

## Contents

|   |    |
|---|----|
| CIMdata News.....   | 4  |
| Enabling Smart User Experiences 2024: Oracle Applications & Industry Analyst Summit – a CIMdata Commentary.....                           | 4  |
| Acquisitions.....   | 8  |
| Accenture to Acquire OPENSTREAM HOLDINGS to Help Clients Advance Their Data-Driven Business Reinvention .....                             | 8  |
| Addnode Group acquires 100% of the software GPS Timber .....  | 9  |
| Infosys Completes Acquisition of Leading Semiconductor Design Services Provider, InSemi   | 9  |
| Company News .....  | 10 |
| ABB invests in Industrial to accelerate decarbonization through AI-powered energy management technologies .....                           | 10 |
| Accenture Invests in Turbine to Accelerate Use of AI-Powered Cell Simulations for Biopharma Research and Development .....                | 11 |
| Accenture Takes New Steps to Help Clients Scale Generative AI Responsibly .....   | 12 |
| Altair Earns ISO/IEC27001:2022 Certification for Global Operations.....   | 14 |
| Aspen Technology Announces Robert Whelan, Jr. as Newly Elected Board Chair.....   | 14 |
| DECIDE4ECO USES DATA SPACE FOR SUSTAINABLE PRODUCT DEVELOPMENT .....  | 15 |
| DXC Technology and Ferrovial to Co-create New Generative Artificial Intelligence Platform .....   | 17 |
| Hexagon adds two industry veterans to solidify leadership across Enterprise Asset Management and Asset Performance Management teams ..... | 18 |
| Honeywell And Weatherford Partner To Deliver A New Emissions Management Solution For The Oil And Gas Industry .....                       | 19 |
| IBM and SAP Plan to Expand Collaboration to Help Clients Become Next-Generation Enterprises with Generative AI .....                      | 20 |
| Keysight Releases 2023 Corporate Social Responsibility Report and Disclosures .....   | 22 |
| SAP Extends Contract with CEO Christian Klein.....  | 23 |
| Siemens’ Techcellence Awards recognizes digital transformation and sustainability leaders, innovators and community champions .....       | 24 |

|   |    |
|---|----|
| Tango Appoints Tim Redfern as Chief Financial Officer .....   | 26 |
| Trimble Infinity Awards Honor 18 Organizations for Excellence in Capital Program and Infrastructure Asset Lifecycle Management..... | 26 |
| Wipro Appoints Sanjeev Jain as Chief Operating Officer.....   | 28 |
| Wipro Appoints Vinay Firake as Chief Executive Officer for APMEA Strategic Market Unit  | 29 |
| Event News .....  | 30 |
| Cadence’s Nimish Modi to Present at Needham Conference .....  | 30 |
| Trimble Opens Registration for 2024 Insight Tech Conference .....   | 30 |
| Xometry to Participate in Upcoming Investor Conferences .....   | 31 |
| Financial News .....  | 32 |
| American Software to Announce Fourth Quarter and Fiscal Year 2024 Preliminary Financial Results.....                                | 32 |
| CENIT recorded a significant year-on-year increase in Group sales of around 16.4% to EUR 50,545 k in the first quarter of 2024..... | 32 |
| Copperleaf Announces First Quarter 2024 Results .....   | 33 |
| HOMAG Group with expected decline in sales and earnings in the first quarter of 2024 ...  | 35 |
| MariaDB Files Second Quarter Fiscal 2024 Financial Results .....  | 36 |
| Nano Dimension Announces Q1/2024 Conference Call to Discuss Quarterly Results.....  | 36 |
| Stratasys Conference Call to Discuss First Quarter 2024 Financial Results .....   | 37 |
| Velo3D Announces First Quarter 2024 Financial Results .....   | 37 |
| Implementation Investments .....  | 40 |
| Clarks Announces Partnership with Centric Software .....  | 40 |
| Colt Technology Services Collaborates with Infosys to Accelerate its Digital Transformation Program.....                            | 40 |
| Infosys and Formula E Strike New Partnership to Enable Next-Gen Fan Experiences Powered by AI and Digital Innovations.....          | 41 |
| Infosys Collaborates with First Abu Dhabi Bank to Optimize and Modernize its IT Infrastructure Services .....                       | 42 |
| Intermodal Terminal Company (ITC) chooses Hexagon to deliver groundbreaking Australian rail terminal.....                           | 43 |
| JLR and Dassault Systèmes Extend Partnership, Deploying the 3DEXPERIENCE Platform for All Vehicle Programs Worldwide .....          | 44 |

|  |    |
|--|----|
| Medidata Selected by Worldwide Clinical Trials to Accelerate Trials and Transform Patient Experience.....  | 45 |
| Microvellum Supports RCHS Tech Program in Advancing Student Education .....  | 46 |
| Razorleaf Wins Boeing Contract for C-17 Aircraft PLM Software Upgrade.....   | 47 |
| Siemens and Foxconn team up to optimize forward-thinking manufacturing .....   | 47 |
| Product News.....  | 48 |
| DELTEK TIPQA RECEIVES SAFETY ELEMENT APPROVAL FROM THE FEDERAL AVIATION ADMINISTRATION, UNDERSCORING ITS COMMITMENT TO QUALITY, COMPLIANCE AND SAFETY..... | 48 |
| Eviden announces JARVICE AI Platform Software as the latest addition to its growing AI computing portfolio .....   | 49 |
| Flexxbotics Announces Latest Release for Multi-Factory Robot-Driven Manufacturing with Autonomous Process Control .....                                    | 50 |
| Introducing ZWCAD 2025: Create Amazing Things.....   | 50 |
| Matterport Unveils Reporting Tool to Showcase Carbon Reduction Achieved Using Digital Twins .....  | 52 |
| NUMROTO X: NUM sets New Standards in Flexibility and Precision for Tool Grinding.....  | 53 |
| OpenBOM What’s New, May 10th, 2024 .....   | 54 |
| Plataine Unveils Live 3D Map Solution for Enhanced Visibility & Control of Production Processes.....   | 54 |
| Sandvik Coromant enhances sustainability insights with Productivity Analyzer .....   | 55 |
| Siemens makes it easier for water utilities to benefit from artificial intelligence .....  | 56 |
| Siemens partners with Microsoft to deliver AI-enhanced solutions for resilient product lifecycle management with Azure .....                               | 57 |
| Siemens to transform engineering workforce of the future with new industry credential program.....   | 58 |
| Siemens Xcelerator as a Service expands across product lifecycle with new cloud services for design, simulation, operations and PLM.....                   | 60 |
| Simulations Plus Releases GastroPlus® X, The Next Generation PBPK/PBBM Modeling & Simulation Software.....   | 61 |
| The wisdom of the crowd: 3Dfindit uses AI to make 6 billion downloads available to the public.....   | 62 |

## CIMdata News

### *Enabling Smart User Experiences 2024: Oracle Applications & Industry Analyst Summit – a CIMdata Commentary*

17 May 2024

#### Key Takeaways

- The 2024 Oracle Applications & Industry Analyst Summit offered an in-depth look at Oracle's progress since Oracle CloudWorld last year and their expansive plans for the year to come.
- Consumer grade+ user experiences are the expectation, with embedded traditional and generative AI making users and their companies more productive and effective.
- Their Redwood design system is being leveraged to great effect across their applications portfolio and will help their customers and partners to extend Oracle's offerings to meet new business needs.
- Oracle Fusion Cloud PLM continues to evolve, with user adoption ramping up. At the same time, Oracle Agile once again gets an end-of-life (EOL) extension to continue to support its long-time customer base.

CIMdata had the pleasure of attending the 2024 Oracle Applications & Industry Analyst Summit in Redwood Shores, CA on 24-25 April 2024. [\[1\]](#) Mr. Steve Miranda, Oracle's Executive Vice President, Application Development, kicked off the first afternoon session providing an Oracle Fusion Applications Strategy Update. Early in his remarks, Mr. Miranda displayed a slide of customers on Fusion applications on the cloud. He claimed all were running the same version of the software, a stark contrast to the on-premises world where Independent Software Vendors (ISVs) like Oracle could have nearly infinite permutations of customer installations of the same "product." This could not be a technical conference without a discussion of artificial intelligence (AI). At CloudWorld last year Mr. Miranda stated that Oracle would have 40+ AI use cases in their products in the coming releases. Based on his remarks they have bested that estimate. Of course, Oracle has had "classic AI" in their products for years, as have other ISVs. To support generative AI uses cases, Oracle added a Large Language Model (LLM) as part of the Oracle Cloud Infrastructure (OCI) stack, making it available across their cloud portfolio. During his remarks he highlighted examples from: narrative reporting in enterprise resource planning (ERP), where the app starts with existing material and summarizes it for consumption; helping users create inputs to supply chain management (SCM); and helping users create item descriptions in product lifecycle management (PLM). In cases where users are offered AI assistance (by the push of a button), the users get to review all created or modified inputs before they become part of the record in the system. Mr. Miranda emphasized that AI technology is embedded in the applications out-of-the-box at no additional charge, apparently not the case at some other software companies. The 50+ generative AI capabilities are available to all customers.

Mr. Miranda also announced an exciting initiative called Smart Operations that elevates Oracle's capabilities to support manufacturing environments with broad capabilities and interconnects factories with the broader supply chain, product development, finance, and human resources functions. This new offering expands Oracle's position in the manufacturing execution systems (MES) market segment. Fusion Cloud Smart Operations includes four offerings in its initial release:

- Operators Workbench—automated data capture and continuous monitoring
- Digital Work Instructions—visual guidance on real-time manufacturing execution processes
- Maintenance Technician Workbench—generative AI assistance with tasks, service history, and a knowledge base
- Production Supervisor Workbench—AI-powered anomaly detection and opportunity insights

Mr. Miranda claimed that with this offering Oracle would “harness digital technologies to move supply chain and manufacturing operations into the cloud era.” This more tightly integrated offering will help Oracle connect their digital thread across the manufacturing execution divide. Oracle has some early customers helping to guide development and CIMdata looks forward to see what other functionality they include in coming releases.

Next up, Mr. Mike Sicilia, EVP of Oracle Industries, provided an update on their industry strategy. He emphasized that customer challenges vary by industry, and evolve in different ways. Oracle claims to be uniquely positioned to offer an end-to-end solution for their targeted industries. This talk highlighted a fine line that Oracle has to walk: they have a comprehensive platform that includes leading capabilities in many application segments, such as ERP, SCM, human capital management (HCM), and customer experience (CX). Some customers have bought into the complete platform vision. But Oracle must also accommodate customers whose information technology (IT) landscape includes solutions from other providers. Oracle maintains that their main concern is customer success, with a full Oracle stack or something more heterogeneous. The key enabler of this vision is the OCI stack of comprehensive services to support Oracle applications or the integration of other products into a customer's solution. Industries of interest include communications, energy & water, engineering & construction, financial services, food & beverage, healthcare, hospitality, life sciences, local government & public safety, and retail. He quickly reviewed Oracle Cloud for Banking, Oracle Cloud for Healthcare (leveraging their Cerner acquisition and considerable tech stack), and Oracle Cloud for Retail. These are supported by cross-industry initiatives like OCI, autonomous database, their Redwood design system, enterprise communications, payments, and eGovernment. Other ISVs have been successful with an industry approach and Oracle appears to be making the right investments to strengthen its competitive position in key vertical markets.

The focus on AI continued with Ms. Miranda Nash, Group VP, Applications Development & Strategy, Fusion AI providing an update on AI in applications and industries. Ms. Nash claimed that AI was a key ingredient in every Oracle product, embedded to reduce complexity, cost, and

risk. Their AI capabilities are designed to be practical and grounded in fact (as most LLMs are, one hopes). Their approach will not require customers to piece together their own solution and hire their own data scientists (which is good because they are difficult to find and expensive). At CloudWorld last year Oracle used the phrase “radical practicality” and it drives their approach today. Their capabilities are practical and embedded in the applications to help with existing workflows. CIMdata agrees with this approach first highlighted by CIMdata in our 2019 CIMdata PLM Market & Industry Forum on “augmented intelligence.” These embedded capabilities enhance a users’ capabilities and can improve their performance, both in volume of work and its quality. Just as with all generative AI, adopters must beware of hallucinations and bias that can emerge from applying LLMs to such problems. That is why Oracle provides guardrails to measure the accuracy of support provided, and give users the ability to overrule the AI.

Oracle’s Redwood design system helps provide a consistent user experience (UX) across their myriad applications. In our industry analyst role, CIMdata attends a range of ISV conferences and has watched UX move well beyond style sheets to using design thinking to reimagine how software capabilities are delivered. Mr. Jeff Price, Oracle VP for the Oracle Applications Platform, provided a comprehensive and much needed update about Redwood. He cited their three high-level goals:

- Consumer grade+ UX
- Intelligent & Integrated—customers use their data to help themselves, not to help other companies or to train AI
- Created the same way Oracle does—Oracle builds their applications using Redwood and enables customers and partners to do it too

According to Mr. Price, Redwood use has grown significantly between 2023 and 2024. There are over 54 applications using Redwood, with twice the number of customers and three times the users. More importantly, ten times the number of customers are using Redwood to extend their applications. Redwood enables no-code development based on business rules, low-code visual development using drag and drop logic, and “pro-code” tools for full-time developers who have full access to the underlying code. Mr. Price claimed that Oracle was rebuilding apps from their Cerner acquisition using Apex, part of the Redwood design system. Providing strong no-code/low-code capabilities has grown more common in the PLM space in the last few years and Redwood will help partners and customers adapt and extend Oracle applications themselves to meet current and future business needs. CIMdata was impressed by their progress to date.

On day two, Mr. Jon Chorley, Oracle’s Chief Sustainability Officer and Group VP of product strategy for SCM, focused on Oracle’s direction for supply chain and manufacturing. He claimed we are in a “no new normal” environment post-pandemic and that Oracle is well positioned with their investments in UX and generative AI to meet these new challenges. For example, he claimed that their HCM application is 100% Redwood. According to Mr. Chorley, Oracle’s cloud-native apps are now at parity or better with their on-premises predecessors and Oracle’s end-to-end platform is resonating with their customers and prospects. But, once again, while they have a broad and deep platform, Oracle recognizes that all customers do not want their IT

landscape dominated by one provider. Mr. Chorley also provided some color on the company's Smart Operations offering and related initiatives. Oracle's vision is to provide holistic capabilities, so that most manufacturing companies do not need a dedicated MES. Their goal is not to replace all MES in the market, just to help customers recognize that many will not require a stand-alone MES application when using Oracle's modern cloud applications.

Mr. Geoff de Carbonnel, VP, SCM Product Strategy, Manufacturing and Maintenance, provided brief demonstrations of their initial Smart Operations offerings, which will start rolling out later this year. Traditional AI is leveraged across the Oracle portfolio, and generative AI is making its way into all of their Fusion applications. In many cases, the "AI Assist" button awaits a user push to offer assistance on the task at hand. In each case, generative AI offers up its assistance and awaits the user's review and acceptance. While this co-pilot approach keeps the human in the loop, CIMdata thinks that this could go astray when users do not take their reviewer role seriously enough. Users often blithely accept information on their screens, not reviewing it as closely as a proofreader with a manuscript. These applications are new and it will take some time for these new computer/human interactions to become routine.

As part of the event, CIMdata was able to sit down with Mr. John Kelley, Oracle's VP of PLM Products, to get an update on their PLM portfolio. Their Oracle Fusion Cloud PLM offering continues to evolve, including leveraging generative AI. They also continue to offer their on-premises solutions, Oracle Agile PLM and Oracle PLM for Process (P4P). Oracle Agile is still on release 9.3.6 which had an end-of-life (EOL) date of 2025. "Had" is the operative word in that sentence, as Agile's EOL date is tied to the EOL dates of database and middleware products upon which it relies. Oracle continues to offer Agile release upgrade packs (RUPs), and security upgrades and bug fixes. Since the EOL for the underlying database and middleware just moved out to 2027, so will the EOL for Agile. Mr. Kelley claimed that the functionality gaps between Agile and their cloud offerings have been closed, with customers moving more easily than before. Customers used to have to keep Agile for CAD data management but partners have developed new direct CAD integrations to their cloud offering, which will eliminate this requirement.

These are just the highlights from a jam-packed 1.5-day event. Their end-to-end cloud-based offerings are impressive and architected to support continued evolution by both Oracle and their customers and partners. This is important because technologies like generative AI are so fast moving and ISVs need to be nimble in their usage of them to benefit their customers. Customers are also changing rapidly in our "no new normal" reality. Their evolving businesses and competitive environment demand resilience from their ISVs and Oracle is well positioned to support their customers to meet their expanding needs.

---

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

## Acquisitions

### *Accenture to Acquire OPENSTREAM HOLDINGS to Help Clients Advance Their Data-Driven Business Reinvention*

17 May 2024

Accenture has agreed to acquire OPENSTREAM HOLDINGS and its subsidiaries, Open Stream and Neutral, to help clients reinvent their businesses with advanced digital technologies and become truly data-driven. Terms of the transaction were not disclosed.

The acquisition will add approximately 1,000 cloud and other digital experts to Accenture's cloud and digital engineering and manufacturing teams. They will strengthen Accenture's capabilities to support clients in system and application modernization and help them adopt cloud, data, AI and IoT technologies. They will also enhance Accenture's business by bringing a strong client portfolio and automation solutions for the entire product value chain, from procurement and manufacturing processes to logistics and after-sales service.

Open Stream, with a team of 600 professionals, provides consulting and systems integration services, and advanced technologies, including cloud, AI, IoT and cybersecurity, for logistics and retail industries. The firm also offers low-code development platforms for production management, inventory management, logistics and accounting systems used by more than 2,800 companies, and solutions for smart factories. Open Stream became part of OPENSTREAM HOLDINGS in 2020.

Neutral and its 400 professionals specialize in system integration in the automotive and the manufacturing industries. The firm has built strong credentials in manufacturing management, 3D computer-aided design and computer-aided engineering solutions for the manufacturing industry, system integration of electronic medical records for medical institutions, system integration for local governments, and AI-powered forecasting, root cause analysis and predictive maintenance tools. Neutral joined OPENSTREAM HOLDINGS in 2021.

