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## CIMdata News

### ***CIMdata Announces Collaborative Research on the Current State and Future Trends of Digital Thread Implementation Within the Aerospace & Defense Industry***

*Collaborative research partners include the leading Aerospace & Defense Industry OEMs and PLM solution providers active in this space.*

22 September 2022



CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the initiation of a multi-sponsor collaborative research program focused on the topic of Digital Thread.

The Digital Thread has been a core element of the PLM vision for decades. The concept of automated linkage of multiple representations of a product, each tuned to the needs of various creators and consumers along the lifecycle, is very powerful. Tracing these linkages has been primarily a manual process. With recent advances in commercial PLM solutions, the Digital Thread, with automated linkages and traceability, has become a practical possibility for industries with complex products, such as aerospace & defense (A&D).

Leaders in the A&D industry are starting to implement targeted digital thread solutions and envision expanding these solutions upstream and downstream throughout the product lifecycle. With the newness of this approach, there is not much available in the way of lessons learned or actual value achieved. This lack of real data is a barrier to broader investment. At the same time, solution providers lack insight into the current state and future investment drivers within industry that is crucial to their solution strategies and roadmaps. This research is intended to provide meaningful insight into both communities.

For this research program, CIMdata, acting on behalf of the Aerospace & Defense PLM Action Group (AD PAG) member companies, has enlisted several leading PLM solution providers as co-sponsoring collaborative research partners: Aras, Eurostep, Jama Software, PTC, and Siemens Digital Industries Software.

Since its founding by Airbus, Boeing, Embraer, and Gulfstream in 2014, the AD PAG has sponsored research and jointly staffed projects on topics such as Model-Based Definition, Multiple-View Bill of Materials, PLM Technology Obsolescence Management, Global Collaboration, Model-Based Systems Engineering, and Digital Twin/Digital Thread. The members regularly interact with the principal PLM solution providers in project collaborations and executive-level strategic discussions.

The Group's leadership has recently determined to expand its reach into the PLM solution provider community and engage in collaborative research and dialogue on strategic topics. The intent of this initiative is to gain an in-depth understanding of the needs and opportunities within the A&D industry concerning a strategic topic that will influence solution strategy and the roadmap.

There are several elements to the research program, including an initial webinar to frame the key issues and share initial research findings, and interviews with thought leaders from the Sponsors and their lead customers to be published on the CIMdata.com blog and actively promoted to encourage broader discussion on this topic. CIMdata will publish the survey results for use by members of the PLM Economy.

According to James Roche, CIMdata's Director, Aerospace & Defense Practice, and the research lead for this study, "Industry leaders, particularly in A&D, are investing heavily, and expectations are high.

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But where in the product lifecycle are these investments being made, how successful are they, and what are the drivers and perceived opportunities that will determine where future investments are targeted? Researching these questions benefits planners in industrial companies and the solution provider community.”

Those interested in learning more can listen to the replay of the introductory webinar, “The Digital Thread in Aerospace & Defense, Current State, and Future Direction,” at <https://register.gotowebinar.com/register/7716639110277700622>.

If you are an industrial end-user in A&D and would like to participate in the survey, visit <https://www.esurveyspro.com/Survey.aspx?id=e7f30af2-8a72-495c-80d3-e6d2c6eba93b>. End users from other industries are invited to participate as well.

## ***pSeven: A Cloud-Native, Low-Code Environment for Engineering Workflow Automation and Collaboration – a CIMdata Commentary***

20 September 2022

*Leveraging AI/ML, data analytics, and optimization across the enterprise*

*Key takeaways:*

- Dealing with the design complexity of cyber-physical products and smart, interconnected systems of systems is driving the need for increased use of advanced digital modeling, simulation, and multi-disciplinary analysis and optimization (MDAO) augmented with AI/Machine Learning technologies.
- Engineers can now define and apply multi-disciplinary digital twins and MDAO starting earlier in the conceptual design and development phase as well as apply it in manufacturing and in operations to enable combined physics and ML-based “hybrid digital twins.”
- Industry leaders use MDAO to enable design innovation; reduce overall product design costs, minimize rework and manufacturing defects, reduce maintenance cycle times, and optimize in-service operational performance and costs.
- The low-code pSeven collaboration environment enables the capture, automation, and continuous refinement of best practices for performance simulation and design optimization to significantly improve overall engineering productivity.
- DATADVANCE pSeven Enterprise leverages company intellectual property in web-based MDAO and data analytics vertical applications used by engineers and data scientists across many technical domains.
- This “democratization” of physics-based modeling, performance simulation, design optimization, and data analytics best practices throughout the enterprise is a key enabler of digital transformation initiatives.

Manufacturers in all industries have been applying digital modeling and simulation technologies since the 1970s but today face new challenges as products continue to become more complex, capable, and connected. As part of the Industry 4.0 “systems of systems” world, products have an ever-increasing amount of embedded software and electronics. To successfully compete in today’s global markets, manufacturing industry leaders must leverage new and evolving technologies to digitalize their lifecycle development processes while maximizing and modernizing existing investments in modeling and simulation. The design and development of complex cyber-physical systems requires well integrated capabilities for cross-disciplinary simulation, analytics, and design optimization including the use of

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Artificial Intelligence (AI) technologies to enable Machine Learning (ML) and Deep Learning (DL). The promised business benefits of AI/ML/DL have significantly raised the ROI expectations of senior management as the next generation of internet savvy engineers and scientists readily embrace these new technologies.[\[1\]](#)

But domain-specific tools and disjointed development processes do not deliver the connectivity of information required to enable collaborative decision-making across engineering functional disciplines (i.e., mechanical, electrical/electronics, software, etc.) and across enterprise domains (systems engineering, R&D, test/V&V, manufacturing, operations). And the ongoing loss of generational experience and expertise combined with an overall degradation of fundamental engineering skills (i.e., by the TikTok/You Tube generation) increases the need to be able to leverage the skills of expert simulation engineers and data scientists to define and distribute new product design and simulation methods for use by many others (i.e., democratization). Professional engineers and scientists (i.e., experts and power users) must develop, validate, and automate MDAO best practices for use by “domain-specific” engineers who may have limited knowledge of the underlying simulation technologies and related AI/ML data analytics tools.

And with the emergence of IoT platforms and the numerous sensors now applied to in service products, the use of AI/ML and data analytics is taking on an ever increasing role and importance to validate and refine physics-based “hybrid digital twin” models used to predict and optimize the performance of cyber-physical products and manufacturing systems.

## DATADVANCE

DATADVANCE is an independent software developer that provides engineering software solutions and consulting services for intelligent design space exploration and predictive modeling. The company is based in Toulouse, France at the heart of European aerospace, and it has more than 10 years of experience working with leading aerospace companies across the globe. Apart from aerospace, typical customers today are in the automotive, life sciences, heavy machinery, ship building, offshore, energy, and turbomachinery industries.

DATADVANCE develops, sells, and supports predictive modeling and design space exploration solutions, packaged into an easy-to-use, low-code, web-based software portfolio called pSeven.

DATADVANCE collaborates with leading global software vendors, research centers and universities to continuously innovate and improve their software products and services.

### The DATADVANCE pSeven Portfolio

The pSeven portfolio is a suite of MDAO capabilities that can be used independently on an engineering desktop as well as be tightly integrated into an enterprise level Cloud-native workflow automation solution. Figure 1 illustrates the suite of pSeven software solutions.

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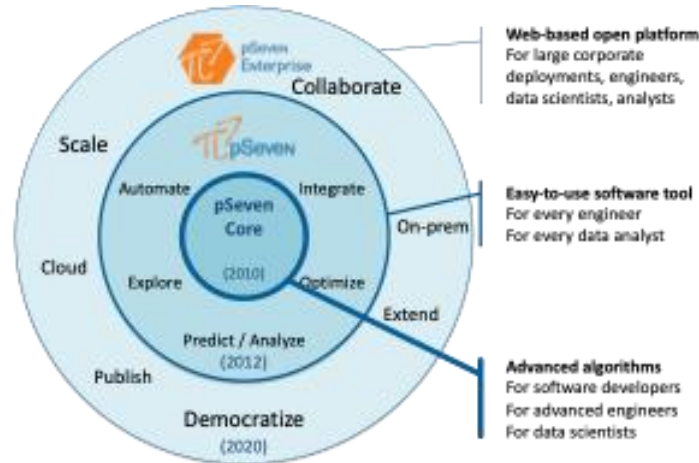


Figure 1: The pSeven Portfolio  
(Courtesy of DATADVANCE)

## pSeven Core

pSeven Core is an interconnected set of tools with proprietary, state-of-the-art algorithms for design exploration and predictive modeling packaged as a Python module, the de-facto industry standard for scientific computing. pSeven Core is available standalone or embedded as part of the pSeven suite.

- Users at all levels can perform design space exploration studies leveraging a wide range of pSeven Core capabilities, including efficient and industry proven machine learning, and multi-objective and robust design optimization algorithms.
- Smart Selection—Automated selection and tuning of the “best fit” machine learning and optimization algorithms, implemented in pSeven Core, enables non-expert engineers and data scientists to leverage powerful MDAO tools and predictive analysis capabilities to support hybrid digital twin applications.

## pSeven

pSeven creates reusable “best practice” MDAO simulations as well as “hybrid digital twins”—simulations combined with empirical data-driven ML algorithms. pSeven capabilities are available on the engineering desktop or in cloud platforms deployed and operated by the customer’s IT organization.

- Easy to use visual programming to define and automate scalable empirical data analyses and multidisciplinary design optimization workflows.
- Create workflows to orchestrate and automate the execution of various design and simulation tools for product functional performance evaluations created separately by different discipline teams and then assembled into a master workflow without the need for any manual rework and data transfer.

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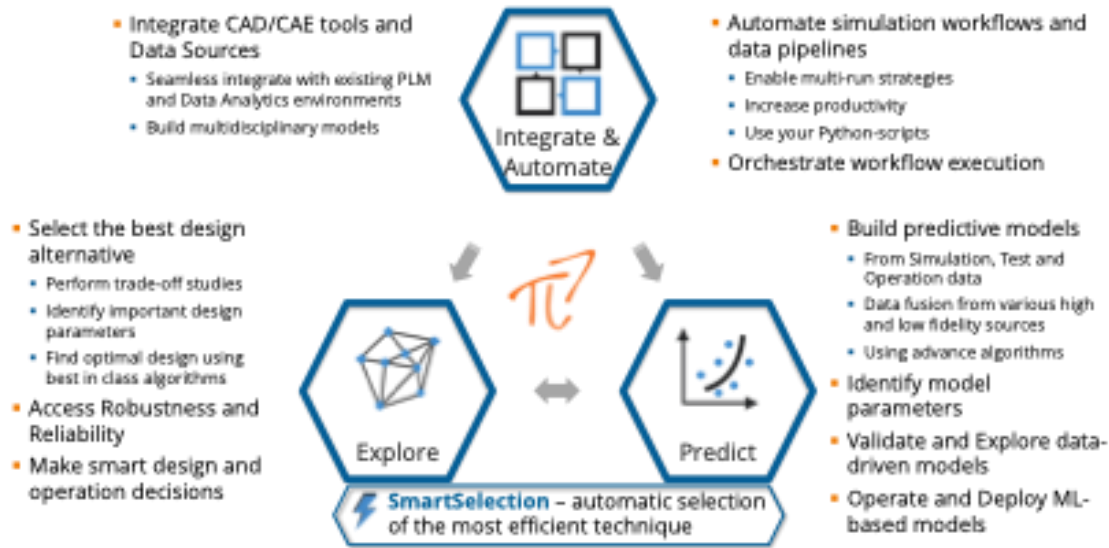


Figure 2: pSeven Enterprise delivers all the pSeven Capabilities in the Cloud for Simulation Automation, Design Exploration, Predictive Analytics, and Collaboration (Courtesy of DATADVANCE)

## pSeven Enterprise

pSeven Enterprise is a low-code, cloud-native environment to enable enterprise-wide creation and publishing of engineering MDAO best practices as well as cross domain collaboration by engineers and scientists at all levels of the extended ecosystem.

- Project teams can define, edit, and share multi-disciplinary simulation, design space exploration, and predictive analytics data processing workflows in a common, cloud-native workspace leveraging the same UI and core capabilities contained in the pSeven and pSeven Core desktop applications.
- It provides multiple levels of capabilities designed for different engineering user communities, functional roles, and skill levels:
  - Enterprise Studio and Enterprise Analyze for expert and power users.
  - Enterprise Apps Hub (a.k.a. enterprise AppStore) for users and consumers of domain specific applications and services, backed by monitoring, orchestration, and automation tools (i.e., democratization).
- It has an open and scalable cloud-native environment:
  - Open API enables data interoperability with other collaborative engineering environments such as SPDM, PLM/PDM, ERP, and empirical data from physical assets (through IIoT platforms).
  - pSeven Enterprise runs in public and on-premises cloud environments with capabilities such as “fire and forget” to delegate workflow execution to any server with a built-in resource manager.
  - Cloud-native architecture enables authoring and exploitation of engineering methods from any network connected device.

## pSeven Industrial Application Examples

pSeven has been successfully applied since 2012 across a wide range of industries to enable multi-disciplinary design space exploration and optimization, leveraging simulation workflow automation that integrates a variety of design, simulation, and AI/ML predictive modeling data analysis tools. Some notable customer applications include:

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## Airbus: Multi-Objective Optimization of Aircraft Family

### *Objective*

- Optimize a family of 3 airplanes at the conceptual design stage to ensure minimal model modification and related costs at later stages.

### *Challenges*

- High dimensionality: 9 objective functions, 12 design variables, 33 non-linear constraints. The optimization problem was considered unmanageable by a human engineer.

### *Solution*

- Gradient-based multi-objective optimization integrating custom in-house simulation tools.

### *Benefit*

- ↑ 5% performance improvement
- ↓ 20% design time reduction

## Mitsubishi Motors: Predicting Combustion Model Parameters

### *Objective*

- Predict combustion model parameters for accurate engine modeling.

### *Challenges*

- Fixed number of experimental data elements available
- High accuracy of predictions is required.

### *Solution*

- 1st stage: Fitting combustion parameters to existing experimental in-cylinder pressure vs. crank angle curves using optimization.
- 2nd stage: Creating a model to predict combustion parameters at an arbitrary regime using known values.

### *Benefit*

- Fast and accurate predictive model was created that can be used in further 1D vehicle acoustic simulations via export to FMI.

## Concluding Remarks

Real world systems are subjected to a wide range of operating conditions and customer applications; use cases that are often not explicitly accounted for during the design and development process. As such, understanding the impact of design variability on “as manufactured” and “as maintained” product performance is key to employing hybrid digital twins to accurately analyze, predict, and optimize today’s complex products and systems.

In CIMdata’s opinion, the pSeven product portfolio provides an excellent suite of capabilities that enable simulation-driven systems development via effective MDAO process automation and web-based collaboration for product development teams. It also provides robust design exploration capabilities that work across multiple domains in the enterprise such as physics-based digital twins for use in R&D, product design, manufacturing, and in-service operations.

While DATADVANCE is relatively unknown within North America, we expect that situation will change rather quickly as more companies become exposed to the business impact of implementing the

pSeven technology and its empowering capabilities.

See [www.DATADVANCE.net](http://www.DATADVANCE.net) for more information.

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[1] Research for this commentary was partially supported by DATADVANCE.

## Acquisitions

### ***NTT DATA Announces Intent To Acquire Apisero To Enhance MuleSoft Data Integration Capabilities***

20 September 2022

NTT DATA, a digital business and IT services leader, announced it has signed a definitive agreement to acquire Apisero, a leading global MuleSoft consulting firm. The acquisition supports NTT DATA's strategy to be the preferred digital innovation partner in the market providing clients end-to-end cloud and data and engineering capabilities. and adds approximately 2,100 global resources.

“Apisero's leading expertise with MuleSoft, along with its wider Salesforce ecosystem capabilities, helps us expand modern data and cloud integration expertise as we enable impactful digital transformation for our clients,” **said Wayne Busch, Group President, Consulting and Digital Transformation, NTT DATA Services.** “We continue to scale our digital transformation business. With other recent investments including Nexient, Vectorform, Postlight and now Apisero, we can offer our clients full end-to-end capabilities to help them achieve their business goals.”

“Since inception, Apisero has been deeply rooted in its commitment to the success of our clients, independent software vendors, partners, and employees,” **said Vijay Rao, CEO, Apisero.** “Combining this commitment with NTT DATA's global platform provides an incredible opportunity to drive enhanced capability and digital transformation to a broader portfolio of enterprise clients. We are excited to join NTT DATA and look forward to this new phase of our growth journey.”

