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## CIMdata News

### ***CIMdata Announces its 2022 PLM Market & Industry Forum Series***

17 December 2021

CIMdata, Inc., the leading global Product Lifecycle Management (PLM) consulting and research firm, announces its 2022 PLM Market & Industry Forum schedule and theme.

The theme for 2022 is “Sustainability: PLM Essential to Facing this Global Challenge.” Sustainability has gone from one of many topics in corporate social responsibility (CSR) programs to a global imperative, and PLM is essential to a systemic response. Leading PLM software and service providers define the needed metrics, measurement approaches, and enabling technology for their industrial clients. Those clients are pushing toward the “triple bottom line,” assessing CSR efforts based on impacts on people, the planet, and profit. In this Forum, CIMdata will highlight the issues and focus on how the global PLM Economy is responding and how well their industrial clients are achieving their sustainability objectives.

For 2022, we plan to host four Forums. The first will occur in Ann Arbor, MI, USA, as a one-day, in-person event at the end of March. This event will be followed in early April by three virtual-live events covering EMEA, China, and Japan geographies.

According to Stan Przybylinski, CIMdata’s Vice President, “Sustainability has gone from a small part of a company’s corporate social responsibility (CSR) program to a strategic imperative. While sustainability objectives can be quite broad, the PLM Economy and the products and services it can provide are critical to most aspects facing industrial firms today. The Forum this year focuses on the Sustainability Imperative and how firms are adapting to this new normal.”

We will cover the following topics:

- The current state of PLM – market and leading trends
- PLM global market analysis for the 2021 calendar year
- The sustainability imperative
- Sustainability and PLM
- Enabling sustainability in the PLM economy

The agenda will also consider several key enabling technologies that support Industry 4.0, including;

- The Multi-View BOM
- Enterprise Application Architecture

For more information on the agenda, please visit <https://www.cimdata.com/en/education/plm-market-industry-forums/north-american-plm-market-industry-forum-agenda>.

Participants will gain a solid understanding of the current and emerging PLM market, the dynamics impacting it, and the expectations for its continued evolution. Attendees will also learn more about opportunities and approaches to navigate the PLM Economy in the year to come.

To learn more or register for a 2022 PLM Market & Industry Forum event, please go to <https://cimdata.com/en/education/plm-market-industry-forums>.

## Acquisitions

### ***Accenture Announces Intent to Acquire AFD.TECH to Bolster its Cloud First Network Capabilities***

15 December 2021

Accenture has announced its intent to acquire AFD.TECH, an independent network services company specializing in network engineering, operations and business services. Financial terms of the transaction are not being disclosed.

This acquisition would add more than 1,600 highly skilled professionals to Accenture globally, along with multidisciplinary capabilities across engineering, design, deployment, and operation of next generation networks, such as 5G and fiber.

“The combination of latest technologies such as 5G, cloud and next generation IoT is transforming the way businesses are operating across all the industries by creating opportunities for innovative services and new sources of growth,” said Olivier Girard, market unit lead for Accenture in France & Benelux. “To succeed in their digital transformation and take advantage of its full potential, companies must act now to adopt the right strategy and build new business solutions enabled by network investments. This acquisition would give us a significant footprint in advanced mobile and enterprise networks.”

The newly acquired expertise when combined with Accenture’s Cloud First capabilities would provide a broad spectrum of proven practices, operational excellence and human ingenuity to help clients drive comprehensive transformation across their disparate networks.

Karthik Narain, global lead, Accenture Cloud First, said: “Most networks were not built for today’s highly distributed world of cloud, edge devices and remote work. Increasingly, companies will need to invest in modern networks that seamlessly connect across the dynamic capabilities of the cloud continuum — from public through edge and everything in between. AFD.TECH’s network operations and IT capabilities, as well as its deep industry knowledge, would complement Accenture’s cloud, edge computing, security, and network capabilities to help clients shape, build and operate cloud-first networks.”

Founded in 1998, AFD.TECH serves leading telecom brands and clients across various other industries, including energy, industrial, infrastructure and life sciences sectors. The company is based in France with additional offices in Belgium and Morocco.