"With OPENSTREAM HOLDINGS, we can better help our clients reinvent their businesses and become truly data-driven," said Atsushi Egawa who leads Accenture's business in Japan. "The cloud and digital expertise that OPENSTREAM HOLDINGS, Open Stream and Neutral possess aligns perfectly with Accenture's broad capabilities and deep experience in cloud, data and AI. Open Stream's and Neutral's talent, solutions and client relationships with manufacturing and logistics companies will also strengthen our Industry X service. Our shared culture and strategy of embracing change will allow us to help Japanese companies scale faster and achieve value quicker."

"Under our group vision of 'continuously challenging the norm', OPENSTREAM HOLDINGS has been attuned to changes in society and the market, contributing to the creation of a future society enabled by advanced digital technologies," said Kazuhiko Yoshihara, Representative Director & President of OPENSTREAM HOLDINGS. "Recognizing the accelerated pace of digital reinvention, we aim to be a constant presence that galvanizes the industry by walking together with our clients. Accenture is a company that has realized similar ideals across industries and

borders. By joining together, we can further leverage the achievements and experiences we have built in a wide range of fields and contribute to the creation of a better future society.”

By acquiring OPENSTREAM HOLDINGS and its subsidiaries, Accenture continues to invest in its technology and digital engineering and manufacturing capabilities in Japan. In April, the company acquired CLIMB, a technology services provider for system integration, IT infrastructure management and operations, primarily in the Gunma Prefecture. In January, Accenture established a joint venture with MUJIN to bring AI and robotics to the manufacturing and logistics industries. In 2022, it added Trancom ITS’ digital engineering and operational technology capabilities to its Industry X business. In 2021, it acquired DI Square’s consulting capabilities for product lifecycle management (PLM) and application lifecycle management (ALM) systems integration.

Completion of the acquisition is subject to customary closing conditions.

### *Addnode Group acquires 100% of the software GPS Timber*

13 May 2024

Icebound, a company in division Process Management, announces that it has acquired 100% of the software GPS Timber. GPS Timber is a product that has previously been jointly and equally owned with Datapolarna. Net sales amounts to SEK 7.5 m.

GPS Timber is a product for timberyard logistics and driver support that facilitates accurate and efficient management of raw materials at sawmills and pulp mills. The product is currently installed in over 40 industry facilities around Europe.

The acquisition strengthens Icebound's offering and market position as an international player in digital solutions for the forest sector and other basic industries.

*"GPS Timber is a vital system for clients who operates a sustainable and efficient sawmill or pulp mill industry. It is our second acquisition since we established Icebound earlier this year and is in line with our ambition to continuously invest in and develop our offering to the forest and timber industry”,* says Staffan Bygden, CEO of Icebound.

### *Infosys Completes Acquisition of Leading Semiconductor Design Services Provider, InSemi*

10 May 2024

Infosys a global leader in next-generation digital services and consulting, announced that it has completed the acquisition of InSemi, a leading semiconductor design and embedded services provider. This follows the announcement the company made on January 11, 2024.

Infosys has been at the forefront of delivering cutting edge solutions across industries with Engineering R&D services. The strategic investment with InSemi reaffirms Infosys’ commitment to the semiconductor ecosystem and strengthens expertise in Engineering R&D services. Semiconductors are at the heart of the technology which is driving exponential growth of Artificial Intelligence (AI), 5G, Hyperconnectivity, High Performance Computing, Quantum Technology, Electric Vehicles, Virtual Reality, IoT and Smart Devices. This collaboration helps

accelerate Infosys' Chip-to-Cloud strategy, by bringing niche design skills at scale and will also pair seamlessly with existing investments in AI/Automation platforms and industry partnerships. The collaboration will aim to orchestrate comprehensive end-to-end product development for global clients to help them navigate their digital transformation journey.

InSemi offers end-to-end semiconductor design services with expertise across electronic design, platform design, automation, embedded and software technologies. It serves leading global corporations across semi-conductor, consumer electronics, automotive, and hi-tech industries. InSemi is growing expeditiously and a team of over 900+ design specialists bring in the competitive advantage, agile mindset, and an innovative approach to build technology-led solutions that transform businesses.

Infosys is delighted to welcome InSemi and its leadership team.

## Company News

### *ABB invests in Ndustrial to accelerate decarbonization through AI-powered energy management technologies*

14 May 2024

ABB announced a minority investment in Ndustrial, a US-based clean technology startup that has developed a leading-edge, AI-powered energy management platform. This innovative technology enables smarter, production-aware energy decisions in real time, helping customers reduce operating costs, optimize energy consumption and accelerate decarbonization. The investment was made through ABB Ventures. Financial details were not disclosed.

The transaction follows ABB taking a minority stake in GridBeyond in April 2024, a start-up providing energy management solutions based on AI and data science that will enable customers to optimize distributed energy resources and industrial loads.

Ndustrial helps companies measure and reduce their energy intensity – the energy required for a pre-defined unit of output or activity. By integrating multiple, and often disparate, data sources such as weather, market rates, equipment performance, industrial process outputs and more, companies can analyze, optimize and predict their energy usage and costs per unit of production. This enables real-time decisions, as well as actionable insights and automated control specific to the industry, facility or production line being optimized.

“Championing sustainability and guiding customers to achieve net zero carbon is at the core of what we do,” said Stuart Thompson, President, ABB Electrification Service. “Through our Advisory Services we are building an ecosystem of innovative, nimble partners to co-develop advancements in digital solutions to complement our portfolio and enhance the availability, resilience, safety and sustainability of energy for customers.

“This partnership with Ndustrial means we can accelerate decarbonization for our customers by leveraging AI-powered predictions to make decisions in real-time so they can optimize production, save energy, and reduce costs and emissions.”

Twice named as one of the World's Top 100 Energy & Climate Tech startups by Start Up Energy Transition (powered by the German Energy Agency in cooperation with the World Energy Council), Ndustrial's vision complements ABB's drive to enable the energy transformation and decarbonization of industry. The company has around 40 employees.

Ndustrial's Co-Founder and Chief Technology Officer John Crawford said: "In a world preoccupied with AI that often delivers nebulous benefits, Ndustrial stands out for our decade of experience quantifying impressive payoffs from machine learning optimizations. Our team of industrial engineers and software developers have created a new kind of energy management system for industrial operations, and with ABB's expertise and global reach, we'll be able to make a real impact in accelerating the global energy transition. We are all extremely excited to see how far and how fast we can go."

To date, Ndustrial has helped companies avoid over \$100 million in energy costs over 10 years. Lineage, a global cold storage leader, saw a 30 percent reduction in both energy costs and energy intensity, over seven years, equivalent to powering 250,000 homes annually.

Mads Moeller, Head of ABB Electrification Ventures, said, "Ndustrial's track record, technology platform and experienced team make them stand out. Our investment reflects ABB's commitment to innovative companies driving industrial electrification and energy savings for customers."

### *Accenture Invests in Turbine to Accelerate Use of AI-Powered Cell Simulations for Biopharma Research and Development*

16 May 2024

Accenture has made a strategic investment, through Accenture Ventures, in Turbine, a predictive simulation company that is building a platform for interpreting human biology. Accenture's investment will help Turbine further extend its capabilities to global biopharma companies that can benefit from Turbine's ability to uncover hidden biological insights, with the potential to guide and accelerate key drug development workstreams.

Turbine's core technology, the Simulated Cell™ platform, utilizes machine learning to understand how human cells make decisions. The platform intricately models molecular interactions within and around cells, enabling virtual experiments in volumes that are nearly impossible to achieve in the physical world and revealing mechanisms that drive diseases and response to therapies.

"Advanced technology and digital capabilities are clearly becoming substantial differentiators in the biopharma industry, and the future of drug discovery will be powered by AI," said Tom Lounibos, global lead of Accenture Ventures. "Turbine's AI-based platform has clearly demonstrated the ability to unlock high-quality biological insights for our clients across the biopharma industry."

Turbine's platform is being validated with leading pharma companies to uncover promising drug targets, select patient populations most likely to benefit from therapy, and identify combination therapy regimens that can increase therapeutic benefit in certain patients. This

allows Turbine to reveal treatments otherwise hidden from view, as well as potential drugs that work in the lab but would likely fail in clinical trials.

Petra Jantzer, Ph.D., a senior managing director and global lead of the Accenture Life Sciences business, said, “Turbine's Simulated Cell™ platform has emerged as a valuable tool for global biopharma companies to gain insights into the intricacies of biological systems, which can lead to the development of targeted treatments. Our investment reflects our commitment to supporting technology and digital capabilities that drive innovation in AI-based drug discovery, all with the goal of providing more effective treatments and enhancing patient care.”

“Since most unsolved complex diseases are heterogenous, progress in utilizing AI for drug discovery is hindered by ethical and technological limitations in sourcing deep and diverse ground truth data. To bridge this gap, we need a toolkit that can learn fundamental rules of biology on *in vitro* experiments and apply to patients that it has never seen before. Turbine's Simulated Cells can be engineered at scale to represent the heterogeneity of complex human disease better than currently available wet lab experimental models, which are inherently biased towards representing certain disease types and hardly scalable,” said Szabolcs Nagy, co-founder and CEO of Turbine. “By tapping into Accenture’s expertise, we hope to expand our market reach and augment our simulation platform in order to benefit the whole biopharma industry by ensuring that the next experiment is always the correct one.”

Turbine is the latest company to join Accenture Ventures’ Project Spotlight, an engagement and investment program focused on working with companies that create or apply disruptive enterprise technologies. Project Spotlight offers extensive access to Accenture’s domain expertise and its enterprise clients, helping startups harness creativity and deliver on the promise of their technology. Additional digital simulation companies in Project Spotlight include QuantHealth, Virtonomy and Ocean Genomics.

Terms of the investment were not disclosed.

## *Accenture Takes New Steps to Help Clients Scale Generative AI Responsibly*

14 May 2024

Accenture continues to expand its capability to assess, design, implement, scale and monitor AI systems in a responsible way to help its clients across industries drive value and growth.

As part of the move, Accenture has appointed Arnab Chakraborty, a longstanding leader in Accenture’s data & AI practice, as its first chief responsible AI officer, effective immediately. With more than two decades of expertise, Chakraborty holds 10 patents in machine learning solutions for business challenges. He has been involved in shaping the WEF AI Governance Alliance and as a member of the US Senate AI Insight Forum where he advises on the practical considerations of balancing AI innovation while mitigating risks.

“Clients are eager to embrace the potential of generative AI, and we are ready to help them build responsible AI into every use. We do this for ourselves, and we can use that example to help our clients find success faster,” said Julie Sweet, chair and CEO, Accenture. “Our focus is to

enable our clients to innovate AI safely and be ready to seize the opportunities that AI will bring in the decades ahead.”

The current rise of AI is unlike previous waves of innovation—the technology, regulation and business adoption are accelerating exponentially and simultaneously, creating a unique set of challenges and implications for organizations.

With the appointment of its first chief responsible AI officer, Accenture is taking steps to expand its responsible AI capabilities, solutions, platforms, ecosystem partnerships and thought leadership including:

- Expanding advisory and technology services to help companies establish policies, principles and standards and implement them through risk assessments and testing frameworks, powered by technology, assets and platforms, as well as ongoing monitoring and compliance, including navigate evolving regulatory landscapes, such as the EU AI Act.
- Introducing managed services that monitor AI solutions, systems and controls to help companies comply with fast-changing regulations.
- Investing in capabilities in gen AI testing, ongoing compliance, regulation management and security, and scaling these with its ecosystem partners.
- Focusing on education and empowerment through responsible AI academies for Accenture people and for clients, including their boards of directors and top leadership.

With a rich history of leading with responsible AI, Accenture will also extend the focus of its research partnerships, including with Stanford, MIT and the World Economic Forum, as well as expand its roles as a leading voice on responsible AI standards and governance. Combined with its work with ecosystem partners and experience with more than 1,000 generative AI client projects, Accenture is bringing its clients the capabilities they need to implement AI rapidly and safely throughout the enterprise.

Accenture recognizes that responsible AI requires taking intentional actions to design, deploy and use AI to create value and build trust and fuel innovation, while protecting from potential AI risks. The company has led by example since 2017, when it first embedded commitments to use AI responsibly in its Code of Business Ethics. In 2022, the company implemented an enterprise-wide responsible AI program, which focuses on tracking where AI is being used, understanding what it is being used for, assessing AI systems for levels of risk and implementing mitigation strategies to address those risks, and developing post-deployment monitoring programs to oversee AI systems on an ongoing basis. The program leverages technology to improve speed and user experience and also focuses on improving responsible AI literacy through required ethics and compliance training, deep technical training for AI practitioners and responsible AI training for the company’s more than 742,000 people as part of its Technology Quotient (TQ) program.

“Leaders acknowledge the importance of responsible AI principles, but there is a gap in their practical implementation—our research shows that only 2% of companies have fully

operationalized responsible AI across their organizations,” said Chakraborty. “Accenture will pave the way to help our clients establish and embed responsible AI, closing the gap between principles and action.”

### *Altair Earns ISO/IEC27001:2022 Certification for Global Operations*

15 May 2024

Altair, a global leader in computational intelligence, has earned the ISO/IEC27001:2022 – an information security management system (ISMS) certification – externally audited against the frameworks set by the International Organization for Standardization (ISO) and International Electrotechnical Commission (IEC). The certification for the 2022 framework solidifies Altair’s status as an international leader in information security and demonstrates its commitment to following the latest global information security frameworks.

“Altair’s focus on achieving global accreditation is unique even among the world’s most prominent technology organizations. Earning this certification is a monumental achievement and represents the culmination of years of hard work and investment from our global security teams,” said Jeff Marraccini, chief information security officer, Altair. “This is a massive step for Altair especially for our enterprise-level customers, where having ISMS certification is becoming more important. In a world where the security boundaries between client and vendor are blurring, an ISMS demonstrates Altair’s commitment to information security. This will open many new doors for us.”

According to the ISO, “Conformity with ISO/IEC 27001 means that an organization or business has put in place a system to manage risks related to the security of data owned or handled by the company, and that this system respects all the best practices and principles enshrined in this International Standard. An information security management system implemented according to this standard is a tool for risk management, cyber-resilience, and operational excellence.”

Holding this certification verifies that Altair complies with modern security requirements including web filtering, cloud security, threat intelligence, hybrid and remote work, and more. It also consists of the people, processes, and technology providing security controls supporting Altair’s business operations in software engineering, sales, technical support, human resources, and enterprise applications development.

### *Aspen Technology Announces Robert Whelan, Jr. as Newly Elected Board Chair*

14 May 2024

Aspen Technology, Inc., a global leader in industrial software, announced that Robert Whelan, Jr. has been appointed to Chair of AspenTech’s Board of Directors (the “Board”). This follows the decision by Jill Smith to resign from the Board for personal reasons.

Mr. Whelan became a member of the Board in 2011 and previously served as Board Chair from 2013 to 2021. Throughout his tenure on the Board, Mr. Whelan has helped guide the company into an established industrial software leader, including the strategic transaction with Emerson

Electric Co. Mr. Whelan also serves as a member of the Board's Human Capital and M&A committees.

"It's an honor to return to the role of Board Chair for AspenTech," said Whelan. "On behalf of the Board, I'd like to thank Jill for her service over the years. She's been a key advisor and trusted colleague through a pivotal time in the company's transformation journey. We wish her the best in her future endeavors."

"I'm delighted to welcome Bob back to the position of Board Chair," said Antonio Pietri, President and CEO of AspenTech. "Bob's proven leadership and extensive knowledge of AspenTech make him well-suited for this role. I look forward to continuing to partner with him closely to deliver long-term shareholder value."

Mr. Whelan is a Non-Emerson Director under the Stockholders Agreement by and among AspenTech, Emerson Electric Co. and EMR Worldwide Inc., dated as of May 16, 2022 (the "Stockholders Agreement"), previously filed with the Securities and Exchange Commission. Additionally, under the Stockholders Agreement, David Henshall, who served as a Non-Emerson Director following his appointment in April 2024, was re-designated as an Emerson Director on May 11, 2024. The Board intends to conduct a search over the coming months for a Non-Emerson Designee director under the Stockholders Agreement.

#### **About Robert Whelan, Jr.**

Robert Whelan, Jr. has over 35 years of corporate finance and investment banking experience. Since 2001, he has been President of Whelan & Company, LLC, providing financial consulting, valuation and strategic services to public and private companies in the technology, healthcare and alternative energy industries. From 1999 to 2001, Mr. Whelan served as Vice Chairman, Prudential Volpe Technology Group, the technology investment banking and research division of Prudential Securities formed when Prudential acquired Volpe Brown Whelan & Company in 1999. Prior to that, he was a senior executive with Volpe Brown Whelan, a private investment banking, brokerage and asset management firm for technology and healthcare companies. Previously, he was Managing Director, New York Regional and High Technology Groups at Prudential Securities, and Managing Director and Head of Corporate Finance at Hambrecht & Quist, Inc. Mr. Whelan served as a director for iAnthus Capital Holdings Inc. from 2019 to 2022, Annovis Bio, Inc. from 2016 to 2021, and ARIAD Pharmaceuticals, Inc. from 2010 to 2014, as well as other privately held companies. Mr. Whelan received a B.A. in History from Dartmouth College and an M.B.A. from the Stanford University Graduate School of Business.

### ***DECIDE4ECO USES DATA SPACE FOR SUSTAINABLE PRODUCT DEVELOPMENT***

17 May 2024

As part of the Manufacturing-X initiative to create trusted data spaces for manufacturing industry, the German Federal Ministry for Economic Affairs and Climate Action (BMWK) is funding the Decide4ECO consortium project to the tune of 7.3 million euros. The consortium of partners from the world of science, IT solution providers and industrial companies, headed up by PROSTEP, recently received confirmation of the grant. The project, which will run for two

and a half years, will address the question of how products can be developed and manufactured in a more sustainable manner and how this sustainability can be evaluated.

A large proportion of the resources that a product consumes over the course of its lifetime is determined during product development. And that is exactly where Decide4ECO comes into play. The aim of the research project is to develop methods and tools that support decision-making early in the product development process with a view to sustainable production and operation. This involves proactively evaluating the relevant sustainability requirements in the context of the entire product lifecycle and the entire value chain. It is therefore also necessary that the data that provides the basis for analyzing sustainability be collected across the entire production and supply chain.

It is intended that the data relevant to sustainability be exchanged and communicated via the Manufacturing-X data ecosystem. Within the framework of the project, the partners want to develop models and interfaces that make the data available to all the parties involved via the shared data space. It is also intended that the solutions for evaluating sustainability that build on this be supplemented by AI-based impact analyses with the aim of making it possible to compare product alternatives in terms of sustainability.

