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## CIMdata News

### *Comprehensive ADAS/AV Frontloaded Engineering Establishes Trust from the Start - a CIMdata Commentary*

21 November 2023

#### *Key Takeaways*

- Successful adoption of ADAS and AV requires trust—trust by the end users, and trust in the tools and solutions used to design, develop, and validate the vehicles.
- Frontloaded engineering is required to establish and maintain the needed trust.
- Modern virtual engineering ecosystems keep regulations and safety standards visible helping ensure compliance throughout the complete lifecycle, from ideation throughout product architectural studies and product planning.
- Siemens Digital Industries Software solutions enable collaborating, improving design decision-making earlier—from the beginning of ideation (aka, frontloaded engineering) through enhancing product and feature upgrades.

#### Introduction

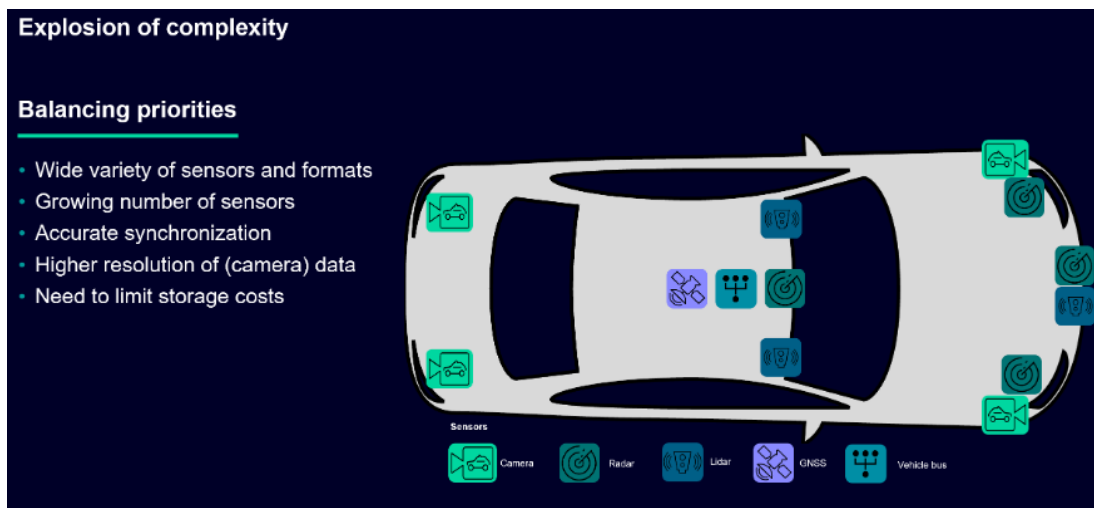
How can automakers deliver trustworthy and compliant ADAS and AV systems that function effectively in the widest possible range of conditions? Historic vehicle development methods and processes are too slow, relying on physical prototypes for integration and performance verification and validation. Virtual feature exploration driven by trusted models will accelerate systems engineering while reducing the time and cost to verify and validate physical systems. [\[1\]](#)

Moving engineering decisions earlier in product development by using virtual engineering for prototype mockups and performance assessments is the key characteristic of frontloading, allowing for faster development as engineering processes are reorganized. Frontloaded vehicle and systems design is needed to maximize ADAS features. It is a key to establishing trust in the overall vehicle design and performance. The definition, development, and refinement of ADAS and AV features must become continuous starting at vehicle concept initiation. This is an emerging competitive frontier for all ADAS/AV competitors, whether they are startups or experienced OEMs. In an earlier CIMdata whitepaper [\[2\]](#) three Siemens ADAS narratives were introduced, including this one defining the application of frontloaded engineering to improve virtual development of ADAS and AV features.

#### Frontloading Accelerates Ideation in Systems Engineering

There are competitive benefits of having techniques and processes that allow exploration of alternative candidate features to be virtually implemented thus enabling performance and behavioral assessments without expensive and slow to develop and costly physical prototypes. Virtual engineering's promise is that systems algorithmic development has fewer and fewer prototype learning cycles as virtual builds and performance assessments become more trusted. This accelerates product development and improves safety compliance. Trust comes from

experience correlated to the models of the system. Models can automatically adjust to reflect field measurements and thus more accurate models form the foundation of an environment where new ideas can be assessed quickly. Balancing priorities as new ideas are refined into realistic features is needed as early as possible to both optimize the design and establish trust in that design.



*Figure 1—Sensor Proliferation improves Safety, but Complexities Must Be Managed From the Start  
 (Courtesy of Siemens)*

The increasing vehicle complexity driven by more software and data sensors requires performance investigations on many architecture variants to identify which ones will meet all—sometimes conflicting—performance requirements. To determine which ADAS and autonomous driving features add the most value, systems engineers need to understand earlier in the development cycle if they can be incorporated successfully into the existing electrical and electronic (E/E) architecture and its constraints. Frontloading design decisions about the hardware, software, functionality reuse, and critical operational scenarios eliminates later stage prototype costs. A functional digital twin enables the capability to virtually iterate designs and scenarios across systems engineering’s ideation activities, feature definition, exploration, implementation, and optimization. Having all related data, targets, and compliance requirements associated with the trustworthy, digital twin models, ensures that systems are developed for electronics and electrical systems that meet the needs of the driver and the intent of the features while balancing power consumption to support the high-performance computing required for ADAS and AV systems.

Fast-paced design of features are key to success for many different ADAS and AV products. The electrical, embedded software, and mechanical aspects of such designs improve when they are designed virtually and validated and compared earlier in product development—the essence of frontloading engineering.

The Important Role of Reliable Digital Twins

#### CIMdata Definitions

**Digital Thread**—The communication framework that allows a connected data flow and integrated view of an asset’s data (i.e., its digital twin) throughout its lifecycle across traditionally siloed functional perspectives.

**Digital Twin**—A virtual representation (i.e., digital surrogate) of a physical asset or collection of physical assets (i.e., physical twin) that exploits data flow to/from the associated physical asset(s).

Effective feature development proceeds virtually when a reliable digital twin exists. The system models’ reliability improves as experiential data trains the digital twin. By using the latest “mature” digital twin, new features can be assessed and compared up front before any hardware is built.

Such a digital twin, connected via digital threads, enables a trusted and virtual systems engineering environment allowing engineers to generate, simulate,

analyze, and predict production performance before investing in physical prototype parts. The thread connects data leveraging product lifecycle management (PLM) and empirical data from real customers, including 3D design, performance simulation, and usage scenarios.

Using digital twins of the product enables accurate simulation and prediction of the physical twin’s behavior (and that behavior can be used to update and verify the virtual models and processes). Data captured from the physical twin can be replayed within the digital twin to expose and predict opportunities and to develop solutions that are then evaluated on the digital twin.

#### Siemens’ ADAS and AV Solutions Enable Frontloaded Engineering

By identifying and implementing frontloaded engineering capabilities, Siemens has assembled solutions that support automakers’ ability to bring new ADAS and AV vehicles more competitively to market without the historic risks associated with launching new technologies into mass production using lengthy physical prototype learning cycles. This frontloading narrative combines Siemens’ capabilities that enable automakers to remain competitive as consumer demands change. Many ADAS features will evolve during the ownership of a vehicle, well after the production and initial delivery of the vehicle. The use of executable digital twins can help product developers meet the correct, up-to-date set of requirements, even as those requirements change during development and use.

#### Example: Sensor and Vehicle Integration

Virtually integrating sensors, vehicle dynamics, and the operational environment into the functional digital twin is required to optimize system behavior. Placing sensors upon and within the vehicle affects sensing reliability and performance. Confirming that the E/E architecture supports AV and ADAS systems without compromising performance, safety, or comfort is possible virtually. Simulating trustworthy physics-based sensor inputs and connecting the algorithms to vehicle controls can confirm successful communication and functionality between systems both inside and outside the vehicle before a physical prototype has been (or is needed to be) built. Figure 2 depicts a systems engineer exploring options as packaging, performance, and algorithmic options are considered. Even more important, early trade studies correlated to the latest product use are now possible. Compliance, through comprehensive traceability, is visible from the start assuring SOTIF (aka Safety of the Intended Function) awareness.



*Figure 2—Siemens Frontloaded Ecosystems – Assessing ADAS and AV Virtually  
(Courtesy of Siemens)*

Several CIMdata articles summarize the expansion of MBSE driven, multi-discipline capabilities that Siemens has built. Siemens' solutions are already enabling advances in [electric vehicle engineering](#), [systems and software engineering](#), [executable digital twins](#), manufacturing planning, and operations, all contributing to [accelerating](#) every aspect of product development, production, and use. Siemens is now focusing those capabilities on frontloaded systems engineering, improving feature selection and refinement from the inception of ADAS and AV vehicle design.

### Conclusion

Keeping and building trust with customers and within engineering is crucial. Frontloaded engineering drives fast-paced ADAS and AV feature development and optimization while building that trust. It is key to success in the AV market. Siemens solutions can help automotive manufacturers assure safety from ideation through architecture and feature balancing, partitioning, packaging, and planning—resulting in faster downstream development. Keeping safety requirements and regulations visible from inception enables the capability to perform continuous safety assessments. Using frontloaded engineering with safety awareness from the start keeps new ADAS/AV features within the capabilities of existing products. Siemens has a view, depicted in Figure 3, intended to help keep automakers focused on improving earlier product decisions while keeping safety standards and practices in view.



Figure 3—Continuous Safety Assessments—Critical in ADAS and AV Development  
 (Courtesy of Siemens)

Using a digital thread-driven systems engineering environment can enable faster ADAS and AV feature innovations and deployments without compromising safety. Adopters of Siemens portfolio enabling the frontloading narrative for systems engineering can benefit with improved, safe ADAS and AV feature introductions. CIMdata’s recommends automakers should consider Siemens’s Xcelerator technology platforms when evaluating needs and solutions for trustworthy ADAS and AV development.

[1] Research for this paper was partially provided by Research for this commentary was partially supported by Siemens Digital Industries Software.

[2] <https://www.cimdata.com/en/news/item/23044-adas-and-autonomous-vehicle-development>

## Company News

### ABB opens new multipurpose building

16 November 2023

ABB opened the new “Emotion” multipurpose building at its Untersiggenthal location in an event attended by employees, politicians and the media. The new CHF 45 million center of excellence is ABB’s largest investment in Switzerland in over a decade. Following a two-year construction period, employees from research and development, sales and service, and project management and engineering are now moving into the building. It offers 500 modern workplaces and is a shining example of collaboration, innovation and sustainability.

### **Attractive working conditions**

ABB is reaffirming its commitment to attractive, modern working conditions and responding to the increasing need for flexible office space and the desire to promote social interaction. Employees will be able to share ideas and information and enjoy productive encounters with colleagues during the course of everyday working life.