Apisero will bring over 1,500 certified MuleSoft consultants and 500 Salesforce consultants to NTT DATA's digital transformation services team. In addition, Apisero provides full lifecycle support for MuleSoft including API and application design to implementation, management and support to help organizations overcome the challenges associated with unlocking siloed data, merging disparate data, and merging fragmented business applications.

“In today's digital economy, our customers expect seamless digitalization at scale for their businesses across the globe,” **said Brent Hayward, CEO, MuleSoft.** “Aligning Apisero's niched expertise with NTT DATA's global footprint will deliver increased product adoption and client success for MuleSoft and the broader Salesforce ecosystem.”

Apisero clients and employees will benefit from access to NTT DATA's powerhouse of innovation resources and broader digital transformation capabilities including a \$3.6 billion average annual R&D investment. NTT DATA recently announced the launch of 6 innovation centers across the globe to focus on bringing advanced technologies to clients with an Innovation Studio co-located in Plano, TX.

Pillsbury Winthrop Shaw Pittman LLP served as the legal counsel to NTT DATA, and Guggenheim Securities, LLC served as the exclusive financial advisor to Apisero in connection with this transaction. The transaction is subject to customary closing conditions, including regulatory approval and is expected to close within the next 30 days.

## Company News

### ***Atos and Working Group Two to deliver core-as-a-service to mobile operators worldwide***

19 September 2022

Atos and Working Group Two (WGTWO) are teaming up to provide operators with a simplified, end-to-end mobile network solution. It is based on WGTWO's 4/5G cloud-native mobile core and on Atos's full Next Generation Telecom Network portfolio, including cloud computing, edge and Open RAN technologies. Atos and WGTWO will jointly deliver "core-network-as-a-service" solutions. This collaboration will target related core opportunities such as IoT, Private Network and Enterprise for the Tier 1 operators, while also extending the offering to public MNO core networks for Tier 2, Tier 3. The solution will enable operators to optimize capacity, improve time to market, lower costs and simplify operations.

Operators can connect their radio networks to the WGTWO global core network. The WGTWO platform is a G-neutral platform that allows for a converged experience with national roaming on 2G/3G and full MNO or private network functionality for 4G/5G. The platform offers the full capabilities of a MNO core related to authentication and provisioning, policy, voice, messaging, data services and all the surrounding orchestration, operational and management tools.

Atos complements WGTWO's mobile network core with its Next-Generation Telecom Network portfolio, delivering mobile services for public and private networks. To enable more flexible and cost-efficient hosting and operations, Atos offers best-in-class virtualization and cloud technologies. As a world-leading systems integrator, we combine extensive digital transformation expertise, rich industry experience and combined technological capabilities in cloud and edge computing, artificial intelligence, digital security, and IoT

Atos hybrid cloud can enable customers to optimize business processes and modernize applications, while Atos Open-RAN and edge computing solution will enhance application performance and offer innovative services especially around automation. WGTWO's orchestration platform will simplify the seamless configuration of those services, with lower operational costs and virtualization of network operations.

**Jean-Claude Geha, Global Head of Telecom, Media and Technology at Atos,** said *"As mobile networks are getting more and more complex, operators need to simplify and rationalize their infrastructure. To go through this transformation, Cloud Computing and Network Functions Virtualization are key technologies for operators to deliver a simpler and more reliable network, with a faster time-to-market and tailored managed services. I am pleased to join forces with a new and innovative player such as Working Group Two to tackle this challenge."*

**Erlend Prestgard, CEO of Working Group Two,** said: *"Atos and WGTWO's end-to-end solution delivers simplicity, lower costs and enable operators to innovate continuously. We can deploy a wide range of use cases - including greenfield MNOs, specialty networks for MNOs that seek growth opportunities and private networks. We also support MNOs that seek the benefits of a full as-a-service model. Together, we bring a new era of programmability, allowing operators to speed up innovation, explore new revenue streams and get to market faster."*

## ***Bechtle has record-breaking trainee year***

16 September 2022

**Bechtle begins the 2022 academic year with a new record. With 256 vocational trainees and dual students, more young people than ever are starting off their professional lives at Bechtle. Across the IT group, there are currently 762 members of the latest Bechtle generation across 12 technical and commercial professions that require formal training in Germany, as well as nine dual university programmes—52 more compared to last year. The group-wide trainee ratio is thus at some 6 per cent, and Bechtle aims to increase this to 10 per cent by 2030. The application phase for the coming academic year has already begun.**

“The start of the academic year is always a special time for us. Being able to offer so many young and motivated people a secure position with long-term prospects is a matter of great importance to us. And it’s about far more than simply investing in the future of our company. Actively turning the page on the lack of skilled workers concerns our society as a whole. We’re delighted that our expanded training offering has received such high interest and that so many young people are putting their trust in us,” says Dr Thomas Olemotz, CEO of Bechtle AG.

Of the 762 young people currently in training, 402 have chosen a technical and 248 a commercial path, with the split being 74 to 38 for dual-study programmes. The vast majority of 687 vocational trainees and students is undergoing their professional education at Bechtle sites in Germany.

### **New: Cyber Security, Data Science and Software Engineering**

Bechtle has further expanded its wide range of vocational training paths to now include commercial positions for digitalisation management. Other roles in high demand include IT, wholesale and foreign trade, and consulting specialists. In partnership with cooperative state universities, Bechtle students are currently reading for degrees in a total of nine different courses, including business administration, business informatics, online media and cyber security. With data science and software engineering, there are also two new focus areas for the business informatics course.

### **Extensive training programme**

To get them off to the right start, Bechtle invites all new trainees to an onboarding event at its Bechtle Platz 1 headquarters to give them an opportunity to expand their network into other Bechtle locations, discover the administrative hub which is home to the group’s central service units, and gain insights into the company history and culture. It’s also the start of a specially tailored range of seminars that accompanies trainees and concludes with exam preparation courses. A mentoring programme provides advice and support every step of the way to make people feel quickly at home.

### **Traineeships available for 2023**

The various opportunities available for Autumn 2023, both for vocational trainees and university students have already been published.

## ***Bentley Systems Announces the Finalists in the 2022 Going Digital Awards in Infrastructure***

19 September 2022

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced the finalists in the 2022 *Going Digital Awards in Infrastructure*. The annual awards program honors the extraordinary work of Bentley software users advancing infrastructure design, construction, and operations throughout the world. Eleven independent jury panels selected the 36 finalists from over 300

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nominations submitted by more than 180 organizations from 47 countries encompassing 12 categories.

The winners will be revealed on November 15 during the 2022 *Going Digital Awards in Infrastructure* celebrations in London at the Intercontinental Park Lane in front of invited press members and industry executives. Finalists presentations will be available for viewing using [this link](#) on November 7, 2022. Visit the site to hear from the people behind these extraordinary infrastructure projects as they tell their stories of leveraging digital advancements to achieve unprecedented outcomes. Nicholas Cumins, Bentley's chief operating officer, said, "After two years of hosting the event virtually, we are excited to reunite in person with the *Going Digital Awards*' finalists to celebrate their accomplishments along with press members and industry analysts. Bentley executives will share insights about digital advancements in infrastructure along with updates on Bentley applications and technology innovations."

The finalists in the 2022 *Going Digital Awards in Infrastructure* are:

## Bridges and Tunnels

- **Ferrovial Construction and Alamo Nex Construction** – IH35 Nex Central Section, San Antonio, Texas, United States
- **Southwest Municipal Engineering Design & Research Institute of China** – In-depth and Collaborative Application of BIM Technology in the Second Section of Chengdu's East-West City Axis, Chengdu, Sichuan, China
- **Zigong Urban Planning and Design Institute Co., Ltd.** – Section C and D of the Infrastructure Construction Project of City-industry Integration Belt between Fushun County and Rong County of Zigong, Zigong City, Sichuan, China

## Construction

- **Acciona** – Safely Removing Dangerous Level Crossings through Digital Construction, Melbourne, Victoria, Australia
- **China Railway 18th Bureau Group Co., Ltd.** – Application of BIM Technology to Ultra-deep Water Transmission Tunnel in Pearl River Delta, Foshan, Guangdong, China
- **DPR Construction** – RMR 20 Massachusetts Ave., NW Repositioning, Washington, D.C., United States

## Enterprise Engineering

- **Mott MacDonald** – Smart Object Library for the Environment Agency, United Kingdom
- **National Highways** – Complex Infrastructure Programme – A303 ProjectWise and iTwin Deployment Pilot Project, Salisbury - Stonehenge, Wiltshire, United Kingdom
- **WSB** – Digital As-built Proof of Concept, Elk River, Minn., United States

## Facilities, Campuses, and Cities

- **Kaunas University of Technology** – Kaunas Digital Twin, Kaunas, Lithuania
- **Kokusai Kogyo Co., Ltd.** – Project PLATEAU: Japan's Largest 3D City Model Project, Numazu City/Kaga City, Shizuoka Prefecture/Ishikawa Prefecture, Japan
- **Sydney Airport** – Maps@SYD, Sydney, New South Wales, Australia

## Geoprofessional

- **GHD** – Cressbrook Dam, Toowoomba, Queensland, Australia

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- **Mott MacDonald** – Driving Efficiency and Sustainability in Material Reuse through geoBIM, Birmingham, West Midlands, United Kingdom
- **PT Hutama Karya (Persero)** – Semantok Dam Project, Nganjuk, East Java, Indonesia

## Grid

- **Essential Energy** – Essential Energy Intelligent Substation Design, Port Macquarie, Australia
- **POWERCHINA Hubei Electric Engineering Co., Ltd.** – Full Life-cycle Digital Application in Wuhan Xudong 220 kV Substation Project, Wuhan, Hubei, China
- **State Grid Hengshui Electric Power Supply Company** – Comprehensive Application of BIM Technology for Power Transmission and Transformation Engineering Construction, Hengshui, Hebei, China

## Process and Power Generation

- **OQ Upstream** – OQ Asset Reliability Digitalization with Purpose, Oman
- **Sarawak Energy Berhad** – Modernizing Bakun Hydroelectric Plant with a Digital Twin, Bintulu, Sarawak, Malaysia
- **Shell Projects and Technology** – Deepwater Project Delivery Digital Platform, Gulf of Mexico, Texas, United States

## Rail and Transit

- **Arcadis** – Carstairs, Scotland, United Kingdom
- **Metro Manila Subway Project (MMSPP) - Phase 1** – Metro Manila Subway Project (MMSPP) - Phase 1, Metro Manila, Philippines
- **PT Wijaya Karya (Persero) Tbk** – Integrated High-speed Rail & Station Jakarta – Bandung, Jakarta - Bandung, Indonesia

## Roads and Highways

- **AFRY** – New Test Track for Autonomous and Electrified Vehicles, Södertälje, Stockholm Area, Sweden
- **Beca Ltd.** – Takitimu North Link, Tauranga, Western Bay of Plenty, New Zealand
- **Foth Infrastructure & Environment, LLC** – City of Perry Innovates with Foth Creating a Digitally Mapped City Using Digital Twins, Perry, Iowa, United States

## Structural Engineering

- **Delhi Metro Rail Corporation Limited** – Design & Construction of Tunnel and Underground Station at Krishna Park of Delhi MRTS, New Delhi, India
- **Sinotech Engineering Consultants, Ltd.** – TPC Changhua Offshore Wind Farm Phase 2 Project, Changhua County, Taiwan
- **WSP** – Unity Place Delivered with Optimized Design by WSP Using Innovations from Bentley, Milton Keynes, Buckinghamshire, United Kingdom

## Surveying and Monitoring

- **Aegea** – Brazil's Largest 3D Sanitation Map (Digitalization of Rio de Janeiro), Rio de Janeiro, Brazil
- **HDR** – Murray Dam Condition Assessment, San Diego County, Calif., United States

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- **Singapore Land Authority** – SG Digital Twin Empowered by Mobile Mapping, Singapore

Water and Wastewater

- **Jacobs** – Tuas Water Reclamation Plant (TWRP) for PUB, Singapore’s National Water Agency, Singapore
- **L&T Construction** – Utility Development and Management for Nadaprabhu Kempegowda Layout (NPKL), Bangalore, Karnataka, India
- **MWH Treatment, as part of Advance Plus Framework JV with J Murphys & Sons** – Burnley WwTW Capital Investment Project, Burnley, United Kingdom

## ***Coreform is Rev-Sim’s Newest Sponsor***

19 September 2022

The global simulation industry collaboration and technology alliance *Revolution in Simulation* created to accelerate innovation through the democratization of engineering simulation, announces Coreform, LLC as its newest participating sponsor and collaborator.

Coreform software leverages its unique combination of isogeometric analysis, Flex IGA modeling and advanced hex meshing to accelerate the product development process by allowing engineers to predict real-world behavior with higher accuracy and faster model preparation than traditional finite element analysis. Coreform minimizes the time spent on model preparation while maximizing control over quality solutions. Coreform IGA is a revolutionary new solver for non-linear transient dynamics based on isogeometric analysis (IGA) technology that does not require geometry to be defeatured or approximated by a mesh.

“For decades, engineering simulation has been done on approximations of design models that takes weeks to build for a model that isn’t an accurate representation of what will be manufactured,” explained Coreform, CEO, Matt Sederberg. “What we’ve done at Coreform is to develop a way to run a simulation on the exact data that will be manufactured, yielding much more accurate predictions of how the product will behave in real life. We are excited to participate to the *Revolution in Simulation* initiative to help move the use of simulation forward.”

Rev-Sim Director of Partnerships, Mike Nieburg said, “The demand for broader simulation usage is exploding and each of our sponsors are working to advance and expand the use and value of engineering simulation software by innovating within their market spaces. We are excited to have Coreform join us demonstrating their revolutionary thought-leadership and technology in a collaborative alliance that benefits all industrial users of engineering simulation.”

Coreform adds its name to a steadily increasing list of participating sponsors that now includes Ansys, Aras, BETA CAE, Cadence, Corvid, Dassault SolidWorks, EASA, ESRD, Front End Analytics, Future Facilities, Hexagon/MSC, Kinetic Vision, Maya HTT, NAFEMS, nTopology, Ohio Supercomputer Center, OnScale, PASS Suite, PTC, Siemens, SimScale, UberCloud, and VCollab.

## ***DELTEK ANNOUNCES ITS NEWEST PARTNER PROGRAM – DELTEK PRO™ BOOKKEEPERS – TO HELP SMALL BUSINESSES FIND BOOKKEEPING PROFESSIONALS WITH INDUSTRY AND DELTEK SOLUTION EXPERTISE***

21 September 2022

Deltek, the leading global provider of software and solutions for project-based businesses, has introduced a new partner program – Deltek Pro Bookkeepers – designed to make it easier for small

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businesses to find trusted accounting professionals experienced in their firm's needs, who also have expert knowledge of Deltek solutions. Initially launched for small government contractors, Deltek Pro Bookkeepers helps businesses maximize the value of Deltek Costpoint by managing back-office operations faster, more accurately, more cost effectively and within compliance.

Deltek identified the additional challenges and needs of its small business customers – unlike midsized and large enterprises, a small business's accounting is typically managed by a small staff with limited resources. The Deltek Pro Bookkeepers partner program helps solve that issue by connecting Deltek Costpoint customers with expert bookkeepers in their industry.

“When a smaller firm is ready to graduate from QuickBooks® or similar generic accounting systems to a purpose-built ERP solution like Deltek, the firm may need support running their back-office functions. With Deltek Pro Bookkeepers, Deltek is helping small businesses connect the advisors that know our solutions the best, so customers will get experienced support from experts in their industry who are also experts in their ERP and accounting solutions. Firms will not only accelerate the time to value with their Deltek solution, but also meet their business goals faster,” said Pete Mann, SVP of Corporate Development & Product Alliances at Deltek. “Deltek Pro Bookkeepers will be a game changer for small businesses using Costpoint.”

Deltek Pro Bookkeepers are trained professionals that not only understand Deltek solutions, but also understand small businesses and meeting the needs of the government contracting industry. Deltek Partners Premier Consulting & Integration (PCI), Redstone Government Consulting and CRI are currently participating in the Deltek Pro Bookkeepers program, with additional Deltek Pros anticipated to join in the coming months and years.

Firms that take advantage of the services offered through Deltek Pro Bookkeepers will get access to services including journal entry, time & expense processing, accounts payable, month-end close, reporting, and more. While Deltek Pro Bookkeepers has launched for Costpoint customers, more Deltek Pros™ services for other Deltek solutions are planned to launch in 2023.

## ***Hewlett Packard Enterprise names Regina E. Dugan, technology leader and former DARPA director, to Board of Directors***

22 September 2022

Hewlett Packard Enterprise announced that Regina E. Dugan, president and CEO of Wellcome Leap, a U.S. non-profit organization that accelerates discovery and innovation for the benefit of human health, has been appointed to HPE's Board of Directors, effective today. Dugan will also serve as a member of the Board's Technology Committee.