"With Decide4ECO, the BMWK is funding a project that focuses on the use of data ecosystems as early as during the product development phase," says Ernst Stöckl-Pukall, Head of Division, Digitalization, Industrie 4.0 at the BMWK. "The aim of the project is to provide support to companies and their supply chains in the context of developing and manufacturing sustainable products. This makes the project a key component in the cross-industry development and scaling of Manufacturing-X. We expect it to provide important impetus for ecological transformation into a circular economy."

In addition to PROSTEP, the Decide4ECO consortium includes the Chair of Product Design at Paderborn University, the IT solution providers CONTACT Software and Nexpirit, the industrial companies BOS, Sonova and Hadi-Plast, as well as Grant Thornton and Brainport Industries as associated partners. The partners from the scientific community will focus on method development and information modeling. The three IT solution providers will map the different use cases in a demonstrator that will then be implemented and tested by the industrial partners.

The legal team from Grant Thornton will ensure compliance with the Data Act and Data Governance Act and provide advice on the legal structure and legal framework of data ecosystems. All the partners will work together on the transfer and dissemination of the project results. In the Netherlands, this role will be performed by Brainport Industries.

As part of the project, PROSTEP will be developing an Eclipse Data Space Connector (EDC) for its tried-and-tested PLM integration platform OpenPDM to enable shared use of the Asset Administration Shell (AAS). The new connector will make it possible to integrate PLM, ERP and ALM systems that are connected via OpenPDM into Manufacturing-X and other data ecosystems. This will ensure availability of the information needed to evaluate sustainability. PROSTEP will also integrate functionality for impact analyses in its digital thread platform OpenCLM so that the sustainability of product alternatives can be evaluated.

"We want to use digital technologies to make it possible for product development to develop products in a sustainable manner and thus facilitate ecological transformation," says Dr. Martin Holland, Director Strategy & Business Development and main contact person for the project at PROSTEP. "We want to improve not only decision-making skills but also verifiability in the context of sustainability."

## *DXC Technology and FerroviaI to Co-create New Generative Artificial Intelligence Platform*

17 May 2024

DXC Technology, a leading Fortune 500 global technology services provider, will work with FerroviaI, one of the world's leading infrastructure companies, and Microsoft to jointly develop the generative Artificial Intelligence (AI) platform Quercus.

Quercus, which uses platform engineering principles as its foundations, will help organizations around the world to integrate secure, responsible AI solutions throughout their business operations to automate processes for improved profitability and efficiency.

DXC will standardize Quercus and offer it as an innovative AI solution for its global customers, tailoring the platform to meet individual customer needs. This will reduce the time required to create bespoke AI solutions and empower organizations to be more agile in deploying and realizing the benefits of generative AI to gain a significant competitive advantage in their industries.

Together, the three organizations will also accelerate and scale the adoption of generative AI as part of FerroviaI's transformation to improve its internal operations and market offerings.

DXC will be responsible for evolving, maintaining, and commercializing Quercus, which will run on Microsoft's Azure and OpenAI technology.

"This agreement marks a milestone in the advancement of AI-supported business services. Our unique collaboration with FerroviaI and Microsoft promises to revolutionize the way technology solutions are developed and applied within generative AI. We are confident Quercus will provide value to our customers and give them a significant competitive advantage in the market," said Howard Boville, Executive Vice President, Consulting & Engineering Services at DXC Technology.

FerroviaI has begun to implement an early version of the Quercus platform for its customers, creating an AI virtual assistant to support key business activities including human resources, health & safety, tenders, and cybersecurity intelligent agents.

"With DXC and Microsoft, we aim to roll out this platform widely across the market to optimize processes, generate designs, simplify applications for employee's health and safety, and, generally, improve operations," said Dimitris Bountolos, CIO of FerroviaI. "It will also enable us to accelerate the transformation of our own operations and has already helped us to evolve our AI market offering from a project-based approach to industrialized capabilities that foster greater innovation and business value."

Quercus will be able to integrate with mission critical business systems and coordinate with other generative AI models to maximize its potential performance impact for customers.

“Microsoft has strategic relationships with both Ferrovia and DXC, and we are very pleased to work with both companies on this initiative based on our Responsible AI technology. To ensure that the technology is integrated into our society both effectively and ethically, we believe that AI solutions must be designed and deployed bearing in mind critical aspects such as security, privacy, reliability, fairness, inclusiveness, accountability and transparency,” said Alberto Granados, President of Microsoft Spain.

### *Hexagon adds two industry veterans to solidify leadership across Enterprise Asset Management and Asset Performance Management teams*

9 May 2024

Hexagon’s Asset Lifecycle Intelligence division announced the addition of Tom Kurtz and Joe Nichols to senior leadership roles, reinforcing its commitment to the expansion of the company’s enterprise asset management (EAM) and asset performance management (APM) solutions. Kurtz will serve as Vice President, Portfolio Strategy for EAM; and Nichols will serve as Vice President, Portfolio Strategy for APM.

Both executives will lead the continued growth and evolution of Hexagon’s EAM and APM solutions and further Hexagon’s vision of the **Smart Digital Reality™** – where all data are digitally available, in one place, in real-time, with 360-degree context combining complete line-of-sight to every situation in an ever-changing world.

Their appointments come on the heels of Hexagon’s recent acquisition of **Itus Digital**, a leading APM provider that complements Hexagon’s **HxGN EAM platform** and its broader Hexagon portfolio of solutions. APM enhances the effectiveness of an Asset Lifecycle Intelligence strategy by providing real-time data, predictive insights and optimization opportunities, ensuring that assets are managed efficiently throughout their lifecycle.

“From the most complex facilities to the simplest tasks across a broad range of industries, customers rely on HxGN EAM, and now Itus Digital’s APM solutions, to provide valuable insights across the asset lifecycle,” said **Mattias Stenberg**, President, Hexagon’s Asset Lifecycle Intelligence division. “The addition of Tom and Joe will provide meaningful leadership to advance our EAM and APM solutions to drive greater value for our customers. Additionally, their leadership will be essential as Hexagon builds a Smart Digital Reality where data is leveraged to unlock more insights to provide transformational improvements in safety, quality, efficiency and productivity.”

**Tom Kurtz** served in several leadership positions at SAP. Most recently, Kurtz was vice president, Global Solution Lead, Asset and Service Management at SAP and managed SAP’s end-to-end portfolio for its EAM and field service management solutions. Prior to SAP, Kurtz held roles at Business Objects, Bravanta and Accenture. Kurtz holds a bachelor’s degree from Santa Clara (Calif.) University.

**Joe Nichols** was most recently co-founder and chief executive officer of Itus Digital until its acquisition by Hexagon in April 2024. Prior to founding Itus Digital, Nichols was chief operating officer and vice president of product strategy at GE following its acquisition of Meridium in 2016. Nichols started his career at Meridium, where he was responsible for driving the creation and go-to-market strategy for its market-creating asset performance management solutions. Nichols owns a degree in management of information systems from Radford (Va.) University.

HxGN EAM is an industry-leading asset management solution designed to extend asset lifecycles and improve productivity. With more than 30 years of experience and continuous innovation, HxGN EAM, and the addition of Itus Digital's solutions, empowers organizations to evolve from EAM to Asset Performance Management (APM).

Its wide range of risk, condition, and reliability-based maintenance instruments, and applied technologies like AI and ML can deliver accurate, trusted data and strategic insights to drive better decision-making while ensuring policy compliance.

### *Honeywell And Weatherford Partner To Deliver A New Emissions Management Solution For The Oil And Gas Industry*

9 May 2024

Honeywell and Weatherford announced a partnership to deliver a comprehensive emissions management solution for the energy industry. The agreement combines Honeywell's emissions management suite with Weatherford's Cygnet SCADA platform, providing customers with a powerful tool to monitor, report, and take measures to help reduce greenhouse gas emissions, flammable hydrocarbons, and other potentially dangerous and toxic gases.

The integrated solution enables upstream oil and gas operators to track emissions data in near real-time, identify and address potential issues, and meet regulatory requirements. The collaboration also provides customers with access to advanced analytics and reporting capabilities, helping them make data-driven decisions to reduce emissions, improve environmental performance and meet their environmental goals.

"Honeywell's partnership with Weatherford highlights the importance of empowering organizations with solutions that can help quantify and reduce emissions within the energy industry," said Pramesh Maheshwari, President of Honeywell Process Solutions. "By integrating our emissions management solution with Weatherford's well lifecycle technology, our customers can now accurately set targets and monitor near real-time progress on their path to net-zero."

The collaboration is part of Honeywell's broader effort to help the energy industry reduce its environmental footprint. In addition, it also further supports Honeywell's alignment of its portfolio with three compelling megatrends, including the energy transition.

"Through this collaboration with Honeywell, we have built an alliance that further bridges the gap between technological excellence and environmental stewardship," said Girish Saligram, President and Chief Executive Officer of Weatherford. "Together, our transformative offering

provides cutting-edge tools and actionable data to help customers reach their sustainability goals with confidence and efficiency."

## *IBM and SAP Plan to Expand Collaboration to Help Clients Become Next-Generation Enterprises with Generative AI*

8 May 2024

IBM and SAP SE announced their vision for the next era of their collaboration, which includes new generative AI capabilities and industry-specific cloud solutions that can help clients unlock business value.

"IBM and SAP's shared approach to generative AI, built on an open ecosystem, trust and purpose-built models, will help empower clients to optimize business outcomes," said John Granger, Senior Vice President, IBM Consulting. "Our new Value Generation partnership initiative will enable clients to accelerate the path to innovation, competitive advantage and become a next generation enterprise through generative AI."

"It makes perfect sense to expand our partnership with IBM to help more customers accelerate their cloud journey leveraging RISE with SAP and realize the transformative benefits of generative AI for business in the cloud," said Scott Russell, Chief Revenue Officer & Executive Board Member, Customer Success of SAP SE. "This expanded partnership will help more of our joint customers reach new heights by innovating through the cloud, data and business AI to grow and transform their businesses."

IBM Consulting and SAP aim to accelerate transformation enabled by RISE with SAP by supporting clients in the following key areas:

- **Next-Generation AI Business Processes:** Together, the companies are exploring opportunities to build new generative AI capabilities for RISE with SAP and infuse AI into SAP business processes across industry-specific cloud solutions and line of business applications. Initially, IBM plans to extend AI capabilities across SAP's portfolio of cloud solutions and applications, all of which are underpinned by SAP Business Technology Platform (SAP BTP). This includes RISE with SAP, the GROW with SAP solution, financial solutions for the office of the CFO, supply chain management solutions, solutions for human capital management, SAP Customer Experience solutions and intelligent spend management solutions. IBM also plans to leverage SAP Signavio and SAP Business AI solutions to help define next-generation business processes through a proof-of-concept adoption program.
- **Next-Generation Industry Innovation:** IBM and SAP plan to build intelligent industry use cases, enabled by data-driven insights, into end-to-end business processes to fuel next-generation industry innovation. These use cases will initially focus on the industrial manufacturing, consumer packaged goods (CPG), retail, defense, automotive and utilities industries. This includes IBM's recent work with SAP to develop new AI solutions for the CPG and retail industries. As part of this initiative, IBM has begun the development of an extensive portfolio of over 100 AI solutions across industry, line-of-

business and product delivery. In addition, IBM plans to develop prescriptive industry value maps that define next-generation business processes and opportunities for impact with AI. Clients will be able to access all of these new AI solutions through the global IBM Innovation Studios and SAP Experience Center sites.

- **Next-Generation Platform Architecture and Customer Adoption Approach:** Next-generation enterprises require next-generation platform architectures and a modernized approach to customer adoption. Through the Value Generation partnership initiative, IBM intends to provide next-generation reference architectures that enable a clean core approach. To do this, IBM plans to leverage SAP BTP, SAP Signavio and LeanIX solutions. These new reference architectures will help define standards across data, process, systems and device integration, process orchestration and automation. IBM consultants supporting clients on SAP projects can also leverage IBM Consulting Advantage, IBM's AI services platform, and its portfolio of proprietary methods, assets and Assistants to bring more repeatability and consistency to client delivery. With IBM Consulting Advantage, IBM consultants can transform the way they deliver SAP solutions to boost productivity and mitigate risk by leveraging generative AI to help complete tasks like generation of user stories, test scripts, training and change management content and code creation.
- **Next-Generation Ecosystem Expansion:** IBM and SAP plan to partner around their respective employee network groups and "next-gen" communities, such as the business women's networks at IBM and SAP, the SAP University Alliances program and the Veterans to Work program of SAP and Veterans at IBM to increase the SAP solutions experience in the consulting workforce and develop the next generation of talent. The companies also plan to explore new ways to collaborate on social impact programs, such as training at-risk youth in the IT sector and accelerating the integration of social businesses into global supply chains.
- **watsonx Planned Availability on the Generative AI Hub:** IBM Granite Model Series are expected to be accessible for use across SAP's portfolio of cloud solutions and applications – which is underpinned by the generative AI hub in SAP AI Core. The generative AI hub facilitates relevant, reliable and responsible business AI and provides instant access to a broad range of large language models (LLMs). This expands on IBM and SAP's collaboration around embedding IBM Watson AI technology into SAP solutions. To further highlight watsonx.ai Granite capabilities, IBM Consulting plans to build extensions using the model on the generative AI hub for select customers.

This initiative will build on the companies' over 50-year collaboration based on deep technology, industry and domain expertise and demonstrates the two organizations' joint commitment to continue to evolve to put clients first and meet market demand.

## *Keysight Releases 2023 Corporate Social Responsibility Report and Disclosures*

13 May 2024

Keysight Technologies, Inc. released its 2023 Corporate Social Responsibility (CSR) Report, highlighting the company's recent environmental sustainability, social impact, ethical business and governance, diversity, and equity achievements. The report, with its accompanying 2023 CSR Data Report, encompasses Keysight's sustainability performance in fiscal year 2023 and includes operations worldwide, unless otherwise noted. Data includes disclosures that have been prepared with reference to the Global Reporting Initiative (GRI) revised universal topic standards and aligned to the Sustainability Accounting Standards Board (SASB) frameworks, as well as additional human capital metrics not included in the mentioned frameworks.

Keysight's 2023 CSR Report showcases how the company progressed toward long-term goals, exceeded its key impact goals in the social space, and met its ethical business and governance goals. These goals were attained all while continuing to make positive contributions to purposeful technology and transparency with key environmental, social, and governance (ESG) reporting frameworks.

### **Made progress toward environmental sustainability goals**

The company made progress in environmental sustainability related to its commitment to net zero emissions for business operations by the end of fiscal year 2040, aligning with the Paris Agreement's preferred goal of limiting global warming to 1.5°C. Highlights include:

- Approval of the company's near-term science-based targets (SBTs) by the Science Based Targets initiative covering all three scopes of emissions.
- Completed the company's first quantitative climate-related scenario analysis, covering a range of warming trajectories from 1.5°C to 3.3°C.
- Continued its practice of transparency with the release of the company's first Taskforce on Climate-Related Financial Disclosures (TCFD) Report in 2023.
- Due to a full year of production from the Penang, Malaysia rooftop solar array, the company increased its total global renewable energy portfolio to approximately 5%.
- Continuing progress toward its energy reduction goal, including the completion of an estimated 10,000 megawatt hours (MWh) of annual energy reduction projects.

### **Surpassed all social impact goals for fiscal year 2023**

Keysight significantly surpassed its goals for positive social impact by focusing on community and education and advancing diversity and inclusion. Progress includes:

- Continued science, technology, engineering, and math (STEM) education efforts and partnerships to further extend the company's reach and equity impact. This resulted in more than 1.8 million students, future engineers and technology skill learners engaged in fiscal year 2023 surpassing our goal of 1.5 million students.

- Committing more than \$319 million in value to strengthen communities through philanthropic, volunteerism and community engagement actions, which surpassed its \$250 million goal for the fiscal year.
- Exceeded goals to increase the percentage of new hires globally that identify as women, and new hires in the US that identify as underrepresented minorities<sup>1</sup>, while moving towards more balanced representation overall and across our leadership team.

### **Met stated goals for ethical business and governance in fiscal year 2023**

The company met its ethical governance goals by not incurring any material negative impacts to its income statement from CSR-related matters in fiscal year 2023. This achievement aligns to Keysight's ethical operations and business commitments through the company's robust governance, which is provided by its Standards of Business Conduct (SBC), corporate policies, board and risk oversight, and environmental, health, and safety programs to name a few.

### **Continued quest to build a better planet**

The Keysight 2023 CSR and Data Reports demonstrate the company's mission of accelerating innovation to connect and secure the world to help build a better planet through sustainably developed, leading-edge design, emulation, and test solutions. By providing these solutions, Keysight helps customers deliver breakthrough innovations in areas such as clean technology, social impact and wellness, and safety and security.

Looking forward, Keysight remains committed to its mid- and long-term targets supporting net zero emissions in its operations by the end of fiscal year 2040 and has announced another set of new metrics tracking progress in social impact — including DEI — and ethical governance throughout 2024 and into 2025.

**Satish Dhanasekaren, President and Chief Executive Officer, Keysight, said:** "Keysight has long strived to make a positive impact on society and fiscal year 2023 was no different. Through technology that accelerates innovation to connect and secure the world, and our practice of employing a global business framework of ethical, environmentally sustainable, and socially responsible operations, we remained steadfast in our commitment and are proud to have made material progress on our results."

### ***SAP Extends Contract with CEO Christian Klein***

6 May 2024

SAP SE announced that it has extended the contract of CEO and Member of the Executive Board Christian Klein (44) for three years, until the end of 2028.

The company has also strengthened Klein's role, making him chairman of the Executive Board, where he was previously speaker. Klein joined the SAP Executive Board in 2018 and was named co-CEO in October 2019 before being appointed the sole CEO of SAP SE in April 2020.

"In his role as CEO, Christian Klein has consistently driven SAP's transformation to a cloud company," said Professor Hasso Plattner, chairman of the Supervisory Board of SAP SE. "I would like to thank Christian Klein for his outstanding contribution to SAP's success. With the early extension of his contract and a further strengthening of his position, we are clearly underlining

his important role in SAP's ongoing transformation. We are convinced that this will lay the foundation for SAP's continued growth in a highly dynamic IT industry."