“This investment will help us reinforce ABB’s presence in Switzerland and invest in high-growth technologies of the future. The new multipurpose building is an important step in positioning us as the employer of choice and attracting the best talent and most experienced workforce in an age marked by skill shortages. We want to offer our employees a world-class environment that promotes innovation, pioneering spirit and sustainability,” said Nora Teuwsen, Country Holding Officer, ABB Switzerland.

### **Commitment to Switzerland as a business location**

The new building underscores ABB’s 130-year presence in Switzerland and its investment in the key strengths of the Baden region. “ABB’s Untersiggenthal location is an impressive success story that clearly illustrates the constructive interaction between politics, business, education and research,” said Stephan Attiger, Councilor of the Canton of Aargau, Head of the Department of Construction, Transport and Environment. “This location is a prime example of the high-tech canton of Aargau’s ability to offer the most fertile ground for innovation and technological progress, and how global success can be a product of local origin.”

### **Global center of excellence for power electronics**

Untersiggenthal is where ABB develops and manufactures efficient and sustainable solutions for motion technology in the areas of industrial processes, infrastructure and railways, as well as for applications in the field of renewable energy generation. “Our new building is not just a symbol of our connection to the Baden region, but also an important step in strengthening our global center of excellence for power electronics. This key technology will help us boost energy efficiency and sustainability in future-focused markets like mobility, industry and renewables. We are proud that our Motion business area will make a meaningful contribution to these efforts,” said Adrian Rothenbühler, Head of ABB Switzerland’s Motion business.

Power electronics are tailored to specific applications to enable the highly reliable and efficient conversion of power into the desired form. They are used in traction converters for trains, e-buses and trams as well as in converters for wind or hydropower stations or in variable speed drives for motors that enable significant energy savings and quality improvements. ABB has successfully built and expanded its Power Electronics business from Untersiggenthal over the years. The location’s success is clearly reflected in the close to 300 new jobs created over the past five years.

### **New construction in the spirit of sustainability**

ABB aims to enable a low-carbon society, preserve resources, and promote social progress. The “Emotion” building shows ABB Switzerland’s commitment to implementing this strategy. It was built with more than 2,200 cubic meters of zirkulit<sup>®</sup>, a recycled concrete that also captures CO<sub>2</sub>. The building meets the Swiss Minergie standard and features modern building automation technologies to increase comfort and energy efficiency. The energy supply is provided by solar

energy from photovoltaic systems installed on neighboring buildings and by hydropower from the region. Heating and cooling are ensured by heat pumps that can extract energy from the groundwater.

## *Altair and Universiti Malaysia Perlis Announce Strategic Partnership to Boost Malaysia's Industrial Competitiveness and Bridge Knowledge Gap*

17 November 2023

Altair, a global leader in computational science and artificial intelligence (AI), has signed a memorandum of understanding (MOU) with the Universiti Malaysia Perlis (UniMAP) to drive knowledge, innovation, and sustainable technological progress in Malaysia. The agreement is focused on bridging the gap between technology and education by providing students with knowledge and skills in AI-driven manufacturing applications, industry engagement opportunities, and encourage collaborative design and industrial project work. This MOU aligns with Malaysia's vision of Industry Revolution 4.0, as well as technical and vocational education and training (TVET) specifically focused on data analytics, AI, and cloud solutions.

"Today marks a significant milestone for both Altair and UniMAP. As Malaysia continues taking steps towards becoming a technologically advanced, digitally enabled nation, technological education is a top demand," said Srirangam Srirangarajan, managing director of ASEAN and ANZ, Altair. "Education and technology go hand in hand, and by bridging the knowledge gap between the two, we enable students to remain competitive in this digitalized world. Together, we aim to shape the future of technological education in Malaysia."

The focus of this collaboration is to establish an automated 3D printing SMART manufacturing teaching factory at UniMAP TVET Centre, a first-of-its-kind facility in Malaysia. The facility will boast an array of cutting-edge technologies, including more than 20 3D printers, robotic arms for pick-and-place operations, and the utilization of Altair's software to optimize and simulate manufacturing processes. Data and AI will be employed for predictive maintenance, process monitoring, and enhancing productivity and efficiency throughout the factory.

A unique aspect of the partnership is the establishment of a full-scale 3D printing farm within a factory setting, underpinned by state-of-the-art software and AI. This innovation promises to set new benchmarks in the field of technological education.

"UniMAP's unwavering commitment and primary objective have consistently revolved around the integration of cutting-edge technologies like AI and data analytics into our curriculum and programs. This dedication is rooted in our mission and vision, which prioritize staying abreast of industry requirements and demands," said Professor Ir. Dr. Mohd Shukry bin Abdul Majid, deputy vice chancellor academic and international, UniMAP. "This collaboration holds the promise of equipping students with essential knowledge and competencies in AI-driven manufacturing applications, a field closely aligned with the principles of Technical and Vocational Education Training and the Industry 4.0 paradigm," he added.

Ranked as one of Malaysia's top 15 universities in 2024 by the Times Higher Education, UniMAP is committed to producing exceptional individuals to the nation's development and industrial

competitiveness agenda in line with its vision in becoming an internationally competitive technical university.

This partnership will benefit students, researchers, and the broader community by nurturing a highly skilled workforce capable of contributing to Malaysia's technological growth. The collaboration holds the potential for long-term impacts, driving innovation in the nation's technological landscape.

The partnership with UniMAP adds to Altair's ever-growing list of collaborations with higher education institutions across Malaysia and the ASEAN region, including Universiti Teknologi Mara, Universiti Teknologi Petronas, University of the Visayas (The Philippines), and Van Lang University (Vietnam), with various activities and programs aimed at enhancing technological education.

### *DXC Technology and AWS Take Their Strategic Partnership to the Next Level to Deliver the Future of Cloud for Customers*

20 November 2023

DXC Technology, a leading Fortune 500 global technology services company, and Amazon Web Services, Inc. (AWS), announced they are expanding their long-standing relationship to help customers accelerate their journey to modern, cloud-centric IT.

The companies will consult with nearly 1,000 of DXC's largest IT Outsourcing (ITO) customers to accelerate their journeys to the world's leading cloud. Through moving their workloads to AWS, DXC's customers will have access to the highest levels of reliability and security, as well as the ability to increase innovation, while lowering the cost of running IT infrastructure. Additionally, DXC, a leading Global Systems Integrator, has selected AWS as its preferred cloud provider to drive innovation and efficiencies across its organization.

"We are proud to be working with AWS to modernize the IT infrastructure of our customers," said Mike Salvino, Chairman, President and CEO, DXC. "This expanded agreement incentivizes us and our customers to accelerate the migration of their core enterprise systems to the cloud. We will leverage AWS's leading generative AI, analytics, compute, database, machine learning, and storage technologies to give our customers an ideal platform to modernize and grow their critical workloads. We expect this transformation path will also contribute to transitioning DXC from operational stability to higher performance."

"Together, AWS and DXC will help change what's possible for enterprise customers and set them up for long-term success," said Adam Selipsky, AWS CEO. "Enterprises that lean into the cloud see immediate benefits such as increased innovation, lower costs, with the ability to create new and differentiated opportunities for growth. AWS is committed to partnering with DXC to transform its service delivery into a cloud-centric model by training more than 15,000 professionals on AWS."

As part of this multi-year expansion of their partnership, DXC and AWS will build three key strategic elements to benefit customers:

#### **Accelerated Cloud Migration and Modernization**

Customers are increasingly transforming their core business platforms from on-premises environments, that are typical of legacy IT outsourcing, to the flexibility, reliability, and scalability of the cloud. DXC and AWS are collaborating to scale their migration methodologies, solution accelerators, and combined expertise in large-scale cloud migrations. After the initial migration, DXC and AWS will continue to jointly engage with these customers to help them on their modernization journeys.

### **Workforce Transformation**

AWS and DXC are collaborating to significantly expand and deepen the talent pool for cloud skills at DXC. Both companies are committing to jointly train and certify 15,000 DXC professionals over the next five years, using role-based training and learning experiences. This underscores DXC as a leader in migrating workloads from legacy IT environments to the cloud and managing complex IT estates. Customers will have access to an expanded bench of highly trained and advanced AWS certified resources to support their cloud migration and modernization objectives.

### **Asset Transformation**

Together, AWS and DXC will help customers exit aging data center facilities and IT assets in favor of agile, secure, and sustainable cloud technology provided by AWS. This will accelerate cloud adoption and drive down operating costs for DXC and its customers. DXC also plans to divest some of its existing data centers to interested parties.

### **AWS and DXC customers, stakeholders respond to the strategic transformation agreement:**

“This is great news,” said Silvia Gabrielli, Chief Digital & Data Officer, Ferrari S.p.A. “Ferrari works closely with DXC and AWS as we leverage technological innovation in pursuing excellence in design and craftsmanship. Both companies understand how important the reliability, security and scalability of our information and communications technology (ICT) systems are to our business. These are the right partners to collaborate with, as our will to progress continues to drive us.”

“We are delighted to partner with both DXC and AWS to help us on our digital first transformation journey as we bring together our decades of experience in the insurance market, the expertise of our people, and the power of technology, to deliver speed, energy, agility, and resilience to our customers,” said Bob James, COO, Lloyds.

“Operational excellence is critical to meet the world’s energy demands, and Baker Hughes continues transforming our infrastructure so we can best take energy forward, making it safer, cleaner and more efficient for people and the planet,” said Baker Hughes Chief Technology Officer Anthony Krebs. “The alliance between AWS and DXC, two industry leaders, will allow us to further accelerate the optimization of our operations.”

“A modern IT environment is critical for enterprises expanding their digital engagement with customers and taking advantage of data to improve decision making,” said Rick Villars, Group Vice President, IDC. “This transformational partnership between DXC and AWS addresses the

legacy infrastructure shortcomings, workforce skill deficits, and excessively capital-intense cost models that are the biggest barriers preventing timely modernization.”

### *ESI Group signs the Planet Tech'Care manifesto for responsible digital technology*

20 November 2023

**ESI Group, the world-renowned simulation and virtual prototyping software provider for industry, firmly commits to responsible digital practices by signing the Planet Tech'Care manifesto, initiated by Syntec Numérique, and joins the 921 signatories.**

Led by Numeum, Planet Tech'Care is a platform that connects companies and training stakeholders willing to take action to reduce the environmental impact of digital technology. By signing the manifesto, the signatories gain access to a support program (conferences, webinars, workshops, etc.) that helps them transition from commitment to action.

ESI Group will participate in the 3rd edition of the GreenTech Forum, organized under the high patronage of Planet Tech'Care, on November 21 and 22, 2023, at the Beffroi de Montrouge (Paris). The exhibition, primarily serving the digital ecosystem, is expanding at the French level today and aims to be European tomorrow.