“Combining our strengths with Accenture would allow us to leverage the potential offered by the latest technologies and to allow an even-broader client base, both existing and future, to grasp the full potential of the range of new services that will be generated by the deep transformation across nearly every industry and market in the next five years. The opportunity to join Accenture would allow us to scale capabilities and enable tremendous opportunity for our clients, our company and our people.

Together, we would help clients adapt their operating model, expand the skills of their people and drive innovation to unlock the full potential of 5G.” said Jérôme Picard, co-founder and CEO of AFD.TECH.

The acquisition of AFD.TECH would strengthen Accenture’s network operations capabilities in Europe and follows Accenture’s acquisition of Arca last November and of umlaut in October 2021.

The acquisition requires prior consultation with the relevant works councils and would be subject to customary closing conditions.

## ***Altair Acquires World Programming to Advance Organizations' Digital Transformation***

15 December 2021

Altair, the global leader converging simulation, HPC, and AI, acquired World Programming, a UK-based technology company specializing in data analytics software used by many of the world's leading companies including financial services and insurance organizations. World Programming's platform supports development and execution of multi-language software solutions leveraging popular languages used in data science including Python, R, and the SAS language in a single program.

"We are excited to integrate World Programming's exceptional team and technology into Altair and see this acquisition as a significant opportunity to help companies transition to hybrid architectures using modern, open technologies and languages while preserving, protecting, and leveraging the best elements of existing technology such as the SAS language," said James R. Scapa, founder and chief executive officer of Altair. "We believe World Programming's solutions are highly advanced and proven to help customers compile and execute millions of models built using the SAS language while embracing modern languages and open-source technologies, allowing them to respond faster to market demands and gain new insights."

World Programming brings a customer base of approximately 500 enterprise customers worldwide. As organizations increasingly seek open-source solutions to accelerate their big data initiatives and embrace a more modern and flexible environment, the acquisition of World Programming will strengthen Altair's foothold in several industries including financial services, insurance, healthcare, manufacturing, asset management, telecommunications, retail, energy, and consumer products.

The acquisition includes World Programming's flagship product, WPS Analytics, which is backed by more than two decades of experience and developed to meet the increasing use of open-source languages. WPS Analytics is a powerful and versatile software platform for scalable data manipulation and analytics, with several notable features including:

- Ability to run programs written in SAS language syntax without the need to install any third-party products
- Fully integrated SAS language support
- Support for SQL, Python, R, and Hadoop and for exchanging data, all inside a single program
- Advanced math, statistics, and machine learning algorithms
- Ability to access multiple data sources including big data, cloud, and mainframe
- Ability to use standalone or with enterprise management facilities including data access control and model deployment to on-demand APIs
- Flexible deployment to link on-premises, mainframe, and cloud environments

"Customers want choice and integrating with Altair – an organization with a trusted and reliable open-architecture philosophy – will give users easy access to technologies in a flexible and intuitive environment," said Oliver Robinson, chief executive officer, World Programming. "Altair will help to accelerate access to our solutions as we converge the modern world of best-in-class open-source technologies with the ability to support decades of investment in the SAS language."

World Programming's software will be integrated into Altair's data analytics solutions suite and available via Altair Units, which gives customers easy access to Altair's entire portfolio of software solutions.

## ***Autodesk to Acquire Cloud Based Estimating Company ProEst***

16 December 2021

Autodesk, Inc. announced that it is acquiring ProEst, a cloud-based estimating solution that enables construction teams to create estimates, perform digital takeoffs, generate detailed reports and proposals and manage bid-day processes. Autodesk plans to integrate ProEst with Autodesk Construction Cloud, a comprehensive construction management platform connecting teams, data and workflows across the entire building lifecycle. The acquisition will strengthen Autodesk Construction Cloud's preconstruction offerings and empower construction teams to manage all their critical preconstruction and construction workflows on one platform.

ProEst, whose customers include Geisinger, O'Brien Construction, Vantis and Oswald, translates project scope quickly and easily, turning drawings, specifications and models into material, labor and equipment costs. As a result, teams are not only able to supercharge the estimation process and build stronger bids, but also minimize project risks and heighten their chances of winning work. With ProEst's cloud-based solution, customers can also access estimating information from anywhere, at any time, and import third-party cost databases to streamline estimation workflows. The acquisition of ProEst will complement Autodesk Construction Cloud's best-in-class cost management capabilities and allow teams to track costs against estimates and provide greater visibility to increase the probability of project success.