"I would like to thank the SAP Supervisory Board for their trust in me. I look forward to continuing the strong cooperation with my SAP Executive Board colleagues as well as our employees, partners, customers and investors," said Klein. "Together, we have successfully driven our strategy, and it is a privilege to lead SAP on its journey to be the number one enterprise application and business AI company."

Klein started his career at SAP in 1999 as a student. After holding various positions across the company, including chief financial officer of SAP SuccessFactors and SAP's chief controlling officer, he was appointed chief operating officer of SAP in 2016, a role in which he continued until 2021.

### *Siemens' Techcellence Awards recognizes digital transformation and sustainability leaders, innovators and community champions*

16 May 2024

At Realize LIVE 2024, Siemens Digital Industries Software announced the winners of its inaugural Techcellence Awards. Developed to recognize companies that are striving for change through transformation and sustainability, as well as individuals who are leading through innovation and acting as a champion for digital technology and sharing their knowledge with the Siemens community. Winners are awarded VIP attendance passes for Realize LIVE 2025, which will take place in June 2025 in Detroit.

"The Siemens' Techcellence Awards celebrate our customers' remarkable contributions to drive digital transformation and sustainability initiatives. They also spotlight individuals who champion the Siemens Xcelerator portfolio, pushing the boundaries of innovation within their organizations," said Robert Jones, executive vice president, Global Sales and Customer Success, Siemens Digital Industries Software.

The **Sustainability Impact award** celebrates an organization that demonstrates exceptional commitment to sustainability by leveraging Siemens technologies to drive positive environmental and social impact. It recognizes leaders in decarbonization, energy efficiency, resource management, circularity, as well as those empowering communities and embracing data-driven sustainability insights.

Blendhub empowers food producers by optimizing global supply chains and accessing new markets, providing them with the necessary tools and resources to thrive. With its Food-as-a-Service model, it not only reduces environmental impact but also aims to revolutionize the food industry. Its portable micro factories, powered by digital twin technology, enable local production of food powders, ensuring freshness and reducing transportation costs. Furthermore, its commitment to traceability helps to guarantee transparency and high quality throughout their production process. Blendhub, the Sustainability award winner, show unwavering commitment to traceability which guarantees transparency and quality throughout their production process.

The **Digital Transformation award** recognizes the achievement of an organization that is fully integrating digital technologies on their path toward becoming a sustainable digital enterprise. Driving transformation in new and innovative ways for businesses to achieve their digital objectives, while also streamlining processes faster, easier, and at scale. We applaud this organization for their displayed ability to combine the real and digital worlds in order to collect, understand, and meaningfully use the generated data to drive digital initiatives.

EnerVenue, a pioneer in metal-hydrogen batteries for clean energy, has integrated Siemens solutions into their digital roadmap. By aligning its technology initiatives with long-term goals, it has achieved improvements in efficiency and cost savings. Using Siemens' Teamcenter X, NX and Simcenter, EnerVenue has transformed its R&D processes and manufacturing floor.

Through a comprehensive digital twin approach, they have accelerated product introduction, enabled flexible manufacturing, and optimized performance. EnerVenue, the Digital transformation award winner, embrace innovative solutions exemplifying its dedication to pioneering advancements with a focus on boldness, simplicity and engagement.

The **Community Champion award** recognizes an individual who has gone above and beyond by sharing their expertise with Siemens technology. This award honors an individual who helps peers by sharing their knowledge by providing answers, speaking at events and creating publications while championing Siemens products and providing valuable feedback and insight to make the products better. The Siemens community champion exhibits exemplary community leadership through their substantial public contributions.

Steffen Bangsow has been awarded the Community Champion Award for his outstanding commitment to the Siemens community. In 2023, he provided nearly 1,000 responses in forums, earning him the prestigious Community Catalyst title. As the host of Tecnomatix Virtual Meetups, he engaged over 550 attendees and gained a following of 150+ community members. With his expertise as a simulation expert and author of a leading teaching book, Steffen has been an invaluable resource to over 200,000 users worldwide.

The **Innovation Leader award** honors Siemens' customers who exemplify creativity and forward-thinking by driving transformative change within their industries. These trailblazers are generating groundbreaking ideas, products or processes that redefine what is possible. We recognize and celebrate these customers that leverage Siemens technologies and solutions to drive organizational progress.

In 2021, Brazilian glass manufacturer, Vivix Vidros Planos, set a 3-year industrial transformation roadmap to address its longstanding manual processes and a fragmented data landscape. As Industrial Transformation Manager at Vivix, Aristóteles Terceiro Neto has been instrumental in aligning a best-in-class ecosystem of technology providers - Siemens, AWS, SAP and Mendix - to change the way his organization delivers meaningful software solutions.

Since adopting Mendix in 2023 Vivix, alongside expert partners TrueChange and Mekatronik, has delivered 25+ low-code applications that are digitizing production, logistics, and finance processes and enabling them to rapidly prototype and implement emerging technologies. A stand-out recent example is Virtual Engineer, a Mendix-built chatbot that integrates AI by way

of AWS Bedrock and will help to reduce customer case handling by over 80%. As this year's Innovation Award winner, Aristóteles exemplifies Vivix's mission to "pioneer innovation every day with unwavering boldness, simplicity, and engagement."

### *Tango Appoints Tim Redfern as Chief Financial Officer*

13 May 2024

Tango, the leading provider of Integrated Workplace Management Systems (IWMS) and Store Lifecycle Management (SLM) solutions, announced the appointment of Tim Redfern as Chief Financial Officer. Redfern brings more than 20 years of financial and operational leadership experience to Tango and is responsible for managing the company's global finance, accounting, and administrative functions.

"We are excited to welcome an executive of Tim's caliber to our leadership team," said Pranav Tyagi, Tango's President and Chief Executive Officer. "Tim has significant experience leveraging finance to drive business improvement, decision support, and performance management and he will play a key role in Tango's growth and future success."

Most recently, Redfern was Chief Financial Officer and Chief Operating Officer at Drift, the AI Powered customer engagement platform, leading up to the company's acquisition by Salesloft in February 2024. While at Drift, he was responsible for the company's Corporate Services, Operations and Customer Success/Services functions. Prior to his tenure at Drift, he was Chief Financial Officer at Access, a leader in information management solutions. His six plus year tenure at Access was marked by substantial organic and acquisitive revenue and EBITDA growth.

"I'm energized by Tango's genuine passion to bring market-leading, real estate solutions to the occupier, owner, and government industries," said Tim Redfern, Chief Financial Officer at Tango. "I look forward to bringing my skills and experience to the existing leadership team and helping the company continue its growth trajectory."

### *Trimble Infinity Awards Honor 18 Organizations for Excellence in Capital Program and Infrastructure Asset Lifecycle Management*

16 May 2024

Trimble announced the winners of its inaugural Trimble Infinity Awards, which recognize organizations for their remarkable accomplishments in achieving capital program and infrastructure management success.

The Infinity Awards were announced in a special ceremony at the Trimble **Innovate 2024 User Conference** in Cleveland, Ohio. At Innovate, nearly 1,400 Trimble customers, business partners and other industry leaders gathered for three days to explore strategies and solutions for asset lifecycle management — a holistic approach to efficiently managing property and infrastructure assets from their inception to their long-term operation and maintenance.

"We congratulate all the Infinity Award winners on achieving impressive levels of digital innovation and real results that will benefit their communities for generations to come," said

Cyndee Hoagland, senior vice president of Trimble's Owner and Public Sector. "These honorees demonstrate that, regardless of your organizational size, budget or focus, you can deliver efficiently, affordably and sustainably by connecting data, teams and processes across all phases of the asset lifecycle."

The overall Infinity Award winner for 2024 is the City of Raleigh, North Carolina, which saves millions of dollars annually using industry best practices and Trimble digital solutions for designing, building, operating and maintaining its infrastructure.

The other winners span three categories of Infinity Awards — Excellence, Growth and Trailblazer — reflecting their diverse strengths in using digital technologies for capital improvement and infrastructure management. The complete list of award winners is below.

### **Trimble Infinity Award Winners 2024**

#### **Overall Winner for Asset Lifecycle Management**

City of Raleigh, North Carolina

#### **Other Infinity Award Categories**

##### **Excellence - Enterprise-wide Problem Solving**

City of Round Rock, Texas

Georgia State Financing & Investment Commission

Las Vegas Valley Water District, Nevada

Massachusetts Division of Capital Management and Maintenance

Oklahoma Department of Transportation

Prince William County Service Authority, Virginia

University of California San Diego

University of Southern California

##### **Growth - Significant Digital Transformation**

City of Lorain, Ohio

City of Savannah, Georgia

DeKalb County, Georgia

Gainesville Regional Utility, Florida

Montgomery County, Pennsylvania

##### **Trailblazer - Innovation Through Integration**

Greer Commission of Public Works, South Carolina

Metropolitan Sewer District of Greater Cincinnati, Ohio

Polk County, Florida

St. Johns County, Florida

Only Trimble customer organizations are eligible to be nominated for Infinity Awards. Nominations are accepted from customers themselves as well as from Trimble business partners and staff.

To identify the 2024 winners, nominations were evaluated by a selection committee of seven Trimble senior managers and executives using a numeric scoring system based on criteria

aligned with industry best practices for capital program and infrastructure asset management. To ensure accuracy and objectivity, the committee members participated in multiple rounds of blind scoring, without knowing how other committee members scored the same nominees. Any Trimble staff member with a direct working relationship with a nominated organization was excluded from the selection process.

“All the honorees have worked hard to win their well-deserved awards,” said Hoagland. “It’s clear they are inspiring other organizations to make the journey of digital transformation that will help them serve their communities even better through improved project outcomes and well-maintained infrastructure.”

### *Wipro Appoints Sanjeev Jain as Chief Operating Officer*

17 May 2024

Wipro Limited, a leading technology services and consulting company, announced the appointment of Sanjeev Jain as the Chief Operating Officer, effective immediately. Sanjeev succeeds Amit Choudhary, who is stepping down to pursue opportunities outside the organization. Sanjeev will report to Srinivas Pallia and will continue to be a member of Wipro’s Executive Committee.

Sanjeev joined Wipro in 2023 as the Global Head of Business Operations. He brings over 30 years of experience in leading large, diverse teams, scaling up global operations, and deploying Lean Six Sigma and design thinking principles to drive operational excellence and business transformation.

Over the past year, Sanjeev has been leading Wipro’s talent supply chain, including Wipro’s gig work platform, TopGear, as well as talent skilling, global mobility, talent acquisition, and business resilience functions. He has played a key leadership role in the development and deployment of Wipro’s AI training and upskilling strategy.

As Chief Operating Officer, Sanjeev will be responsible for continuing Wipro’s journey of building a client-centric delivery organization focused on driving sustainable, profitable, and delivery-led growth. He will oversee Global Business Operations, the Chief Information Office, the Chief Information Security Office, and the Enterprise Risk Management function and continue to work closely with Wipro’s leadership teams across the organization on transformation initiatives.

“In the short time that Sanjeev has been with Wipro, he has developed strong relationships with on-the-ground delivery teams and made a significant impact on our strategic thinking and execution prowess,” said **Srinivas Pallia, Chief Executive Officer and Managing Director of Wipro Limited**. “Under his leadership, we’ve built out our approach to AI training and upskilling and trained over 225,000 of our people in AI principles. Sanjeev has also been instrumental in devising our career development strategy for next-gen associates and significantly enhancing our utilization. As COO, he will be responsible for continuing to simplify our operating model, building a client-centric delivery organization, and driving operational excellence with a focus on execution rigor and speed.

“I would like to thank Amit for his leadership over the last two years and for building a strong operations foundation and structure that will be invaluable as we move forward. Amit will be with us until the end of May, working closely with Sanjeev and me to ensure a smooth transition.”

Commenting on his appointment, **Sanjeev Jain** said, “I am honored and excited to take on the role of Chief Operating Officer. I look forward to further strengthening our operational and delivery capabilities to bring more value to our clients.”

Prior to joining Wipro, Sanjeev held leadership roles at Kyndryl Holdings (IBM spin-off), IBM, Cognizant, and GE. In his previous roles, Sanjeev enabled profitable growth by integrating the end-to-end talent supply chain, driving margin expansion, simplifying processes, and strengthening the operating rhythm.

Sanjeev is a distinguished alumnus of IIM-Mumbai and a certified Master Black Belt from GE.

He will be based in Bengaluru.

## *Wipro Appoints Vinay Firake as Chief Executive Officer for APMEA Strategic Market Unit*

10 May 2024

Wipro Limited, a leading technology services and consulting company, announced the appointment of Vinay Firake as the Chief Executive Officer, APMEA (Asia Pacific, India, Middle East & Africa) Strategic Market Unit (SMU), effective immediately. Vinay will report to Srini Pallia and will also join the Wipro Executive Board.

Vinay has been with Wipro for 26 years and has grown with the organization, serving in various leadership roles. He was most recently the Senior Vice President and Managing Director of Wipro-Nordics Business Unit based in Stockholm, where he led Operations across all industries and services. Prior to that, he led the Manufacturing & Automotive Business Unit in Europe and held various roles spanning Europe and North America, including Global Head for the Enterprise Digital Operations & Platforms business and Sales Head for Wipro's Enterprise Applications businesses in Europe.

“Vinay has successfully led Wipro in diverse regions globally and is the perfect candidate for this role,” said **Srini Pallia, Chief Executive Officer and Managing Director, Wipro Limited**. “He has the expertise and vast experience to spearhead our business in APMEA, one of our most promising SMUs. Vinay has a great track record in the Nordics Business Unit, where he was instrumental in signing several prestigious clients, and I am confident that he will bring the same rigor and success to APMEA.”

“I would like to thank Anis for his leadership over the last two years, during which we made significant inroads into this SMU. We wish him all the best in his future endeavors. He will continue until May 31, 2024, working closely with Vinay and me to ensure a smooth transition,” added Srini Pallia.

Commenting on his appointment, **Vinay Firake** said, “I am honored to take on the leadership of our APMEA SMU, a pivotal region in the growing technology landscape. I look forward to collaborating with our skilled team to expand our capabilities in this market and drive innovation.”

Vinay holds a Master’s Degree in Business Administration specializing in Finance and Bachelor’s degree in Computer Engineering from prestigious institutes in India. He has also successfully completed the Global Strategic Leadership Program from Wharton School and the Executive Leadership Program from Harvard Business School.

Vinay succeeds Anis Chenchah, who is stepping down to pursue opportunities outside the organization. He will be based in Dubai.

## Event News

### *Cadence’s Nimish Modi to Present at Needham Conference*

9 May 2024

Cadence Design Systems, Inc.:

**WHO:**

Nimish Modi, senior vice president and general manager, Strategy & New Ventures, Cadence Design Systems, Inc.

**WHAT:**

Modi will participate in a virtual fireside chat at the 19th Annual Needham Technology, Media, & Consumer Conference on Thursday, May 16, 2024.

**WHEN:**

The talk will be available live by webcast at 9:45 a.m. PDT on Thursday, May 16, 2024. The presentation will be archived on the Cadence website and will be available for replay for 90 days.

**WHERE:**

The webcast will be available online at [cadence.com/cadence/investor\\_relations](http://cadence.com/cadence/investor_relations).

### *Trimble Opens Registration for 2024 Insight Tech Conference*

15 May 2024

Trimble opened registration for its 2024 **Insight Tech Conference**, which will be held September 15-17 at The Venetian Resort in Las Vegas.

In its seventh year, Trimble’s Insight Tech Conference will bring more than 1,500 transportation industry influencers together for an unparalleled array of innovation, networking and collaboration. With over 200 educational sessions, including the executive-focused Leadership Series, attendees will hear from a range of experts on the industry’s most pressing topics — from AI and cybersecurity to driver safety and retention.

“Trimble’s Insight Tech Conference provides a unique opportunity for the best in transportation and logistics to connect with leading technology providers,” said Michael Kornhauser, sector vice president of transportation & logistics at Trimble. “Insight’s theme is ‘Where Technology Meets the Road,’ which aligns our focus on developing capabilities that are deeply impactful to our customers, partners and the industry as a whole. Trimble is transforming transportation and the connections made at Insight are essential to this goal.”

The keynote speaker at Trimble Insight this year will be Mike Abrashoff, former US Navy Commander of the USS Benfold. Despite being the most junior commanding officer in the U.S. Pacific Fleet, Abrashoff led the USS Benfold to a #1 performance ranking after experiencing the highest turnover rate the year prior. The success of his remarkable leadership initiatives are a testament to the power of organizational transformation.

In 2023, Trimble’s Insight Tech Conference hosted over 175 educational sessions, along with exclusive hands-on training and technology exhibits from leading transportation solution providers. This year, in addition to showcasing the latest in Trimble technology, Trimble Insight is delivering all-new interactive educational opportunities in a completely reimagined exhibitor space — the Insight Pavilion. The Insight Pavilion brings dozens of sessions and hundreds of attendees directly into the exhibition hall, providing additional opportunities for attendees to network and collaborate with industry experts and technology solutions.

Trimble Insight is one of the largest gatherings of carriers and transportation professionals in the industry, and is open to anyone who is interested in learning more about transportation trends, technology and innovation. Attendees who purchase a ticket will have access to all sessions, the Insight Pavilion and evening events.

To register for Trimble Insight 2024 or learn about sponsorship opportunities, visit: <https://trimble.swoogo.com/insight24-event/home>

### *Xometry to Participate in Upcoming Investor Conferences*

14 May 2024

Xometry, Inc., the global AI-powered marketplace connecting enterprise buyers with suppliers of manufacturing services, announced that management will attend the following investor events:

- **J.P. Morgan Global Technology, Media and Communications Conference**, May 20, in Boston at 8 a.m. E.T.
- **William Blair Growth Stock Conference**, June 5, in Chicago at 2:40 p.m. C.T.

Webcasts and replays of the fireside chats will be accessible within the [Investor Relations section of Xometry’s website](#) following each session.

Xometry’s two-sided marketplace plays a vital role in the rapid digital transformation of the 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, including Xometry Teamspace, delivering centralized project management software for large, mission-critical projects.

## Financial News

### *American Software to Announce Fourth Quarter and Fiscal Year 2024 Preliminary Financial Results*

14 May 2024

Atlanta-based American Software, Inc., through its operating entity Logility, delivers an innovative AI-powered supply chain planning platform that enables resiliency and accelerates digital supply chain transformation, announced that it will release its Fourth Quarter and Fiscal Year 2024 preliminary financial results after the U.S. financial markets close on Thursday, June 6, 2024.