### *Immersal and Burst join forces to transform location-based augmented reality fan experiences*

16 November 2023

**Immersal, part of Hexagon, announced a strategic partnership with Burst, a leader in innovative virtual reality fan experiences. This partnership marks a significant leap forward in location-based augmented reality (AR) experiences for conference, concert and event audiences around the globe.**

Immersal is a leader in spatial mapping and visual positioning technology. Its Visual Positioning System (VPS) has earned acclaim for its ability to seamlessly overlay digital content onto the real world. This technology holds the potential to shape how people interact with their environments in navigation, gaming, retail, and various other applications. Burst is at the forefront of creating original virtual fan experiences that bridge the gap between the digital and physical worlds. Burst's proprietary metaverse platform combines real-time photorealistic graphics with groundbreaking technologies like pixel-streaming, NFTs and blockchain. Burst works closely with A-list artists in creating immersive, gamified experiences.

Integrating Immersal's VPS technology with Burst's AR solutions enables even more accurate and engaging location-based AR experiences. Seamlessly blending real and digital worlds will enhance user engagement, create new revenue opportunities for sports events and entertainment businesses. Combining Burst's user-centric approach with Immersal's precision will also bring location-based AR to a wider audience through applications in retail, navigation, education and more.

*"Burst's innovative approach to mobile AR aligns perfectly with Immersal's vision of dissolving the boundaries between the tangible and the virtual for impactful immersive experiences," says*

Matias Koski, CEO of Immersal. *“Together, we will redefine how people perceive and interact with the world around them through augmented reality.”*

## *Informatica Deepens Partnership with Microsoft, Strengthens Commitment to Canadian Customers with the Expansion of Cloud Footprint on Microsoft Azure*

16 November 2023

Informatica, an enterprise cloud data management leader, has established a Microsoft Azure pod in Canada now available to its Canadian customers. For Informatica customers that use the Azure ecosystem – particularly those in pivotal, highly-regulated sectors such as financial services, public service, healthcare and education – the pod provides seamless access to the leading Intelligent Data Management Platform (IDMC) to manage complex and fragmented data estates, better comply with strict data residency requirements and support complex cloud modernization projects.

Fueled by an AI engine, CLAIRE, IDMC is one of the most comprehensive data management solutions on the market. It boasts a suite of best-of-breed capabilities that help enterprises simplify the entire data management lifecycle, including integration, quality and observability, master data management and governance and privacy. Through CLAIRE, IDMC currently processes an astonishing 71 trillion cloud transactions per month, a 60% increase year-over-year.

IDMC complements the Azure Data & AI platform by producing quality, trusted data that feeds and improves the analytics and AI workloads customers run on Azure. Most importantly, Canadian Azure customers now gain access to the latest Informatica-Microsoft integrations, which include IDMC as an Azure Native Service and its integration with Microsoft Fabric.

With the availability of the Azure pod, Canadian customers can purchase IDMC as an Azure SaaS solution through the Azure Marketplace, which allows the cost of the solution to count toward their Microsoft Azure Consumption Commitment.

"Our roots in Canada, from a customer, employee and product development standpoint run deep, and this new Azure pod allows us to plant the Informatica flag even further into Canadian soil," said **David Ridout, Canada Country Leader at Informatica**. "Now, with easier access to the most extensive data management platform in the market, this is a game-changer for Canadian Azure customers that want their data to be a product for their businesses rather than a problem."

"The fixation on customer innovation and success in the cloud is a common trait between Microsoft and Informatica," said **Andrey Cavalcanti, General Manager, Azure Data and AI Canada, Microsoft**. "By complementing our broad Microsoft Azure ecosystem with the expertise of Informatica's AI and data management capabilities, this new pod will help Canadian enterprises accelerate their digital transformation, support more meaningful AI adoption and become more efficient, data-led organizations."

## *Keysight's Near-Term Science-Based Targets Approved by the Science Based Targets Initiative*

16 November 2023

Keysight Technologies, Inc. announced that its near-term science-based targets (SBTs) have been approved by the Science Based Targets initiative (SBTi). The targets provide a clear objective for the company's strategy to reduce operational greenhouse gas (GHG) emissions in line with a 1.5°C trajectory and to engage customers in setting their own SBTs.

An increased global temperature presents significant economic, social, and environmental challenges. Rapid emissions reductions are necessary to mitigate the worst impacts of climate change and limit global warming to 1.5°C.

Keysight commits to reducing absolute scope 1 and 2 GHG emissions 42% by fiscal year 2030 from a fiscal year 2021 base year. Keysight also commits that 73% of its customers by emissions covering use of sold products, will have science-based targets by fiscal year 2028.

Keysight's scope 1 and 2 operational emissions reduction strategy includes energy reduction through efficiency and conservation measures, decarbonization of industrial processes, and sourcing renewable electricity worldwide. In 2022, the company completed the first comprehensive calculation of its scope 3 indirect emissions and identified the use of sold products category as the most significant. Keysight will work with its customers to provide guidance and support on setting SBTs to reduce emissions.

In addition to the approved near-term SBTs, Keysight remains committed to achieving net zero GHG emissions in scopes 1 and 2 by the end of fiscal year 2040. Keysight reports on its progress towards net zero emissions in the company's annual Corporate Social Responsibility (CSR) Report and plans to include future progress on its approved near-term SBTs. Keysight's near-term targets are listed on the SBTi website.

**Ingrid Estrada, Chief Administrative Officer and Chief of Staff, Keysight said:** "The private sector must take meaningful action to do its part in limiting global temperature rise to 1.5°C. By validating targets through the SBTi we are demonstrating our alignment with the latest climate science, meeting stakeholder expectations, strengthening business continuity and resilience, and engaging our value chain."

## *New TECHNIA Office at FENIX, Hagastaden to Foster Collaborative Work Culture*

20 November 2023

TECHNIA, the industry-leading Virtual Twin Experts, are excited to announce their relocation to FENIX STHLM in Hagastaden, a vibrant urban district seamlessly connecting Stockholm with Solna.

This strategic move is not just about new premises but also about co-locating with the parent company, Addnode Group, while settling into a new location in Stockholm City. The new address also brings TECHNIA closer to other portfolio companies of the group, facilitating collaboration and connectivity.

With this move, TECHNIA are embracing the evolving work landscape to empower employees and shape a collaborative and adaptive workplace. This mindset encourages numerous benefits, which correspond to the company's attitudes.

**Go Explore:** Creating best practices through internal innovation.

**Work Together:** Collaborative development of culture and work environment.

**Keep Learning:** Embracing agility, flexibility, and openness to change.

**Build Trust:** Facilitating the transition to new ways of working in a hybrid world.

*"We are delighted to announce the establishment of our new office in Hagastaden, the vibrant urban district seamlessly connecting Stockholm with Solna. This move reflects our commitment to adaptability and collaboration, empowering our employees to shape our workplace. We aim to create a dynamic environment that fosters continuous improvement and flexibility."*

**Magnus Falkman**

**Chief Executive Officer | TECHNIA**

*"This strategic move underscores TECHNIA's commitment to fostering a dynamic work environment. The benefits of our new office include enhanced accessibility, proximity to talented pools of individuals, and the opportunity for our team to thrive in a modern and innovative workspace."*

**Jens Rylander**

**Director Nordics, Benelux & Poland | TECHNIA**

*"We are very excited about our new TECHNIA office at FENIX where we want to create a modern, inclusive, and diverse work environment. A place for colleagues, customers, and partners to meet, connect, co-create, and build a re-energizing and positive work culture."*

**Karin Lindberg**

**Chief People Officer | TECHNIA**

## *PROS Holdings, Inc. Announces Appointment of Michelle H. Benfer to Board of Directors*

16 November 2023

PROS Holdings, Inc. , a leading provider of AI-powered SaaS pricing, CPQ, revenue management, and digital offer marketing solutions, announced the appointment of Michelle H. Benfer to its board of directors effective November 16, 2023. Benfer joins the board as an independent director.

Benfer is a skilled leader with more than 20 years of experience leading and driving successful sales teams at some of the world's most influential software and media companies. Benfer currently serves as Senior Vice President of Sales for BILL Holdings (NYSE: BILL), a leading financial operations platform for small and midsize businesses ("SMBs"). At BILL she is responsible for leading global Direct Sales. As a champion of SMBs, BILL's integrated platform helps businesses thrive more efficiently via their payables, receivables and spend and expense management.

Prior to BILL, Benfer served in sales leadership roles for HubSpot (NYSE: HUBS), including most recently as Senior Vice President Sales, The Americas, where she led sales for LATAM, U.S. and Canada regions. Previously, Benfer also served as Global VP Sales at LogMeIn (now GoTo) driving their high-growth products and held various sales roles in several media companies, including AOL, Meredith Corporation, and Condé Nast.

"I am excited to welcome Michelle to the PROS board," said PROS Non-Executive Chairman of the Board Bill Russell. "Her track record of developing, leading and scaling sales teams will be a great resource for us as PROS continues to grow its business. I look forward to working with her to create even greater long-term value for our shareholders."

"Michelle is a strong addition to our team, and I am thrilled she is joining us," said PROS President and CEO Andres Reiner. "Michelle's experience in growing successful sales teams and driving customer acquisition make her an ideal partner for the PROS team as we aggressively pursue the tremendous market opportunity before us."

"I am truly honored to join the PROS Board during this time when AI-powered solutions are being embraced by the market," said Michelle Benfer. "I look forward to working with the team and sharing my experience and knowledge to help the company further drive success and capture additional market share."

Russell Reynolds advised the company in the Board search process.

### *Schaeffler AG appoints Dr. Astrid Fontaine as Chief Human Resources Officer*

20 November 2023

The Supervisory Board of Schaeffler AG has appointed Dr. Astrid Fontaine as Chief Human Resources Officer and as a full member of the Board of Managing Directors of Schaeffler AG, effective January 1, 2024. Dr. Fontaine has extensive and long-term international experience in the HR departments of well-known major automobile manufacturers.

Dr. Astrid Fontaine is coming to Schaeffler from the Volkswagen Group, where she was most recently responsible for "People & Transformation" on the Board of Management at Volkswagen Commercial Vehicles since September 2021. Before that, she was Head of "People, Digitalization and IT" at Bentley Motors in the UK from January 2018 to August 2021, also at Board level. Other activities in HR between 1994 and 2017 included positions at Porsche Cars North America and at DaimlerChrysler and Mercedes-Benz AG in Germany and the US.

Dr. Fontaine, who has both German and US citizenship, holds multiple Supervisory Board mandates within the Volkswagen Group. She has a degree in business administration and mechanical engineering and was awarded a doctorate in the field of "Information Systems" after completing a PhD program in the US. She has been a member of the Expert Group on the Transformation of the Automotive Industry at the German Federal Ministry of Economics since 2022.