"We pride ourselves on delivering quality projects safely, within budget and in a timely manner," said Luis Berumen, vice president of innovation and technology, Bartlett Cocke General Contractors.

"Autodesk Construction Cloud helps us manage our projects by enhancing collaboration across various phases and workflows and adding ProEst's cloud-based estimating capabilities to the mix will further our ability to deliver quality projects efficiently."

"ProEst enables us to produce estimates faster, consistently and more accurately throughout the design process and in collaboration with our partners, thereby improving overall efficiency" said Manny Innamorato, chief information officer, New York City School Construction Authority. "As a public entity, our mission is to build and modernize New York City's schools in a responsible, cost-effective manner while still achieving the highest standards of excellence in safety, quality and integrity. With Autodesk Construction Cloud and ProEst now joining forces, we look forward to connecting our estimation data more seamlessly with our downstream construction workflows so we can stay on track and deliver on our mission in a more streamlined manner."

ProEst will join Autodesk Construction Cloud's existing portfolio of solutions, further enabling teams to reduce rework, improve productivity, increase automation and accelerate project delivery. Autodesk Construction Cloud solutions include:

- **Autodesk Takeoff:** empowers estimators to perform 2D and 3D quantification workflows.
- **Autodesk BIM Collaborate:** enables project teams to align on and execute design intent by managing design collaboration and coordination workflows from a single solution.
- **Autodesk Build:** connects project, cost, quality, safety and field collaboration workflows in a solution that is easy to deploy, adopt and use.
- **BuildingConnected:** centralizes and streamlines the bidding process to help teams discover trade partners, identify the right subcontractors and solicit and compare bids. BuildingConnected is

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Autodesk Construction Cloud's builders network, featuring over one million construction professionals. The solution also encompasses TradeTapp, which uses machine learning and AI technology to qualify contractors and mitigate project risk.

"Estimation significantly impacts downstream construction workflows, but is often a disconnected and manual process, which creates room for errors that can lead to cost and schedule issues later in a project lifecycle," said Jim Lynch, senior vice president and general manager of Autodesk Construction Solutions. "Our acquisition of ProEst will allow construction teams to connect accurate estimates with the rest of their project data to minimize the risk of cost and schedule overruns and drive successful project outcomes. ProEst shares our vision for digital transformation in construction and we look forward to bringing their leading estimating solution to Autodesk Construction Cloud."

"Our goal has always been to reimagine the construction estimating process and offer the most advanced functionality possible," said Jeff Gerardi, ProEst founder and CEO. "We have enabled teams to move away from paper documents and spreadsheets and, thanks to our cloud-based platform, break down on-premise software silos with seamless integration. Autodesk's vision of connecting construction from end to end is one we fully believe in, and we're excited to join an outstanding preconstruction offering to deliver on that vision."

In recent years, Autodesk has made significant investments in construction technology innovations, including Aurigo Software's capital planning tools and Bridgit's workforce allocation and resource planning solution. Autodesk also acquired Assemble, BuildingConnected, PlanGrid and Pype in acquisitions totaling more than \$1.1 billion.

## **Business Outlook**

The transaction is subject to customary closing conditions and is expected to close during Autodesk's fourth quarter of fiscal 2022, ending January 31, 2022. The acquisition will have no material impact on Autodesk's fourth quarter and fiscal year 2022 guidance presented on November 23, 2021.

## ***Bentley Systems Announces Seequent's Acquisition of Advanced Resources and Risk Technology (AR2Tech)***

13 December 2021

Bentley Systems, Incorporated, the infrastructure engineering software company, announced that its Seequent business unit has acquired Denver-based Advanced Resources and Risk Technology, LLC (AR2Tech), a developer of geostatistical software applications. The acquisition provides Seequent with state-of-the-art geostatistics algorithms, technology, and IP for complex geospatial problem solving, complementing its geological modeling solutions and workflows, to help solve earth, environmental, and resources challenges.