In conjunction with the release, the company will host a conference call at 5:00 pm ET to discuss its results with the investment community. A live webcast and replay of the call will be accessible via the investor relations page of American Software's website at [www.amsoftware.com/investor-relations](http://www.amsoftware.com/investor-relations).

#### **American Software's Fourth Quarter and Fiscal Year 2024 Preliminary Financial Results Earnings Call**

Date: Thursday, June 6, 2024

Time: 5:00 pm ET

Location : [www.amsoftware.com/investor-relations](http://www.amsoftware.com/investor-relations)

### *CENIT recorded a significant year-on-year increase in Group sales of around 16.4% to EUR 50,545 k in the first quarter of 2024*

14 May 2024

**In the first quarter 2024 the CENIT Group has continued its strong performance from 2023 and remains on course for growth. After three months, the CENIT Group has generated sales revenues of EUR 50,545 k (previous year: EUR 43,416 k/+16.4%). Sales of third-party software increased by 17.6% to EUR 26,188 k (prior year: EUR 22,278 k). Sales of CENIT's own software increased significantly from EUR 3,351 k to EUR 4,472 k (+33.5%). Sales revenues in the CENIT consulting and services segment increased by 11.9% to EUR 19,856 k (previous year: EUR 17,746 k). – In the first quarter 2024 the CENIT Group has continued its strong performance from 2023 and remains on course for growth. After three months, the CENIT Group has generated sales revenues of EUR 50,545 k (previous year: EUR 43,416 k/+16.4%). Sales of third-party software increased by 17.6% to EUR 26,188 k (prior year: EUR 22,278 k). Sales of CENIT's own software increased significantly from EUR 3,351 k to EUR 4,472 k (+33.5%). Sales revenues in the CENIT consulting and services segment increased by 11.9% to EUR 19,856 k (previous year: EUR 17,746 k).**

Gross profit (operating performance less cost of materials) amounted to EUR 29,352 k (previous year: EUR 25,672 k) and thus increased by 14.3%. CENIT achieved EBITDA of EUR 3,146 k (previous year: EUR 1,572 k/+>100.0%) and EBIT of EUR 1,239 k (previous year: EUR 6 k/+>100.0%). Earnings per share amounted to Cent 0.3 (previous year: Cent -2.4).

#### Asset and Financial Situation

As of the balance sheet date, equity amounted to EUR 45,144 k (Dec. 31, 2023: EUR 45,003 k). The equity ratio amounted to 27.3% (Dec. 31, 2023: 29.3%). Bank balances, cash and cash equivalents amounted to EUR 33,620 k as of the balance sheet date (Dec. 31, 2023: EUR 24,341 k). The operating cash flow reached EUR 12,537 k (previous year: EUR 8,694 k) in particular due to a project-related increase in receivables.

#### Employees

As of March 31, 2024, the number of employees in the Group was 918 (Dec. 31, 2023: 893). Personnel expenses amounted to EUR 22,100 k in the CENIT Group in the reporting period (previous year: EUR 20,640 k).

#### Outlook

For the current year, our outlook for the CENIT Group is to reach a revenue of around EUR 195,000 - 202,000 k and earnings (EBIT) of around EUR 11,700 - 12,200 k. Given the current challenging geopolitical situation, these forecasts are based on the assumption that there will be no significant negative economic impact on our industry and our main customer segments. This forecast does not include any acquisition effects.

### *Copperleaf Announces First Quarter 2024 Results*

9 May 2024

Copperleaf Technologies Inc. (“Copperleaf” or the “Company”), a provider of enterprise decision analytics software solutions, announced financial results for the three months ended March 31, 2024. All amounts are expressed in Canadian dollars unless otherwise stated.

**Paul Sakrzewski, CEO of Copperleaf** commented, “During the first quarter, Copperleaf delivered material growth across all of our key financial metrics. This was highlighted by a 32% YoY increase in Annual Recurring Revenue, and a record backlog, demonstrating a strengthening market understanding of the outstanding value we bring to our clients. Overall, this increasing market understanding, the sustained fundamental tailwinds and improved execution from our focused go-to-market strategies are driving expansion within our core sectors, and momentum in new sectors.”

“Throughout the quarter, we added new clients in core sectors and built upon established beachheads in new sectors in line with our strategy. In addition to new client acquisitions, our Client Success Management team showed material success in getting existing clients excited about some material expansions, resulting in growth in our Net Revenue Retention to 113%,” continued **Mr. Sakrzewski**.

“Our strong performance in Q1 underscores the effectiveness of our refreshed go-to-market model and increasing partner engagement. We anticipate continued robust growth in ARR and pipeline development throughout 2024 with our traditional Q4 weighting. These factors, combined with accelerating revenue growth and disciplined approach to managing costs, position us for significant progress back towards profitability,” **Mr. Sakrzewski** concluded.

### First Quarter 2024 Financial Highlights

*(All capitalized terms used but not defined in this press release have the meanings ascribed to them in Management’s Discussion and Analysis for the three months ended March 31, 2024; Comparison period is to the three months ended March 31, 2023, unless otherwise stated)*

- Record revenue of \$25.8 million, an increase of 29% compared to Q1 2023, driven by an increase in new clients and the expansion of existing clients.
- Subscription revenue of \$14.9 million, an increase of \$3.6 million, or 32%, over Q1 2023, followed by a 27% increase in professional services revenue to \$8.8 million, and a 20% increase in perpetual revenue year over year to \$2.1 million.
- Annual Recurring Revenue<sup>1</sup> as at March 31, 2024 of \$64.6 million, a 32% increase from \$49.1 million as at March 31, 2023.
- As of March 31, 2024, the Company’s Net Revenue Retention Rate<sup>1</sup> was 113% compared to 111% as of March 31, 2023.
- Gross profit of \$18.9 million representing a gross margin of 73%, a 38% increase from \$13.7 million and a gross margin of 68% in Q1 2023. Gross margin increased primarily due to an increase in subscription, professional services and perpetual license revenue partially offset by an increase in personnel costs, subcontractor costs, and product and support expenses related to our growing client base.
- Adjusted EBITDA<sup>1</sup> loss of \$3.3 million, compared to Adjusted EBITDA<sup>1</sup> loss of \$10.0 million in Q1 2023.
- Net loss of \$2.6 million, or a loss of \$0.04 per basic and diluted share, compared to a net loss of \$11.8 million, or a loss of \$0.17 per basic and diluted share, in Q1 2023. The decrease in net loss was primarily due to an increase in revenue and a decrease in headcount when compared to Q1 2023.
- As of March 31, 2024, Copperleaf’s Revenue Backlog<sup>1</sup> grew 32% to \$145.5 million compared to \$110.5 million, as of March 31, 2023.
- Strong balance sheet with cash and cash equivalents of \$33.5 million, short-term investments of \$77.5 million, and long-term investments of \$18.5 million as at March 31, 2024.

### Key Developments

- During the first quarter, the Company continued to expand in its core sectors and made progress on its new-sector strategy, building upon the established

beachheads in Transportation, Upstream Oil & Gas, and the globalization of Copperleaf's Water sector.

- In addition to new client acquisitions, Copperleaf's Client Success Management team continued to gather momentum with material expansions with existing clients.
- The Partner and Alliance Ecosystem continued to gain traction as the Company's partners played significant roles in wins across all regions.
- Q1 saw the continued roll out of our successful and popular "Copperleaf AIPM Forum" series in Italy, the Netherlands, and Japan with strong participation from both existing clients and prospects.
- During Q1, Copperleaf released version 24.1 of its product suite with numerous new features, including: Self-Serve Analysis functionality, which leverages cloud-native services to enable flexible enterprise reporting; generative AI Online Help functionality; and enhancements to the Company's geospatial (GIS) offering allowing map-based visualization of portfolio hierarchies.
- In Q1, Copperleaf was granted a Canadian patent for filtering, displaying and comparing different investment scenarios. This patent highlights Copperleaf's on-going dedication to R&D – pioneering solutions that facilitate better investment decision making.

<sup>1</sup> Please refer to "Non-IFRS Measures" section of this press release

### **Q1 2024 Financial Results Conference Call Details**

Paul Sakrzewski, Chief Executive Officer and Chris Allen, Chief Financial Officer and Chief Operating Officer will host the conference call, followed by a question-and-answer session today, May 9, 2024, at 5:00 PM ET.

**Date:** May 9, 2024

**Time:** 5:00pm ET

**Dial-In Number:** 416-764-8659 or 1-888-664-6392

**Webcast:** <https://app.webinar.net/3MdDxYdAw1N>

**Replay:** 416-764-8677 or 1-888-390-0541 (Available until May 16, 2024)

**Replay Entry Code:** 072916#

**RapidConnect URL:** <https://emportal.ink/4b5Ldfi>

### *HOMAG Group with expected decline in sales and earnings in the first quarter of 2024*

14 May 2024

The HOMAG Group's sales and earnings declined in the first quarter of 2024. This was due to the significant drop in demand last year.

“Business development in the first three months of 2024 is in line with our expectations,” explained CEO Dr. Daniel Schmitt. “Although our order intake increased slightly due to a fairly good project and service business, the woodworking industry is still reluctant to invest. As a result, we cannot yet speak of a recovery in demand or a turnaround.” The HOMAG Group’s order intake increased by seven percent to EUR 377 million in the first three months of 2024 (previous year: EUR 353 million). The order backlog decreased to EUR 871 million as of March 31, 2024 (3/31/2023: EUR 1,036 million).

The weaker order intake in 2023 is reflected in the HOMAG Group’s sales performance in the first quarter of 2024. Sales decreased by 14 percent to EUR 347 million (previous year: EUR 404 million). This had an impact on EBIT before extraordinary effects, which fell to EUR 10.8 million (previous year: EUR 27.0 million).

“This decline in sales and earnings is in line with our forecasts,” explained Dr. Schmitt. “In order to increase our profitability again, we decided on a package of measures to adjust capacity and increase efficiency back in November 2023, which we are currently implementing. In this way, we are making the HOMAG Group fit for the future and intend to return to profitable growth in the next upturn.”

### *MariaDB Files Second Quarter Fiscal 2024 Financial Results*

15 May 2024

MariaDB plc filed its financial results for the second quarter of fiscal year 2024, which ended March 31, 2024.

“Annual Recurring Revenue (ARR) is up 11.9% year-over-year in the second quarter of fiscal year 2024 coupled with a 97% improvement in Adjusted EBITDA loss of \$378 thousand versus the prior fiscal year second quarter loss of \$12.6 million,” said Paul O’Brien, CEO at MariaDB plc. “In six months, we have demonstrated our ability to quickly turn our financial story around and are optimistic about the future performance of the business.” The Net Loss for the second quarter was \$3.5 million, an improvement of \$8.4 million as compared to a Net Loss of \$11.9 million in the prior period.

The financial results can be found in the Quarterly Report Form 10-Q, which is available on the Securities & Exchange Commission’s (SEC’s) website at <https://www.sec.gov> and on MariaDB’s Investor Relations website at <https://investors.mariadb.com> under Financials.

### *Nano Dimension Announces Q1/2024 Conference Call to Discuss Quarterly Results*

13 May 2024

**Nano Dimension Ltd.** (“Nano Dimension” or the “Company”), a leading supplier of Additively Manufactured Electronics (“AME”) and multi-dimensional polymer, metal & ceramic Additive Manufacturing (“AM”) 3D printers, announced that it will release its financial results for the first quarter of 2024 before the Nasdaq market opens on Monday, June 3<sup>rd</sup>, 2024.

Mr. Yoav Stern, Chief Executive Officer and Member of the Board of Directors, Mr. Tomer Pinchas, Chief Financial Officer & Chief Operating Officer, and Mr. Julien Lederman, VP of Corporate Development, of Nano Dimension will host a conference call on June 3<sup>rd</sup>, 2024, at 9:00 a.m. ET, to discuss the financial results.

Participants can register for the conference by navigating to: <https://dpregrister.com/sreg/10189110/fc8390b566>

The call can be accessed via webcast link or phone as detailed below.

For webcast link:

<https://event.choruscall.com/mediaframe/webcast.html?webcastid=GmLH60ir>

For phone:

U.S. Dial-in Number (Toll Free): 1-844-695-5517

International Dial-in Number: 1-412-902-6751

Israel Dial-in Number (Toll Free): 1-80-9212373

Participants will be required to state their name and company upon entering the call.

A replay will be available after the end of the conference call on Nano Dimension's website.

### *Stratasys Conference Call to Discuss First Quarter 2024 Financial Results*

15 May 2024

Stratasys Ltd. will release financial results for the first quarter ended March 31, 2024, after market close on Wednesday, May 29, 2024. The Company plans to hold the conference call to discuss its first quarter 2024 financial results on Wednesday, May 29, 2024, at 5:00 p.m. (ET).

The investor conference call will be available via live webcast on the Stratasys Web site at [investors.stratasys.com](https://investors.stratasys.com); or directly at the following web address:

<https://event.choruscall.com/mediaframe/webcast.html?webcastid=H13Rjkjs>

To participate by telephone, the U.S. toll-free number is 877-407-0619 and the international dial-in is +1-412-902-1012. Investors are advised to dial into the call at least ten minutes prior to the call to register. The webcast will be available for 6 months at [investors.stratasys.com](https://investors.stratasys.com), or by accessing the above-provided web address.

### *Velo3D Announces First Quarter 2024 Financial Results*

15 May 2024

Velo3D, Inc., a leading additive manufacturing technology company for mission-critical metal parts, announced financial results for its first quarter ended March 31, 2024.

“We were pleased with our first quarter performance as we continued to successfully execute on our strategic priorities,” said Brad Kreger, CEO of Velo3D. “Specifically, we are now just starting to see the benefit of our new go to market initiatives as we booked \$17 million in new orders during the quarter. Additionally, we entered the second quarter with \$22 million in backlog. We believe this strength reflects the continued customer confidence in our technology

as well as our success in expanding our footprint in our core markets, including the defense sector, as we added 3 new defense customers in the first quarter. Our re-alignment efforts are also showing progress as we further reduced our quarterly costs and improved our operational efficiency. We also executed on our initiatives to improve system reliability which is reflected in the fact that approximately 50% of first quarter bookings were from existing customers. Finally, we remain committed to achieving cash flow breakeven in the second half of the year.”

Key highlights related to the company’s strategic initiatives:

- Ensuring customer success / system reliability – resolved 100% of high priority tickets in Q124
- Increased revenue 1H24 visibility through bookings growth – booked \$17 million in new orders in Q124 – \$27 million since mid-December with approximately 50% of orders from existing customers
- Improved Sapphire printer quality – increased sequential Sapphire XC installation efficiency – >40% reduction in install days and labor
- Improving cash flow and cost structure – successfully reduced year over year operating expenses by 30%, expect sequential quarterly improvement in operating cash flow for FY 2024

“Looking forward, we believe the focus on our key priorities, as well as further executing on our margin and cash flow initiatives, will position us to profitably capitalize on the increasing industry demand for leading-edge additive manufacturing solutions,” concluded Kreger.

| <b>(\$ in Millions, except percentages and per-share data)</b> | <b>1st Quarter<br/>2024</b> | <b>4th Quarter<br/>2023</b> | <b>1st Quarter<br/>2023</b> |
|--|-----------------------------|-----------------------------|-----------------------------|
| GAAP revenue   | \$9.8                       | \$2.5                       | \$26.7                      |
| GAAP gross margin  | (28.8)%                     | (>100)%                     | 9.5%                        |
| GAAP net loss <sup>1</sup>                                     | \$(28.3)                    | \$(56.1)                    | \$36.3                      |
| GAAP net loss per diluted share                                | \$(0.11)                    | \$(0.27)                    | \$0.19                      |
| Non-GAAP net loss <sup>2</sup>                                 | \$(20.2)                    | \$(58.6)                    | \$17.9                      |
| Non-GAAP net loss per diluted share <sup>2</sup>               | \$(0.08)                    | \$(0.28)                    | \$0.09                      |
| Cash and Investments   | \$11                        | \$31                        | \$64                        |

1. **Information about Velo3D’s use of non-GAAP information, including a reconciliation to U.S. GAAP, is provided at the end of this release under “Non-GAAP Financial**

**Information". The non-GAAP financial measures presented in this release should not be considered as the sole measure of the company's performance and should not be considered in isolation from, or as a substitute for, comparable financial measures calculated in accordance with generally accepted accounting principles accepted in the United States.**

- 2. Non-GAAP net loss and non-GAAP net loss per diluted share exclude stock-based compensation expense, fair value adjustments for the Company's warrants, contingent earnout and debt derivative liabilities, and loss on extinguishment of debt.**

### **Summary of First Quarter 2024 Results**

Revenue for the first quarter was \$10 million. Revenue increased compared to the fourth quarter of 2023, primarily driven by an increase in shipments. Given its strong backlog and shipping forecast exiting the first quarter, the company expects revenue growth of more than 30% in the second quarter of 2024. Support services and recurring payment revenue increased sequentially due to a higher number of systems in operation.

Gross margin for the first quarter was negative 29%. While shipments increased sequentially, gross margin primarily reflected the impact of lower fixed cost absorption. The company expects positive gross margin in the second quarter of 2024 as a result of increased system shipments, improvements in its system balance of material costs, benefits from its new long term supply contracts and higher operating and manufacturing efficiency.

GAAP operating expenses for the first quarter were \$18.6 million compared to \$25.9 million in the fourth quarter of 2023. Non-GAAP operating expenses, excluding re-alignment charges and stock-based compensation expense of \$4.5 million, was \$14.1 million, down 15% sequentially from the fourth quarter of 2023. The company expects non-GAAP quarterly operating expenses to decline by more than 10% in the second quarter of 2024 compared to the first quarter of 2024 as the company continues to execute on its cost initiatives.

Net loss for the quarter was \$28.3 million and reflected a non-cash loss of \$3.1 million on the change in the fair value of warrants and contingent earnout liabilities. Non-GAAP net loss, was \$20.2 million in the three months ended March 31, 2024. Adjusted EBITDA for the quarter, was a loss of \$11.7 million. For more information regarding the company's non-GAAP financial measures, see "Non-GAAP Financial Information" below.

