI Services with NVIDIA AI to Governments and Enterprises Around the World

19 March 2025

Wipro Limited, a leading technology services and consulting company, announced new agentic AI services to empower nations around the globe to develop and deploy artificial intelligence (AI) capabilities leveraging their unique infrastructure, data, workforce and business networks to drive innovation, economic growth and sovereignty.

The offerings leverage AI for local impact by bringing together Wipro's locally governed AI frameworks powered by Wipro's WeGA Studio and NVIDIA AI Enterprise software to enable:

- A wide range of applications through an Agentic AI powered ecosystem, that can transform citizen experiences in Banking & Financial services, Emergency services, Healthcare services and Education services, driving public sector innovation and fostering economic growth.
- The unlocking of customized large language models (LLM) for local languages, starting with Thai and expanding to other languages in India and South Asian countries, including Arabic that can deliver more accurate and culturally relevant AI interactions.
- Access to pre-built responsible AI accelerators to help clients rapidly build customized use cases and high-performance models that support their unique objectives.
- Privacy and security compliance that ensures data and AI sovereignty.

Wipro's WeGA Sovereign AI solutions are built on NVIDIA NeMo™ microservices, including:

- NVIDIA NeMo Customizer – a high-performance, scalable microservice that simplifies the fine-tuning and alignment of LLMs.
- NVIDIA NeM Curator – high quality multi-lingual synthetic data generation models for training LLM models.
- NVIDIA NeMo Evaluator – supports model quality evaluations and benchmark preparation.
- NVIDIA NeM Retriever - a collection of microservices that provide world-class information retrieval with high accuracy and maximum data privacy.

These NVIDIA technologies, combined with NVIDIA NIM™ microservices and NVIDIA Blueprints help create scalable and flexible architectures, enable the development, optimization, and deployment of AI models within the sovereign AI environment, ensuring data sovereignty, security and localized control.

"There's a rising demand for ethical AI practices and transparency in AI decision-making processes," said **Nagendra Bandaru, President and Managing Partner, Wipro Technology**

Services. “Organizations are seeking AI solutions that are not only effective but also ethical and transparent. By working together with NVIDIA, we will be able to quickly deploy AI agent systems and technologies while addressing the increased concerns many government agencies and organizations have over data privacy, security, and national sovereignty.”

“AI agents can help rapidly serve the changing needs of growing populations," said **John Fanelli, Vice President, Enterprise Software at NVIDIA**. “Wipro’s experience with the NVIDIA AI Software platform provides a powerful foundation for assisting nations and local governments in building and deploying AI agent services that are tailored to the needs of their languages and culture.”

Ratanaphon Wongnapachant, CEO, SIAM.AI Cloud, who recently collaborated with Wipro to deliver sovereign AI services to the Tourism Authority of Thailand, added, “Thailand's AI future thrives when we harness our local resources and empower Thai talent using world-class technology. As Thailand's first NVIDIA Cloud Partner (NCP), SIAM.AI CLOUD provides the foundation for our nation's sovereign AI strategy—combining global technological excellence with local expertise to address our unique challenges while preserving our cultural values and technological independence. Our recent collaboration with Wipro to deliver AI services to the Tourism Authority of Thailand demonstrates how strategic partnerships enhance our capabilities. Working alongside technology partners like Wipro and NVIDIA, we're building a self-sufficient AI ecosystem that includes emergency and financial services which enables Thailand to lead in the AI era on our own terms.”

Zero Cost, Big Impact: Why Revizto Made Expert Certifications Free

19 March 2025

Revizto is breaking down barriers to education and expertise—all content, including Expert Level 1-3 Certification courses on Revizto Academy, is now completely free. This means that AECO professionals, students, and anyone eager to level up and show off their skills in Revizto can now gain certification at no cost.

A Commitment to Accessibility and Innovation

Revizto Academy (formerly RED Academy) was launched with a clear purpose: to empower users with the knowledge and skills to maximize their use of the Revizto platform. The certification program was designed to ensure that users not only learn the best practices of coordination but also have a tangible way to demonstrate their expertise.

“This initiative is a key part of our commitment to create a new standard for coordination in the AECO industry. By democratizing access to top-tier training, we will foster a richer, more engaged community of professionals and enthusiasts who can elevate and celebrate their skills and contribute to our collective success.”
Jason Howden
Chief Innovation Officer
Revizto

Revizto's certification program consists of three levels designed to validate users' expertise.

- **Level 1 (Collaboration Essentials)** – covers core navigation, 2D/3D workspaces, and Issue Tracker fundamentals; ideal for individuals new to Revizto.
- **Level 2 (Coordination Mastery)** – is tailored for BIM/VDC/DE Coordinators with over six months of experience with the platform, focusing on advanced coordination, project roles, permissions, and clash automation.
- **Level 3 (Expert)** – just launched in February 2025, is the highest certification level for administrators responsible for implementing Revizto in their organizations.

How Free Certifications Elevate the Industry

By making these certifications free, Revizto hopes more people take advantage of this opportunity to take their skills to the next level and bring them back to the field or office. This move will have significant ripple effects across the industry:

- **Incentivizing Learning** – Removing cost barriers means more users will complete their training, ensuring they get the most out of Revizto's powerful coordination tools.
- **Boosting Professional Credentials** – Certifications provide users with a verified way to showcase their expertise, enhancing their resumes and professional opportunities.
- **Driving Technology Adoption** – When trained professionals advocate for tools like Revizto within their firms, it helps teams adopt the platform more effectively and standardize coordination practices.

With this bold step, Revizto is not just providing free education—it's shaping the future of AECO coordination. The next era of digital collaboration starts now. Start learning today at Revizto Academy.