Dugan, a former director of the U.S. Defense Advanced Research Projects Agency (DARPA), brings to the Board extensive experience in developing innovative technology. She has led efforts to deliver breakthrough solutions during her career, working in the public and private sectors, including for technology companies such as Facebook (now Meta), Google, and Motorola.

“Regina is an impressive technologist who oversaw the innovation engine for U.S. national security before turning to product development at leading technology companies,” said Patricia Russo, chair of the Board of Directors, Hewlett Packard Enterprise. “Our Board and our company will benefit from her developer mindset and deep engineering experience in increasingly important technology disciplines such as cybersecurity, cloud, and artificial intelligence.”

Dugan is a globally recognized executive and technology developer with nearly 30 years of experience. She became CEO of Wellcome Leap in 2020 to build the first-ever global version of DARPA to address

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the global challenges we face, starting with human health. Wellcome Leap builds and funds bold, unconventional programs that aim to increase the number and speed of breakthroughs in human health.

Dugan was previously Vice President of Engineering at Facebook (prior to it becoming Meta), a Vice President of Engineering, Advanced Technology and Products at Google, as well as a Senior Vice President of Advanced Technology and Projects for Motorola. She was the director of DARPA from 2009 to 2012, and was the first woman to lead the agency.

“Regina will be an asset to HPE as we accelerate the next-generation innovations that position our customers for the future and help us transform to be the edge-to-cloud company,” said Antonio Neri, president and CEO of Hewlett Packard Enterprise. “Regina’s emerging technologies experience will enhance our ability to deliver relevant solutions to our customers, allowing us to innovate even more advanced ways to unlock the value in their data.”

“Edge-to-cloud architectures are essential to competitiveness for so many companies, and HPE’s products and services are laser-focused on this future,” Dugan said. “It’s an exciting time to join the Board.”

Dugan previously served as a board director for Zynga, Inc., Varian Medical Systems, Inc, and Cruise LLC, a privately held company.

## ***Hexagon's R-evolution launches venture capital arm to boost green-tech startups***

22 September 2022

Hexagon AB, a global leader in digital reality solutions combining sensor, software and autonomous technologies, today announced a new venture capital arm of R-evolution, the sustainable innovation and green-tech investment subsidiary of Hexagon.

Today’s climate emergencies demand urgent investments in innovative, planet-saving initiatives. It is up to all industries to decisively address the crisis while supporting economic growth and green-tech startups are a critical part of the solution. The R-ventures programme aims to help the green-tech startup ecosystem accelerate its next breakthroughs through seed funding or in-kind technology from Hexagon's portfolio.

Material Mapper, a Norwegian-based company, marked the programme's inaugural investment, targeting the transition to a circular economy in the buildings sector. Material Mapper focuses on digitalising construction sites for reusable materials – ultimately connecting decommissioning projects to new construction to increase building material reusability.

While R-evolution’s search for promising investment opportunities is closely aligned to its focus areas – renewable energy and storage, green hydrogen, carbon capture, plastic waste management, desalination, plant-based food, ecological monitoring, sustainable agriculture and circular economy transitions — the company welcomes all entrepreneurs with disruptive innovations to demonstrate their positive planet impact and rapid growth potential for consideration.

“Hexagon envisions 2050 to be 'the year of too late.' We started R-evolution in early 2021 to help industry transition to a sustainable global economy faster,” says Hexagon President and CEO **Ola Rollén**. “In just over a year, R-evolution has proven it’s possible to positively impact the environment while generating profitable business growth. It’s now calling on entrepreneurs to tackle climate emergencies together. The direct investments in targeted green-tech start-ups will further ignite its ability to motivate rapid change profitably while giving back to the planet.”

Considerations for R-ventures monetary investments or in-kind technology require green-tech startups to

be in the pre-IPO funding stage, with an identified product and initial customer base. Seed investments typically range between 50k to 500k EUR.

## ***iPoint participates in industrial research project Gabriela***

21 September 2022

We are pleased to announce that iPoint-system gmbh is project partner of the industrial research project *Gabriela* (Holistic processing of plastic recycling paths for resource efficient and recyclable lightweight battery cases) coordinated by APK AG.

With the kick-off meeting on August 30, 2022 at the project coordinator APK AG in Merseburg, the first extensive consortium meeting of the project "Holistic processing of plastic recycling paths for resource-efficient and recyclable lightweight battery housings" (*Gabriela*) after the project start was successfully conducted. Important topics such as the material and process routes were discussed, initial findings from preliminary tests were shared, and the next steps were defined.

The project is motivated by the EU's Green Deal strategy, which aims to achieve climate neutrality by 2050. An important contribution in the implementation is to be made by the recycling of plastics with a forced high use of plastic recyclates in new products. Functionally integrated lightweight construction with a high proportion of polymer-based materials already plays a central role in CO<sub>2</sub> savings in the mobility sector. The use of recyclates in lightweight structures can again significantly expand these savings potentials by reducing the use of primary raw materials and the associated emissions.

However, the use of composite materials such as fiber-reinforced thermoplastics in structurally relevant lightweight components has so far given rise to major reservations regarding their recycling potential. In particular, the mechanical recycling currently used does not succeed in separating the composites from one another. It is not certain whether the shredded material is directly suitable for use as a recyclate or whether the material composite must be completely dissolved. Therefore, it is necessary to develop and present complementary strategies for the use of recyclate and the recycling of thermoplastic-based lightweight components in the mobility sector.

In the *Gabriela* joint project, the recyclability of pentatonic high-voltage battery housings from the automotive supplier Kautex Textron is being investigated. Plastic recyclate percentages of up to 100% are being evaluated. Among other things, the new adaptive recycling technology Newcycling® from APK AG will be used, which enables a high recyclate quality. In the project, the complete life cycle of a fiber-reinforced plastic battery housing will be investigated, from material production to initial processing, aging in use, and reprocessing to reuse in the same component. In order to best exploit the potential of the novel recycling paths, industrial partners from all plant creation stages and three universities are participating in the project. iPoint, as a specialist in product compliance and sustainability, will use its expertise to conduct the life cycle assessment as an important component of the project. This will enable all relevant data to be collected and evaluated over the entire product life cycle of the fiber-reinforced plastic battery housing and its environmental impact to be analyzed. The cooperation with the research network "Platform FOREL" enables the participating researchers to network across industries and offers optimal scientific as well as economic exploitation opportunities.

The *Gabriela* research and development project is being funded for three years by the German Federal Ministry of Economics and Climate Protection (BMWK) as part of the Technology Transfer Program for Lightweight Construction (TTP LB) and is being supervised by Project Management Jülich (PTJ).

## ***Software République adds six more start-ups to its incubator and announces a new project to develop an app to estimate driver drowsiness***

19 September 2022

Software République, an open innovation ecosystem for intelligent, secure and sustainable mobility, founded by Atos, Dassault Systèmes, Orange, Renault Group, STMicroelectronics and Thales, announces that six new start-ups are to join its incubator, bringing the total to ten start-ups within its program.

Launched in March 2022, the tailor-made incubator program has a dual purpose: to accelerate joint projects with the selected start-ups and also to enhance the open innovation of the six founding companies.

Two of these start-ups are CORE for Tech, a deep tech company which measures and estimates drowsiness while driving, and Basemark, a software company offering development tools for the automotive industry. Both join as part of Software République's Bring Your Own Device (BYOD) project which aims to improve the driver and passenger experience by developing new features using the customer's own smartphone or tablet.

As part of the BYOD project, under the impulsion of its first customer Dacia, Software République is working with CORE for Tech to develop a unique feature to enrich Dacia's Media Control app. This new feature suggests when and where to take rest stops on the route, in order to help drivers plan their journey safely. Based on a unique-to-the-market algorithm coupled with camera-based technology, it takes into account the physiological conditions of the driver, the journey route and the trip conditions (weather, traffic, type of road).

Software République plans to further develop this feature and others within the BYOD project to offer innovative use cases for the automotive industry. These uses cases will be available to all vehicle manufacturers and fleet companies.

The two start-ups incubated as part of the BYOD project are:

### Basemark

Basemark offers tools for software defined vehicle development. The start-up is the developer of Rocksolid Core – the world's first automotive end-to-end operating system and platform covering all vehicle functions for software-defined vehicles. Applications authored with Rocksolid Core can run on multiple different underlying hardware.

### CORE for Tech

CORE for Tech enhances drivers' safety by delivering predictive fatigue and drowsiness intelligence. Its solution not only predicts drowsiness but does this in connection with the journey to be travelled.

The Software République incubator will integrate four other start-ups:

### CommuniThings

CommuniThings is a smart-parking company active in on-street guidance and parking control. Its IoT platform consists of ground sensor or camera detection, and a rich service portfolio for end-user guidance, and parking enforcement. A pioneer of electric-vehicle spot management, CommuniThings addresses EV spot reservation, payment, and spot usage optimization.

### Compredict

A German start-up that provides AI-enabled virtual sensors. This technology can replace and simulate existing hardware sensors in vehicles and enhance available vehicle data. The insights produced by virtual sensors enable predictive maintenance and new service opportunities for vehicle OEMs.

## Entropy

Entropy supports territories in optimizing shared mobility services. Its Artificial Intelligence model predicts the mobility needs of the population of today and tomorrow. It promotes a transport offer that is as close as possible to the needs of users in order to meet our societal and environmental challenges.

## Neovya

Neovya accelerates the transition to a smoother, safer and more sustainable mobility system by providing expert mapping, data analysis and simulation software solutions. Its flagship solution is Neovya Hubsim, a collaborative web platform that allows territorial actors to understand the issues, test projects endlessly and make informed decisions.

## ***Touchplan and Sysnovate form Marketing Collaboration***

20 September 2022

Touchplan, an award-winning collaborative construction planning solution, announced a partnership with Sysnovate Solutions to promote Touchplan's technology to owners, contractors, and specialty trade companies in Malaysia.

"We are excited to partner with Sysnovate Solutions as part of our effort to expand Touchplan globally and provide construction firms with the resources to improve operations, drive profitability, and mitigate risk on their projects," said Touchplan Chief Revenue officer Jimmy Suppelsa. "Sysnovate's commitment to providing clients with the best professional advice and services aligns with Touchplan's focus on improving customer project certainty and enhancing alignment with stakeholders working in the field."

"At Sysnovate, we emphasize three core pillars: people, process, and technology," said Laxana Naidu, Principal Consultant and Owner at Sysnovate Solutions. "Touchplan is a fantastic addition to our client services as we focus on delivering integrated management systems and lean-agile solutions that create value, eliminate waste, and improve their business performance."

## ***Trimble Ventures Invests in Civ Robotics—A Construction Tech Startup Focused on Autonomous Surveying Solutions***

21 September 2022

Trimble Ventures, Trimble's corporate venture capital fund, announced its investment in Civ Robotics, a San Francisco-based construction tech startup focusing on transforming surveying layout for civil engineering and infrastructure projects. This investment supports Trimble Ventures' mission to invest in early and growth-stage companies that are accelerating innovation, digital transformation and sustainability in the industries Trimble serves—such as agriculture, construction, geospatial and transportation. The investment terms were not disclosed.

The construction industry faces a variety of challenges including shortage of skilled workers, safety and productivity. Civ Robotics addresses these challenges with CivDot, a new autonomous surveying solution that empowers efficiency, productivity and safety on the job. CivDot is an unmanned ground vehicle (UGV) designed for civil engineering and infrastructure projects such as solar farms, roadways, data centers, power plants and more. Augmenting the surveyors work, CivDot marks thousands of coordinates per day precisely and efficiently, while delivering layouts faster than traditional methods.

"We are focused on investing in companies that are seeking to address important challenges in markets that align with Trimble's mission of transforming the way the world works. CivRobotics technology supports surveyors and field workers and helps remove the burden of repetitive and risky work," said

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Aviad Almagor, vice president, technology innovation at Trimble and technology advisor for Trimble Ventures. “Civ Robotics uses Trimble’s high-precision GNSS positioning technology and surveying software to improve productivity and increase safety. This is an exciting opportunity to help accelerate innovation in autonomy, surveying and construction.”

“Trimble and our vision are in lockstep towards construction automation with a sharp focus on the highest standards of safety and quality,” said Tom Yeshurun, co-founder and CEO, Civ Robotics, which announced its \$5 million seed funding round this morning. “Through Trimble’s latest GNSS technology in our autonomous surveying products, our customers can benefit from an end-to-end workflow.”

Civ Robotics will be showcased during the Trimble Dimensions+ User Conference held November 7-9 in Las Vegas.

## ***Wipro Appoints Dhruv Anand as Country Head & Managing Director for Japan***

20 September 2022

Wipro Limited, a leading technology services and consulting company, announced the appointment of **Dhruv Anand as Country Head & Managing Director for operations in Japan.**

Dhruv will lead Wipro’s business expansion in Japan and will also partner with clients to help them achieve their growth ambitions by leveraging Wipro’s capabilities across the go-to-market themes of Experience, Data, Analytics & Insights, Engineering Edge, FullStride Cloud Services, Cybersecurity, Core Business Transformation, and Managed Services.

Dhruv has over 20 years of experience in the IT industry, specializing in consulting, digital engineering, IoT, and emerging technologies across Japan’s automotive, manufacturing, and hi-tech sectors. The formative years of Dhruv’s career were shaped at Wipro, post which he moved to Tata Consultancy Services (TCS), where he held various leadership roles in sales, delivery, and account management for Japanese customers and their global operations. In his most recent role at TCS, Dhruv led the Manufacturing and Hi-Tech vertical with a focus on the Japanese automotive industry and ecosystem suppliers.

“I am confident that Dhruv’s track record and credentials with Japanese Automotive and Manufacturing clients will be a strong asset for Wipro’s growth in these strategic focus sectors. This, coupled with his passion and deep understanding of the Japanese culture, language, and ways of working, positions him strongly to lead our business in Japan,” said **Anis Chenchah, member of the Wipro Executive Board and Chief Executive Officer, APMEA (Asia Pacific, Middle East, and Africa), Wipro Limited.**

“I am humbled with the opportunity to lead Wipro in a country I am very passionate about and have spent 20 years living in. Wipro’s vision is synergistic, and I look forward to the journey while striving to be more relevant to our customers and our employees,” said Dhruv Anand.

Dhruv holds a bachelor’s degree in Electronics and Telecommunication from Pune Institute of Computer Technology, India, and an MBA in Marketing and Finance from Symbiosis Institute of Management Studies, India. He remains closely associated with the Linux Kernel community where he spent his early professional years in open-source software development.

## ***Wipro, Finastra partner to power digital transformation for corporate banks in India***

20 September 2022

Wipro Limited, a leading technology services and consulting company, and Finastra, a global provider of financial software applications and marketplaces, announced a partnership in India to help corporate

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banks accelerate digital transformation by deploying Finastra's leading solutions.

This partnership combines Wipro's expertise across consulting, digital, infrastructure and operations with Finastra's cutting-edge solutions to deliver modern API enabled platforms for banks to innovate, streamline and digitize core trade finance processes, while reducing cost overheads.

This multi-year partnership makes Wipro the exclusive implementation and go-to-market partner for all banks in India for Finastra's Fusion Trade Innovation and Fusion Corporate Channels. Wipro is also one of Finastra's preferred global partners for its Cash and Liquidity Management solutions.

**Satya Easwaran, Country Head – India, Wipro Limited**, said, "Corporate banks in India are increasingly looking at moving from the traditional manual and offline model to real-time execution, online platforms, and value-added services. With our exclusive partnership with Finastra, we can help our banking clients transform into truly digital platform players in trade and supply chain finance, with the ability to anticipate end-customer needs and respond in a much more agile and flexible manner. We are excited to bring together Wipro's deep domain expertise in Banking with Finastra's leading product suite."

**Manish Joshi, Managing Director, Lending, APMEA, Finastra**, said, "Wipro's diverse service portfolio and deep experience working with clients in India makes them an ideal partner for Finastra. India is a key growth market for Finastra and working together with Wipro will enable us to rapidly extend our reach in the country, enabling our solutions to help even more organizations realize the benefits of digital transformation."

**Edward Sweigart, Vice President, Global Partner Ecosystem, Finastra**, said, "Wipro has long been a key global partner for Finastra, with significant and broad experience built in that time. Banks and financial institutions will now be able to leverage the combination of this experience and Finastra's leading solutions, which will help them to transform, grow, and better serve their customers."