The company ended the quarter with \$11 million in cash, cash equivalents and investments. First quarter cash flow, excluding financing activities, was in line company's forecasts and improved more than 35% on a year over year basis. The company continues to expect sequential quarterly improvement in cash flow in 2024.

### **Guidance**

The company continues to expect sequential improvement in revenue, gross margin and operating expenses in the second quarter of 2024. The company also believes the continued execution of its realignment strategy will enable it to reach its goal of free cash flow breakeven in the second half of 2024.

The company's 2024 guidance is unchanged and is as follows:

- Q2 2024 revenue growth of more than 30%
- FY 2024 revenue in the range of \$80 million to \$95 million
- Sequential quarterly improvement in gross margin with fourth quarter 2024 gross margin of approximately 30%, excluding non-recurring charges related to its cost reduction initiatives
- Non-GAAP operating expenses of \$40 to \$50 million

The company will host a conference call for investors this afternoon to discuss its first quarter 2024 financial results at 2:00 p.m. Pacific Time. The call will be webcast and can be accessed from the Events page of the Investor Relations section of Velo3D's website at [ir.velo3d.com](http://ir.velo3d.com).

Amounts herein pertaining to March 31, 2024 represent a preliminary estimate as of the date of this earnings release and may be revised upon filing our Quarterly Report on Form 10-Q with the Securities and Exchange Commission (the "SEC"). More information on our results of operations for the three months ended March 31, 2024 will be provided upon filing our Quarterly Report on Form 10-Q with the SEC.

## Implementation Investments

### *Clarks Announces Partnership with Centric Software*

13 May 2024

Centric Software®, the Product Lifecycle Management (PLM) market leader, proudly announces its partnership with iconic global shoe brand, Clarks. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source, price and sell products such as apparel, footwear, sporting goods, furniture, home décor, consumer electronics, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

The heritage footwear brand was founded almost 200 years ago in Somerset, England by brothers Cyrus and James Clark, and remains world-renowned and respected for combining innovation, comfort and craftsmanship. The company operates retail, wholesale, franchise and online channels in over 100 markets internationally.

Chris Groves, CEO of Centric Software says, "We are thrilled that Clarks has selected Centric PLM™ to optimize their global operations. We are committed to empowering them every step of the way."

### *Colt Technology Services Collaborates with Infosys to Accelerate its Digital Transformation Program*

16 May 2024

Colt Technology Services (Colt) the digital infrastructure company, announced a five-year strategic collaboration with Infosys, a global leader in next-generation digital services and

consulting. Through this engagement, enterprises will stand to benefit from Colt's award-winning SD WAN, SASE and Network-as-a-Service solutions combined with Infosys' market-leading expertise in digital transformation offerings.

Through this collaboration, Infosys will aim to accelerate Colt's digital transformation program to build Colt IO, which will automate and simplify services, systems, and processes using next generation platforms. This will make it easier and faster to service customers and to respond to changing market dynamics. In addition, Infosys will also help Colt boost its innovative product roadmap and grow its managed network-as-a-service and application-centric infrastructure solutions.

**Ash Surti, Chief Digital and Information Officer, Colt Technology Services** said, "We're excited to announce our collaboration with Infosys as we continue our digital transformation journey to deliver the best possible experience for our employees, customers, and partners."

**Upendra Kohli, Executive Vice President – Communication, Media & Entertainment (Americas & Europe), Infosys,** said, "We are delighted to collaborate with Colt on the modernization of their intricate IT infrastructure. Our strategic digital transformation initiatives, aimed at enhancing efficiency and agility, will help Colt with enhanced customer experience and accelerate their transformational digital initiatives. As a growth partner for Colt, our commitment to innovating together underscores our shared vision for a successful digital future."

In November 2023 Colt completed its acquisition of Lumen EMEA. The partnership with Infosys will help drive this integration of the two organizations to deliver a single, consistent, seamless service experience. Customers benefit from an enhanced, integrated range of industry-leading solutions at greater scale, and employees benefit from fast access to the platforms they need to deliver Colt's industry-leading customer experience.

### *Infosys and Formula E Strike New Partnership to Enable Next-Gen Fan Experiences Powered by AI and Digital Innovations*

9 May 2024

Infosys, a global leader in next-generation digital services and consulting, announced a strategic three-year partnership with the ABB FIA Formula E World Championship, the global motorsport championship for electric cars, as its official Digital Innovation Partner. Through this collaboration, Infosys will provide in-race analytics, unlock fan engagement experiences, and enhance sustainability reporting and tracking for the Formula E championship.

The partnership between Infosys and Formula E will focus on three core areas: fan growth, technology innovation, and continued environmental stewardship.

- **Creating a new Fan Customer Data Platform:** With the aim of engaging 500 million fans by 2030, Infosys will help build an AI-powered Fan Customer Data Platform for Formula E to unlock deep fan engagement and personalization opportunities, allowing Formula E to better serve its growing global fan base.

- **In-race insights and Driver Statistics:** Leveraging Infosys Topaz, an AI-first suite of offerings using generative AI technologies, the collaboration aims to provide real-time insights and real time driver statistics during races, enhancing the overall viewing experience for fans.
- **An enhanced sustainability data management tool:** With the objective of playing a pivotal role in supporting Formula E's carbon reduction target of 45% by 2030, Infosys will work to transform the sport's carbon reporting capabilities by using AI to improve accuracy, reliability, and traceability of data collection, and setting new standards in sustainability assessments for the championship.

**Jeff Dodds, Chief Executive Officer, Formula E,** said, "Infosys' expertise in cutting-edge technologies makes them the ideal partner to help us drive the future of electric motorsport. We are excited to work with them to deliver exceptional experiences for our global fan base and further strengthen Formula E's position as a leader in sustainable, digital-first sports. Infosys' commitment to sustainability and innovation aligns perfectly with our vision, and we are confident that this collaboration will unlock new avenues in our key focus areas."

**Sumit Virmani, EVP & Global Chief Marketing Officer, Infosys,** said, "Infosys has built and nurtured several strategic sports collaborations globally. We are now delighted to partner with Formula E, a visionary motorsport series, that shares our passion for sustainability and AI-led innovation. This strategic collaboration will showcase our AI, digital, and analytics prowess, elevating the fan experience, while enhancing Formula E's sustainability goals. Together, we aim to redefine the possibilities in electric motorsport."

As a brand, Infosys has been successfully associated with the global tennis ecosystem for nine years through strong partnerships with Roland-Garros, Australian Open, ATP, and the International Tennis Hall of Fame. In addition, we continue to accelerate brand momentum through our collaboration with the Madison Square Garden, including key MSG properties New York Knicks, New York Rangers, and the Madison Square Garden Arena. Through all these partnerships, Infosys has successfully demonstrated how it brings to life the benefits of AI into sports.

### *Infosys Collaborates with First Abu Dhabi Bank to Optimize and Modernize its IT Infrastructure Services*

14 May 2024

Infosys, a global leader in next-generation digital services and consulting, announced a multi-year strategic collaboration with First Abu Dhabi Bank (FAB), the largest bank in the United Arab Emirates (UAE), to optimize and modernize FAB's IT infrastructure services.

As part of this collaboration, Infosys will leverage Infosys Cobalt, a set of services, solutions, and platforms for enterprises to accelerate their cloud journey, to deliver industry-leading, infrastructure-managed services, including service desk capabilities, to transform FAB's IT infrastructure. Infosys will help integrate a suite of enterprise tools to drive significant improvements in FAB's service quality, risk reduction, and business outcomes. These include:

- Artificial Intelligence- (AI) and Machine Learning (ML)-based automation, providing self-healing and self-help capabilities.
- Proactive and prognostic monitoring and observability, improving the resilience of the infrastructure estate.
- Blueprint-based environment provisioning, helping to reduce provisioning time exponentially, allowing faster time to market.
- Leveraging Infosys Topaz, an AI-first set of services, solutions, and platforms, using generative AI technologies to improve productivity and efficiency.

The collaboration aims to transition to an outcome-oriented, automated-managed services model that delivers high-quality, compliant IT services with increased speed and agility. In the long term, it will also establish a highly scalable and flexible IT infrastructure.

The Middle East is a strategic growth market for Infosys, and this collaboration furthers Infosys' committed focus in the region to enable large enterprises to navigate their cloud-first, digital-first, and AI-first journeys.

**Suhail Bin Tarraf, Group Chief Operating Officer, First Abu Dhabi Bank (FAB),** said, "At FAB, we are committed to transforming our IT organization and delivering world-class services that drive tangible business outcomes. After a thorough evaluation, we selected Infosys as our strategic partner due to their proven expertise, innovative solutions, and the strong trust they built at all levels. Infosys' outcome-oriented managed services model coupled with their automation-powered delivery approach will help us significantly improve service quality, compliance, and operational efficiency."

**Dennis Gada, Executive Vice President and Global Head of Banking & Financial Services, Infosys,** said, "We are delighted to collaborate with First Abu Dhabi Bank to optimize and modernize their IT infrastructure services, by leveraging Infosys Cobalt and Infosys Topaz. FAB recognized the need to transform their IT operating model, and entrusted Infosys with their IT infrastructure, enabling their digital journey to proceed faster and with more resilience on the backend. By leveraging our global expertise and investments in AI, cloud and infra, Infosys will also enable FAB to transition to an outcome-oriented, automation-driven execution model and help position it as a digital leader in the financial services industry."

### *Intermodal Terminal Company (ITC) chooses Hexagon to deliver groundbreaking Australian rail terminal*

14 May 2024

Hexagon's industry-leading asset management solution, **HxGN EAM**, in collaboration with The APP Group, a leader in property and infrastructure advisory, has been chosen by Intermodal Terminal Company (ITC), an Australian intermodal rail terminal operator and owner, for its groundbreaking Somerton Intermodal Terminal project.

Situated in the outer suburbs of Melbourne, Victoria, the innovative 45-hectare terminal represents one of Australia's most advanced rail infrastructure developments currently under

development. Upon completion, it will claim the title of the country's largest intermodal terminal ever built and make history as the first fully electric intermodal rail terminal.

The Somerton Intermodal Terminal, at full capacity, is projected to handle over one million 20-foot equivalents (TEU) annually. It has the potential to become the closest terminal to Melbourne to accommodate double-stacked 1,800-metre trains. Additionally, the terminal promises substantial sustainability benefits, expected to eliminate up to 500,000 truck trips from Melbourne's roads, equivalent to a reduction of 451 million truck kilometers, and trimming carbon emissions by up to 189,000 tonnes.

HxGN EAM, an innovative asset management solution, is designed to improve productivity and lengthen asset lifecycle. It will oversee and maintain the entire asset portfolio within the Somerton Intermodal Terminal project, including internal roads and gates, truck and container movements, container washing, and fumigation facilities, together with a 24x7 control center overseeing all lighting, technology, and rail network control.

Brendon Gibson, ITC's Chief Operating Officer, said, "We are delighted to collaborate with Hexagon and the APP Group to implement their cutting-edge HxGN EAM solution for our terminal project. ITC is a growing business and HxGN EAM's scalability ensures that the solution grows alongside ITC's expanding operations and evolving needs.

"Effective asset management is paramount to the success of our operations, and HxGN EAM offers the advanced capabilities and flexibility we need to optimise performance and ensure the reliability of our terminal infrastructure."

**Supratim Mukhopadhyay**, vice president of sales at Hexagon's Asset Lifecycle Intelligence division, welcomed the partnership between ITC, Hexagon and the APP Group, which is providing implementation support for the project.

"Hexagon is very excited to be supporting ITC's mission to drive innovation and efficiency in the transportation and logistics industry, alongside our industry partners at the APP Group," Mukhopadhyay said.

"With HxGN EAM, ITC gains a next-generation asset management platform equipped with advanced, scalable capabilities to streamline maintenance processes, optimise resource utilisation and maximize asset performance."

Construction on the Somerton Intermodal Terminal is currently underway and is due to be completed in 2025.

### *JLR and Dassault Systèmes Extend Partnership, Deploying the 3DEXPERIENCE Platform for All Vehicle Programs Worldwide*

14 May 2024

Dassault Systèmes announced that it has extended its long-term strategic partnership with JLR for five years, heralding a new era of digital transformation at the automaker that will drive improved efficiency, collaborative innovation and sustainability throughout the enterprise.

JLR continues to deploy Dassault Systèmes' 3DEXPERIENCE platform globally, to support the end-to-end development of all its modern luxury vehicles. More than 18,000 users across all JLR business areas and suppliers will make use of virtual twins to increase efficiency, improve production management, save time, and reduce waste and costs.

JLR's decision to deploy the 3DEXPERIENCE platform at this scale further confirms the role that Dassault Systèmes plays in JLR's commitment for a good and responsible business in an industry that demands high levels of excellence and personalization.

JLR can leverage Dassault Systèmes' entire portfolio of transportation and mobility industry solution experiences based on the 3DEXPERIENCE platform, both on premise and on the cloud. Its teams in ideation, requirements, model-based systems engineering, computer-aided design and manufacturing, as well as its value chain, will be connected in one collaborative virtual environment, leveraging knowledge and know-how. This creates value, to enable JLR's employees to focus on high-quality tasks as well as empower them to evolve in more advanced roles.

"JLR is utilizing the 3DEXPERIENCE platform to enhance its virtual twin experience, creating software-defined vehicles that seamlessly integrate both hardware and software development. This systems engineering approach connects and integrates various disciplines, driving the development of its vehicles and ensuring excellence as demanded by luxury brands," said Laurence Montanari, Vice President, Transportation & Mobility Industry, Dassault Systèmes. "Our software as a service solution provides JLR teams with increased agility and the ability to access the latest technology on demand. After five years of partnership, we are opening a new era of collaboration beyond engineering and manufacturing through a trusted partnership, where teams from JLR and Dassault Systèmes work closely in short iterations to address JLR and its ecosystem's challenges."

### *Medidata Selected by Worldwide Clinical Trials to Accelerate Trials and Transform Patient Experience*

14 May 2024

Medidata, a Dassault Systèmes brand and leading provider of clinical trial solutions to the life sciences industry, today announced an expansion of its relationship with Worldwide Clinical Trials ("Worldwide"), a full-service global contract research organization (CRO). The agreement will facilitate data-driven decision-making across Worldwide's entire clinical operations with the implementation of Medidata AI and enable Worldwide to support customers by reducing trial timelines and improving site selection.

This new collaboration will catapult Worldwide into the next phase of its data evolution, powered by Medidata's artificial intelligence solutions and its expansive historical data set, the largest in the industry.

"Worldwide will accelerate clinical research and advance the life sciences industry by leveraging site-level granularity and real-time actionable observations provided by Medidata AI's turnkey solution," says Tom Doyle, chief technology officer, Medidata.

"For over 10 years, we've partnered with Medidata to help our customers gather advanced, data-driven insights so they can make confident and well-informed decisions about the future direction of their clinical trials," says Peter Benton, president and CEO, Worldwide Clinical Trials. "Incorporating Medidata AI Intelligent Trials into our studies will allow us to more systematically plan, design, and execute research so we can deliver a better experience for patients and sponsors."

### *Microvellum Supports RCHS Tech Program in Advancing Student Education*

14 May 2024

**Microvellum reaffirms its partnership with Reed-Custer High School (RCHS), a small-town institution with 500 students situated in Braidwood, Illinois, USA, by recently providing a donation for upgraded software and licenses.**

The Industrial Technology program at RCHS, offers a wide range of instruction covering real-world manufacturing processes, materials, and equipment, and CNC machinery.

In continued support of RCHS and Mark Smith, a dedicated shop teacher who helps his students discover career paths in the wood industry, Microvellum donated over \$100,000 in software upgrades and licenses for their Toolbox software, Microvellum's utoCAD-based design for manufacturing software.

The manufacturing lab at RCHS boasts 18 workstations, each equipped with Toolbox licenses, alongside state-of-the-art equipment such as the Thermwood model 43 CNC router, table saws, face frame tables, and a variety of other tools commonly found in professional cabinet shops. Through this program, students engage in real-world manufacturing projects and gain firsthand experience of how technology is integral to modern wood product manufacturing.

RCHS offers the following classes:

1. **Orientation to Technology** where students build longboards and earn their Woodwork Career Alliance Saw Blade Certificate
2. **STEM** where the students build Taylor acoustic guitars
3. **Production 1 & 2** where the students build and install kitchen cabinets within homeowners' residence
4. **CAD/CAM 1 & 2** where the students build RTA entertainment centers and other projects
5. **3D Printing** where students design 3D solid models and print them
6. **Dual-Credit AutoCAD** where students learn how to use AutoCAD and create CAD drawings.

Recently, Mark introduced his students to Microvellum's e-Learning courses, part of Microvellum University, which feature video-based training plans, sample projects, and quizzes. Hosted by RJ Pranski, an MVU instructor, and cabinet maker with over 20 years of industry experience and an advanced user of Microvellum software, these educational videos showcase

workflows employed by designers, drafters, estimators, and engineers in typical projects utilizing Toolbox.

"My students are currently using the tutorial videos, and they're fantastic! They sit down at their computers, pull up the Microvellum University training plans, watch the videos, and complete the courses. This makes learning how to use Microvellum very easy," shared Mark.

Students participating in RCHS's Industrial Technology Program have full access to Microvellum's software and MVU eLearning training plans to further their education and skills.

"Empowering educators and schools with Microvellum software isn't just about donating technology; it's about investing in future drafters, engineers, innovators, and business owners. It's about helping people like Mark bridge the skills gap and bring awareness to the amazing opportunities that exist within the wood industry," commented David Fairbanks, President of Microvellum Software.

### *Razorleaf Wins Boeing Contract for C-17 Aircraft PLM Software Upgrade*

14 May 2024

Razorleaf Corporation, a leading PLM consulting and systems integrator, announced that they have secured a contract to upgrade the digital maintenance and training software systems that support the global Boeing C-17 Globemaster III fleet.

Razorleaf is providing product lifecycle management (PLM) software and support services. Boeing has been using PLM solutions for more than a decade and is employing the **3DEXPERIENCE** platform to deepen end-to-end digital collaboration, design, engineering, analysis, manufacturing planning and shop-floor execution capabilities throughout the enterprise.

Eric Doubell, CEO at Razorleaf, said "Razorleaf specializes in providing expertise that unifies diverse software tools into cohesive PLM systems that boost productivity for companies of all sizes. In the case of the C-17, we are pleased to be able to support Boeing's ongoing commitment to modernization and embracing innovation."