AR2Tech represents a new generation of geostatistics and spatial data analysis solutions for mining, environmental sciences, and energy. Its state-of-the-art, high-performance algorithms and workflows for cloud and desktop enable users to create and optimize a diverse set of models, even with millions of cells, without performance bottlenecks. AR2Tech's algorithm library can be applied to a wide range of geostatistical modeling and data science methods, supporting functions that are data-centric and rely on machine learning. Solutions can be used stand alone or integrated with other software, including Seequent's Leapfrog 3D geological modeling solutions.

Mining companies use AR2Tech's solutions for geostatistical modeling for conditional simulation and estimation models of complex orebodies, with algorithms customized for specific deposits.

Environmental sciences professionals use customized workflows for data management, spatial

evaluation, and risk assessment, designed for applications including stochastic simulation of the subsurface for water modeling, sampling evaluation and strategy, integration of remote sensing data in the geostatistical model, and characterization of pollutants.

Graham Grant, chief executive officer of Seequent, said, “We’re delighted to welcome to Seequent the elite and talented AR2Tech team in Denver and Brazil. AR2Tech’s technology stack and world-leading expertise in geostatistics, geomodeling, and spatial data integration strengthen Seequent’s capabilities in these areas. The acquisition will help accelerate our development of new geostatistics solutions and create seamless end-to-end workflows with Seequent’s advanced modeling solutions. We’re excited to make this investment for our mining, environmental, civil, and energy users to take geomodeling to the next level.”

AR2Tech founder Dr Alexandre Boucher said, “We’re proud to be joining Seequent and sharing our cloud-first approach to solving geosciences challenges. With Seequent, we will realize our goal of bringing the next generation of geostatistical algorithms to the geomodeling community. We have developed and optimized algorithms for geomodeling for over a decade, including conditional simulations for risk and uncertainty studies. Combining forces with Seequent, we can create new practical and accessible solutions for geoscience professionals.”

## ***Gamma Technologies Acquires Exothermia S.A.***

17 November 2021

Gamma Technologies (GT), a global leader and innovator in integrated multi-physics system simulation software, announced that it has acquired Exothermia, S.A. of Thessaloniki, Greece, producers of predictive thermo-electro-chemical solutions for zero-impact emissions technologies. Exothermia’s suite of exhaust aftertreatment (E.A.T) and powertrain simulation tools complement GT’s product and technology portfolio and solidifies GT’s position as the global leader in full vehicle system simulations, addressing key engineering challenges for battery and fuel cell electric, hybrid electric, and efficient internal combustion vehicles.

Exothermia’s flagship product, Exothermia Suite, is widely adopted by global customers across all segments of the transportation industry. Exothermia has been recognized for their deep expertise in E.A.T research, virtual and physical validation, and has collaborated with OEMs and suppliers to deliver predictive CAE technologies and turnkey solutions with advanced solvers and modern interfaces. Exothermia Suite enables E.A.T engineers with design exploration and feasibility studies, detailed 3D component analysis, durability prediction, development of onboard diagnostics and controls verification in “X”IL environments.

“The transportation industry continues to transform at an unprecedented pace,” remarked Dimple Shah, CEO of GT. “As the industry pivots towards a decarbonized future powered by digitalization, GT is committed to delivering a unified and powertrain-agnostic simulation environment for complete vehicle systems in all stages of product development. Complemented by Exothermia Suite, GT’s product portfolio is at the epicenter of new vehicle development encompassing ICE to full-electric architectures. Driven by our collaborative customer partnerships, we continue to introduce new technologies that enable the compliance of increasingly stringent regulations for emissions and sustainability, and the development of highly efficient and ultra clean powertrains. I am excited to welcome the talented Exothermia team and their pioneering user community to GT as we push forward on our journey to deliver a sustainable future, together.”

“For over two decades, we have been working side by side with our customers exploring ways to increase efficiency and stay ahead of regulatory compliance. With GT’s expertise and industry proven

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platform, a whole new world of possibilities is now open!” remarked Dr. Grigoris Koltsakis, Exothermia’s Scientific Director and Co-Founder. “I am looking forward to teaming up with our GT colleagues and creating innovative virtual product development solutions for emerging vehicle technologies.”