**Harpreet Arora, Global BFSI Domain & Solutions Head, Wipro Limited**, said, "The strengthening and expansion of our partnership with Finastra is fundamental to driving the digital transformation agenda for corporate banks and financial services companies in India. Wipro's acquisition of Encore Theme Technologies, a specialist in implementing Finastra's trade finance solutions, continues to augment our deep and differentiated capabilities, and this partnership will solidify our presence across Asia Pacific further."

Wipro has several decades of strong presence and credibility in the India market. India is one of the six focus regions that comprise Wipro's APMEA (Asia Pacific, Middle East, India and Africa) Strategic Market Unit. In line with the ambition to drive sustainable business growth and deliver higher value to clients in this region, Wipro continues to strengthen its consulting capabilities, while focusing on innovation, talent and ecosystem partnerships to offer experience-led transformation. Wipro is also well known for its sustainability and social good initiatives in India through the Wipro Foundation. Wipro has been recognised by Great Place to Work® India as one of India's Best Companies to Work For 2022 – Top 100.

## ***ZWSOFT Partners with G2 and Girls Who Code in Helping Close the Gender Gap in Tech***

16 September 2022

Tech jobs are among the fastest-growing fields in today's world, but too many girls are being left behind and the gender gap in computing is getting worse. In 1995, 37% of computer scientists were women, and it has declined continuously to 24% in 2017. If the trend continues, it will be down to 22% in 2022.

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That is something Girls Who Code is determined to change.

Founded in 2012, Girls Who Code is a nonprofit global organization with a mission to close the gender gap in technology and to change the image of what a programmer looks like and does.

Among their goals, one is to build the world's largest pipeline of future female engineers. This group is doing this in three ways. First, they set up clubs for 3rd-12th grade students to explore coding in a fun and friendly environment. Second, they offer free summer programs to teach high school students how to code and provide exposure to tech jobs. Lastly, they are not just preparing girls to enter the workforce, but also preparing them to lead it. So they also provide college programs to help their alumni succeed and build a community of peer and mentor support.

Since 2012, Girls Who Code has served 500,000 girls, women and nonbinary individuals across the country and around the world. Half of the girls they served come from historically underrepresented groups. Their alumni are choosing to major in computer science, or related fields, at a rate 7 times the national average. According to their research, by 2023, Girls Who Code can close the gender gap in new entry-level tech jobs.

You can also do a part in helping these girls.

ZWSOFT has partnered with G2.com, a trustable customer review website for software, in helping Girls Who Code to raise money to help close the gender gap in technology.

For each review about ZWCAD, G2 is donating \$10 in funds to assist Girls Who Code in helping young women (many from historically underrepresented communities) build the skills and resilience they'll need to develop solid futures in the tech industry.

## Event News

### ***IMAGINiT Technologies Exhibits and Presents at Autodesk University 2022***

20 September 2022

IMAGINiT Technologies' experts will lead three classes as well as showcase their latest software and eLearning innovations at Autodesk University (AU), September 27 – 29 2022, in New Orleans, LA. Key members of IMAGINiT's software development, eLearning and technical support teams will be available at booth #CON345 to showcase the newest features of IMAGINiT Clarity and the ProductivityNOW eLearning and support offering.

“Having highly productive employees is a key driver in successful organizations,” says Bill Zavadil, president and chief operating officer, IMAGINiT Technologies. “At AU, we will showcase solutions that increase the productivity of your design team. Clarity, our time saving task automation and analytics tool has saved organizations over 2 million hours on their Revit design projects by allowing design teams to focus on design work instead of repetitive and redundant tasks. ProductivityNOW, our powerful eLearning and Support tool, allows organizations to assess the skills of their design employees while also recommending learning paths to improve their skills. ProductivityNOW is an essential ingredient in creating teams who work smarter and perform more efficiently.”

#### **IMAGINiT Expert Led Classes at AU**

Three design engineering experts from IMAGINiT's manufacturing and architecture, engineering and construction (AEC) divisions are speaking at AU.

- **Design, Develop, Deploy: Create Revit Content from Inventor Designs, September 28, 8:00AM CDT:** Mark Flayer, engagement engineer, will focus on the dynamics and logistics

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between AIA CES Inventor and Revit software. Specifically, Mark will cover exporting assemblies and parts for mechanical, electrical and plumbing connections directly into Revit.

- **Thinking Outside the Box with Autodesk Fusion 360 Manage, September 27, 4:30PM CDT:** Dr. Scott Hoover, Ph.D., a solutions consultant and Autodesk certified Fusion Manage implementer, will highlight how the capabilities of the software can be put to work to manage a wide variety of business processes. Dr. Hoover will review case studies including the ROI customers achieved with outside-the-box workflows.
- **Make Your Architectural Mode Shine from Revit to 3ds Max, September 28, 4:30PM CDT:** Veredith Keller, a senior education specialist and experienced BIM modeling expert, will cover modeling in Revit software and producing high-end renderings in 3ds Max software. She will highlight various ways of linking the Revit architectural model into 3ds Max to achieve the required results.

## **Engage with IMAGINiT Experts at Booth #CON345**

IMAGINiT's director of software development, Matt Mason and his team of developers will be conducting software demonstrations highlighting the most recent updates to IMAGINiT Clarity. These include Clarity's new Space Programming Module designed for architectural firms and the recently introduced Clarity Cloud which is designed for organizations looking for a fully hosted BIM automation platform.

Kevin Kuker, vice president training and support services, Todd Stuart manager, ProductivityNOW solutions, and Rob Wiederman, manager, technical support, will also be available at the IMAGINiT booth talking about how training and dedicated support services are crucial components in the hiring, onboarding and retention of top talent. With content for Autodesk, CATIA, Creo and SolidWorks you won't want to miss live demonstrations highlighting the latest Autodesk 2023 training content available, KnowledgeSmart assessments that assess the skills of your team, manager level insights and reporting dashboards, and how managers or users can assign and create individual learning paths.

## **IMAGINiT Experts Will Be On-Hand in Several other Locations During AU**

IMAGINiT's vice president of government and utilities, Dennis Helmick, will be in the DLT booth #INF201 Tuesday, September 27 from 5:30 – 8:00 pm discussing how IMAGINiT helps Government agencies and Utilities leverage technology to digitally transform their operations. There he will highlight IMAGINiT capabilities around reality capture, utility and substation grid modernization, wastewater and civil infrastructure project design, facilities management, and data management.

And, at the Epic Games booth #AE400, IMAGINiT reality capture application expert James Branagan, will deliver 2 presentations. "Explore the Ecosystem with Capturing Reality and Unreal Engine" will take a dive into photogrammetry and LIDAR scans and how they integrate with the Epic tools. This session will be held at 6:30 pm on Tuesday, September 27. James will lead a second session entitled "Leveraging the Power of Unreal Engine for VR and AR in AEC" on Wednesday, September 28 at 6:30 pm.

## ***Join us to the 2022 BETA CAE Systems North America Open Meeting***

22 September 2022

BETA CAE Systems, the leading contemporary industry supplier of simulation solutions, has the pleasure to invite you to the 2022 North America Open Meeting. Our event will take place on October 5th, 2022 in Topgolf, Auburn Hills, MI, USA.

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This year, we are excited to host as guest speakers Mr. Raghunath Katragadda from Amazon Lab 126, and Ms. Kelly Trost from Ford Motor Company. The event's agenda is further enriched with presentations from additional respected partners/customers from the industry.

Keeping loyal to the tradition of the Open Meetings, technical discussions and demonstrations will also feature in the agenda. These presentations and demonstrations will offer you the opportunity to discuss with our engineers the software features, their application, as well as the future developments. A team of CAE experts from BETA CAE Systems will be pleased to meet you in person and exchange knowledge, experience and visions.

Don't miss the opportunity and register today. Registration will be open until September 30th.

There is no participation fee for the event.

The attire will be business casual.

The event is hosted by BETA CAE Systems USA.

[\*\*REGISTER NOW\*\*](#)

## ***OpenText World 2022 set to Deliver the Ultimate Information Management Experience***

22 September 2022

OpenText™ announced the programming highlights for the world's largest information management conference, OpenText World 2022, being offered in-person and virtually. [Registration is now open](#) for the three-day interactive event being hosted live from The Venetian Hotel Resort Las Vegas from October 4–6.

OpenText World 2022 brings together the brightest minds in information management, leading technology experts, exciting guest speakers, industry professionals, and strategic partners to showcase how information is driving change. Keynote highlights include OpenText CEO & CTO Mark J. Barrenechea, EVP and Chief Product Officer Muhi Majzoub, and Alex Honnold, the first person to free-solo climb El Capitan and founder of the Honnold Foundation, who will set the stage for three days of inspiring insights and endless learning.

“Today more than ever, companies are utilizing new digital capabilities to succeed in a world of hybrid work, modern supply chains, integrated machines, information security, and sustainability and ESG pledges,” said Mark J. Barrenechea, OpenText CEO & CTO. “OpenText continues to open the door and lead the conversation surrounding the information advantage and how it can be used to expand, disrupt, and transform any industry – OpenText World 2022 is the perfect place to continue that journey.”

In his keynote, OpenText CEO & CTO Mark J. Barrenechea will explore the state of the industry across the globe, the future of information management, and the path to information advantage. He'll also make some exciting announcements surrounding OpenText Project Titanium, the future platform in the cloud. Alex Honnold, one of the world's most recognized rock climbers, will join Mark to discuss managing risks, problem solving, and the ability to focus in extreme situations. Lastly, Mark will be joined by two OpenText customers: Mike Savage, Vice President, Total Rewards and Human Resources Information Systems (HRIS) at ULTA Beauty and Denise Hemmert, Vice President, Enterprise Enablement Services at Cardinal Health.

OpenText EVP and Chief Product Officer Muhi Majzoub will showcase the newest OpenText innovations announced in Cloud Editions 22.4 as well as share the vision and timeline for Project Titanium and how the OpenText roadmap aligns to meet the future. As part of the Technology Innovation Keynote, Muhi will be joined on stage by Shyam Pitchaimuthu, Manager ESS, Document

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Management & Asset Lifecycle at Chevron.

Other conference highlights include:

- **Enfuse** at OTW 2022 where experts come together to discuss the evolution of digital blind spots and how they can be eliminated.
  - Three full days of content, over 50 sessions and nearly 40 speakers with tracks that include Digital Forensic and Incident Response (DFIR), Threat detection and response, Career Development, Digital Forensics, Cyber Resilience, Enterprise Investigations, and eDiscovery and Information Assurance.
  - Hear from Rachel Wilson, Head of Wealth Management Data Security & Infrastructure Risk at Morgan Stanley, as she discusses her career journey from the Dark Web to Wall Street.
- The **OpenText Developer Summit** will explore the latest OpenText Developer Cloud Application Programming Interface (API) services and tools through interactive, hands-on sessions.
- **Google Cloud** will be joining OpenText Executive Leaders on stage during OpenText World to discuss industry innovations.
- **Deloitte** is a valued OpenText GSI Partner and Top Tier Innovator sponsor for the OpenText World conference. Deloitte will be hosting in-person and virtual breakout sessions and much more.
- Customized track topics offering technical and business value deep dives into key subject areas tailored to customer communities.
- Industry and regional workshops and peer group forums that will dive deep into the market trends, challenges, and areas of strategic investment that matter most to organizations.
- Interactive labs will provide an opportunity to experience the latest OpenText innovations, complete training courses, and contribute to product roadmaps.

Registration is now open, and the full agenda for [OpenText World 2022](#) is now live. Join us and discover your information advantage.

## Financial News

### ***Accenture Reports Very Strong Fourth-Quarter and Full-Year Fiscal 2022 Results***

22 September 2022

Accenture reported financial results for the fourth quarter and full fiscal year ended Aug. 31, 2022.

Click to download [Q4 FY22](#) and [Full FY22](#) earnings infographics.

### ***Accenture to Host Conference Call Tomorrow, Sept. 22, to Discuss Fourth-Quarter and Fiscal Year 2022 Results***

21 September 2022

Accenture will host a conference call at 8:00 a.m. EDT tomorrow, Sept. 22, to discuss its fourth-quarter and fiscal year 2022 financial results. A news release containing these results will be issued before the call.

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To participate, please dial +1 (877) 692-8955 [+1 (234) 720-6979 outside the United States, Puerto Rico and Canada] and enter access code 9024690 approximately 15 minutes before the scheduled start of the call. The conference call will also be accessible live on the Investor Relations section of the Accenture website at [accenture.com](https://www.accenture.com).

A replay of the conference call will be available at [accenture.com](https://www.accenture.com) beginning at 11:00 a.m. EDT on Thursday, Sept. 22, 2022. The replay will also be available via telephone by dialing +1 (866) 207-1041 [+1 (402) 970-0847 outside the United States, Puerto Rico and Canada] and entering access code 4002764 from 11:00 a.m. EDT Thursday, Sept. 22 through 12:00 a.m. EST on Friday, Dec. 16, 2022.

## Implementation Investments

### ***AECOM and Ferrovial Vertiports advance zero-carbon vertiport infrastructure in Florida through site selection framework***

20 September 2022

AECOM, the world's trusted infrastructure consulting firm, and Ferrovial Vertiports, a subsidiary of leading global infrastructure operator Ferrovial, announced the implementation of a due-diligence framework to identify optimal sites for a planned vertiport network connecting strategic locations in Florida. This framework is expected to play a key role in the transformation of air mobility with electric vertical takeoff and landing aircraft (eVTOLs), providing a zero-carbon, high-speed, and affordable transportation network that will help enable the future of intra-urban and regional air travel in the area.

"AECOM is pleased to continue our partnership with Ferrovial, delivering services to help support its vision for the future of air mobility in Florida," said Dan Faust, chief executive of AECOM's U.S. East and Latin America region. "Our multidisciplinary teams are excited to offer comprehensive solutions to help transportation innovators such as Ferrovial advance new eVTOL technology efficiently and safely. We look forward to quickly and systematically performing site due diligence and airspace analysis that will help transform how we travel for generations to come."

The announcement further solidifies the partnership between Ferrovial and AECOM to collaborate on the planned Florida vertiports, which are essential infrastructure for the safe takeoff, landing, and recharging of eVTOLs. The joint framework will help improve the efficiency and effectiveness of site selection through the identification, ranking, and elimination of sites based on construction, operational, and community criteria. The protocols consider air space, soil conditions, weather patterns, utility sources, intermodal transportation connections, first- and last-mile links for passengers, expected volume of eVTOL service, current and future eVTOL types and uses, and community priorities related to noise, safety, and sustainability.

"Our vision is that the Ferrovial vertiport locations designed by AECOM will provide an industry-leading, user-friendly, and convenient experience for passengers and eVTOL operators," said Kevin Cox, chief executive officer of Ferrovial Vertiports. "Given the importance of site selection in making this possible, our joint protocols will help identify optimal vertiport placement for operators, local officials, and the surrounding communities into which vertiports will seamlessly integrate. The protocols will not only help us design the most effective network in Florida but will be applied to our vertiports globally."

The Ferrovial- and AECOM-designed vertiport infrastructure will help enable the alternative transportation system in Florida through an enjoyable, affordable, and sustainable experience that takes advantage of sunlight, natural elements, and green building practices to minimize environmental

impacts. In addition, noise abatement materials and surfaces are key features of the airfield design to further reduce the low-noise emissions from the eVTOL jets.

Ferrovial Vertiports continues to work with eVTOL operators, local officials, and the real estate community to develop its Florida vertiport network for expected service launches in the 2024 to 2025 timeframe. In addition to Florida, Ferrovial Vertiports has plans to operate zero-carbon air transport infrastructure to enhance local and regional connectivity for multiple cities across the United States and Europe.

## ***Atos supports European Space Agency's Vega-C rocket***

21 September 2022

**Atos announces that it is supporting the European Space Agency (ESA) in its planned improvements for Vega-C, the new single body rocket, whose inaugural launch took place on July 13, 2022. Atos contributes to this program by providing key testing equipment for the main launcher and is also providing testing equipment for the “Space Rider” reusable spacecraft which will be launched on Vega-C, enlarging versatility and space transportation capabilities of this new European launch system.**

Vega-C is a new generation rocket, more powerful and flexible than its predecessors and with more capacity to carry satellites and nanosatellites. It supports Europe's global competitiveness by enabling key space missions which meet the needs of local institutions and industry.

Atos is part of the team that **develops a test facility** for the Vega-C rocket in the frame of the launcher's Competitiveness Improvement Activities. The Atos team of space experts based in the Czech Republic supplies a system called "Vega Navigation Ground Support Equipment", specifically designed to test the launcher's new Inertial Reference Unit. In addition, the Atos experts based in Romania are **contributing to the “Space Rider” spacecraft**, which will be launched on top of Vega-C and which will be put into orbit for about 2 months before coming back to Earth. This uncrewed robotic laboratory will be Europe's first reusable space transportation system.