### *Siemens and Foxconn team up to optimize forward-thinking manufacturing*

15 May 2024

Siemens AG, a leading technology company, and Hon Hai Technology Group (Foxconn), the world's largest electronics manufacturer, have signed a memorandum of understanding (MoU) to drive digital transformation and sustainability in smart manufacturing platforms.

The collaboration focuses on global manufacturing processes in electronics, information and communications technology, and electric vehicles (EV). Siemens and Foxconn are working together to establish a scalable and seamless engineering and manufacturing ecosystem.

Roland Busch, President and CEO of Siemens AG emphasized the significance of this partnership: "We believe in the power of ecosystems to drive digital and sustainability transformation and scale technology. Our partnership underscores our commitment to shape

the future of electronics manufacturing. We will support customers with greater efficiency and speed due to optimized engineering and manufacturing workflows.”

Young Liu, Chairman and CEO of Hon Hai Technology Group (Foxconn) said: “Foxconn is transforming into a platform solutions provider for smart manufacturing, smart EV, and smart city. Joining forces with Siemens accelerates our digital transformation journey and opens up new possibilities for innovation and sustainability.”

This MoU identifies key collaboration areas to increase the level of automation within Foxconn's facilities. These areas include electronics manufacturing services (EMS) and contract design and manufacturing service (CDMS), which is Foxconn’s innovative business model for electric vehicles. Both companies will explore initiatives to work towards the factory of the future by implementing Siemens' leading factory automation portfolio and industrial software, including building blocks such as digital twin technology and artificial intelligence (AI). Siemens Xcelerator, with its comprehensive suite of software and solutions, will play a pivotal role in optimizing Foxconn's engineering and manufacturing workflows, facilitating efficiency and agility across its operations.

The collaboration aims to leverage how Siemens' technical expertise can enhance Foxconn’s sustainability performance, contributing to energy savings and reduced CO2 footprint. This partnership involves establishing transparent monitoring processes and applying professional services and digital solutions, as both companies work towards a greener future for electronics manufacturing.

“Electronics are the backbone of modern society, powering consumer goods to EVs and e-mobility solutions. Therefore, we are very proud to intensify our collaboration with Foxconn”, said Cedrik Neike, CEO of Digital Industries and Member of the Managing Board of Siemens AG. “With Siemens’ domain know-how and leading portfolio in factory automation and software, we will accelerate the transformation of the electronics manufacturing industry and support Foxconn to achieve its sustainability targets.”

Dr. Zhe Shi, Foxconn’s Chief Digital Officer and head of its Smart Manufacturing platform, added: “Siemens is a leader in providing digital transformation solutions. Our deepening collaboration to build the ‘factory of the future’ in the AI era will enable us to provide topflight manufacturing service to all our customers.”

## Product News

### *DELTEK TIPQA RECEIVES SAFETY ELEMENT APPROVAL FROM THE FEDERAL AVIATION ADMINISTRATION, UNDERSCORING ITS COMMITMENT TO QUALITY, COMPLIANCE AND SAFETY*

13 May 2024

Deltek, the leading global provider of software and solutions for project-based businesses, announced that its quality management software (QMS), Deltek TIPQA, has been recognized

with the FAA's prestigious Safety Element Approval. Deltek TIPQA is one of only six companies to receive an approval and the first QMS solution to do so.

Receiving an FAA Safety Element Approval affirms that TIPQA software can manage documents effectively and ensure compliant, precise and comprehensive record-keeping for the entire operational lifecycle of licensed sites and vehicle operations. It satisfies the record-keeping portions of 14 CFR §§ 420.61, 450.219(b), and 450.173(g), which pertain to incident and mishap reporting and retention of records.

This approval assures government and commercial contractors in the aerospace and defense (A&D) industry, and primarily the space industry, that TIPQA provides a comprehensive solution that meets the FAA's reporting, record-keeping, and document management requirements. Having the Safety Element Approval helps TIPQA customers demonstrate their own commitment to elevating their compliance efforts by ensuring that critical documentation is captured, managed and accessible according to the FAA requirements, facilitating audits efficiently and implementing effective safety management practices.

TIPQA is a comprehensive quality management solution purpose-built for manufacturers of complex products in a highly regulated environment. TIPQA enables organizations to manage and optimize their quality processes and procedures to build high-quality products. TIPQA also digitizes processes and provides customers with a single source of data, increasing the accuracy and consistency of information flow across departments and helping maintain integrity throughout the quality lifecycle.

“In the high-stakes realm of space transportation, accurate incident and mishap reporting is absolutely crucial. To ensure all documentation meets the FAA’s exacting standards, it is imperative to have FAA-approved solutions in place,” said Todd Walker, Vice President of Project Management at Deltek. “We’re proud that TIPQA is the only QMS to receive this prestigious approval, recognizing our commitment to providing our customers with industry-leading compliance, safety, and technology.”

### *Eviden announces JARVICE AI Platform Software as the latest addition to its growing AI computing portfolio*

14 May 2024

Eviden, the Atos Group business leading in advanced computing, announces JARVICE™ AI, a new software solution that complements its full BullSequana AI product and services line. JARVICE AI simplifies the work of data scientists and AI infrastructure administrators by providing a ‘single and secure pane of glass’ orchestration access to geographically dispersed GPU clusters or cloud providers.

JARVICE AI is a comprehensive extension of Eviden’s existing JARVICE™ XE enterprise HPC platform. With new capabilities, this platform is designed for AI and can orchestrate one-click MLOps frameworks on advanced AI infrastructures, whether on-premises, in the cloud, or on federated architectures. The offering boasts bare metal performance and flexibility to run GPU, CPU, IPU or any other emerging AI acceleration resources. JARVICE AI leverages the extensive

HyperHub™ application marketplace, and expands it with a catalog of AI-specific applications and frameworks across the Generative AI, model ops and LLM landscapes. Additionally, JARVICE AI can support custom AI applications and frameworks.

With its built-in advanced workload scheduler, JARVICE AI accommodates a diverse set of concurrent AI scheduling needs from a single platform, including large-scale training for generative AI frameworks, low-latency inference tasks, and complex MLOps workflows, delivering high levels of efficiency for cluster utilization and workload mobility.

*“By combining and simplifying the management and deployment of AI and HPC applications under a single pane of glass across all organizational compute endpoints, JARVICE AI provides a secure and scalable user experience for scientists, researchers, and engineers. With JARVICE AI and HyperHub, organizations can respond to the rapidly evolving needs of AI workloads with confidence and ease – no matter what the future brings,”* said Leo Reiter, CTO Nimbix Cloud.

*“JARVICE AI excites me as a 6-year user of JARVICE for training large-scale deep learning models. It’s easy to use, unifies MLOps workflows across any infrastructure into a single pane of glass, and introduces new, advanced workload scheduling—it’s quite the compelling offering for the enterprise,”* said Tanmay Bakshi, ML & Software Architect, IBM Automation, and Google Developer Expert for Machine Learning at IBM.

Availability:

JARVICE AI will be widely available in Q3 2024 with early access to customers from today. Eviden will be exhibiting at ISC24 in Hamburg, Germany this week. Visit booth K30 to speak with a team of experts or to see a demo of JARVICE AI.

### ***Flexxbotics Announces Latest Release for Multi-Factory Robot-Driven Manufacturing with Autonomous Process Control***

14 May 2024

Flexxbotics, delivering workcell digitalization for robot-driven manufacturing, announced the immediate availability of the latest release of the Flexxbotics solution. Flexxbotics’ new release includes powerful multi-factory capabilities for large scale deployments along with enhanced functionality for in-line inspection, IT business system integration, analytics, and support for mobile tablets and smartphones. With this new version of the Flexxbotics solution global companies can implement advanced robotic machine tending that enables autonomous process control at scale across multiple sites to increase capacity, production yields, and EBITDA profitability.

### ***Introducing ZWCAD 2025: Create Amazing Things***

16 May 2024

ZWSOFT, a reliable all-in-one CAx solutions provider, today announced the release of ZWCAD 2025, the latest version of its powerful 2D CAD solution.

Elaine Zhu, Go-to-market Manager of ZWCAD, said, “We are committed to creating not only a reliable and stable 2D CAD tool in the market, but also a tool that offers powerful 3D viewing and basic 3D modeling capabilities, and is more intelligent and collaborative.

She added, “In ZWCAD 2025, we’ve not only refined our 2D functions, but have also introduced significant upgrades in 3D capabilities, the user interface and industry-specific modules. We’re confident that these enhancements can enhance the overall user experience and meet varied needs of our customers.”

Now, let's dive into the key new features and enhancements in ZWCAD 2025!

### **Efficient improvement**

In ZWCAD 2025, you can open, pan and zoom complex 3D models faster and smoother. Our tests revealed that compared to ZWCAD 2024, the efficiency of opening 3D models has increased by 62.8%, while the efficiency of viewing 3D models has increased by 34.4%. These enhancements will offer users a seamless experience even when dealing with complex projects.

### **New Visual Styles**

With the addition of 4 new visual styles for 3D models, including Conceptual, Realistic, Shade of Grey, and X-ray, and the optimization of display quality of existing visual styles, ZWCAD 2025 meets various visualization needs, ensuring your designs are viewed precisely as intended.

### **STEP File Import**

ZWCAD 2025 can directly import STEP, including AP203 and AP214 versions. This eliminates the need for format conversion and enhances collaboration between upstream and downstream partners. Additionally, it allows you to specify insert locations, import methods and display settings to simplify workflows.

### **3D Gizmos**

In ZWCAD 2025, we have added three 3D gizmos that help you move, rotate, or scale a set of objects along a 3D axis or plane respectively. Beyond that, we have also added the Transform gizmo that lets you switch between move, rotate and scale more conveniently.

### **Ribbon Improvement**

We have revamped the Ribbon to make it easier to customize your user interface. The ribbon can be slid out, dragged, floated and collapsed as icons, so you can build your own workspace that aligns perfectly with your workflow. Additionally, if you’re transitioning from AutoCAD® or a previous ZWCAD version, you can seamlessly migrate your CUIX settings to enjoy a familiar environment without the need to start from scratch.

### **Panel Improvement**

We have also revamped the Panel to enhance your drawing experience. Panels, including the Properties Panel, Layer Properties Manager and more, can be stacked with other panels or hidden automatically to provide designers with a bigger drawing area. A panel navigator is added to help you drag or dock panels more conveniently.

### **Floating Drawing Window**

You can drag drawing windows out of the program as floating windows to view multiple

drawings simultaneously. If you have two monitors, you can move the floating window onto another monitor. This feature avoids the hassle of switching between tabs or launching two or more programs when you need to use another drawing for reference.

### **Point Cloud Improvement**

We have added 3 new visual styles including Intensity, Elevation, and Classification and you can configure the color of point clouds. Plus, you can observe the interior of a building easier with the Navigate to Scan View function. These improvements are designed to meet diverse visualization needs and offer you clearer insights of the designs.

### **GIS Improvement**

You can import more mapping services such as Bing Maps, ArcGIS and services compliant with OGC standards. Additionally, you can match the geographic marker with the insertion point specified in the drawing by specifying the latitude and longitude. These improvements allow you to integrate GIS data more easily and accurately for better decision-making.

## *Matterport Unveils Reporting Tool to Showcase Carbon Reduction Achieved Using Digital Twins*

15 May 2024

Matterport, Inc., announced the launch of avoided emissions reporting for select enterprise customers, measuring the emissions savings associated with the use of Matterport's digital twin platform. Developed with independent carbon accounting experts, the reports enable enterprise customers to understand the impact of emissions avoided by collaborating remotely instead of traveling to inspect facilities onsite.

There has been a growing expectation from corporations to operate climate-consciously. Organizations of all sizes are making ambitious commitments to reduce their carbon footprint (GHG emissions) by pledging alignment with the United Nations' Sustainable Development Goals and setting science-based targets to limit global temperature rise to below 1.5 degrees Celsius.

Matterport's 3D digital twins are sustainability in action, providing tools to help businesses to reduce Scope 3 emissions for tasks that traditionally require travel to complete, such as tours, inspections, progress monitoring, change management, and more. The more 3D digital twins are incorporated into day-to-day operations, the greater impact they can drive towards an organization's sustainability goals. For businesses with significant property portfolios and those that are globally dispersed, this life-like virtual collaboration also offers the ability to significantly reduce costs, while freeing up team members to work more productively remotely.

"Enterprises increasingly need proof-of-value that their technology investments are both driving impact to the bottom line, and their overall carbon footprint," said Qadira Harris, Senior Director of Global Responsibility at Matterport. "These new reporting capabilities quantify the sustainable impact of digital twins, empowering enterprises to streamline their property decisions with results they can stand behind."

A Fortune 100 Matterport customer said, “As a product owner, I want to provide users with sustainability benefits of my digital twin solutions. The avoided emissions report is informative with a concise format that contextualizes our aggregated impact.”

Emissions avoided are calculated based on the reduction in business travel enabled by digital twins, taking into account factors such as the number of digital spaces created, geographic location, and site visits. Customer reports are tailored to their primary use cases—like property marketing, insurance, design and construction, or facilities management. These considerations are then balanced against the estimated emissions from creating and hosting each digital twin to determine the total emissions avoided.

Matterport’s avoided emissions reports, currently available to select enterprise customers, allow for a comprehensive assessment of sustainability gains. These reports will be broadly released later this year, with customer feedback informing further enhancements and scalability.

### *NUMROTO X: NUM sets New Standards in Flexibility and Precision for Tool Grinding*

14 May 2024

**With NUMROTO X, NUM AG is unveiling the future iteration of its renowned CNC software package, NUMROTO*plus*, tailored for tool production and resharpener. This extensively revamped software stands out for its enhanced flexibility, precision, and user-friendliness.**

For over 60 years, NUM AG has been at the forefront of providing customized automation solutions for the machine and tool industry, establishing itself as a premier CNC company for high-end applications. Renowned for its continuous innovation in hardware and software solutions, NUM has become a preferred partner for international machine manufacturers worldwide.

Timed perfectly for GrindingHub 2024, the second edition of the grinding technology industry gathering scheduled for mid-May, NUM AG is introducing the new NUMROTO X product line to the public for the first time. This brand-new software, meticulously crafted by NUM to oversee tool manufacturing and resharpener processes, harnesses the latest technologies to modernize the trusted NUMROTO brand, preparing it for the challenges of tomorrow.

Similar to NUMROTO*plus*, NUMROTO X is a desktop application accessible both on the grinding machine and a workstation PC. Leveraging established concepts like multi-user databases, 3D simulation, collision checking, and product documentation with NUMROTO-Draw, NUMROTO X elevates the user experience to new heights. The focus during NUMROTO X's development initially centered on production of complex standard milling cutters. This goal is achieved with excellence, thanks to flexibly configurable geometry elements and innovative options for production and process planning. The introduction of sequences, enabling the organization of individual work steps, facilitates the straightforward configuration of intricate yet clearly displayed production processes.

Furthermore, NUMROTO X seamlessly integrates a newly developed, integrated job manager. This feature empowers users to modify and expand job lists both during work preparation and 'on the fly' at the machine, ensuring uninterrupted production under any circumstance.

In crafting the new user interface, NUMROTO X places a strong emphasis on intuitive user-friendliness and clarity. Through real-time tool visualization, users can promptly and accurately observe the effects of any parameter adjustment in pixel-perfect detail, even at various zoom levels. While default values streamline the creation of new workpieces, users retain the flexibility to tailor these settings to their specific needs at any juncture.

Introducing a new feature in NUMROTO X, the kinematics module takes charge of calculating machine movements, now extending support to 6-axis movements. This advancement brings about enhanced efficiency and optimizes axis control during transition movements between grinding operations.

To bolster precision further, NUMROTO X implements new algorithms, ensuring optimal results, for example in flute calculation, even under particularly demanding conditions.

"NUMROTO X will successfully lead the production of complex standard milling cutters into the future," explains Massimiliano Menegotto, CEO NUM Group. "NUMROTO X and NUMROTOplus will remain available in parallel so that our customers can always use the optimum range of functions during the continuous further development of the new software."

Following its debut at GrindingHub in Stuttgart from May 14 to 17, 2024, the new software will be used in pilot projects by machine manufacturers with selected customers. Once this trial phase concludes, the software will be gradually rolled out to broader audiences.

### *OpenBOM What's New, May 10th, 2024*

14 May 2024

Oleg Shilovitsky published a blog post announcing the release of an update to OpenBOM. Oleg says, "Continuing to improve the way OpenBOM is capable of managing files for work-in-progress (WIP) design tasks and helping companies to organize the information and process was one of the main topics for OpenBOM's May 10th, 2024 update."

Read the full post here: <https://www.openbom.com/blog/openbom-whats-new-may-13th-2024>

### *Plataine Unveils Live 3D Map Solution for Enhanced Visibility & Control of Production Processes*

16 May 2024

Plataine, a leading provider of AI-based and Industrial IoT (IIoT) manufacturing optimization solutions, is thrilled to announce the launch of its recent innovative solution, 3D Live Map. Designed to offer unparalleled visibility into production sites & processes, Live Map is set up to improve the way manufacturing facilities manage their operations.

Manufacturers report on visibility challenges in the factory – with the expansive layout of the factory floor, it was often difficult to keep track of assets, monitor production progress, and respond quickly to unexpected issues on the factory floor.

Plataine’s Live Map solution represents a significant advancement in Plataine’s commitment to empower manufacturers with cutting-edge technologies. This innovative feature enables users to gain a comprehensive understanding of production status, materials, part & tool locations & status, enhancing collaboration, operational efficiency, and facilitating informed decision-making processes in real time.

Plataine’s Live Map offers an accessible search function, enabling easy asset, material, and equipment location, within the facility and receiving location-based alerts and notifications, allowing proactive management of production processes, and ensuring timely interventions. It also increases user engagement with the platform, due to an intuitive and user-friendly interface which offers ease of use for all stakeholders. The Map is integrated with Plataine’s factory Digital Twin, providing a holistic view of the production environment. With a live map of the factory, operators can get a real-time visualization of factory operations, offering immediate insights into production status and resource utilization. Now operators can effortlessly track and manage assets within the production site, optimizing resource allocation and minimizing downtime.

The customizable view allows each user to tailor the map to their specific needs, ensuring a personalized experience.