"We are extremely pleased that we have succeeded in recruiting Dr. Astrid Fontaine, a proven HR expert described by Automobilwoche magazine as being 'one of the most influential women in the automotive industry'. Thanks to her extensive experience and know-how within large

international automotive groups, she will also play a particularly important role in the anticipated task of integrating Vitesco Technologies Group AG,” says Georg F. W. Schaeffler, Family Shareholder and Chairman of the Supervisory Board of Schaeffler AG. “At the same time, I wish to thank Ms. Corinna Schittenhelm most sincerely for her great personal commitment during the past eight years. She did an excellent job of setting up the HR function at Schaeffler, which will allow her successor, assisted by a first-class team, to build on a very good foundation.”

## Event News

### *Autodesk to present at upcoming investor conferences*

22 November 2023

Autodesk, Inc. announced its executives will be speaking at the following investor conferences:

November 28, 2023	UBS Global Technology Conference
December 7, 2023	Barclays Global Technology Conference

A live webcast and replay of the presentations will be available through Autodesk’s Investor Relations Website at [investors.autodesk.com](http://investors.autodesk.com). Please go to the website 15 minutes early to register, download and install any necessary software. More information will be available on [autodesk.com/investors](http://autodesk.com/investors).

## Financial News

### *AUTODESK, INC. ANNOUNCES FISCAL 2024 THIRD QUARTER RESULTS*

21 November 2023

Autodesk, Inc. reported financial results for the third quarter of fiscal 2024.

*All growth rates are compared to the third quarter of fiscal 2023, unless otherwise noted. A reconciliation of GAAP to non-GAAP results is provided in the accompanying tables. For definitions, please view the Glossary of Terms later in this document.*

#### **Third Quarter Fiscal 2024 Financial Highlights**

- Total revenue increased 10 percent to \$1,414 million;
- GAAP operating margin was 24 percent, up 4 percentage points;
- Non-GAAP operating margin was 39 percent, up 3 percentage points;
- GAAP diluted EPS was \$1.12; Non-GAAP diluted EPS was \$2.07;

- Cash flow from operating activities was \$18 million; free cash flow was \$13 million.

"Autodesk AI and Platform Services will enable Autodesk, our customers, and partners to build more valuable, data driven, and connected products and services in our industry clouds and on our platform," said Andrew Anagnost, Autodesk president and CEO. "Our customers remain committed to transformation, and to Autodesk, evidenced by our largest-ever EBA signed during the quarter, and record contributions from our construction and water verticals to our overall EBA performance."

"Overall market conditions and the underlying momentum of the business remained similar to the last few quarters. Our financial performance in the third quarter was strong with much of the outperformance coming from larger-than-expected expansions of existing EBAs," said Debbie Clifford, CFO of Autodesk. "Given that, we are raising revenue, earnings per share, and free cash flow guidance."

### **Additional Financial Details**

- Total billings decreased 11 percent to \$1,204 million.
- Total revenue was \$1,414 million, an increase of 10 percent as reported, and 13 percent on a constant currency basis. Recurring revenue represents 98 percent of total.
- Design revenue was \$1,192 million, an increase of 10 percent as reported, and 12 percent on a constant currency basis. On a sequential basis, Design revenue increased 3 percent as reported, and 4 percent on a constant currency basis.
- Make revenue was \$134 million, an increase of 15 percent as reported, and 16 percent on a constant currency basis. On a sequential basis, Make revenue increased 3 percent as reported and on a constant currency basis.
- Subscription plan revenue was \$1,314 million, an increase of 11 percent as reported, and 13 percent on a constant currency basis. On a sequential basis, subscription plan revenue increased 3 percent as reported, and 4 percent on a constant currency basis.
- Net revenue retention rate remained within the range of 100 to 110 percent, on a constant currency basis.
- GAAP operating income was \$334 million, compared to \$256 million in the third quarter last year. GAAP operating margin was 24 percent, up 4 percentage points compared to the third quarter last year.
- Total non-GAAP operating income was \$547 million, compared to \$465 million in the third quarter last year. Non-GAAP operating margin was 39 percent, up 3 percentage points compared to the third quarter last year.
- GAAP diluted net income per share was \$1.12, compared to \$0.91 in the third quarter last year.
- Non-GAAP diluted net income per share was \$2.07, compared to \$1.70 in the third quarter last year.

- Deferred revenue increased 6 percent to \$4.02 billion. Unbilled deferred revenue was \$1.22 billion, an increase of \$322 million compared to the third quarter last year. Remaining performance obligations ("RPO") increased 12 percent to \$5.24 billion. Current RPO increased 12 percent to \$3.52 billion.
- Cash flow from operating activities was \$18 million, a decrease of \$451 million compared to the third quarter last year. Free cash flow was \$13 million, a decrease of \$447 million compared to the third quarter last year.

### Net Revenue by Product Family

Our product offerings are focused in four primary product families: Architecture, Engineering and Construction ("AEC"), AutoCAD and AutoCAD LT, Manufacturing ("MFG"), and Media and Entertainment ("M&E").

	Three Months Ended October 31, 2023		Three Months Ended October 31, 2022		Change compared to prior fiscal year	
	\$		\$		\$	%
<i>(In millions, except percentages)</i>						
AEC	\$	675	\$	575	\$ 100	17 %
AutoCAD and AutoCAD LT		372		354	18	5 %
MFG		269		254	15	6 %
M&E		73		78	(5)	(6) %
Other		25		19	6	32 %
Total Net Revenue	\$	1,414	\$	1,280	\$ 134	10 %

### Business Outlook

The following are forward-looking statements based on current expectations and assumptions, and involve risks and uncertainties, some of which are set forth below under "Safe Harbor Statement." Autodesk's business outlook for the fourth quarter and full-year fiscal 2024 considers the current economic environment and foreign exchange currency rate environment. A reconciliation between the fiscal 2024 GAAP and non-GAAP estimates is provided below or in the tables following this press release.

### Fourth Quarter Fiscal 2024

<b>Q4 FY24 Guidance Metrics</b>	<b>Q4 FY24 (ending January 31, 2024)</b>
<b>Revenue (in millions)</b>	\$1,422 – \$1,437
<b>EPS GAAP</b>	\$0.99 – \$1.05
<b>EPS non-GAAP (1)</b>	\$1.91 – \$1.97

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(1) Non-GAAP earnings per diluted share excludes \$0.75 related to stock-based compensation expense, \$0.11 for the amortization of both purchased intangibles and developed technologies, \$0.06 for acquisition-related costs.

*Full Year Fiscal 2024*

<b>FY24 Guidance Metrics</b>	<b>FY24 (ending January 31, 2024)</b>
<b>Billings (in millions) (1)</b>	\$5,075 – \$5,175 Down 12% – 11%
<b>Revenue (in millions) (2)</b>	\$5,450 – \$5,465 Up approx. 9%
<b>GAAP operating margin</b>	Approx. flat year over year
<b>Non-GAAP operating margin (3)</b>	Approx. flat year over year
<b>EPS GAAP</b>	\$3.88 – \$3.94
<b>EPS non-GAAP (4)</b>	\$7.43 – \$7.49
<b>Free cash flow (in millions) (5)</b>	\$1,200 – \$1,260

- (1) Excluding the impact of foreign currency exchange rates and hedge gains/losses, billings guidance would be down approx. 11% – 9%.
- (2) Excluding the impact of foreign currency exchange rates and hedge gains/losses, revenue guidance would be up approx. 12%.
- (3) Non-GAAP operating margin excludes approximately 13% related to stock-based compensation expense, approximately 2% for the amortization of both purchased intangibles and developed technologies, less than 1% related to acquisition-related costs and less than 1% related to lease-related asset impairments and other charges.
- (4) Non-GAAP earnings per diluted share excludes \$3.27 related to stock-based compensation expense, \$0.39 for the amortization of both purchased intangibles and developed technologies, \$0.12 related to losses on strategic investments, \$0.13 related to acquisition-related costs, and \$0.03 for lease-related asset impairments and other charges, partially offset by (\$0.39) related to GAAP-only tax charges.
- (5) Free cash flow is cash flow from operating activities less approximately \$30 million of capital expenditures.

The fourth quarter and full-year fiscal 2024 outlook assume a projected annual effective tax rate of 24 percent and 18 percent for GAAP and non-GAAP results, respectively. Shifts in geographic profitability continue to impact the annual effective tax rate due to significant differences in tax rates in various jurisdictions. Therefore, assumptions for the annual effective tax rate are evaluated regularly and may change based on the projected geographic mix of earnings.

### **Earnings Conference Call and Webcast**

Autodesk will host its third quarter conference call today at 5 p.m. ET. The live broadcast can be accessed at [autodesk.com/investor](http://autodesk.com/investor). A transcript of the opening commentary will also be available following the conference call.

A replay of the broadcast will be available at 7 p.m. ET at [autodesk.com/investor](http://autodesk.com/investor). This replay will be maintained on Autodesk's website for at least 12 months.

### **Investor Presentation Details**

An investor presentation, Excel financials and other supplemental materials providing additional information can be found at [autodesk.com/investor](http://autodesk.com/investor).

### ***Invitation to Tecsys' Conference Call on December 1, 2023, Covering Second Quarter FY2024 Results***

20 November 2023

Tecsys Inc. will release its financial results for the second quarter of fiscal year 2024 ended October 31, 2023 on November 30, 2023 after the markets close. Tecsys President and CEO Peter Brereton, and CFO Mark J. Bentler, will host a conference call on December 1, 2023 at 8:30 a.m. EST to present and discuss the results with the analysts.

Subject: Q2 FY2024 Financial Results Conference Call

Date: December 1

Time: 8:30 a.m. EST

Phone number: 877-224-7327 or 416-641-6705

The call can be replayed until December 8, 2023 by calling 800-558-5253 or 416-626-4144 (access code: 22028536).

## Implementation Investments

### *Atos and WWF partner up to leverage technology to support biodiversity conservation*

22 November 2023

Atos and the World Wide Fund for Nature (WWF) announce a 3-year strategic partnership to leverage technology to support biodiversity conservation and to encourage businesses to decarbonize. This comprehensive partnership has been designed to tackle three key priorities – business transformation, financing and influence – which are essential to effectively tackle the current biodiversity crisis.

As part of the partnership, four main initiatives are being rolled out, leveraging the expertise of Atos and WWF teams from all over the world.

Atos to develop responsible IT solutions for WWF and its partners

Atos and WWF have defined the following projects by which conservation organizations and other stakeholders could benefit from Atos' technological expertise.

- **Automating biodiversity surveillance** - The first project aims to bring automation to the monitoring of important ecosystems. Atos experts are working to combine the use of artificial intelligence to analyze satellite imagery with the development of algorithms which identify patterns over a given time period in order to identify irregular trends which might indicate a negative biodiversity impact. In the future, organizations will not only be able to identify the areas of greatest concern, but also benefit from predictive solutions for nature conservation. The first pilot, currently being developed, will analyze grasslands and savannahs in East Africa.
- **Predicting & preventing epidemic risk** - The second project focuses on predicting hotspots of emergence for zoonoses – diseases that jump between species, including humans. Atos teams are developing machine learning algorithms to analyze demographic, environmental, animal health and pathogen data, in order to identify

patterns and predict the risk of new diseases. These solutions will complement existing surveillance systems by providing predictive data, to help governments and organizations anticipate and take preventive actions before the threat of an epidemic becomes a reality. A pilot is being developed to analyze data available in the Mekong basin.