More specifically, the Atos team is implementing the Electrical Ground Support Equipment which supports integration and validation for various sub systems of “Space Rider”. This equipment includes a Central Checkout System, Special Checkout Equipment for Power, Radio Frequency, Telemetry & Telecommands, an Umbilical Validation Tool, a Solar Array Simulator, as well as many other simulators for various other sub-systems.

*“We are proud to offer best-in-class technology – including satellite testing, satellite monitoring and space data analytics – for a wide range of space missions for European, national, defense and commercial customers. It is with great emotion that we watched the inaugural launch of Vega-C, which is an ambitious program and a very good example of successful European cooperation in space!”* said **Bruno Milard, VP, Head of Business Unit Aerospace & Defense Electronics, Atos.**

Romania is a key contributor to the Vega-C program. Romanian experts from various organizations have performed aerodynamic and acoustic tests, verifications, and validations of the Vega-C navigation system, as well as the integration and validation of systems for the Space Rider spacecraft flying with Vega-C.

*“Romania's participation in the ESA launcher program and particularly in Vega-C, Ariane 6 and Space Rider represents a key investment in the future of the Romanian space field. We have opened the way for Romanian organizations to contribute to the realization of the newest European rockets and space vehicles. The collaboration with European integrators and European companies already established in*

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*the development of space vehicles has contributed to the development of critical capabilities in our country,” said Dr. Phys. Marius-Ioan Piso, President of the Romanian Space Agency (ROSA).*

Atos in Romania is a key competency center for Atos’ global solutions for space. Local teams have extensive experience in the fields of Electrical Ground Support Equipment, Mission Control Systems, Ground Stations and Federated Identity Management.

## ***Coflex, Leading Plumbing Manufacturing Company in Mexico, Selects Infor WMS to Boost Competitiveness***

20 September 2022

Infor®, the industry cloud company, today announced that Coflex, a leading plumbing manufacturer in Mexico, has selected Infor WMS warehouse management system to enhance inventory control, optimize resources, elevate service, process Information in real time, improve decision making and boost productivity.

The solution was sold and implemented by Cerca Technology, a key Infor partner in Latin America, now strengthening its presence in Mexico.

“We are focusing on the excellence of our productivity and operational processes. Implementing Infor WMS will be a technological improvement that will enable us to get more benefits for our customers while aligning our processes with organizational goals,” states Pedro Gonzalez, Coflex operations director.

Three main project characteristics are:

- Increase inventory accuracy, improve reference and location, and obtain comprehensive product tracking.
- Improve worker productivity with better practices to maximize warehouse space, manage logistical operations, and support company growth.
- Elevate customer service by shortening delivery time, increasing delivery accuracy, allowing visibility in real time, and filling customer new needs.

“The deep experience of the team formed by Coflex and Cerca Technology, combined with Infor WMS functionalities, will enable us to reach goals set for the growth of our company,” states Luis Diaz, sales manager Cerca Technology in Mexico.

“Optimizing warehouse efficiency and its capacity as well as setting better practices to enhance performance are crucial for companies such as Coflex. Infor WMS is the tool necessary to redefine operations and obtain needed productivity and efficiency,” concludes Adriana Gutierrez, Infor Latam channel director.

## ***Ernsting’s Family Chooses Centric Software’s Full PLM Team Support***

20 September 2022

Centric Software® is delighted to announce the release of a success story about its customer, Ernsting’s family.

Ernsting’s family was founded in 1967 by Kurt Ernsting in Coesfeld-Lette, Germany where the headquarters still are. It grew to become one of the largest cross-channel providers in the German textile retail sector. Ernsting’s family offers clothing, lingerie, accessories and home & lifestyle products for the whole family. They sport seven brands at affordable prices across 1,900+ stores across Germany and

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Austria and an online site.

After a successful Centric PLM™ implementation in 2017, Ernsting's family decided to take their partnership with Centric Software one step further. Ernsting's family enlisted Centric Application Management Services (CAMS), a structured approach personalized to the unique requirements of each company.

"We feel very strongly supported by the Centric CAMS support team. Any time we have an issue, we can get an answer immediately," says Jyrina Volmer, IT Coordinator for Product Development and Software Engineering Manager at Ernsting's family. "We have the support when we need it. It is the greatest benefit, I think!"

CAMS brings in consultancy and Centric PLM-configuration expertise as well as industry best-practices to the business, specific ways of working or other special needs, especially as the company (and processes or partners) evolves over time.

Since their PLM implementation and recent CAMS experience, Ernsting's has optimized processes, received industry best-practices support, been freed up to focus on product and business development, and seamlessly connected PLM to other programs and platforms.

## ***Higher Technology Drives Digital Intelligence Project with Centric PLM™***

22 September 2022

Higher Technology Co., Ltd. (Higher), a leading maker of car accessories, has selected Centric Software's Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Established in 1987, Higher is one of the largest automobile interior accessory manufacturers in China. Higher produces more than 1,300 items in five categories, and products are primarily sold in the United States, Canada, Europe, the Middle East and Australia. Higher's main product lines command a 30% market share in the United States.

Having grown rapidly in recent years, Higher decided to accelerate their digital capabilities and invest in Centric PLM to handle ever-expanding product lines and categories.

"Working with spreadsheets and traditional methods, we experienced issues such as wasted time, duplication of effort, and scattered and inconsistent business data," explains Ms. Xu Bin, Chairwoman of Higher. "With Centric PLM, Higher's design, development, business, technology, proofing, procurement and other teams will be able to collaborate more efficiently on a unified platform. We will build a complete product database to provide strong digital intelligence support for future product grouping, matching, production and customer selection decision-making."

"One of the key factors of Higher's success is that we embrace change and dare to innovate," she continues. "We were impressed by Centric's innovative spirit as well as their industry-leading insights and rich customer experience across the entire consumer goods industry. Centric PLM is flexible, scalable and can guide and inspire our team to empower product development and management innovation. This will enable us to maintain our leading position in the industry."

Higher's PLM project aims to enhance structured data management and collaboration, build a product knowledge base with historical data, visualize data during design and development stages to improve customer satisfaction and streamline workflows to optimize efficiency.

“We are honored to partner with Higher as they embark on the total digital transformation of their business,” says Chris Groves, President and CEO of Centric Software. “We are looking forward to working closely with Higher to build a collaborative digital intelligence and product data platform that will enable Higher to grow and expand even further in the future.”

## ***KeyBank Overhauls Consumer Lending with Oracle***

21 September 2022

KeyBank, one of the U.S.’s largest financial services companies, has modernized its non-real estate consumer lending process with Oracle. KeyBank provides deposit, lending, cash management, and investment services to individuals and businesses in 15 states through a network of 1,000 branches. With Oracle Banking Originations, the bank can now service loan accounts in real-time from the initial application through to payments and collections, helping eliminate delays, and improve customer service.

“At KeyBank, we understand you cannot ‘kick the can’ on modernizing legacy banking systems if you wish to remain competitive, foster innovation, and maintain operating costs,” said Kim Snipes, KeyBank’s, CIO of Consumer and Digital. “Financial institutions must implement modern, modular API-driven real-time systems. Oracle provided the foundation we needed to accelerate our digital transformation efforts across our consumer-facing digital channels and key enterprise operations. With Oracle, we were able to successfully move an active banking portfolio to a new system without interruptions to our customers.”

KeyBank has worked closely with Oracle since the launch of its consumer digital banking platform in 2017. Since then, it has expanded its digital servicing capabilities into originations using Oracle Banking technology, which provides the orchestration and modern underwriting workflow needed to support real-time decisioning for consumer deposit and credit card accounts. With that enhancement, KeyBank customers are now able to open a checking, savings, or credit card account in as little as five minutes. To bring this modern digital experience to more product areas, KeyBank recently expanded its use of Oracle to include its non-real estate loan servicing and collections.

KeyBank’s legacy non-real estate loan system was difficult to maintain and relied on manual processes, putting a strain on its back-end operations. After acquiring First Niagara Bank in 2015, KeyBank needed a way to bring together the two firms’ different loan servicing, collections, and recovery systems. To address that challenge, KeyBank and Oracle worked together to implement the Oracle Banking Originations and its supporting applications for non-real estate servicing and collections while addressing stringent US regulations.

KeyBank’s real-time loan servicing capabilities now provide complete, straight-through processing and integrated workflows that help reduce operating costs. Oracle’s modern user interface streamlines the back-office experience and the shift from batch processing to real-time data processing helps ensure the collections team is not contacting a customer who may have recently completed a payment.

“Oracle and KeyBank have a long history working together to evolve KeyBank’s technology to address their growing business needs,” said Sonny Singh, executive vice president and general manager, Oracle Financial Services. “KeyBank is a proven frontrunner in its commitment to transform its legacy systems into modern digital solutions delivering more self-service capabilities for its customers. Our new loan servicing solution operates in real-time and replaces the old way of offering and managing loans, such as outdated manual processes, with customized offers and instant, digital payments.”

In addition to originations, KeyBank has leveraged Oracle technology to launch new digital capabilities

in the wake of the pandemic and build its national digital bank tailored to physicians and dentists, Laurel Road for Doctors.

## ***Leading Colombian Automotive Distributor Fanalca Increases Productivity 40% with Infor WMS***

14 September 2022

Infor<sup>®</sup>, the industry cloud company, announced that Fanalca has increased its productivity by 40% with the implementation of Infor WMS warehouse management system. The software solution was sold and implemented by Cerca Technology, Infor's strategic partner in the distribution sector.

Fanalca's supply chain management is based in national and imported spare parts with three distribution centers in Colombia. Fanalca is experiencing significant growth with a 100% increase of revenue, so it was necessary to invest in processes and technology to reach its goal of 300% growth by 2025 and see what tools were necessary to help achieve this.

In 2018, Fanalca developed a strategic plan to face market challenges, and created a program called Link. The company decided to build a new distribution center with all the conditions required. It needed a system to track all transactions and optimize resources efficiently, so Fanalca selected Infor WMS.

Fanalca worked with Cerca Technology and its consulting team to implement Infor WMS with the goals to track all operations in the distribution center, access information in real time to increase productivity, and reduce operation lead time.

Luis Vera, operations leader at Fanalca, says the process has been successful and has taught them a lot about the business. He highlights three key issues for the success:

1. Implementation of a change management area, and selecting people with the skills needed for the project.
2. Cerca Technology's team of consultants with deep knowledge.
3. Experience of consultants in implementations in the distribution sector.

"Infor WMS is one of the most comprehensive solutions on the market, and it fulfilled all our distribution center needs, enabling us to design a logistical process that will help to increase productivity and control inventory. Go-live was a success and, by the second week, we were already seeing surprising results," Vera says.

"We know it usually takes time after implementations to see results, but the Infor WMS implementation flowed easily, with great results in a short time thanks to the team's know-how. Fanalca prepared thoroughly for this moment," says Juan David Osorio, demand planning leader at Fanalca.

Fanalca cites the following results thanks to Infor WMS:

- 40% productivity increase in the distribution center
- 99% inventory reliability
- Lead time decreased from 2 days to 1 day
- New process to generate cyclic tasks to optimize administration and inventory accuracy

"Strategic vision and planning led by Fanalca were fundamental for this success. This implementation shows that Infor WMS is a very comprehensive tool, prepared to support changing market needs," says Julián Lasso, Cerca Technology professional services manager.

According to Adriana Gutierrez, channel director for Infor in Latin America: "The goal of companies

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like Fanalca is to meet customers' needs, improving operations and decreasing costs; for this, digital transformation is key. By implementing Infor WMS in the cloud, all specific functionalities for the industry are included, enabling Fanalca to focus on new initiatives that strengthen continuous growth, making operations even more efficient.”

## ***MERSEN MES Pagny Go Live!***

20 September 2022

Inensia is pleased to announce its successful collaboration with **Mersen** on their first Manufacturing Execution System (MES Hydra – MPDV) deployment to support Mersen's industrial excellence for the coming years!

Based on a corporate MES core model previously implemented, tested, and tuned, Mersen and Inensia worked as an integrated team to implement a pilot on a first Mersen factory located in Pagny-sur-Moselle (Eastern France), considering local industrial specificities.

Since July 1<sup>st</sup>, 2022, hundreds of work orders generated by Mersen Corporate ERP are ingested daily in the Hydra MES. Local production managers are able to simulate and schedule shopfloor operations (short and distant horizon) by considering both machines and human resources availability as well materials and components inventory. Shopfloor workers are then guided step by step to perform all requested operations and have access to dynamic documentation coming from the PLM system. In the end, quality information & operation effectiveness are acquired in real time.

***“Agile spirit, lean attitude & mutual trust were key elements to deliver first step of this transformation program within the respect of original scheduled timeline”, stated Christian Genez, Project Manager on the Inensia side.***

We would like to warmly thank and congratulate the entire Mersen/MPDV/Inensia team for their engagement, their professionalism, and their unfailing good mood all along the project that made this project a success!

It is but a first small victory, as more than thirty factory deployments worldwide remain for the upcoming three years.

## ***OpenText and Staria offer ultra-scalable e-invoicing services for customers***

15 September 2022

OpenText™ announced its continued dedication to delivering the highest quality e-invoice compliance solutions that is future proof against growing regulatory compliance, country-specific legal requirements and management complexities. OpenText customer Staria is one of thousands who benefit from this expertise. Staria offers financial administration services in over 40 countries, setting up fast-growing businesses with scalable, international, and reliable technology-driven accounting services. To best support companies on their growth journey, Staria employs OpenText™ Business Network Cloud to leverage modern cloud integration services augmenting traditional B2B integration with end-to-end process visibility and data quality.

Through a close, multi-year relationship with OpenText, Staria has helped customers automate invoicing processes while remaining compliant with country specific mandates. Staria works in parallel with experts from OpenText to create a new OpenText Business Network account for the client and configure the platform to handle the new inbound and outbound invoicing flows. Once these initial steps have been taken, OpenText and Staria keep an open line of communication to ensure a seamless transition

into supply chain automation.

“One of the main challenges that companies face when they begin moving into new geographies is financial accounting. As smaller businesses grow into international enterprises, it’s essential that they meet country-specific requirements around bookkeeping, payroll, and other statutory obligations,” says Jani Jääskeläinen, Chief Technology Officer at Staria. “Our monthly invoice processing volumes are continually rising as we win new business, and our existing clients grow into international markets. With OpenText, we can handle that expansion with ease—something that would not be possible if we managed invoice capture and processing with our own in-house resources.”

For over five years, Staria’s relationship with OpenText has helped the company cost-effectively process more than 64,000 invoices a month, with practically unlimited headroom for growth. The company also uses the platform to ensure automated delivery of 22,000 outbound invoices each month for its clients, enabling Staria to focus on value-added activities. With a revenue goal of €60m, OpenText is enabling Staria to scale its cloud-based Enterprise Resource Planning offering rapidly.

“With supply chain optimization and digitization being top of mind, it is critical that companies employ the proper solutions that promote invoice compliance, operational cost reduction, simplified processes, invoice error reduction and cashflow improvements,” says Muhi Majzoub, EVP and Chief Product Officer at OpenText. “OpenText Business Network offers Staria access to decades of financial service expertise, a proven technology platform, and to the economies of scale that enable it to grow fast while keeping costs low. We are proud to partner with Staria to continue to provide fast-growing companies with a trusted, transparent, and scalable one-stop-shop for e-invoicing needs.”

## ***Shimizu Corporation Partners with ALICE Technologies to Boost Efficiency and Reduce Risk***

20 September 2022

ALICE Technologies announced that Shimizu Corporation has selected ALICE for use on their overseas projects. ALICE Technologies’ construction simulation and optimization platform helps general contractors worldwide to leverage the power of artificial intelligence to plan, bid and build their large-scale infrastructure and commercial projects more efficiently and with reduced risk.

Founded in 1804, Shimizu has grown over the past two centuries to become one of the world’s largest construction companies. As it looks to the future, Shimizu aspires to become what it calls a Smart Innovation Company and sees leading-edge construction technologies as essential to its ability to execute on this vision.

The large-scale projects Shimizu builds are extremely complicated and could potentially be built in a variety of ways. Through its use of the ALICE platform, Shimizu is using the power of artificial intelligence to create thousands of potential construction schedule options for these projects - a task that is impossible using old-school scheduling solutions. Managers can then evaluate these choices and select the construction path that best matches their business goals for a project. In addition, when Shimizu begins construction, it will use ALICE Manage to help it keep projects on time and on budget - and to revise schedules quickly if circumstances change. The ability to easily update schedules to keep projects on track will enable Shimizu to reduce the risks associated with missing delivery deadlines and avoid liquidated damages that can decrease project profitability.