## ***Hawk Ridge Systems Accelerates Growth With Acquisition of DesignPoint***

14 December 2021

Hawk Ridge Systems, a leading global provider of 3D design, manufacturing, and 3D printing solutions, has acquired DesignPoint as part of its strategic initiative to expand services and solutions to customers throughout North America. This represents the fourth acquisition of value-added resellers for Hawk Ridge Systems within the last 12 months.

Hawk Ridge Systems and DesignPoint are both industry leaders and respected solution providers for 3D design and manufacturing solutions. Hawk Ridge Systems had its genesis on the West Coast and Canada and has grown across the Midwest over the past five years. DesignPoint has a strong presence on the East Coast, so together the companies have resources and solutions to support customers across North America.

“Our vision, values and business priorities are aligned,” says Dale Ford, President and CEO of Hawk Ridge Systems. “Hawk Ridge Systems and DesignPoint have been relentlessly focused on bringing value to our customers since we both started in 1996. Not only do we share a common language of customer focus, but we have also been on the same journey with the evolution of our 3D design solutions with our partners at Dassault Systèmes SOLIDWORKS and Markforged.”

John Cioffi, President and CEO from DesignPoint, agrees, “This partnership with Hawk Ridge Systems means we now have access to more resources, more solutions and a depth chart of talent that is unsurpassed in the industry. DesignPoint, at our core, has always been about bringing passion and leading-edge solutions to our customers through our amazing people. With Hawk Ridge Systems, I can simply say that we have the best team in the industry.”

The combined company has 26 offices in the U.S. and Canada, 380 employees and over 33,000 customers.

## ***Nemetschek Brand Maxon Announces Agreement to Acquire the Assets of Digital Sculpting and Painting Software Developer Pixologic***

15 December 2021

The Nemetschek Group, one of the leading software providers for the construction and media & entertainment industries, announced that its subsidiary Maxon has entered into a definitive agreement to acquire the assets of Pixologic, Inc. The developers of ZBrush – an industry-leading and Academy-Award-winning digital sculpting and painting software – have a large global customer base comprising of film studios, game developers, designers, advertisers, illustrators, and scientists.

“ZBrush is an industry leading 3D sculpting and painting solution for the most respected companies and artists in the world,” says David McGavran, CEO of Maxon. “We are thrilled to bring this product and the innovative team who created it to our Maxon family.”

“This is an exciting move for Maxon and its customers. ZBrush empowers artists to create stunning imagery with intuitive tools that inspire creativity and provide complete artistic control,” says Dr. Axel Kaufmann, CFO and spokesman of the Nemetschek Group. “Joining forces with Maxon, who are

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known for their powerful creative solutions, will generate enormous new possibilities for creative designers and artists.”

The industry’s top creatives have employed ZBrush for renowned projects including Dune, Star Wars, Avatar, Game of Thrones and more. This transaction is subject to customary regulatory approval that is expected in the next few weeks. On this basis, a more detailed roadmap will be published in early 2022. Until the transaction closes, each company will continue to operate independently.

## ***Trimble Acquires AgileAssets to Expand its Infrastructure Software Solutions Portfolio***

15 December 2021

Trimble announced it has acquired AgileAssets, a provider of enterprise infrastructure asset management software to private organizations and government, including national road authorities and state-level transportation agencies in the United States. AgileAssets’ powerful Software-as-a-Service (SaaS) asset management solutions provide organizations with advanced analytics for real-time decision making as well as insights for efficiently managing day-to-day maintenance operations. AgileAssets’ solutions address the global challenges associated with maintaining and replacing aging transportation infrastructure. Financial terms were not disclosed.

AgileAssets provides organizations managing roads, bridges, airports and rail assets with SaaS solutions to better plan, operate and report on assets across the lifecycle. For example, using real-time inspection data and advanced analytics capabilities provides insight and intelligence to make more informed decisions on how to maintain or reconstruct vital infrastructure. To date, AgileAssets has helped infrastructure asset owners to maintain approximately 55 percent of state and highway roads (approximately 2.8 million lane miles) and 357,000 U.S. bridges.