- **Improving tech tools** - The third project aims at improving an existing solution known as SMART - a Spatial Monitoring and Reporting Tool – which is already used by 50,000 agents in 80 countries to support wildlife and ecosystem conservation. Atos experts are developing a streamlined, more efficient process with SMART's IT team, to enhance its usability in the field. In addition, they are developing improved dashboards and visualization options to give users greater and more granular insight into their data. They are also enhancing SMART with a tool to support users working to shift 'conflict to coexistence', that is, holistically manage conflicts between humans and wildlife to create mutual benefits of coexistence.

#### Atos and WWF to help advance decarbonization initiatives for industries

Atos and WWF have envisioned to analyze every year, an industry which has a significant carbon footprint, to identify its main decarbonization levers and provide recommendations to accelerate their decarbonization efforts. The first report focuses on shipping, which accounted for around 80% of global trade by volume in 2022, and is responsible for around 3% of global greenhouse gas emissions\*.

Since the publication of the IMO Marine Environment Protection Committee's new greenhouse gas (GHG) strategy in July 2023, Atos and WWF teams have compiled the literature devoted to the decarbonization of shipping into a comprehensive report. They found that most research focuses on new fuels and ship design, initiatives that could take a long time to have an impact on greenhouse gas emissions. In order to provide sustainability leaders with a clear and more achievable mid-term roadmap, the research focuses on energy efficiency, operational levers and concrete use cases where digital technology can help the shipping industry decarbonize its operations.

#### Atos to support on-site WWF France biodiversity projects

As part of the partnership, Atos supports two carbon capture and restoration projects managed by WWF France:

- the Posidonia project, which aims to protect the meadows of Posidonia, a plant noticeable by its extensive capacity to stock carbon, in the Mediterranean region,
- the Nature Impact project for the conservation or restoration of forest biodiversity in France, using the approach developed by WWF based on Payments for Ecosystem Services (PES).

#### Atos and WWF to encourage employee involvement in sustainability projects driven by WWF

Many of Atos employees are already regularly involved in volunteer work and environmental preservation. Atos and WWF aim to facilitate and encourage their commitment with a

dedicated program that will integrate onsite and digital volunteering opportunities in one platform compliant with CSR reporting frameworks. The first engagement programs for Atos employees will be launched in pilot countries in 2024.

**Kirsten Schuijt, Director General WWF**, said *“The devastating impacts of climate change and nature loss are felt everywhere. This dual crisis requires urgent, innovative and scalable solutions. Technology, if channeled in the right way, has the enormous potential to help address some of the pressing challenges we face today. We're excited about this new partnership with Atos as it will enable us to collaborate on advancing much-needed technological tools to support our efforts to stop and reverse nature loss at a policy level and in the field.”*

**Véronique Andrieux, CEO WWF France**, said *“We are very excited to announce our partnership with Atos, which is already delivering results on optimizing and increasing the reach of some of WWF's conservation projects. Helping us better identify changes in the habitats of Key Biodiversity Areas or modernizing some of the data collection and analysis tools used by our wildlife conservation teams are some of the outcomes already achieved by our common work. Our partnership with Atos represents a significant step forward, enabling us to harness technology for helping deliver our conservation objectives.”*

**Nouridine Bihmane, Deputy CEO Atos and CEO Tech Foundations**, said *“We are excited to announce this strategic partnership with WWF which is in line with our respective ambitions and expertise. Atos has been committed for over 12 years to decarbonize its own operations as well as accompany its customers in their own efforts. I am extremely proud that our technological expertise is being put to work to accelerate decarbonization strategies and support WWF's conservation practices and biodiversity projects worldwide.”*

The Atos Group has been committed to minimize the environmental impact of its activities across the value chain worldwide for over 12 years. Atos' main ambitions are to fully contribute to a more decarbonized and sustainable world by reducing and offsetting its own carbon emissions and to promote digital solutions that support its supply chain and clients in their own decarbonization journeys. The partnership with WWF, run by the Tech Foundations business line, is fully aligned with these objectives.

The Atos Group has been a member of both the 2022 Dow Jones Sustainability Index World and Europe for 8 years, and ranks among the first 3 European companies in the IT services sector. Atos has been listed A for more than 10 years by the CDP (Carbon Disclosure Project), which rewards actions to fight global warming.

### *Atos set to continue delivering hybrid cloud and core infrastructure services for public healthcare in Western Australia with 5-year contract renewal*

21 November 2023

Atos announces the continuation of its longstanding partnership with WA Health's Health Support Services (HSS) – the ICT service provider for the Western Australian public health system – through a 5-year, A\$242 M contract aimed at the delivery of managed services, hybrid cloud and core infrastructure services.

Atos will deliver cutting-edge technology solutions tailored specifically to support the ongoing digitalization of health records and systems, helping ensure the Western Australia community continues to receive a health care standard that is among the highest in the world.

**Daniele Principato, Chief Executive Officer of Atos Asia Pacific**, *“We are very proud to continue our partnership with HSS in Western Australia. This contract renewal is a testament to our ability to deliver best-in-class technology services to our clients in the APAC region and underlines our strong commitment to the Australian market.”*

**James Berry, Managing Director of Atos Australia & New Zealand**, *“From the very beginning of our partnership we have forged a strong relationship, collaborating closely to bring about HealthNext and continually enhance HSS’ IT and communications infrastructure. Today, we are excited to continue to bring the best of people and technology together to make HSS successful in delivering WA Health’s digital strategy.”*

**Jonathan Smith, Chief Information Officer of HSS**, *“We are very pleased to announce that we have renewed our partnership with Atos. Together, we have already successfully delivered the largest application re-platforming program undertaken by WA Health, which was completed on time and met our requirements in terms of security and compliancy. We are looking forward to continuing our work with Atos to help implement our WA Health digital strategy.”*

Atos and HSS have been collaborating closely since 2019 to transition and digitalize WA Health ICT systems. The initial agreement included private cloud, managed public cloud, hybrid cloud orchestration, co-location and managed services for 2,000+ servers, hosting over 1,000 applications, and a fully managed public cloud services utilizing three hyperscalers.

Working together, Atos and HSS are delivering complex, large-scale IT programs and IT strategy.

This continued collaboration enables WA Health to harness Atos's industry leading solutions, which help support WA Health in delivering the highest level of healthcare to the Western Australian community.

## *Bader Führungselemente presents new product catalog*

20 November 2023

### **Bader Führungselemente presents new product catalog**

As an international supplier of high-quality linear guides, Bader Führungselemente offers customers efficient solutions for optimizing their production processes. Each product is manufactured directly by Bader, ensuring a high level of quality and customization. Whether in the measuring industry, medical technology or laser technology, Bader products are used in many areas of mechanical engineering and special machine construction.

#### **Simple Configuration**

In order to provide customers with an even better service, Bader is now making its products available for download as 3D CAD models. The product catalog, powered by CADENAS, offers users the opportunity to navigate safely through the world of guide elements and adapt the products to their specific needs.

Interested parties can access the tool directly from the Bader homepage or via the 3Dfindit platform. Here, products such as dovetail slide guides or cross roller guides can be individually and easily configured: Customers can adjust the dimensions, load unit, locking mechanism, surface coating and many other criteria to suit their requirements. It is also possible to customize the material. The generated parts can be viewed in 2D or 3D.

With the new software solution from CADENAS, Bader enables customers worldwide to quickly find and configure customized products in just a few steps. This simplifies item selection as well as the entire design and purchasing process. In addition to downloading CAD models, product data sheets can also be generated as PDF files.

### *Better Scalability for Leading Swiss Milk Processor*

21 November 2023

Infor®, the industry cloud company, today announced that Emmi, a leading dairy product manufacturer based in Lucerne, Switzerland, has implemented Infor CloudSuite Food & Beverage, powered by Amazon Web Services (AWS). The company has replaced its previous on-premises enterprise resource planning (ERP) infrastructure with the industry-specific multi-tenant platform at five locations within just 6.5 months.

Emmi is the leading manufacturer of high-quality dairy products in Switzerland. The company was founded in 1907 as a merger of several cooperatives of dairy farmers in the Lucerne region. Emmi attaches the utmost importance to the careful treatment of nature, animals and people, and also contributes to value creation in rural regions. The company manufactures its products with around 9,000 employees at more than 50 locations in 11 countries.

Infor CloudSuite Food & Beverage is designed specifically to the needs of the food and beverage industry and also provides special functions for dairy processing companies. Infor's public cloud strategy enables Emmi to benefit directly from proven industry best practices at the international acquisitions. Locations in Canada, United Kingdom and Benelux are working with Infor CloudSuite Food & Beverage, as well as two subsidiaries in Turlock and Sebastopol, California, in the United States. More subsidiaries are being deployed in Infor CloudSuite Food & Beverage.

Of particular benefit to Emmi are, among other things, the excellent scalability of the cloud platform — which allows new branches to be connected easily — as well as the lower costs in operation. In addition, the multitenant-capable solution is always up to date due to regular real-time updates. Emmi can benefit particularly from the newest functions in the areas of finance and reconciliation.

The out-of-the-box functionalities for the dairy and cheese industry enabled a fast and efficient implementation at Emmi. These include, for example, the receipt of milk in fat, protein and dry matter components, push-pull planning for milk and dairy products, consideration of variable weight in cheese production and seamless batch traceability.

"Infor CloudSuite Food & Beverage is a great asset to us," says Markus Blatter, project lead at Emmi. "It is not only more transparent and has a better cost structure compared to the old on-

premises system, it also shows itself to be more flexible and agile due to the regular updates and the new features."

"The food industry, in particular, demands compliance with the highest standards," says Matthias Neu, Infor senior account manager. "Infor CloudSuite Food & Beverage has the flexibility and industry focus necessary to meet these standards — and we are proud that Emmi has trusted us with this task."

### *Design Studio Vies for Visibility with Centric PLM*

21 November 2023

Centric Software®, the Product Lifecycle Management (PLM) market leader, is pleased to announce that Design Studio, a Sri Lankan fashion apparel manufacturer predominantly catering to UK, European & US high fashion brands has chosen Centric PLM™ to drive efficiency and growth. 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.

Established in 2002, Design Studio originated as an apparel sourcing hub based in Colombo, Sri Lanka. Today, the company has grown to be one of the leading fashion manufacturers, catering to womenswear brands on the British, European and American high streets. The family-owned company now boasts in-house production capabilities across 7 facilities spanning 3 continents and a workforce of 3,700 individuals.