“With ALICE, we can simulate thousands of ways in which we could build a complex project,” said Shuntaro Kano, Representative of Shimizu Silicon Valley Innovation Center, Shimizu Corporation. “The platform gives us the ability to experiment with different choices and run what-if analyses to find

the optimal way to build,” he continued. “And once we move from planning to execution, ALICE will enable us to keep projects on track, and to easily update our schedules if necessary. This is the power of applied AI.”

“Shimizu is building some of the most sophisticated projects in the world,” said ALICE Founder and CEO René Morkos. “Airports, subways, bridges, skyscrapers - these are perfect use cases for ALICE. We thrive on complexity, and we’re excited to have the opportunity to help Shimizu to increase profitability and decrease risk by applying AI to the planning and management of its toughest construction projects.”

## ***Taulia and Standard Chartered sign MoU to advance working capital management solutions and strengthen financial supply chains***

21 September 2022

Taulia, a leading provider of working capital solutions, and Standard Chartered have signed a memorandum of understanding (MoU) to collaborate across a range of working capital finance solutions, with an initial focus on the provision of supply chain finance and dynamic discounting. This marks the first MoU that Taulia has signed with a banking institution, following SAP’s acquisition of Taulia.

As part of the agreement, both parties will look to offer supply chain finance and dynamic discounting solutions, enabled by Taulia’s market-leading front-end platform and deeply integrated technology. Combined with the strength of Standard Chartered’s global presence especially in the emerging markets, trade finance expertise and deep client relationships, the collaboration will help clients enhance the resilience and sustainability of their supply chains, by enabling their suppliers to gain access to working capital more efficiently and cost effectively.

Through the collaboration, Standard Chartered and Taulia will join forces to extend the reach of their working capital finance solutions across both existing and new client networks, especially multinational companies that require the expertise and support at a global and local level. This will be further strengthened through Taulia’s recent acquisition by SAP, which will unlock further opportunities across SAP’s growing ecosystem to deliver a differentiated experience for buyers and suppliers.

“We are proud to announce the signing of the MoU with Standard Chartered and this marks another milestone in Taulia’s journey to grow our bank network and work closely with our partners to deliver working capital solutions for all of our clients,” said Thomas Mehlkopf, Head of Working Capital Management CoE at SAP and member of the Taulia Leadership Team. “We believe that all CFOs should focus on their cash strategy to ensure growth during these turbulent times and our partnership with Standard Chartered will deliver cash when and where it is needed, especially in emerging markets.”

“Ensuring our clients are managing their working capital efficiently is a key priority in ensuring that their businesses grow sustainably, especially with the complexities and challenges in today’s supply chains,” said Kai Fehr, Global Head of Trade & Working Capital, Standard Chartered. “We are excited to work with Taulia to explore new and innovative ways to support our clients’ working capital needs, as well as extending the Bank’s leading sustainable trade expertise into their business network. Taulia’s footprint also complements that of the Bank, offering greater opportunities for us to support companies in the West with their supply chain flows into Asia, Africa and the Middle East.”

## ***TCS Helps Zurich Insurance Germany Digitally Transform its Life Insurance Business***

21 September 2022

Tata Consultancy Services (TCS) and Zurich Insurance Germany (Zurich) have expanded their partnership, making TCS the exclusive strategic IT partner for the latter's life insurance IT landscape.

TCS has been a partner to Zurich Insurance Germany since 2016 and has been working closely to deliver key business initiatives in general insurance, customer and sales, and life legacy portfolios. With the expanded strategic partnership, TCS will help the insurer modernize, transform and manage the entire application estate supporting its life insurance business; improve, and standardize IT and business processes; accelerate cloud and digital adoption; and drive technical and domain innovation at scale.

Leveraging its deep contextual knowledge of Zurich's IT and business landscape and vast experience in leading innovation-led business transformations, TCS will help the insurer streamline the customer journey through digitalization and process simplification, enhance customer experience, and expand the use of the bancassurance channel. TCS will also leverage its innovation centers and capabilities to help Zurich scale its innovation efforts at speed and launch new digital services and products.

TCS will help Zurich embrace a new IT operating model, leveraging DevSecOps and automation. This will enable the insurer to bring innovations faster to market, and enhance the digital customer journey. TCS will also work closely with Zurich IT in joint agile teams to build a stronger internal IT core competency by leveraging TCS' Talent Transformation framework.

"Zurich is on a transformation journey – an "accelerated evolution" – with the aim of improving our digital capabilities, accelerating the development of new solutions and thus modernizing the IT landscape. We are creating a strong new foundation that will help us maintain our growth trajectory while focusing on customer experience," said **Jens Becker, CIO, Zurich Group Germany**. "Due to their excellent delivery competence, strong customer orientation and technical expertise, we have been working successfully with TCS for several years, and are now building this into a strategic partnership, selecting TCS as the exclusive partner for the life insurance domain."

"We are delighted to expand our partnership with Zurich Insurance Germany to drive their digitalization and transformation agenda. Given TCS' deep experience in the insurance industry, strong talent pool, and innovation hubs such as TCS Pace Port™, we are uniquely positioned to help Zurich Insurance Germany in their growth and transformation journey and enhance their competitive differentiation to become a market leader," said **Uma Rijhwani, Business Unit Head, Banking, Financial Services, and Insurance – Central Europe, TCS**.

Present in Germany since 1991, TCS currently partners with over 100 leading German corporations in their growth and transformation journeys, including 23 of the stock index DAX40. TCS has been consistently ranked number one for customer satisfaction in an independent survey of CxOs at top IT spending European organizations by Whitelane Research.

## ***Tecsys' Distribution ERP Software Serves as A.M.G. Medical's Digital Nerve Center***

20 September 2022

Tecsys Inc., an industry-leading supply chain management software company, is pleased to announce that A.M.G. Medical Inc. (AMG), a leading Canadian manufacturer and distributor of home healthcare and medical professional products has launched its end-to-end digital transformation journey by implementing Tecsys' cloud-based Elite™ Distribution ERP (enterprise resource planning solution)

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together with Elite™ WMS, Tecsys' robust warehouse management solution. The seamlessly integrated Tecsys system, designed specifically for distribution-focused organizations, provides A.M.G. Medical's headquarters and distribution center with an adaptive, scalable, function-rich platform that accommodates business-critical complexity and drives financial performance.

A.M.G. Medical sought a modern cloud-based ERP solution that would allow the distribution company to build innovation and agility into its supply chain operation while remaining compliant with business requirements. Fundamental to A.M.G. Medical's business success, leadership prioritized a system that manages change, fosters growth and informs on key investment decisions through support for complex financial reporting.

"We knew we needed to revitalize our aging systems, and we determined that our ERP, as the digital nerve center of our organization, would be the epicenter of that transformation," explains Janick Coulombe, vice president, Finance and Administration at A.M.G. Medical. "As a distribution-focused ERP provider, Tecsys provides a strategic benefit over the giant one-size-fits-all ERPs keyed into the form and function that we need as a distribution organization. The Tecsys solution affords us data transparency and financial stewardship in our operations while improving agility and productivity. We now have a more reliable data flow into our new data mart for better reporting and analytics."

Elite™ Distribution ERP assumes the added complexity in distribution that comes with a converging supply chain market. With Tecsys' software in place, A.M.G. Medical has visibility into every facet of its operations so the organization can make better decisions, respond to customer requests faster and stay ahead of the competition. Its scalable platform accommodates the constant flux in operations and customer demands.

ERPs should be measured by their relevant value and functionality, especially in context of an organization's principal line of business. With Elite™ Distribution ERP, A.M.G. Medical will:

- **Drive Financial Performance.** A.M.G. Medical gains access to evidence-based information that helps guide key investment decisions while controlling the complexity of financial reporting.
- **Accelerate Order-to-cash.** A.M.G. Medical streamlines order fulfillment through multiple channels and multiple processes with fluidity throughout the customer relationship cycle, from order to returns to efficient cash collection.
- **Improve Forecast Accuracy.** With Elite™ Distribution ERP, A.M.G. Medical's demand planners have access to complete and detailed historical demand data at any level of aggregation, right down to the originating transaction. With powerful reporting tools and customizable data filters, planners can locate and investigate trends and spikes, allowing them to unearth hidden opportunities and improve accuracy.
- **Manage Purchase-to-pay.** Planning and automation of the purchasing process streamlines A.M.G. Medical's workflows while realizing efficiency, cost savings and increased financial and procurement visibility.
- **Achieve Full Visibility.** A.M.G. Medical's integrated single source of truth provides complete, multi-platform operational visibility. It allows for more reliable data, better reporting, and the means to perform business process improvements on a continuous basis.

"We're in the business of turning supply chain complexity from an obstacle to an opportunity, and we're delighted to have helped A.M.G. Medical in that journey through their Elite™ Distribution ERP implementation," says Peter Brereton, president and CEO at Tecsys. "In order for distribution-focused organizations to be competitive, they need to turn the rigorous supply chain demands being placed on them into a competitive advantage. Monolithic ERP systems are not designed for the level of volatility

and change in supply chain execution. By putting distribution functionality at the forefront of our solution, we're giving customers like A.M.G. Medical the functionality they need to leverage a digital platform for business health and growth."

## ***UK Export Finance Leverages Informatica Cloud Platform to Help Businesses Scale Globally***

20 September 2022

Informatica<sup>®</sup>, an enterprise cloud data management leader, announced that UK Export Finance is modernizing to the cloud with Informatica's Intelligent Data Management Cloud (IDMC), freeing up team resources to better serve UK businesses of all sizes and sectors.

UK Export Finance is the world's first and oldest export credit agency, its mission is to advance prosperity by ensuring no viable UK export fails for lack of finance or insurance, doing that sustainably and at no net cost to the taxpayer. In the last year it supported 545 companies supporting exports in 61 countries. The small but nimble department is undertaking a digital transformation journey and selected Informatica to modernize its data architecture on a single cloud platform.

Informatica's IDMC enables enterprises to manage, own and derive insights from their data in the Cloud. UK Export Finance kicked off its digital transformation with a focus on connectivity and fast data ingestion. The IDMC enabled seamless integration with Azure DevOps and Power BI and allows UK Export Finance to manage all data pipelines from a single, browser-based tool and usage-based pricing has lowered the total cost of ownership.

With a legacy integration stack, the UK Export Finance technology team was spending more and more time on maintenance and manual hand-coding to rebuild connectors to meet the specs of modern data architectures, taking time away from important projects. This, along with evolving international standards and regulatory requirements, made it the right time to modernize to the cloud. After an intensive decision-making process, UK Export Finance chose Informatica's cloud-native IDMC for its best-in-class capabilities, wide array of codeless connectors, and ease of implementation.

With AI-powered automation and re-usable templates, IDMC has reduced data loading and build times by 40%, allowing the UK Export Finance technology team to focus on more strategic initiatives. Developers and data scientists are no longer tied down with maintenance and instead applying their expertise in building reports that unearth insights and value from the data for the UK exporters the department serves.

"With a mission to better serve British businesses to enter new markets, maximize growth potential and increase the volume of export sales, our team looks to data to unearth insights and uncover new strategies," said Daniel Cozens, Senior Technical Lead, UK Export Finance. "Informatica's Intelligent Data Management Cloud has helped alleviate the maintenance and build burden, allowing our team to work on more interesting, strategic initiatives and deliver data-driven recommendations for the UK Exporters we support."

"How businesses manage and innovate with data can be the decider on whether they become an industry disruptor or get left behind. With the IDMC, UK Export Finance can improve operational efficiency, eliminating inefficient hand coding and democratise data across the department to allow faster time to value and timely insights," said Jason Tooley, VP Informatica. "We're pleased to be working with UK Export Finance to unleash the power of its data to help UK businesses and industries thrive."

## Product News

### ***Blackline Safety Sets New Standard in Connected Worker Safety with Launch of G6***

19 September 2022

**Blackline Safety Corp.**, a global leader in connected safety technology, continues to trailblaze in the industrial worker safety market with the launch of a new connected wearable to transform single-gas detection. The all-new G6 personal gas detector – unveiled today at the National Safety Council (NSC) Safety Congress & Expo in San Diego – offers fast incident response time and a more efficient way to manage safety and compliance.

What makes G6 truly unique is its long-lasting connectivity, which outlasts the competition. This means industrial organizations can fully harness real-time vital safety data for the first time in scenarios where disposable, traditional beep-and-flash detectors are commonly used.

A fully connected and intuitive solution that leverages the latest in Internet of Things (IoT) cellular connectivity, G6 delivers expanded benefits such as longer battery life, lower cost of ownership and fewer false alarms. More importantly, it gives safety professionals access to the trusted data they need to manage their safety protocols, processes, and ongoing compliance more effectively and efficiently.

*“With this new technology, we’re bringing unprecedented levels of connectivity to industrial workplaces, helping to reduce the risk of injury, boost productivity and bring proactive safety management to a new level,” said Cody Slater, CEO and Chair, Blackline Safety. “We’re responding to a direct need in the market, giving safety managers higher performing technology to access reliable, actionable data at their fingertips.”*

Built-in capabilities of G6 include:

#### *Connectivity*

- Proven direct-to-cloud cellular connectivity that works straight out of the box.
- Complete safety management through the Blackline Live software portal, with the ability to view an entire fleet of devices from a single screen and deliver automatic, over-the-air firmware and configuration updates.
- Improved incident response time supported by real-time notifications and GPS mapping to quickly locate workers and devices and understand what’s happening on the ground as incidents unfold.

#### *Trustworthy gas detection and powerful analytics*

- Sensor options to quickly alert workers to exposure of toxic gases, including hydrogen sulfide (H<sub>2</sub>S), carbon monoxide (CO), oxygen (O<sub>2</sub>) and sulfur dioxide (SO<sub>2</sub>).
- Higher precision short-term exposure limit (STEL) monitoring.
- More accurate data that reduces false alarms and drives powerful reporting and analytics to get ahead of safety risks.

#### *Longest-lasting device life*

- Long-life rechargeable battery that lasts up to one year.
- Ability to quickly locate devices when lost or stolen.
- Device life of up to four years, double the life span of competitive models.

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According to a 2022 survey by Priority Metrics Group, 75 percent of North American environment, health and safety (EHS) managers see significant value in gas detectors with expanded features. They're also looking for a simpler, more integrated solution when it comes to using the data generated from gas detection systems to make better informed decisions.

*"G6 fills a current gap in the market. We have customers who are looking to replace their beep-and-flash detectors with a connected device with more safety features, but still need a device that requires minimum upkeep and is easy on time and resources," said CJ Gregg, CEO, Becker Safety and Supply, a Western US-based distributor of safety supplies. "G6 delivers on all fronts."*

Ideally suited to large industrial organizations in the oil and gas, petrochemical, manufacturing, utility, and renewable energy sectors, G6 allows users to access important single-source data from anywhere, at any time, on any Web-enabled device, and then analyze it through Blackline's advanced reporting, visualization and data analytics software. This means safety managers can glean critical data insights that help them stay ahead of potential risks and make daily operations more efficient. At the same time, they have state-of-the-art technology and cloud-connectivity at their fingertips to respond to incidents quickly and confidently in real-time when they do happen.

"Today's safety and operational leaders are looking for connected solutions that support their number one goal, which is to protect workers from hazards, so they arrive home safely at the end of the day," said Slater. "Our customer-driven approach to innovation is helping to build a world where adaptive, proactive safety programs are the norm, making it possible to reduce workplace injuries and increase productivity at the same time."

G6 comes with a full warranty and flexible purchase options that include the ability to own or lease to maximize CAPEX or OPEX budgets. First product shipments are scheduled for late October.

## ***Bluebeam Introduces Bluebeam Cloud: Designed for the Business of Building***

20 September 2022

Bluebeam, Inc., leading developer of solutions and services for architecture, engineering and construction professionals worldwide, announced a milestone in its global business transformation with the release of Bluebeam Cloud, a new suite of mobile and browser-based solutions available globally as part of new subscription plans.

"Bluebeam Cloud delivers on our customer promise to unlock the power of Bluebeam Revu so teams in the field can access critical data and work from anywhere, including their mobile devices," said Bluebeam Chief Executive Officer Jon Elliott. "Our clients depend on accurate, secure, and timely data so they can stay connected and keep projects on track, even when they're on the move. Bluebeam Cloud provides that missing link, delivering targeted features, workflows and reporting with connectivity, collaboration and data-accessibility at its core."

Bluebeam Cloud features a powerful, flexible Markup Editor for marking up, commenting, and collaborating on project documents, and Field Tools for the management and tracking of punch, RFI and submittal workflows. These browser and app-based mobile solutions work with existing Bluebeam markups, tool sets and documents, allowing project data to remain accessible to team members in the office and on the jobsite.