With the passage of the Infrastructure Investment and Jobs Act (IIJA) and other infrastructure legislation across the globe, owners are investing in digital transformation to better manage the full lifecycle of their assets from design to build to operation. The adoption of the Digital Twin—a virtual 3D model designed to accurately reflect a physical object—is transforming construction and asset operations. The addition of AgileAssets to Trimble’s platform will add “as-designed” and “as-built” data to the 3D model for the maintenance and improvement phases. Availability of this data within the model creates a robust Digital Twin for owners throughout the asset lifecycle. This solution allows an owner to track the transportation asset through its full lifecycle, which provides greater predictability, sustainability and lower lifetime asset costs.

"AgileAssets is a pioneer in developing software to address the challenges associated with managing and maintaining aging, critical infrastructure," said Shelly Nooner, general manager, Trimble’s Civil Design and Engineering Division. "Trimble has a long history of transforming industries by providing full solutions that help customers survey, design, construct and assess infrastructure at scale. With AgileAssets, we now expand our civil infrastructure solutions portfolio to include managing and optimizing the performance and sustainability of our customer’s assets across the entire lifecycle. It is an exciting time in infrastructure. Trimble and AgileAssets together create a powerful combination to advance technology adoption and will allow owners to realize the full potential of digital as-builts through the entire asset lifecycle.”

“We’re excited to join the Trimble ecosystem. Trimble is an ideal match for AgileAssets and our work to bring intelligent analytics and maintenance solutions to enterprise infrastructure owners,” said Stuart Hudson, CEO of AgileAssets. “AgileAssets’ integration with Trimble will accelerate our intelligent infrastructure asset management approach and allow us to increase the impact and value our solutions

deliver to customers. The combination of Trimble's construction modeling technology with our asset lifecycle solution will provide our customers with an elegant end-to-end, highly visual, interactive platform for all of their infrastructure management needs."

AgileAssets will be reported as part of Trimble's Buildings and Infrastructure segment.

## Company News

### ***Agiloft announces partnership with TCS to help enterprises accelerate the automation of complex contracting processes***

14 December 2021

Agiloft, the global standard in no-code contract lifecycle management (CLM), announced the addition of Tata Consultancy Services (TCS) as a partner to empower customers with enterprise implementations of Agiloft contract lifecycle management (CLM) to automate their most complex contracting processes.

TCS, a leading global IT services, consulting, and business solutions organization, is partnering with Agiloft to provide agile solutions for organizations building on or transitioning to electronic document management and digital automation of their contract and commercial workflows.

"TCS is an excellent addition to our network of partners," said Elisabeth Bykoff, VP of Agiloft's Global Alliances. "Their level of experience with large scale and highly complex projects will help ensure client success, while their global scale of skilled professionals will help enable Agiloft to continue its aggressive growth and empower more customers with our CLM platform. Agiloft is fully committed to customer success and satisfaction, and we are confident that TCS will be a key partner in achieving results and value to help us fulfill that commitment."

Akhilesh Tiwari, VP and Global Head of Enterprise Application Services at TCS, said, "Paired with wide-reaching industry expertise, our deep technical knowledge, and global capability, this partnership will enable us to help clients transform their contracting processes faster with automation and greater agility. With its robust AI capabilities and configurability, Agiloft offers a clear path to a powerful and cost-effective business solution."

Agiloft's Global Partner Program serves companies across six continents and has been growing exponentially since its relaunch at the end of 2020.

### ***Airtel and Capgemini to collaborate on 5G-based solutions for Enterprises***

14 December 2021

Bharti Airtel ("Airtel"), India's premier communications and solutions provider, and Capgemini announced that they will collaborate on bringing 5G-based enterprise grade solutions to the India market.

Airtel and Capgemini will bring together their experience in connectivity and 5G solutioning, and System Integration (SI) capabilities, to co-innovate a range of India-focused use cases. Capgemini's 5G Lab, situated within its Mumbai campus, and Airtel's 5G Lab in Manesar will be the development hubs.

Two 5G use cases have already been deployed by Capgemini at Airtel's 5G Lab. These are focused on Smart Health and Immersive Remote Assistance for Field Operations and Maintenance. These use case solutions leverage computer vision, video analytics, augmented reality and AI/ML technologies.