Navidu Samarakkodi, Director for Technology, Strategy & Transformation at Design Studio narrates how they came around adopting PLM. "We find it's the perfect time when the economy is a bit slow, to divert our attention towards optimizing the way we work and getting the right tools in place to digitally transform the business. We started by redefining a business capability model for Design Studio, then looked at industry peers to see what tools they're using. We soon realized PLM is definitely one of the tools we need, going beyond your traditional ERP."

The company struggled with information scattered across different applications such as emails, spreadsheets and chat groups. There was also a lot of time wasted on manual processes that could be digitalized, such as sampling – or even generating reports directly at a style level, regardless of the various color, size, destination and fit combinations that make up the SKUs for that style. After a thorough RFP process, Design Studio identified Centric PLM as the ideal solution to provide a single source of truth. Having a universal platform for all product-related data provides visibility to their core business processes such as managing complex product assortments and styles, creating multi-variant Bill of Materials (BOMs), managing end-to-end sampling processes and staying on top of all costings.

Navidu cites the reasons why they chose Centric, "The team demonstrated a clear understanding of our requirements and worked closely with us to determine the modules required to achieve our commercialization goals. Their experience and know-how in complex system integration with our other business platforms were crucial. Centric's successful track

record in implementing PLM for the fashion manufacturing industry, combined with its Agile Deployment approach, were key considerations. Our users have access to the PLM system from day one, with continuous refinement throughout the project sprints. This means the implementation truly aligns with our needs, rather than having to wait many months before we can use the system.”

The company’s Sales & Marketing teams, Merchandisers, Sampling & Garment Technology teams, Industrial Engineers, Technical teams and Leadership teams are all set to use Centric PLM. However, its impact goes far beyond. “The product data generated within PLM like style specifications, gradings & measurements, fabric & trim requirements, critical path information, supplier quotes and upcharges also concern our back-end users. Ultimately, our Manufacturing, Warehousing, Logistics and Finance teams end up becoming secondary consumers of the PLM data through ERP integration – it really has a company-wide impact,” shares Navidu.

Chamila Samarakkodi, Founder and Managing Director at Design Studio says, “We want to achieve greater end-to-end visibility, cut down wastages and optimize profitability—things that we expect by digitalizing our operations. We believe Centric can make that a reality, and the implementation team has been fantastic to work with so far. They demonstrate a deep understanding of the industry, which helps us see eye-to-eye and expedite project delivery.”

President of Centric Software, Fabrice Canonge says, “We are honored that Design Studio, a family-owned fashion manufacturer cementing their legacy in the industry, has chosen Centric PLM to amplify their digital transformation. We’re eager to witness the collaboration’s remarkable value for their company and customers.”

### *HanesBrands Expands Workplace Transformation with DXC Technology*

21 November 2023

DXC Technology, a leading Fortune 500 global technology services provider, announced it has signed a contract with HanesBrands, a global leader in iconic apparel brands, to evolve and digitalize the work experience of its thousands of associates around the world.

In a five-year deal, HanesBrands will utilize DXC’s Modern Workplace solutions to build a digital workplace environment based on ServiceNow and DXC Uptime™ Device Management technologies.

An extension of the two organizations’ existing multi-year, global partnership, the new agreement will support the continued transformation of the mission-critical systems underpinning HanesBrands’ business operations spanning 32 countries. It will empower HanesBrands’ associates to collaborate more effectively across business regions, enhancing productivity, connectivity, and efficiency.

The new solution includes DXC Uptime™, an Experience Platform that provides a consumer-like, user friendly platform providing a friction free experience generating significant annual savings for support services.

“Our investments in the latest technology, such as automation and AI, are generating increased efficiencies, driving business growth globally, and enabling us to be a digital and data driven

enterprise,” said **Subra Goparaju**, Chief Information Officer at HanesBrands. “With 51,000 associates around the world, efficient global employee collaboration is pivotal to achieving success. Using the latest digital platforms from DXC and its partners such as ServiceNow, we will empower our associates to work together more effectively and deliver the maximum value for customers.”

As a ServiceNow Global Elite Partner, over 2,000 certified ServiceNow experts make up DXC’s ServiceNow practice which manages over 7,000 implementations for more than 400 customers globally.

“Our workplace solutions enable the world’s leading organizations to optimize services for customers, colleagues and partners,” said **Andrew Wilson**, Global Lead, Modern Workplace at DXC Technology. “With HanesBrands, we are working together to modernize its operations and centralize its IT support model to help employees access the services they need, when they need them, improving their experience and allowing them to stay focused on their work rather than IT.”

### *Polish Mobile Payment System BLIK to Modernize and Expand into Romania and Slovakia with DXC Technology*

22 November 2023

DXC Technology, a leading Fortune 500 global technology services provider, will support Polish Payment Standard (PSP) in the expansion of its mobile payment system, BLIK, into Romania and Slovakia.

DXC will modernize and adapt the BLIK central system to meet payment standards in Romania and Slovakia. DXC will ensure BLIK is able to handle transactions in Romanian Leu and Euros, and can connect to the SWIFT (Society for Worldwide Interbank Financial Telecommunications) system.

Continuing a nine-year relationship, DXC will use software engineering to help develop PSP’s essential activities, adapting the existing system to serve the fastest-growing e-commerce segments in Romania and Slovakia, and providing daily technical support.

One of the largest payment systems in Poland, BLIK is at the forefront of driving a new era of digital payments in the region. Between July and September 2023, BLIK facilitated 455 million transactions worth 63 billion PLN (\$15.7 billion USD).

“BLIK is highly regarded in Poland and we have confidence that our solution will easily meet the requirements to integrate with other large European banks. This will help us grow the number of users engaging in e-commerce payments,” said Dariusz Mazurkiewicz, President at Polish Payment Standard. “We are pleased to have the support of an experienced partner in DXC that can help us implement our plans.”

PSP is a joint venture between six leading Polish banks (Alior Bank, Bank Millennium, Santander Bank Polska, ING Bank Śląski, mBank and PKO Bank Polski) and Mastercard. BLIK, introduced in 2015, is a key part of Poland’s shift towards a common payment system. It allows customers to

use their mobile phones to withdraw cash from more than 20,000 ATMs and facilitates hundreds of thousands of digital payment transactions.

“This is a major project for Polish and European banking. As a trusted partner, we will help PSP innovate the BLIK solution on a global scale to achieve international success,” said Michał Burda, Country General Manager at DXC Technology Poland.

### *Red Bull Ford Powertrains pursues the sustainable future of motorsport with Siemens Xcelerator*

20 November 2023

Siemens Digital Industries Software announced that Red Bull Ford Powertrains has leveraged the Siemens Xcelerator portfolio of industry software to rapidly develop the next generation hybrid ICE/electric driven Power Unit (PU) for the Formula 1 2026 racing season.

For the 2026 season, Red Bull Ford Powertrains will build power units for both the Oracle Red Bull Racing and Scuderia Alpha Tauri F1 Teams and will be one of only six manufacturers supplying power units for the F1 series. From the announcement of its intent in 2021, Red Bull Ford Powertrains has set an ambitious goal of developing 2026-specification sustainable high-speed power units from the ground-up, while meeting new specifications from F1. Like any start-up, Red Bull Ford Powertrains is breaking new ground with every component design, especially given the lack of historical data, in the extremely secretive world of powertrains development.

Ben Hodgkinson, Technical Director, Red Bull Powertrains Ltd said “Siemens Xcelerator is the digital backbone of our design and manufacturing journey, enabling us to concurrently engineer hundreds of rapid design evolutions across a large newly formed team; ensuring each designer has visibility and knowledge of what their colleagues are working on.

“It is especially challenging as we don’t have the luxury of historical data; every component, down to the nuts and bolts of the engine, has to be modeled from scratch. This means the design quality and ease of use from Siemens’ NX, combined with collaboration and lifecycle management with Teamcenter, is a critical factor for success.”

In addition to Siemens’ NX™ software for product engineering and Teamcenter® software for product lifecycle management (PLM), the Red Bull Ford Powertrains team leverages the simulation and test capabilities of Siemens’ Simcenter™ STAR-CCM+™ software to assist with design and validation across the project.

“The motorsport industry is aggressively pursuing a cleaner, more sustainable future that requires radical reinvention of how teams and suppliers approach all aspects of their development activities. By leveraging the benefits of digital transformation, delivered through the use of Siemens Xcelerator, we’re able to help motorsport partners in the field with their discovery, invention and ultimately, delivery of new cleaner solutions on the track, where rubber meets the road, in timescales previously thought unattainable,” said Robert Jones, executive vice president, global sales and customer success, Siemens Digital Industries Software. “We are delighted to play a part in the success of the Red Bull Ford Powertrains team

in achieving its goal to bring greater sustainability to motorsport and to meet the requirements for fossil carbon free performance, greater use of electric power and energy recovery for the 2026 racing season.”

## Product News

### *aPriori Fall '23 Cloud Release Update*

7 November 2023

Chris Jeznach published the announcement of aPriori’s fall cloud release on the aPriori blog. Chris writes, “In the latest quarterly update, aPriori categorizes its new SaaS features and capabilities into three main themes:

#### I. Design Engineering Productivity

1. aP Design Updates
2. Save, Find, and Compare Scenarios More Easily
3. aP Workspace’s New “Project” Feature (and More!)
4. New Quick Links and Extended PLM Mappings

#### II. Data and Modeling

1. Thermoforming and Sheet Plastic Manufacturing Process Enhancements
2. Machining, Assemblies, and Regional Data Libraries

#### III. Sustainability Insights

1. New Sustainability Insights for aP Design and More Manufacturing Process Models
2. Sustainability Reporting in aP Analytics”

Read the full details on the aPriori blog: <https://www.apriori.com/blog/apriori-fall-23-cloud-release-update/>

### *Carlson Survey OEM 2024 Brings Numerous Improvements for Greater Productivity*

14 November 2023

**Carlson Survey OEM 2024** brings new features, greater efficiency, and numerous improvements to bring more capability to your office. Survey OEM comes with the AutoCAD® 2022 engine built-in, allowing users who prefer to run Carlson Survey on AutoCAD the option to do so without the need to sustain a separate AutoCAD subscription.

A few of the new features in **Carlson Survey OEM 2024** include:

- dynamic subdivision design
- an improved legal description writer
- And a new station style with the option to add symbols

A full list of improvements in Survey OEM 2024 may be found [here](#).

## *CoreLogic's New DigitalTax Connect Upgrades Customer Experience and Workflow Efficiency for Mortgage Servicers*

16 November 2023

CoreLogic®, a leader in global property information, analytics and data-enabled solutions, introduced DigitalTax™ Connect, to streamline certain mortgage servicer operations by enabling access to real-time tax data. The new API suite is a powerful solution that can be integrated with servicers' existing solutions to upgrade the customer experience and streamline workflow efficiency for mortgage servicers, by accessing tax payment information, tax payment history and customer service status. This results in improved processes and improved customer experiences.