"Bluebeam has always focused, first and foremost, on understanding their customers' true needs," said Yves Padrines, Chief Executive Officer of the Nemetschek Group, Bluebeam's parent company since 2014. "Bluebeam understood their customer's work was changing at an incredible pace, and that a total business transformation was required for Bluebeam to deliver the value and services necessary to meet

the challenge. Bluebeam Cloud represents much more than a software release, it's the launch of an entirely new way of doing business based on partnerships that go beyond just the sale, to deliver better outcomes on every project. And that's building better together."

Designed specifically to address the evolving needs of modern hybrid-workplaces, Bluebeam Cloud and Bluebeam's flagship desktop-based solution Revu are being bundled and offered together as subscription plans for the first time. All subscribers will also receive unlimited data storage, an entire library of Bluebeam University on-demand training resources, and live global technical support. New Bluebeam subscribers can also expect to see additional services added to the subscription offerings in the future.

"When we began developing Bluebeam Cloud, we had the opportunity to work with our customers and reimagine the way our software, apps and services were being accessed to greatly improve value and increase ease-of-use," said Bluebeam Chief Product Officer Roger Angarita. "With our move to subscription, we focused on the areas that would have the greatest impact for streamlining everyone's access to files and critical data from the office to the field with no disruption. And we wanted to make onboarding and training easy with on-demand training and support resources that help our customers get even more value from our solutions. We're proud to introduce changes with this release that directly address the real issues impacting professionals worldwide, and ultimately deliver an extraordinary experience."

## ***MATLAB and Simulink Release 2022b Delivers New Simscape Battery and Updates that Simplify and Automate Model-Based Design***

20 September 2022

MathWorks unveiled Release 2022b (R2022b) of the MATLAB® and Simulink® product families. R2022b introduces two new products and several enhanced features that simplify and automate Model-Based Design for engineers and researchers tasked with delivering product innovations and breakthroughs for their organizations.

The global battery management systems market is expected to reach \$13.4 billion by 2026. Bloomberg New Energy Finance indicates the growth can be attributed largely to electric vehicle (EV) market growth. The organization's latest report shows that 58% of global passenger vehicle sales will come from EVs by 2040. Simscape Battery™, one of the top innovations introduced in the R2022b release, provides design tools and parameterized models for businesses designing these types of battery systems.

Engineers and researchers use Simscape Battery to create digital twins, run virtual tests of battery pack architectures, design battery management systems, and evaluate battery system behavior across normal and fault conditions. The tool also automates the creation of simulation models that match desired pack topology and includes cooling plate connections so electrical and thermal responses can be evaluated.

"We're excited to launch Simscape Battery as innovation in battery management systems is at an all-time high," said Graham Dudgeon, Principal Product Manager, Electrical Systems Modeling, MathWorks. "The new product includes many design tools intended to simplify and automate Model-Based Design, including the Battery Pack Model Builder that lets engineers interactively create and evaluate different battery pack architectures."

R2022b also features the new Medical Imaging Toolbox. The toolbox provides tools for medical imaging applications to design, test, and deploy diagnostic and radiomics algorithms that use deep learning networks. Medical researchers, scientists, engineers, and device designers can use Medical Imaging Toolbox for multi-volume 3D visualization, multimodal registration, segmentation, and

automated ground truth labeling for training deep learning networks on medical images.

R2022b introduces updates to popular MATLAB and Simulink tools, including:

- AUTOSAR Blockset: Develop services-oriented applications using client-server ARA methods and deploy them on embedded Linux platforms. The tool lets users define data types and interfaces in an architecture model.
- Fuzzy Logic Toolbox: Design, analyze, and simulate fuzzy inference systems (FIS) interactively using the updated Fuzzy Logic Designer app. In addition, the enhanced toolbox allows engineers and researchers to design type-2 FIS using command-line functions or the Fuzzy Logic Designer app.
- HDL Coder: Generate optimized SystemC code from MATLAB for High-Level Synthesis (HLS) and use the frame-to-sample conversion for model and code optimization.
- Model Predictive Control Toolbox: Use neural networks as prediction models for nonlinear model predictive controllers. In addition, the toolbox now lets users implement model predictive controllers that meet ISO 26262 and MISRA C standards.
- System Identification Toolbox: Create deep learning-based nonlinear state space models using neural ordinary differential equations (ODEs). Machine learning and deep learning techniques can also represent nonlinear dynamics in nonlinear ARX and Hammerstein-Wiener models.

## ***Sage People Payroll launches in the US and UK***

18 September 2022

Sage, the leader in accounting, financial, HR, and payroll technology for small and mid-sized businesses (SMBs), has launched Sage People Payroll in the US and UK.

The innovative cloud-based HR and payroll solution is designed to help businesses work smarter, scale and grow, and offer the best experience to their employees. It enables increased collaboration and efficiencies between HR and payroll, delivering significant cost and time savings.

“Launching Sage People Payroll in the US and UK is an important milestone for us, delivering on our strategic ambition of being the trusted network for an integrated Payroll and HR solution for mid-sized businesses,” says Jonathan Goldsmith, Head of HR and Payroll at Sage.

“Running payroll is not just clicking a button. Due to recent regulatory changes, complexities added by the gig economy, and the global pandemic, it has become one of the most complex business operations from a back-office perspective. It’s the engine room of a business that needs to run seamlessly on a tight schedule. Our new software has been designed to empower teams to collaborate efficiently, quickly and accurately, enabling them to boost productivity and enhance employees’ satisfaction.”

Sage People Payroll is powered in conjunction with partners in each region, offering enhanced payroll capabilities and enabling SMBs to complete a secure, compliant, and accurate payroll process in a matter of minutes.

## ***Siemens collaborates with UMC to develop 3D integrated circuit hybrid bonding workflow***

22 September 2022

Siemens Digital Industries Software announced it has collaborated with leading semiconductor foundry United Microelectronics (UMC) to develop and implement a new multi-chip 3D integrated circuit (IC)

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planning, assembly validation and parasitic extraction (PEX) workflow for UMC's wafer-on-wafer and chip-on-wafer technologies. UMC plans to soon offer this new flow to its global roster of customers.

By stacking silicon die or chipllets on top of each other in a single packaged device, companies can achieve the functionality of multiple devices on the same or smaller chip area. This not only saves space but also enables companies to achieve greater system performance and functionality at lower power than traditional configurations of laying out multiple chips on a PCB.

"We are pleased to be able to offer our customers a robust and proven foundry design kit and associate workflow that they can use to validate their stacked device designs, and help correct die alignment and connectivity, while extracting assembly parasitics for use in signal integrity simulations," said Osbert Cheng, vice president of device technology development and design support at UMC. "Our mutual customers are increasingly interested in 3D IC solutions for applications including high-performance computing, RF, and AIoT, and this collaboration with Siemens can help to accelerate time-to-market of their integrated product designs."

UMC developed its new hybrid-bonding 3D layout vs. schematic (LVS) verification and parasitic extraction workflow using Siemens' XPEDITION™ Substrate Integrator software for design planning and assembly, together with Siemens' Calibre® 3DSTACK software for inter-die connectivity checking, Calibre nmDRC software, Calibre nmLVS software, and Calibre xACT™ software for IC and inter-die extended physical and circuit verification tasks.

"Siemens is pleased to continue our collaboration with UMC, which has once again resulted in delivering significant benefits to our mutual customers," said AJ Incorvaia, senior vice president of Electronic Board Systems at Siemens Digital Industries Software. "As these customers continue to develop higher complexity designs, UMC and Siemens stand ready to deliver the advanced workflows that customers need to help bring these increasingly sophisticated designs to life."

## ***AECOM expands its Digital AECOM offering with the launch of PipeInsights, an innovative platform that accelerates sewer inspections and enhances defect detection***

20 September 2022

AECOM, the world's trusted infrastructure consulting firm, announced it is further expanding its Digital AECOM offering with the launch of PipeInsights, a digital platform that helps clients deliver superior rehabilitation and maintenance outcomes for their sewer systems. The PipeInsights platform augments conventional CCTV inspections using advanced machine learning algorithms to provide automated defect detection and recommend optimal maintenance decisions.

"With PipeInsights, our clients can accelerate inspections and dedicate more time to their core mission: solving today's critical water infrastructure challenges," said Beverley Stinson, chief executive of AECOM's global Water business. "We've applied our digital expertise and decades of experience to mitigate the inefficiencies typically associated with inspections, using artificial intelligence to rapidly review CCTV footage and identify defects. AECOM's robust Water business line has already cemented itself as a leader in delivering safe, sanitary, and resilient sewer system solutions. Digital AECOM's tools bolster our capabilities, enabling our clients to revitalize their water infrastructure with greater efficiency and precision."

By seamlessly integrating footage and results into a simple geographic information system (GIS) interface, the PipeInsights platform enables users to manage multiple sewer programs simultaneously while enhancing the understanding of overall sewer system health. To date, PipeInsights has been used on real-world inspections and captured images of hundreds of thousands of defects as it continues to

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learn. The platform enables secure access to inspections from any mobile device, allowing users to visualize and share the health of their systems from the office or the field.

“We’re proud to launch PipeInsights and believe it will become an industry-leading product, one that provides our clients with an innovative approach to inspections and maintenance, and helps them sustain their water infrastructure more confidently and cost-effectively,” said Todd Battley, AECOM’s chief strategy officer. “PipeInsights’ accessibility and capability make it a premier solution. Users can evaluate inspection results, diagnose problems, and anticipate future needs through an intuitive platform. This commitment to simplifying challenges with technological agility defines Digital AECOM’s record of client success.”

Digital AECOM brings together the company’s global digital-focused consulting services, hosted services products, and digital tools that enhance the delivery of core engineering and design services to help clients accelerate their digital journeys and achieve better project outcomes. Leveraging the strengths of the firm’s more than 2,000 integrated digital practitioners globally and proven AECOM technology to connect data, projects, and communities, Digital AECOM is a key enabler of the company’s *Sustainable Legacies* strategy.

## ***BIM Track Releases NextGen Viewer – the Fastest Web-Based Viewer on the Market – for Public Beta***

19 September 2022

BIM Track is proud to announce the release of NextGen Viewer for public beta. This much-anticipated update to the viewer was heavily inspired by user, client, and community feedback. It is an instrument of the BIM Track web platform for BIM/VDC coordination and collaboration, and answers users’ needs for smooth consultation of sheets and all model types with minimal loading delays. It is now available for testing in public beta, and BIM Track invites everyone to try it out and see how easy it is to use, and to offer feedback.

The NextGen Viewer is fast-loading, lightweight, and allows users to activate many more models than previously possible.

“The NextGen viewer is the fastest web-based viewer on the market, and provides remarkably smooth 3D pivoting. It marks an important milestone on our product roadmap,” explains Carl Veillette, CPO at BIM Track, “I am very impressed with our team because the NextGen Viewer is not only great when compared to our legacy viewer, but also when compared to other BIM viewers on the market.”

NextGen Viewer is not simply an update of BIM Track’s legacy viewer, but a redesign from the ground-up. Notably it sports a more intuitive user experience, leading to a more impressive performance. The right-side panel allows for easy referencing between sheets, models, and issues, so that a user can easily switch their focus between them. With its external URL support, users can quickly access outside issues directly in the viewer. Comments and issues can be added directly to a model from inside the viewer as well.

“We’re confident that users will switch over to the NextGen Viewer quite quickly once they get a taste for how versatile it is,” stated Nikita Lambert, Product Owner.

## ***Siemens and sustamize collaborate to add carbon emissions data to Siemens Xcelerator***

19 September 2022

Decarbonization is a key focus for leading design, engineering and manufacturing organizations. To provide access to the most up to date CO2e emission data for materials and energies, Siemens Digital Industries Software announces its collaboration with sustamize GmbH, a leading ClimateTech company providing professional technology, data and software solutions enabling companies to measure, optimize and manage CO2 emissions.

The new Teamcenter® Carbon Footprint Calculator software, part of the Teamcenter product cost management solution from the Siemens Xcelerator platform, enables organizations to measure, simulate, reduce and track their product carbon footprint early in the development phase. This will empower different departments to measure, optimize and manage carbon footprints at each level of the product value chain.

“Today, it is thought that 80 percent of the environmental impact associated with a product can be avoided in the development and design phase. Our collaboration with sustamize will enable customers to understand the environmental impacts of their products and processes early in the product development based on comprehensive, up to date, data,” said Eryn Devola, Vice President of Sustainability, Siemens Digital Industries Software. “By empowering our community to make fact-based decisions based on uniform data along the entire supply chain, we can assist them to avoid hazardous materials, use materials and energy efficiently, develop clean manufacturing procedures and help to accelerate the transition to net zero.”

Through this collaboration, the wealth of data from sustamize’s Product Footprint Engine, including a prepackaged CO2 emission factors library with frequently used material and energy factor set, will be accessible through the Siemens Xcelerator portfolio. This will support the calculation of the product carbon footprint and scope 3 emissions (for purchased parts and external services) with the capability to add additional category data sets based on demand. sustamize’ technology enables automated product carbon footprint management with one of the world’s largest CO2e database and intelligent algorithms, so the Product Footprint Engine is based on scientifically researched data enriched with more than 20 years of industry know-how and validated according to ISO 14048 by DEKRA.

"Empowering users across manufacturing focused organizations to understand the CO2e impacts and drivers in their own products and supply chains, while working with a sophisticated tool that is already familiar and user-friendly, is a game changer in overcoming hurdles related to CO2e management," said Viola Hasani, Co-founder and Customer Success Lead, sustamize.

## ***Synopsys Unveils Industry's First Unified Emulation and Prototyping System Addressing Verification Requirements Across the Chip Development Cycle***

20 September 2022

Delivering new levels of performance and flexibility for SoC verification and early software development, Synopsys, Inc. announced the industry's first unified hardware system for emulation and prototyping based on the Synopsys ZeBu® EP1 emulation system. By adding prototyping functionality to Synopsys ZeBu EP1, the industry's fastest billion-gates emulation system, customers can take advantage of a single verification hardware system throughout their chip development lifecycle.

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"As software content and hardware complexity keep growing, SoC design teams are consistently looking for more and faster emulation and prototyping capacity to achieve their hardware verification and software development goals," said Rohit Vora, senior vice president of R&D in the Systems Design Group at Synopsys. "The Synopsys ZeBu EP1 system represents a major innovation in verification hardware by providing a single system supporting both emulation and prototyping with higher performance and faster emulation compile time. With Synopsys ZeBu EP1 system, industry-leading companies have achieved 19-MHz emulation and 100-MHz prototyping clock performance, enabling them to run large amounts of software pre-silicon and accelerate project schedules."

## **Unified Emulation and Prototyping System Benefits**

Hardware verification teams use emulation systems for faster SoC design verification, while software development teams need the additional performance that can be achieved with prototyping technology. However, it has been challenging for chip and system development teams to determine upfront the optimal balance of emulation and prototyping hardware capacity. The new Synopsys ZeBu EP1 system with flexible hardware helps eliminate this dilemma. Teams are free from the constraints of fixed hardware, allowing their verification and software development requirements to drive how and when to shift capacity between emulation and prototyping, rather than having to estimate early on how much of each resource might be needed.

The unified hardware system provides an easy-to-bring-up emulation flow with high performance and support for full debug visibility. Verification and software teams can validate designs against real-world interfaces at the highest possible performance using the prototyping flow of the ZeBu EP1 system. The unified hardware also benefits from Synopsys' new faster compile technology to reduce turnaround time by up to 3x compared to the previous generation's compile technology.

Synopsys protocol solutions for ZeBu EP1 offer a wide range of connectivity options to enable execution of complex software stacks and support many advanced interface protocols, such as PCI Express® (PCIe®) 5.0/6.0, USB 4, HBM3 and Universal Chiplet Interconnect Express (UCIe) through:

- At-speed connectivity with protocol interface cards
- Transactors, including virtual testers for virtual interface connectivity
- Speed adapters for in-circuit emulation
- Synopsys IP Prototyping Kits, for fast IP integration, software development and system validation

In combination with the Synopsys Virtualizer™ virtual prototyping tool, software developers have access to a fast hardware target for their software development and testing using unified hardware for hybrid emulation and prototyping.

## **What Industry Leaders Are Saying**

"Compute is becoming increasingly complex and it is critical that we work together to ease some of the hardware and software challenges to clear a path for innovation," said Tran Nguyen, senior director of Design Services at Arm. "As more Arm-based software-intensive applications are developed across mobile graphics, automotive, 5G and HPC, there is an increasing demand for emulation and prototyping capacity. Synopsys ZeBu EP1 system helps address the need for more verification cycles by providing a unified hardware with flexible capacity at the fastest performance."