Ananth Chandramouli, Managing Director of the India Business Unit, Capgemini said: "Our

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*partnership with Airtel is truly a game changer for both of us and has the potential to disrupt the market dynamics. Through this partnership, our focus will be on enabling enterprises to leverage the benefits of 5G technology and identifying exciting new use cases to fuel innovation, revolutionize business models and accelerate digital transformation.”*

Ganesh Lakshminarayanan, CEO – Enterprise Business, Airtel Business said, “*Airtel has been leading 5G testing and validation in India and looks forward to building an open and vibrant ecosystem that brings together all stakeholders and drives innovation. Through this partnership with Capgemini, we look forward to offering our customers cutting edge solutions, which deliver the benefits of the 5G technology.”*

As part of its #5GforBusiness initiative, Airtel is joining forces with leading global consulting and technology companies to test 5G-based solutions. Earlier this year Airtel demonstrated India’s first 5G experience over a LIVE 4G network. It has also demonstrated India’s first rural 5G trial as well as the first cloud gaming experience on 5G. Airtel is also spearheading the O-RAN Alliance initiatives in India

## ***Carma Joins the Autodesk Developer Network***

14 December 2021

Carma announced that it has joined the Autodesk Developer Network (ADN). Carma is also releasing a new feature directly integrating the AutoCAD DWG visualization of data center floorspace and electrical power distribution to inventory, service, and customer data stored within Carma.

Carma’s new feature leverages the power of DWG drawings and the commercial and operational state of digital infrastructure assets to provide sales, operations, and engineering teams unparalleled situational awareness for daily functions. The feature allows users to leverage a manufacturer’s DWG stencils of equipment to create scale drawings of the physical floorspace and operationalizes a site’s electrical distribution drawings for users to understand the real-time status of the electrical components.

Carma uses Autodesk’s cloud services on the Forge platform to eliminate the manual entry required to implement competing Data Center Infrastructure Management (DCIM) applications. Instead, Carma provides scale measurements of distance and area for quoting directly from the management-, permitting-, and engineering-approved drawings without degrading the quality of the source data.

“We already provide the most powerful and comprehensive set of CRM, OSS, and BSS capabilities to telecoms looking to reduce IT cost and complexity,” said Carma Chief Executive Frank McDermott. “Now, deep collaboration with market leaders like Autodesk allow us to make data center asset management faster and easier for our network and data center customers while continuing to help them scale their businesses.”

ADN was created for software developers seeking proven tools and technologies to extend Autodesk products and technologies by allowing developers to leverage Autodesk's large investments and expertise in design, engineering, and media and entertainment platform technologies. The new partnership provides application programming interface (API) access to Autodesk's industry leading AutoCAD software and DWG file format for Carma users at zero additional cost.

Carma’s robust, SaaS-based Network & Digital Infrastructure (NDI) platform is a telecom industry-focused solution that aggregates more than 20 different functions into a single system that combines traditionally disjointed silos like space, power, interconnection, conduit, fiber, impact analysis, and customer communication. The addition of AutoCAD and other Autodesk APIs are the latest enhancements to the NDI offering, shortening the distance valuable data has to travel and providing

additional value to users.

Carma is available via Microsoft AppSource with the underlying Microsoft licenses embedded; the complete licensing experience is managed natively through the Microsoft 365 Admin Center. Every Carma user uses a single Microsoft Dataverse environment across departments and perspectives to unify situational awareness of their businesses.

## ***Dassault Systèmes and NTT Communications Announce Alliance for Sustainable Smart Cities in Japan***

16 December 2021

Dassault Systèmes and NTT Communications announced that they have signed a memorandum of understanding to begin discussions on their alliance aimed to drive the creation and operation of sustainable smart cities in Japan. The two companies will use virtual twin technology and big data to explore solutions to challenges related to sustainability and resilience in multiple domains such as energy, starting with electrification challenges in mobility and other areas, as well as support companies that bring innovative technologies and new value to this sector.

As sustainability regulations grow and urban populations continue to rise, cities today are confronted with complex challenges that require more precise planning, development and management to optimize quality of life for their inhabitants. In parallel, cities and their infrastructure are getting smarter through the increased availability of sensor data.