Key Features and benefits:

1. **Real-time Tax Payment Amount and Status:** DigitalTax Connect grants mortgage servicers instant access to the most accurate and reliable tax payment information available. By eliminating manual tracking and inquiries, this feature saves time, minimizes errors and improves the customer experience.
2. **Seamless Customer Service Status Updates:** Mortgage servicers gain real-time visibility into customer service statuses. This empowers them to proactively address concerns, track progress, resolve disputes and provide timely updates to borrowers. Effective communication and prompt resolution contribute to a higher level of customer satisfaction.
3. **Improved Workflow Efficiency:** CoreLogic's DigitalTax Connect seamlessly integrates with servicers' internal systems allowing servicers to create additional margin in their workflows.
4. **Enhanced Customer Experience:** By equipping mortgage servicers with accurate and real-time information, DigitalTax Connect enables personalized and proactive customer service. Servicers can promptly address inquiries and concerns related to tax payment amounts and status, creating a positive and engaging experience for borrowers.

"The CoreLogic Tax Servicing Data API is another step in our mission to put people at the center of the mortgage industry. DigitalTax™ Connect, alongside our comprehensive suite of tax servicing and portfolio monitoring solutions, are designed to meet the needs of servicers and ultimately enhance the customer experience and operational efficiency," said Jay Shafer, Executive, Servicing & Payment Solutions at CoreLogic. "By leveraging real-time tax payment information and customer service updates, our solutions empower mortgage servicers to deliver exceptional service and achieve significant workflow improvements."

There are many ways in which integration of CoreLogic's DigitalTax Connect can improve processes, including leveraging it in interactive voice response systems, for personalized assistance through automated phone interactions, and creating access to real-time updates for customers on mortgage-servicer website and mobile apps.

## *Datakit Version 24.1, the reference for exchanging CAD files with Rhino V8*

21 November 2023

Datakit is glad to inform you that users with converters under maintenance contracts are going to benefit from compatibility of their solutions with Rhino 8.

*The new V2024.1 version will provide with:*

- Entire compatibility with Rhino 8, 7, 6, 5
- Updates and enhancements developed by Datakit ensuring compatibility with new versions of software programs released on the market

*allowing you to recover the whole available 2D drawing data, the 3D model, the PMI and metadata.*

## *eSUB announces new integration with QuickBooks Online*

15 November 2023

eSUB Construction Software, a leading provider of subcontractor-focused construction management software, announced that its cloud-based project platform, eSUB Cloud, will offer an integration with QuickBooks Online from Intuit.

The integration offers enhanced efficiency by eliminating the need for manual data entry and streamlining timecards and financial data. It also ensures improved accuracy by minimizing errors due to duplicate entry of information from other sources, leading to more reliable financial reports. One of the standout features is the provision of real-time insights, ensuring accounting and project management teams remain synchronized with direct access to project costs, budgets, and financial data.

“eSUB’s integration with QuickBooks Online marks a significant milestone in our journey to provide comprehensive solutions to our clients,” said Cindi Karl, vice president of product for eSUB.

With the new features, eSUB Cloud users can now send approved timecards directly to QuickBooks Online with just a single click. They can also manage foundational database items, including contacts, vendors, crew members, and cost codes, all in one centralized location. Furthermore, the synchronization of projects between eSUB and QuickBooks Online offers unparalleled flexibility in data management.

“Our mission has always been to empower subcontractors with the tools they need to maximize profits and gain greater project efficiency,” said Karl. “By streamlining processes and enhancing real-time data visibility with this integration, we believe our clients can shift their focus from administrative tasks to more value-driven work. This integration is a testament to eSUB’s commitment to bridging the gap between project management and accounting.”

The integration is now available for all eSUB Cloud users. eSUB will host a live demonstration of its integration with QuickBooks Online on Thursday, Nov. 29, at 10:30 a.m. PST.

## *Eviden launches EcoDesignCloud*

20 November 2023

Eviden, the Atos Group business leading in digital, cloud, big data and security announces EcoDesignCloud, its new trusted cloud-based platform which helps organizations in their sustainable product management and development by providing a trusted calculation of the environmental impact of each product, at every stage of its lifecycle.

Using Artificial Intelligence algorithms EcoDesignCloud provides multi-criteria measure of the environmental performance of any goods, providing 16 Product Environmental Footprint (PEF) impact indicators, taking into account end-to-end supply chain activities, thereby offering organizations a complete assessment.

### **Advanced analysis at a glance**

Organizations today are faced with ever more stringent environmental regulations and are under pressure to meet sustainability targets and provide adequate reporting. Relying on internationally trusted and recognized data sources, EcoDesignCloud uses artificial intelligence to enable users to reliably assess the environmental impact and CO2 emissions for any product they design or purchase, throughout the supply chain, to help them meet their sustainability objectives and non-financial reporting requirements.

### **Accelerate decision-making with environmental impact simulation**

Using proven lifecycle inventory databases to generate an EcoScore, EcoDesignCloud allows product design and procurement teams to easily measure, view and assess the CO2 emissions and environmental impact of their products in a matter of minutes, rather than months compared to traditional methods, as well as easily create custom reports and compare assessments.

*“Our global vision is to accelerate businesses’ sustainable transformation by offering our customers a solution to massively evaluate products faster and at lower cost, thereby making sustainable transformation accessible to as many businesses as possible”* said Emmanuel Le Roux, Group SVP, Global Head of HPC, AI & Quantum at Eviden, Atos Group. *“EcoDesignCloud supports businesses integrate product design into the very heart of their environmental strategy, empowering them to develop their own eco-responsible expertise.”*

*“Our EcoDesignCloud platform has various use cases, for example in manufacturing to enable to efficiently assess Scope 3 emissions, and in the retail and Consumer Packaged Goods sector to support product designers, retailers and suppliers optimize the environmental impact of their products, packaging and merchandising solutions”* said Benoit Couchon, Chief Revenue Officer EcoDesignCloud at Eviden, Atos Group.

EcoDesignCloud is part of Eviden’s portfolio of sustainability solutions, which is dedicated to supporting its customers in all industries to accelerate their decarbonization and CSR goals.

## *MSI offers Step Up to Touchplan® program for Bosch RefinemySite software users*

21 November 2023

MOCA Systems, Inc. (MSI), a leading provider of services and software to the design and construction industry, announces a specialized customer assistance program to enable users of Bosch's popular RefinemySite to step up to Touchplan, the premier construction planning platform. The program combines data migration technology, expert user training, and flexible contract terms, all designed to preserve the customer's investment and prevent disruption in their Lean Construction journey.

"Bosch and MOCA Systems have always shared a deep commitment to the Lean Construction Institute's Last Planner System® for efficient, reliable construction planning," said MSI CEO Sandy Hamby, adding "and Touchplan's *Patented Pull Planning* technology further enables Lean Construction at scale for even the largest projects."

### **The Step Up to Touchplan program provides RefinemySite users with the following:**

- Generous discounts on Touchplan software to offset their RefinemySite sunk cost
- Dedicated Customer Success professionals to assure a smooth transition
- Data migration tools and assistance to preserve their RefinemySite data assets
- Free training and access to a wide variety of Touchplan learning resources
- Live chat with Touchplan experts and software migration specialists

"Delighting our customers is job one at MSI," said Jason Lyon, Touchplan's VP of Customer Success. "With our 30-second response time, dedicated success advocates, and methods for continuously improving planning routines, we can provide RefinemySite users with everything they need to easily take their Lean Construction journey to new heights," he added.

Current RefinemySite customers can send an email to [StepUp@touchplan.io](mailto:StepUp@touchplan.io) to learn more about the *Step Up to Touchplan* program and schedule a free consultation with a Lean planning expert to assess your needs and plan an efficient transition from RefinemySite to Touchplan.

## *Nemetschek Group Drives Innovation through the Use of Artificial Intelligence*

21 November 2023

The Nemetschek Group, one of the leading software providers for the AEC/O and media industries, is announcing product enhancements and strategic partnerships leveraging Artificial Intelligence (AI) technologies to further accelerate the design process, increase productivity and unleash creativity.

"We aim to provide trustworthy and ethic-based Artificial Intelligence to our customers in the AEC/O and 3D animation industries", says Marc Nezet, Chief Strategy Officer and Chief Division Officer Operate & Manage at the Nemetschek Group. "The technologies have an unprecedented potential to drive efficiency and sustainability at a time, where particularly the construction industry is facing numerous challenges."

## AI Visualizer for Archicad

The Nemetschek brand Graphisoft unveiled an AI-powered visualizer for its BIM software solution Archicad. With a powerful AI engine, that generates high-quality images, Archicad users can accelerate the early design process generating multiple design visualizations without modeling them in 3D. Powered by Stable Diffusion, a world-class AI-driven image generation tool, Archicad AI Visualizer creates detailed 3D visualizations during the early design stages. It is available for all architects and interior designers interested in exploring the future of AI-powered architectural visualization. The AI Visualizer will be made available for the Nemetschek brands Allplan and Vectorworks in the coming months.

“We are embracing AI technologies for the benefit of our customers”, says César Flores Rodríguez, Chief Division Officer Planning & Design and Digital Twin at the Nemetschek Group. “The Archicad AI Visualizer enables users to apply the latest AI-based technology where they need it most - early in the design process when exploring designs and communicating with clients”.

## Technology Partnership with AI-Startup

Across the construction lifecycle, massive amounts of data are being produced. 80 percent of this data is so-called dark data, which is not being used to add value to the business but causing costs. The Nemetschek brand Allplan last week announced a technology partnership with elevait, provider of enterprise software based on artificial intelligence (AI), to make it easier for the construction and real estate industry to access its full project data. The start-up elevait offers an intelligent search engine for proprietary documents such as plans, contracts, invoices, quotations, and delivery notes.

“With the partnership between Allplan and elevait construction and real estate companies can significantly increase their efficiency and productivity and gain a clear competitive advantage”, explains César Flores Rodríguez.

## *Release 2024-1: FRILO Expands Portfolio with New Program for Reinforcing Wooden Beams*

15 November 2023

FRILO Software GmbH has successfully delivered version 2024-1. With this update, the provider of innovative solutions for structural analysis and structural design is launching a new program on the market that allows the calculation of timber beams reinforced with timber or steel. In addition, two new PLUS programs, SWA+ and QS+, have been developed for steel construction. The integration of the Schöck Tronsole® in B7+ also enables the design of impact sound insulation for stairs in accordance with the approval of the component manufacturer.