"Synopsys continues to innovate its verification hardware family with the latest Synopsys ZeBu EP1 system, the first unified hardware to scale emulation and prototyping capacity," said Narendra Konda, vice president of Hardware Engineering at NVIDIA. "As NVIDIA continues to increase the pace of

innovation across compute-intensive domains like GPU, AI and ADAS, our long-standing collaboration with Synopsys enables us to meet verification and validation needs for chip designs today and well into the future."

## ***TCS Expands its Aviana™ Suite with SmartMx Co-Created with SIAEC: Digitally Transforms Airline Maintenance Operations***

19 September 2022

Tata Consultancy Services (TCS) and SIA Engineering Company (SIAEC), a major provider of aircraft Maintenance, Repair and Overhaul (MRO) services in Asia-Pacific, have launched SmartMx (Smart Maintenance), as part of the TCS Aviana™ suite. The new solution will enable airlines and MRO service providers to digitally reimagine their maintenance operations leveraging contextual intelligence to enhance operational visibility and improve ecosystem collaboration.

TCS Aviana is a suite of intelligent, digital airline operations solutions that provides a connected view of the end-to-end aircraft maintenance operation. It empowers maintenance teams with information and insights related to flight schedules, routine tasks, defects, parts, tools, and reference manuals on-the-go, helping improve operational efficiencies, enable more consistent turnaround times and reduce aircraft on-ground events.

Throughout the pandemic, the TCS suite has helped airlines and MROs address the constantly evolving maintenance requirements – enabling dynamic process changes to Covid-19-related processes and facilitating remote operations caused by unexpected aircraft parking constraints.

TCS Aviana – SmartMx liberates enterprises from the constraints of their legacy systems and disconnected processes, building a human-centric digital system of engagement that leverages advanced technologies. Its digital core seamlessly connects multiple data sources including aircraft location and status, flight schedules, ground operations, people, parts and equipment, enabling both airlines and MRO service providers to benefit from consistent, collective information and insights – facilitating collaboration towards common goals and KPIs.

The solution also leverages big data, machine learning and machine vision to unleash new capabilities, operating and business models. The solution roadmap will deliver AI/ML based advisory capabilities, continuous day of operations planning and closed feedback loops, enabling value chain intelligence to ecosystem partners. This unique solution enables faster response times, proactive planning, improved productivity, and consistent dispatch reliability.

*“With international air travel expected to increase exponentially, it is imperative for aircrafts to be in optimal operational condition round-the-clock. The TCS Aviana – SmartMx solution will help customers meet the increased demand from its worldwide client base and play a key role in the sector’s overall recovery from the pandemic. This is yet another example of how we help our customers translate their business aspirations into reality,”* said **Ameet Nivsarkar, Country Head, TCS Singapore.**

**David So, Senior Vice President, Innovation and Technology, SIAEC,** said, *“We are delighted to collaborate with TCS to launch TCS Aviana – SmartMx which provides visibility, situational feedback, and decision support for our engineers to efficiently carry out operational tasks. This partnership with TCS is key to the success of our digital roadmap. We look forward to achieving more success with them.”*

## ***Trimble Sets New Standard for Robotic Total Station Scalability***

20 September 2022

Trimble introduced the latest addition to its portfolio of innovative robotic total stations—the Trimble® Ri. The instrument’s flexibility and upgradeability makes high-end total station technology more accessible and sets a new scalability standard for use across the construction industry.

Offered in multiple configurations to meet a diverse set of workflows, the Trimble Ri is ideal for MEP, concrete, steel and general contractors. The base units can be scaled remotely via annual subscription licensing packages and software customization.

The Trimble Ri is built on the company’s decades of field-proven experience developing and producing robotic total stations. Easy to operate with extended layout capabilities, the total station provides longer laser range, focusable EDM, eye-safe laser pointer and improved target tracking. Leveraging Trimble FieldLink software on a tablet or FieldLink MR on a Trimble XR10 for Mixed Reality, users can control and automate their workflow with improved accuracy and visibility. With Trimble VISION™ technology, integrated digital cameras, the instrument can be controlled from anywhere on the jobsite and allows for quick and accurate target detection and lock. In addition, the self-calibration feature performs automatic calibrations as required and reduces the need to send the total station in for service.

“The new Trimble Ri sets a new standard for optical positioning solutions for the construction field worker. To date, no other supplier has introduced this type of robotic total station flexibility in the market. It is an exciting way for our customers to purchase and utilize the solution, which can be more aligned with their project-based business needs,” said Martin Holmgren, general manager, Trimble Building Construction.

### **Availability**

The Trimble Ri Total Station is available now worldwide through Trimble’s Building Construction distribution channels.

## ***BT and Atos join forces on new ‘Digital Vision’ offering as part of a multi-million pound partnership***

15 September 2022

As part of a multi-million pound partnership, BT and Atos today launch Digital Vision — a new computer vision solution that will help revolutionise industries, including manufacturing and logistics among others.

Computer vision is a field of artificial intelligence (AI) that enables computers and systems to interpret information from digital images, videos and other visual feeds (including live video streams from a fixed camera or a moving drone) and take automated actions or make recommendations based on the information.

Digital Vision will combine BT’s leading digital connectivity with Atos’s Computer Vision Platform, a scalable end-to-end solution, providing pre-trained & customizable AI models developed by more than 300 computer vision experts in labs around the world.

AI video and image analysis is used industry-wide in applications such as transport safety and traffic monitoring, quality control in manufacturing, and location tracking. The joint BT-Atos solution will improve security and monitoring for customers by enabling effective, real-time use of video and image data.

# CIMdata PLM Industry Summary

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Digital Vision will use BT's 5G/FTTx multi-access connectivity and edge computing. This ensures business customers receive a scalable, ready-to-deploy service with round-the-clock support and expertise.

The partnership comes after BT recently announced it was investing almost £100 million over the next three years in its 'Division X' unit to accelerate the development of customer solutions which integrate emerging technologies like 5G, IoT, Edge Compute, Cloud and AI.

**Marc Overton, Managing Director for Division X, part of BT's Enterprise unit, said:** "This partnership with Atos gives us access to the Computer Vision market for the first time, providing us the opportunity to play an even bigger role in the digital transformation of businesses around the world.

"Working together, we have been able to combine our skillsets to create an innovative platform that provides a host of potential use cases for facilities such as smart ports and transport hubs, to retail and fuel forecourts, to manufacturers. Utilising cutting edge technologies such as 5G, AI and edge computing, this new platform is linked to our wide partnership with Atos and we see huge potential for growth in this space over the next few years.

"Not only will businesses be able to better leverage their video stream data, improve their operational efficiency and enhance their monitoring, but they will also be able to mitigate risk, increase revenue through data monetisation, unlock new applications and open new channels to market."

**Jean-Claude Geha, Global Head of Telecom, Media & Technology at Atos commented:** "As our clients are going through their digital transformation, they need the right and best digital services to accelerate the next step of their journey. As a global leader in digital transformation, Atos plays an essential role in co-developing innovative use cases with CSP (Communications Services Provider) for real-time businesses, thanks to its extensive knowledge of Edge and AI technologies and its deep expertise in system integration. We are excited to work, once again, with BT to unlock new capabilities for the Enterprise market where BT is seeking to offer much needed Vertical Digital use cases to increase efficiency, boost productivity, and to improve business opportunities and customer experience."

BT and Atos have a long-standing relationship with a major outsourcing agreement signed in 2013 and extended in March 2022 until 2026. BT provides Atos with network and communication services to connect its own operations as well as network infrastructure and service to support its customers. Earlier this year, the companies expanded their relationship to co-develop solutions with a focus on sustainability that will combine BT's capabilities in secure connectivity and infrastructure, including private 5G and edge computing, with Atos' digital expertise in sectors such as manufacturing.

## ***Norbec Partners with BIMsmith to Launch New BIM Tools for Architects and Designers***

19 September 2022

Norbec, a North American manufacturer of prefabricated walk-in coolers, freezers, doors, and insulated metal panels, has announced a partnership with BIMsmith, the leading product research platform for building professionals, for the development of new Building Information Modeling (BIM) tools for architects, engineers, and other construction professionals.

The partnership involves the creation of data-rich digital models of Norbec products that integrate seamlessly with BIM design software used by building professionals globally. Each product model contains key data representing both geometric and performance capabilities of each product, allowing for highly accurate early-stage design. The digital models are designed to integrate natively with Autodesk Revit, the leading architectural design software worldwide.

# CIMdata PLM Industry Summary

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The partnership also places Norbec products in front of a global audience of building design professionals on BIMsmith Market, the leading cloud platform used by architects and engineers to conduct building product research.

“For more than 40 years, Norbec has been providing our customers with innovative solutions that help them achieve their design goals,” said Laurence Roy, Marketing Manager at Norbec. “Our partnership with BIMsmith is another way for us to continue to support building professionals in every step of their journey.”

“Finding materials that are both resilient and energy-efficient is essential in the practice of architecture and design,” said Benjamin Glunz, CEO at BIMsmith. “Norbec provides that and more with tailor-made solutions that are able to meet the needs of projects around the world.”

## ***BETA CAE Systems announces the release of the v22.1.4 of its software suite***

21 September 2022

### **About this release**

We are glad to announce the release of v22.1.4. Offering numerous enhancements and adjustments on recently tracked issues, this version is addressed towards those who have not migrated to the v23.x.x branch.

Follows a selection of the most important items:

Known issues resolved in ANSA

Known issues resolved in EPILYSIS

Known issues resolved in META

Known issues resolved in KOMVOS

Compatibility and Supported Platforms

Download

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### **Known issues resolved in ANSA**

#### General

Significant performance and memory footprint when Focus-related functionality, such as Near, is applied on solid elements.

The opening an ANSA database with rigid elements, defined on nodes, connecting more than 100000 nodes, has been accelerated and reverted to normal time and performance execution.

#### Connections & Assembly

The selection of Connectivity entities in Connection Manager list would take excessive time, due to the large number of User Attributes.

#### Compare

Unexpected termination might occur, when copying mesh between two models via the Apply Mesh function.

#### Data Management

Opening the Subsystems tab in DM Browser would unreasonably take more time than expected, when more than 1000 Interface Attributes were referenced by the DM Objects.

#### IGA

# CIMdata PLM Industry Summary

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The process Model Browser > DM > Save in DM would result in a corrupted database in case the model contained \*ELEMENT\_SHELL\_NURBS\_PATCH keywords.

## Decks

Occasionally, the output of LS-DYNA main file through an Includes configuration within Includes Manager would add an empty line after specific keywords, like the \*PARAMETERS or \*TITLE.

Abaqus NON-STRUCTURAL MASS would wrongly be exported if MASS was zero or blank.

Reference of Radioss /GRSHEL/SHEL/ would be erroneously output, when used by a /SECT.

## Scripting

The function utils.DeckInfo() would erroneously print the text "ID of Element with max value" instead of "ID of Element with min value" for CSV format.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **Known issues resolved in EPILYSIS**

### SuperElements

Unexpected termination would occur during SuperElement creation, in case of an empty OSET.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **New Documentation in META**

### Command Line arguments

The -s -foregr <session\_filename > is again a valid syntax for META command line arguments. In prior versions, this combination would provoke communication problems between META and optimizers that provide a META node in their workflows.

### Read Results

META would unexpectedly terminate on Windows OS, while reading .op2 plot results.

## Decks

In Pam-Crash, Time History nodal results curves were occasionally not interpreted correctly.

Upon reading geometry from Radioss, in some cases, transformation was not applied on beam elements.

Initial temperature values defined with parameters were not read properly during Abaqus Input.

LS-DYNA Nodal Rigid Bodies were not read from keyword files that use the i10 format.

## States & Animation

Backward animation through the Page Up key was not synchronized among multiple active models.

## NVH Calculators

In FRF Assembly, creation of large tables via command would unreasonably take excessive time.

In Modal Response, when modal matrices were used in FSI and the viscous damping was taken from the modes' list, time integration would not produce correct results.

## Curve Functions

Reading and plotting scalar results from model entities would lead to unexpected termination.

## Report

# CIMdata PLM Industry Summary

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Drag and drop of a 2d plot into the Report Composer would sometimes result in a black image.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **New Documentation in KOMVOS**

### Design Variables

Group predictions of 3D results would fail to create a correct META project, containing the prediction.

For more details about the new software features, enhancements and corrections please, refer to the Release Notes document.

## **Compatibility and Supported Platforms**

ANSA files saved by all the first and second point releases of a major version are compatible to each other. New major versions can read files saved by previous ones but not vice versa.

META Project files saved from version 22.1.3 are compatible and can be opened by META version 16.0.0 or later.

Support for Mac OS has been discontinued.

Support for 32-bit platforms has been discontinued for all operating systems.

## **Download**

### Where to download from

Customers who are served directly by BETA CAE Systems, or its subsidiaries, may download the new software, examples and documentation from their account on our server. They can access their account through the "sign in" link on our website.

Contact us if you miss your account details. The Downloads menu items give you access to the public downloads.

Customers who are served by a local business agent should contact the local support channel for software distribution details.

### What to download

All files required for the installation of this version reside in the folders named "**BETA\_CAE\_Systems\_v22.1.4**" and are dated as of **September 21, 2022**. These files should replace any pre-releases or other files downloaded prior to that date.

The distribution of this version of our pre- and post-processing suite is packaged in one, single, unified installation file, that invokes the respective installer and guides the procedure for the installation of the required components.

For the installation of the software on each platform type, download from the respective folders, the .sh file for Linux or the .msi file for Windows.

In addition to the above, optionally, the META Viewer is available to be downloaded for each supported platform. The tutorials and the example files reside in the folder named "TUTORIALS". This folder includes the complete package of the tutorials and example files, and a package with only the updated ones.

The Abaqus libraries required for the post-processing of Abaqus .odb files are included in the installation package and can be optionally unpacked.

Earlier software releases are also available in the sub-directory called "Previous\_Versions" or in a folder named after the product and version number.

## ***Altair Announces Release of Simulation 2022.1 Software Update***

19 September 2022

Altair, a global leader in computational science and artificial intelligence (AI), announced the latest updates to its simulation portfolio, Simulation 2022.1. These updates enable more efficient, innovative products by applying advanced simulation, cloud-based computing, and optimization for cleaner, more sustainable product lifecycles. Simulation 2022.1 helps companies meet corporate social responsibility (CSR) objectives, drive better, earlier design decisions, and brings the power of open-source technology to users around the world.

### **Transforming Sustainable Product Design**

Simulation 2022.1 brings a variety of updates that bolster Altair's sustainable product design capabilities. Updates to Altair Material Data Center, OptiStruct, Multiscale Designer, HyperWorks, and SimLab will help companies meet their lightweighting objectives, design requirements, budget constraints, and regulatory requirements. These updates also bolster Altair's topology optimization, lightweighting, design certification, and high-performance computing (HPC) capabilities, allowing users to save resources, scale workloads, and reduce project complexity as they design greener, more sustainable products.

### **Drive Better-Informed Decisions Earlier**

Simulation 2022.1 also helps users apply simulation earlier in design lifecycles so they can reduce errors, save time and money, and access tools in a seamless, connected environment. In this update, enhancements have been introduced to Altair Inspire for an improved design creation and optimization experience, as well as updates to Altair SimSolid for lightning-quick simulation, reviewing design scenarios, and parametric modeling upgrades.

Additionally, this update enriches Altair's modeling and visualization capabilities. A new HyperWorks workflow streamlines the process of building a reduced order model for early conceptual optimization. Simulation 2022.1 lets users simplify models and perform topology optimization with quicker turnaround times, facilitating more design studies. Simulation 2022.1 also strengthens model interpretation with 1D inflation capabilities.

### **Expanding the Power of Open-Source Technology**

For more than 30 years, the world's top industrial, research and development, and educational organizations have employed Altair Radioss to solve complex linear and nonlinear engineering problems. Now, Radioss is available as an open-source solver – called OpenRadioss – that will bring together a worldwide community of experts and users to make the world a safer, greener place.

Additionally, Simulation 2022.1 brings additional open-source updates. Within the new UI Designer toolkit in Inspire, users can assemble designs with predefined objects, modify, and save designs as a Python code skeleton that can be further developed.

Lastly, the latest update encourages users to take advantage of Altair Exchange, a collaborative forum where users can utilize shared spaces for fine-tuning models, finding better scripts, optimizing virtual workspaces and workflows, and more.

## ***Siemens – What’s new in Xpedition Enterprise release VX.2.12***

19 September 2022

David Wiens announced the updated features in the new Siemens Xpedition Enterprise release.

Improvements have been made to the following key areas: Design Capture; Layout; Library and Data Management; Verification. Read the full blog post for the details.

<https://blogs.sw.siemens.com/xpedition/2022/09/19/whats-new-in-xpedition-enterprise-release-vx-2-12/>