“Live Map represents a significant milestone in our ongoing mission to empower manufacturers with actionable insights and advanced technologies,” said Avner Ben-Bassat, President & CEO of Plataine. “By providing a comprehensive and intuitive visualization of the production process, the Live Map solution enables our customers to optimize operations, enhance productivity, and drive business growth.”

### *Sandvik Coromant enhances sustainability insights with Productivity Analyzer*

13 May 2024

Tooling solutions provider Sandvik Coromant introduces advanced sustainability features in its Productivity Analyzer tool, enabling precise measurement of energy consumption and carbon footprint for customers in the manufacturing industry.

The updated analyzer offers detailed sustainability metrics, including energy usage per manufactured component, yearly energy consumption and CO<sub>2</sub> emissions. New parameters such as efficiency and energy cost empower manufacturers to optimize operations for reduced environmental impact.

Trials with a leading automotive manufacturer demonstrated a significant 15% increase in productivity, credited to the analyzer's comprehensive analysis capabilities. By analyzing machine and tool costs alongside energy consumption, Sandvik Coromant provides tailored strategies for emission reduction. This data-driven approach equips customers with actionable insights, fostering a more sustainable manufacturing ecosystem.

Sandvik Coromant's holistic sustainability ethos emphasizes waste elimination and data-driven decision-making. Initiatives like the global buy-back scheme for recycling used tools underscore the company's commitment to environmental stewardship.

### *Siemens makes it easier for water utilities to benefit from artificial intelligence*

13 May 2024

Siemens, a leading technology company, has expanded its software portfolio for the water industry, enabling its customers to optimize their plant operations using artificial intelligence - without the need for technical expertise. These self-service solutions enable users to address the most pressing issues in water and wastewater operations: reducing water loss, preventing pollution from sewers, and ensuring the reliability of treatment assets. The effect of these applications is also a contribution to greater sustainability overall, as the world's water resources can be better protected. "Digital technologies have not yet been widely adopted in the water sector so far," says Anja Eimer, General Manager Global Water Business at Siemens. "The existing OT and IT device landscape of is complex, skilled workers are in short supply, and the business benefits of many digital applications have often been unclear. With our new software offerings, we are addressing these conditions and enabling water companies to perform AI-based operational analyses."

The new offerings include digitalization solutions with pre-integrated hardware and software. This means that AI-based analytics applications have been combined with corresponding sensors from Siemens to make the installment processes as easy as possible and to achieve faster analytics results. To this end, Siemens has launched the new SIWA Leak Finder and SIWA Blockage Predictor apps – available on the Siemens Xcelerator Marketplace.

#### **AI to combat leaks and pipe blockages**

The SIWA Leak Finder app uses data from smart flow meters to reduce water losses from pipe leaks by up to 50 percent. The app's AI analyzes flow data and identifies leaks as small as 0.2 liters per second. While data from any flow meter can be used for the app, the integration of the Siemens Sitrans FM Mag8000 sensor eliminates the need for specialized knowledge or Siemens services for installation.

Clogged pipes in sewer systems can lead to pollution that also affects households and the environment. Inflow and infiltration (I&I) reduce the effectiveness of the wastewater network and can lead to expensive investments. Siemens' SIWA Blockage Predictor application applies AI to water level data from sewers collected by sensors such as the Sitrans LR110 radar level transmitter to detect blockages, inflow and infiltration. Based on a single sensor installation, the app can be used in the event of network overflows or in manhole chambers. The application finds nine out of ten blockages and saves users time by automatically generating performance reports for regulators.

Both the SIWA Leak Finder and SIWA Blockage Predictor apps can easily process and analyze operational data from smart sensors via a connection to the cloud – without the need for additional IT expertise. In this way, the sensor data is available in the respective application within two hours. The apps' AI is automatically trained and implemented with the sensor data

from the day of installation. Cybersecurity is also taken into account in the design of the apps. Mendix, Siemens' low-code platform, can also be used to create interfaces to the respective company's IT making it possible to connect the data from the SIWA apps to ERP systems. Siemens' expects these applications to typically pay for themselves in less than 36 months.

### **Siemens at IFAT 2024**

In addition to AI-based applications and their integration with smart sensors for the more efficient and sustainable operation of water infrastructures, Siemens will showcase its entire automation and digitalization portfolio for the water industry at the IFAT 2024 trade fair. One focus will be on cybersecurity and how water infrastructure operators can protect themselves from cyberattacks. Siemens will showcase blueprints and guidelines for secure network and system architectures as well as proven, certified cybersecurity solutions. Siemens also provides assistance with the implementation of the NIS 2 Directive, which will go into effect in the EU in October 2024.

Furthermore, Siemens offers a standardized approach to groundwater well monitoring from a single source. Designed as an end-to-end solution, it includes instrumentation, communication, remote control, and intelligent data analysis to meet current and future regulatory requirements and enable scalable and efficient water management. Siemens also offers a range of technologies for utilities seeking to improve their energy efficiency, from the Digital Process Twin to multimodal energy optimization.

### *Siemens partners with Microsoft to deliver AI-enhanced solutions for resilient product lifecycle management with Azure*

14 May 2024

Siemens Digital Industries Software announced an expansion of its partnership with Microsoft to make the Siemens Xcelerator as a Service portfolio of industry software available through Microsoft's cloud and AI platform Azure and integrating it with generative AI and Copilot features. This will increase flexibility and choice for Siemens' customers and make Microsoft's industry-leading AI solutions more accessible to Siemens customers.

"Our customers have asked for Siemens to bring our industry leading industrial software to Azure," said Tony Hemmelgarn, CEO and president, Siemens Digital Industries Software. "Siemens and Microsoft have been partners for more than 35 years, and we are pleased to expand this partnership so we can best enable our customers to digitally transform through our joint solutions."

As a first step, Siemens will deliver Teamcenter® X software, the rapidly scalable and secure PLM solution, on Microsoft Azure, enabling customers to implement their mission critical solutions on their preferred cloud and AI platform. Built on the same trusted, robust and secure Software-as-a-Service (SaaS) architecture used by some of the world's leading manufacturers and innovators, Teamcenter X empowers teams to start fast and get their product data under control, enabling them to reduce cycle time, minimize IT costs and speed innovation. With the

availability of Teamcenter X on Azure, organizations can benefit from Microsoft's responsible AI tools and access to enterprise-grade security.

This continued collaboration builds on the launch of the Teamcenter app on Microsoft Teams which connects frontline factory and service teams to the design and engineering teams through Siemens' industry-leading Teamcenter software for PLM. The new app takes advantage of the latest advances in generative AI and Natural Language Processing: With Azure OpenAI in Azure AI Studio, Siemens developers have built custom copilot functionality to enable frontline workers to access the engineering enterprise from the palm of their hand and collaborate in more inclusive ways.

Siemens is also developing a Copilot for Microsoft 365 plugin for the Siemens Teamcenter app on Teams, enabling workers across the entire product lifecycle and value chain to better track and prioritize their workloads. They will be able to ask Microsoft Copilot for help with summarizing outstanding tasks and workflows out of the comfort of their Teams app. To deliver new features like these to customers as fast as possible, Siemens developers are using GitHub Copilot.

"As Microsoft and Siemens continue to deepen our collaboration, we are excited to bring the power of Azure AI to the Siemens Xcelerator portfolio to meet growing market demand and help businesses focus on delivering differentiated customer value faster. By harnessing our latest advances with generative AI and Copilot capabilities, together we empower design engineers, frontline workers and teams across business functions and geographies, unlocking new levels of customer-centric innovation and productivity," said Nick Parker, President, Industry & Partnerships at Microsoft.

### *Siemens to transform engineering workforce of the future with new industry credential program*

13 May 2024

Siemens Digital Industries Software announced that it has created a new program to credential students and recognize career readiness, which will help create a stronger pipeline of engineering talent demanded by industry. The Siemens credentials are intended to supplement a formal degree by validating industry knowledge and skills.

As part of the program, specific credentials will be piloted as the first industry credentials to be recognized by ABET, a nonprofit, non-governmental agency responsible for accrediting programs in applied and natural science, computing, engineering and engineering technology. The ABET quality evaluation process will ensure Siemens' credentials meet the defined standards of quality and address areas with skill gaps to prepare the future engineering workforce.

"We are proud to pilot with Siemens as our first partner in review and recognition of industry credentials," said Jessica Silwick, COO and CFO of ABET. "As a global leader in quality assurance for technical education, ABET supports Siemens' vision of empowering the future workforce

with digital mindsets and skillsets. We are excited to be partnering on this innovative approach to education through credentials.”

“The World Economic Forum’s ‘Future of Jobs’ report highlights 60% of businesses are holding back on transforming their business because of the skills gap in their local labor market,” said Dora Smith, senior director, Global Academic and Startup Program, Siemens Digital Industries Software. “The launch of Siemens’ credential program strives to combat this issue by providing the future workforce with industry-recognized credentials, addressing talent acquisition needs, and creating a stronger talent pipeline.”

Through a strategic collaboration with the University of Colorado Boulder (CU Boulder), Siemens’ first credential pilot for ABET recognition will help to increase impact and opportunities for students. CU-Boulder, with support and subject expertise from Siemens, will offer a graduate credential program consisting of nine courses that will be globally available through Coursera. The first two courses, Sustainability and the Circular Economy and Applied Sustainability Engineering, are live, with additional courses set to launch later this year. Topics will include leading the circular business, sustainable supply chains and operations management, product and packaging design for the circular economy, and leveraging consumer demand for sustainable business practice, among others.

"Partnering with Siemens Digital Industries Software to develop a credential focused on applied sustainability enables us to create a future that provides both economic success and a more enduring, resilient, and sustainable planet," said Dr. Christy Bozic, faculty director, Engineering Management Program, University of Colorado Boulder. “Siemens is a leader in sustainability, and combining our academic and industry expertise through this credential will provide learners with the knowledge and skills to integrate sustainability into engineering design and processes, benefiting both companies and society as a whole.”

Siemens also will collaborate on a credential for the future workforce with The Pennsylvania State University (Penn State). Penn State plans to launch a series of four credential courses for engineering career preparation, integrating Siemens’ content and expertise into the learning experience. Topics will include smart manufacturing, project management, business acumen and inclusive leadership.

"We are delighted to join forces with Siemens Digital Industries Software to empower learners with industry knowledge and career readiness skills that will enable them to enter the workforce prepared for success," said Dr. Meg Handley, Associate Director of Engineering Leadership Undergraduate Programs at the School of Engineering Design and Innovation, Penn State University. "In today's ever-evolving world of engineering and technology, it is crucial for students not only to apply their learning within an industry environment but also to adapt to and lead change. By collaborating with Siemens, we are equipping the future workforce with critical skills and knowledge that industry employers require."

As technology continues to advance, requiring new skills for emerging roles, these programs ensure students are prepared with the knowledge and confidence they need as they transition from university to workforce.

## *Siemens Xcelerator as a Service expands across product lifecycle with new cloud services for design, simulation, operations and PLM*

14 May 2024

Siemens Digital Industries Software announced an expansion of the Siemens Xcelerator as a Service portfolio. Siemens Xcelerator as a Service brings together the powerful capabilities of Siemens' comprehensive software portfolio through purpose-built technology and service experiences tailored to the requirements of industries and individual users.

Siemens Xcelerator as a Service connects all tasks and processes on one platform, empowering everyone throughout the value chain to work together from anywhere, simultaneously, with the tools and data they need all in one place. These flexible, modular solutions run on the industry's most robust interoperable data backbone, fully integrating workflows from concept to manufacturing.

The new additions to Siemens Xcelerator as a Service deliver solutions for product engineering and lifecycle management, cloud-based high-performance simulation and manufacturing operations management. These include:

- **NX X:** NX™ X is Siemens' a new cloud-based solution for product engineering that brings this industry-leading technology to companies of all sizes. A cornerstone of the Siemens Xcelerator as a Service cloud-based portfolio of industry software, NX X delivers industry leading product engineering capabilities as-a-service, enabling customers to free up resources, so they can scale and focus on innovation. Through centralized cloud license management, configuration, and provision of capability, NX X can simplify IT requirements. Organizations can install NX X on the desktop or stream via AWS cloud services where needed, which provides the greatest flexibility for distributed teams.
- **Opcenter X:** Siemens' Opcenter™ X software is a new, more accessible, SaaS solution for manufacturing operations management (MOM) that is now part of the Siemens Xcelerator portfolio. It delivers Siemens' leading Manufacturing Execution System (MES), Scheduling, Quality, and Analytics capabilities in a modular, easy to implement and inherently collaborative cloud environment.
- **Simcenter X:** Simcenter™ X software, a new SaaS solution that delivers capabilities of Simcenter™, Siemens' industry-leading portfolio of simulation and test solutions, on the cloud. With an initial release focused on Simcenter™ STAR-CCM+™ software and delivered as part of the Siemens Xcelerator, Simcenter X enables engineers in companies of all sizes to access a cloud-based virtual engineering desktop environment for modeling and post-processing combined with a highly scalable high-performance computing (HPC) environment.
- **Teamcenter X Essentials:** Teamcenter® X Essentials is the most affordable way to access Teamcenter X, the Software as a Service (SaaS) solution for Product Lifecycle Management (PLM) that is part of the Siemens Xcelerator as a Service portfolio. Teamcenter X Essentials enables businesses, from startups to global enterprises, to

rapidly begin digital transformation and adopt PLM and, when ready, rapidly grow innovation capability.

- **Zel X:** Siemens' Zel X, is a next-generation browser-based engineering app for streamlining manufacturing and shop-floor operations. Zel X consolidates software for manufacturing, operations, collaboration, design and simulation into a comprehensive, yet lightweight browser-based solution that delivers value instantly.

## *Simulations Plus Releases GastroPlus® X, The Next Generation PBPK/PBBM Modeling & Simulation Software*

15 May 2024

Simulations Plus, Inc., a leading provider of modeling and simulation solutions for the pharmaceutical, biotechnology, chemicals, and consumer goods industries, announced the release of GastroPlus® X.

Branded as GPX™, this new platform represents the next generation of physiologically based pharmacokinetics/biopharmaceutics (PBPK/PBBM) modeling and simulation software. Utilizing proven top-rated science, advanced models, refined algorithms and integrated machine learning (ML) technology, GPX offers an entirely updated user experience with an intuitive interface, streamlined workflows, and faster processing.

“GPX is truly a culmination of a long-term collaboration with our partners to understand how we can better support their program needs and enable critical scientific thinking,” said Neil Miller, Vice President of Simulation Sciences at Simulations Plus. “Our development process included significant external user testing and we sought partners’ feedback throughout the entire development cycle. This resulted in a completely redesigned, intuitive, flexible platform that follows our customers’ research and thought processes instead of requiring them to fit their processes to the software.”

“For more than 25 years, we have remained laser-focused on providing the best science and algorithms on the market. Our commitment to continuous innovation and improvement is why GastroPlus remains the preferred platform for predicting a wide array of applications, including gastrointestinal absorption for oral products, first-in-human outcomes, and food effects,” said John DiBella, President of PBPK Solutions at Simulations Plus. “GPX offers increased functionality that other programs cannot provide, such as true polypharmacy simulations mimicking real-world scenarios. We believe the intuitive design, workflows, and data handling will help us expand our addressable market globally by significantly shortening the learning curves for new users, improving the productivity of experienced modelers, and enhancing critical communication with health authorities. As our clients consider the implications of the FDA’s newly established Quantitative Medicine Center of Excellence, GPX will provide robust support for their regulatory interactions. GPX is truly the most exciting development in PBPK science to launch in many years.”

GPX is designed to be a comprehensive PBPK/PBBM modeling and simulation platform, allowing users to handle everything from early discovery high-throughput PK simulations and

drug-drug interactions (DDIs) to population predictions and more all in the same place. Utilization of a single PBPK/PBBM platform, with reusable assets and templates, reduces the time spent on tedious tasks like model setup, importing and exporting data, and reformatting plotted modeling results.

GPX offers flexible deployment options, allowing for both local installation and seamless integration with cloud environments, providing users with the freedom to choose the best setup for their needs.

### *The wisdom of the crowd: 3Dfindit uses AI to make 6 billion downloads available to the public*

15 May 2024

#### **3Dfindit Now Leverages Swarm Intelligence to Simplify Design Processes**

CADENAS GmbH simplifies the design process for 3Dfindit users with the new "Wisdom of Crowds" feature. 3Dfindit provides over 6,000 verified manufacturer catalogs. This gives the platform a BIG DATA cloud with more than 6 billion transactions of manufacturer components, which will be available to users and other interested parties as swarm knowledge in the future.

#### **Engineering through the ages**

A lot has changed in the engineering process over the last few decades. Not only has there been a change in the tools used, such as the computer-aided creation of products or systems, but the use of individual components has also changed. In the 90s, for example, wing nuts were often used. They could be opened and closed by hand without any tools. This was practical because there were only a few tool trolleys on the factory floor. Today, however, things are different, and the wing nut has almost completely disappeared from workshops. This change can be easily analyzed with the help of artificial intelligence and thus speed up the planning process.

#### **Benefit from the knowledge of others**

You have probably heard that groups are smarter than individuals. There is even a book about this phenomenon. 3Dfindit takes advantage of this phenomenon by using data science and artificial intelligence (AI) to analyse transactions in the BIG DATA Cloud. This allows conclusions to be drawn about the buying and downloading behaviour of users. The aim is to predict which components will be needed in the planning process for future users.

When the knowledge of many is available to all, the advantage is that nothing is forgotten in the engineering process. Mistakes, especially careless ones, happen to everyone, regardless of industry. The new Wisdom of Crowds feature in 3Dfindit can prevent such mistakes, as shown in the image below. When a bolt is selected, the feature also recommends a nut and washer.

#### **Making knowledge more accessible**

Companies are diverse, some employees have been in the profession for decades, others have just completed their training or studies. Both sides can learn from each other. Young colleagues are adapted to the digital transformation – dealing with digital systems is very easy for them

immediately after graduating. However, young career starters lack the engineering skills. Experienced colleagues, on the other hand, have less digital knowledge, but have years of engineering skills (see chart). Engineering skills can only be acquired through practical experience. At the age of 45, the level of knowledge is therefore optimal - engineering skills are at their strongest and companies benefit the most from their employees here.

Can this level of knowledge be achieved more quickly? Yes, because the database provided by 3Dfindit allows young engineers to benefit from the expertise of experienced designers. The age at which engineers have the best engineering skills can be reduced to 30-35. This increases the benefit to the industry enormously.