The new FRILO program Reinforced beam HTV+ enables structural engineers to calculate single and multi-span timber beams with variably definable reinforcements (timber or steel reinforced). The timber beams can be reinforced on one or both sides with additional timber cross-sections or U or L steel profiles. The lateral reinforcements are connected to the timber core as a coupled system using a selection of fasteners. The reinforcements can be stored and

loaded separately from the timber core. Users can use bolts, dowel pins, threaded rods and dowels of a special design as fasteners. In addition to the free choice of support for the different static systems, the loads can be applied freely to all components. The coupled system is calculated using a framework analysis and the loads are distributed across the fasteners. Beams that have been calculated in the DLT+ or HTM+ programs can be transferred directly to the HTV+ and strengthened there. "In order to conserve resources, it is becoming increasingly important to use existing structures. With HTV+, we are therefore providing structural engineers with a program that supports them in preserving existing timber beams wherever possible," says Manuel Walter, Director Product FRILO and DC. The HTV+ program will not be available to FRILO customers until mid-December.

#### Design of hinged beam angle connections in steel construction

The program portfolio in steel construction has also been expanded. The new PLUS program Steel angle connection SWA+ is suitable for the design of hinged beam angle connections in steel construction. The user can configure the beam connection with or without a notch and arrange the notch on one or both sides. The angle geometry and bolt patterns can be specified or taken from the catalog for connection configurations. The new PLUS program Steel cross-sections general QS+ can be used to model cross-section values of any combination of thin-walled profiles in steel construction. DXF files can be used as an auxiliary foil for graphical cross-section modeling. The program determines the cross-sectional area, moments of inertia and moments of resistance.

#### Integration of the Schöck Tronsole® in the B7+ staircase program

FRILO is the first static calculation software to enable the design of stair flights made of reinforced concrete with the Schöck Tronsole® impact sound insulation element. The elements integrated in the FRILO program Staircase B7+ are Tronsole® type F for the sound-insulating connection of staircases to landings and floor slabs and type B for the connection to floor slabs. The design is based on the building authority approval from Schöck. Based on the input parameters previously selected in the FRILO program and the calculated support forces, the appropriate Tronsole is transferred to the B7+ via a web interface provided by Schöck. The B7+ helps the user to comply with the requirements for concrete cover and dimensions in accordance with the approval. "We are delighted to have further intensified our intensive cooperation with component manufacturer Schöck by integrating the Tronsole into the B7+ solution. The positive feedback from our customers confirms to me that structural engineers benefit from the cooperation between the two long-established companies now and in the future," says Markus Gallenberger, CEO of FRILO Software GmbH.

#### *TopoLT and ProfLT are now compatible with GstarCAD*

17 November 2023

We're glad to announce that TopoLT and ProfLT applications are now compatible with GstarCAD and can be run on the latest version GstarCAD 2024.

#### **About TopoLT and ProfLT**

TopoLT is a program that offers tools for 2D and 3D applications. It presents many possibilities

to create plans and maps, 3D models, volume calculations, image processing, etc. TopoLT is a complete solution for topography and cadastre projects.

ProfLT is a program that offers tools to create and draw longitudinal and cross profiles.

### **Maximum Productivity**

With over 25 years of steady growth and innovation, TopoLT provides powerful functions for quick drafting and automatic data processing and users will have their topographic and cadastral projects completed quickly and easily.

### **Easy loading**

TopoLT and ProfLT applications can be easily loaded into the GstarCAD product you're using simply by typing the APPLOAD command from GstarCAD.

### **Put your project on the map**

With TopoLT you can visualize your projects directly in Google Earth.

## *Trimble Introduces Connected Data Management License for Trimble Agriculture Display Users*

16 November 2023

Trimble announced the Trimble Ag Software–Data user license, offering seamless web and mobile connectivity for Trimble display users. This solution empowers farmers to efficiently manage their precision agricultural data. This user-friendly system bridges the gap between the field and the Trimble Agriculture Cloud, facilitating the collection, standardization, visualization and utilization of data from Trimble and third-party sources. Farmers can harness this data within Trimble's own applications or integrate it into third-party environments using Trimble APIs. This approach enables farmers to unlock the full potential of their data, either independently or through collaboration with business partners, resulting in significant time savings throughout the operational cycle.

The Trimble Ag Software–Data license is designed to address common operational challenges by connecting data, environments, workflows and stakeholders across the farm. By connecting the in-cab display and providing a rich suite of display data management capabilities, Trimble enables farmers to prepare the necessary field data and job instructions, including boundaries, guidance lines, landmarks and materials. This ensures field work is completed efficiently and with higher accuracy. In addition, farmers save time collecting and sharing job data from displays by getting real time access to job status and task records as jobs are completed. Valuable task records are centralized in the farmer's Trimble Agriculture Cloud account and made available for reporting, record keeping, agronomic analysis or collaborating with business partners. Finally, this new Trimble user license is designed with busy farmers in mind. It allows them to effectively manage field operations while on the go, including efficient monitoring of field work and simplifying the collection and sharing of data.

"The Trimble Ag Software–Data license is the first in its category that is not specific to a single equipment manufacturer or brand, allowing farmers to optimize production across a mixed fleet," said Dave Britton, vice president, product management, Trimble Agriculture. "With this

new software, we're laying the foundation to enable future value from connected devices, helping farmers better run their operations."

In addition, the Trimble Ag Software–Data license allows access to Trimble's expanded API, creating an open environment for farmers by coupling in-field devices and operational workflows for enabling compatibility with both Trimble and third-party agriculture applications. By bringing displays into the connected world, farmers can now bring the management of the data off the device, into the cloud and then into a Trimble third-party application by utilizing the extended API.

### *Unveiling the Future: PROLIM Debuts the Cutting-Edge FASCIA Digital Innovation Platform*

21 November 2023

PROLIM, a trailblazer in delivering comprehensive IT, PLM, and IoT solutions, is thrilled to unveil **Fascia – the Digital Innovation Platform**. This cutting-edge platform is set to revolutionize business processes, drive automation to enhance efficiency, and boost productivity.

Fascia Platform offers customers the ability to automate manual processes, connect disparate systems, create new digital experiences for both customers and users, and accelerate innovation. Based on the low code platform Mendix, it helps you design solutions efficiently to solve critical problems. The platform's agility and scalability empower manufacturers to adapt quickly to changing market conditions, fostering innovation, and ultimately leading to cost savings by reducing the need for custom development and automating manual processes.

Ashwini Patil, a digital transformation leader at PROLIM, said "In today's fast-paced business landscape, adaptation is the key to thriving, and our Fascia Digital platform empowers you to not only innovate but to strategically rethink and elevate your business goals".

Fascia Automotive is a comprehensive package of innovative solutions designed to empower automotive customers by addressing critical issues and enhancing overall efficiency. The package consists of solutions to solve different problems across the organization. Using this package customers can manage Supplier Plants and Parts; and manage the entire vehicle lifecycle from production to dealership along with quality checks along the way. Asset Management which is part of this bundle can help you manage your assets and manufacturers can track Warranty Claims using a workflow-based solution.

"As we usher in a new era of technological prowess, the debut of the FASCIA Digital Innovation Platform marks a paradigm shift in the industry. PROLIM is proud to spearhead this revolution, empowering businesses with cutting-edge solutions that redefine possibilities and drive unparalleled innovation." – Srinath Koppa, Managing Director, PROLIM India

Fascia Automotive, powered by Mendix, is set to redefine automotive excellence, providing manufacturers with the tools they need to thrive in a dynamic and demanding industry.

## *Vectorworks 2024 Update 2 Now Available*

21 November 2023

Global design and BIM software provider Vectorworks, Inc. announces the release of its second update for the Vectorworks 2024 product line, delivering an array of performance improvements aimed at enhancing the overall quality of the product line.

### **For All Designers**

Expanding on its capacity to enhance designers' workflows and provide them more time to design, this latest update delivers several critical improvements that will continue to empower users to achieve faster and more efficient processes from start to finish. Users will discover improvements to overall stability when working with worksheets, increasing data accuracy. Mac users can also look forward to an improved experience with Redshift render mode on macOS Sonoma.

Additionally, with the new Live Mode in the Omniverse Connector tool, users can now experience the power of real-time updates in their Omniverse Live Session models as they make changes in Vectorworks. Those collaborating on the NVIDIA Omniverse platform will receive real-time updates for a more seamless and iterative design process.

### **For Architects**

Continuing to address architects' specific needs, Vectorworks 2024 Update 2 includes improved representation of doors and windows for documentation, optimizing pocket door configurations and windows with custom sashes for better-quality 2D output. Improved interactive sizing and handling widgets for doors and windows also enhance the direct modeling and editing experience of those objects.

Improvements to the Structural Member's auto join behavior and better support for custom profile shapes mean more accuracy in its 2D representation. Plus, users will find improved performance when working with new parametric cabinet and railing objects and a new catalog of Aristokraft cabinets, providing even more options for customization and variety.

### **For Landscape Architects and Designers**

In a continued commitment to providing landscape professionals with the tools they need to embrace BIM in their everyday workflows, this update takes the improved visual and organizational capabilities of Vectorworks 2024 to a new level. Users will discover notable advancements in Site Model functionality, allowing for improved documentation of site changes, enhanced cut/fill behavior, more accurate representation of proposed surfaces on site models and heightened accuracy and stability when using site modifiers. They can now also take advantage of new default data tags for the Fence object.

Both Vectorworks Architect and Landmark users will benefit from the IFC improvements in this update, making BIM collaboration easier through new default settings for windows/doors, ramps, grid lines and columns/pilasters. Additionally, there is. Better support for IFC reference files in the Project Sharing environment, reducing the risk of error. Adding new fence and railing

tool worksheets will assist designers in both fields with reporting information for quantity take offs.

### **For Lighting and Live Event Designers**

Update 2 delivers additional quality and performance improvements to entertainment professionals' workflows, elevating overall quality and performance. Improved cable tools make editing and modifying cables and cable routes more reliable. At the same time, the general improvements to Summary Keys offer a notably enhanced representation of geometry and alignment of information.

For Vision users, this update brings even better support for GDTF files. Now, they can enjoy seamless compatibility with glTF/glb-backed GDTF files, and GDTF-based conventional fixtures can be focused and saved directly within the Vision platform.

This update is available to download for all currently released English-based versions of Vectorworks 2024. To install the update, select "Check for Updates" from the Vectorworks menu (Mac) or the Help menu (Windows).

### *What's new in Simcenter Systems simulation 2310*

14 November 2023

ClaireMaha Mathieu published the newest feature announcement for Simcenter Systems on the Siemens Blog. ClaireMaha says, "The newest update of Simcenter Systems simulation release 2310, has arrived and it's packed with great new features to help you tackle your everyday challenges easily. Save time at every step of the engineering process by optimizing your workflow, and managing complexity to keep pace with innovation. This blog highlights some of the new features in this release, which include Simcenter Amesim, Simcenter Flomaster, and Simcenter System Analyst."

Read the full post here: <https://blogs.sw.siemens.com/simcenter/whats-new-in-simcenter-systems-2310/>