Under the alliance, Dassault Systèmes and NTT Com will jointly, efficiently and collaboratively execute projects related to buildings, districts, and city management, in which a collaborative platform and virtual twin technologies will be deployed to orchestrate projects on the full value chain, manage sensor data, and simulate energy optimization, among other initiatives. In the future, they plan to expand the scope of their alliance to projects in mobility, tourism and disaster prevention. They will demonstrate their smart city projects at CROSS LAB for Smart City, an innovation hub opened by NTT Com in Japan in April 2021, and aim to work with diverse companies on imagining the smart cities of the future in Japan.

The alliance will rely on the expertise of both companies. Dassault Systèmes' 3DEXPERIENCE platform provides a single virtual environment that enables city stakeholders to collaborate across different domains, and simulate and explore scenarios integrating real-world data in order to test and improve ideas without risk. Dassault Systèmes also works with customers in industries having an increasingly integral role in urban development such as automobile original equipment manufacturers, mobility operators, renewable energy operators and civil engineering providers.

NTT Com develops and delivers its Smart Data Platform for City, a unique city operating system that combines NTT Com's powerful communication technology network and internet of things capabilities to consolidate and analyze big data. It is used to develop optimized solutions for companies and municipal offices.

“The ‘infrastructure and cities’ sector is a strategic sector of the economy that requires new approaches to innovate and create sustainable experiences in areas such as mobility. Our alliance with NTT Com represents Dassault Systèmes' first joint development project on the 3DEXPERIENCE platform with a Japanese company in this sector,” said Florence Verzellen, Executive Vice President, Industry, Marketing & Sustainability, Dassault Systèmes. “NTT Com is one of the biggest players in the IT and telecommunications industry and is successfully advancing city development and smart city projects in Japan. By combining our strengths, we aim to offer a scalable, dynamic smart city platform that helps

cities in Japan address challenges and identify sustainable solutions in a collaborative, virtual way.”

“NTT Com has accumulated a lot of experience in a number of city development and smart city projects,” said Junya Kaga, Smart City Department Deputy Director, NTT Com. “With deep know-how and ICT knowledge of city planning and development areas, we have worked hard on several initiatives, using digital twins, in which we aim to create smarter cities. Aiming to realize such digital twins so that we can return tons of sensor data to actual cities for the purposes of disaster prevention, energy management and transformation optimization, we will continue using and verifying multiple projects using actual smart city fields with Dassault Systèmes, so that we can jointly create new value for smart cities.”

## ***Digital Twins as a Strategic Enabler for Sustainability***

13 December 2021

**Addnode Group launches a campaign on Digital Twins showcasing seven examples from different companies within the group. Each example represents a digital twin solution delivered to key clients with the purpose of realizing efficiency improvements and sustainability strategies. These client projects cover a broad range of industries: from healthcare to infrastructure, smart cities and more.**

Digital Twins are gaining recognition and momentum as a solution for digitally representing a product, a building or even a human being. This approach is enabling new opportunities to improve performance, operations, productivity, or quality of life.

A Digital Twin strategy can be profoundly effective for driving sustainability programs. Digital Twins offer significant benefits when planning, implementing, and realizing:

- Reduced energy consumption
- Reduced waste and switch to more sustainable materials
- Workforce activity optimization – travel, server usage, etc.
- Automation and robotization of hazardous and/ or repetitive tasks to improve working conditions and health.

*“We’re very proud of how Addnode Group companies guide our customers to leverage digital twin technology, to impact sustainability, and ultimately create a better society”*, says Johan Andersson, CEO Addnode Group.

In the late 1980s, the concept of a Digital Twin was created as a tool to aid design in the aerospace and automotive industries. With examples such as smart cities, it was later applied in various industrial areas and is today a key facilitator for driving innovation and services in the public sector. In the coming years, digital twin use is likely to skyrocket. Markets and Markets research estimates an increase in spend from 3.1 billion dollars in 2020 to 48.2 billion dollars in 2026.

### **Addnode Group companies with Digital Twin cases featured in the campaign**

Adtollo	www.adtollo.se	info@adtollo.se
Decerno	www.decerno.se	info@decerno.se
SOKIGO	www.sokigo.com	info@sokigo.com
S-GROUP Solutions	www.sgroup-solutions.se	info@sgroup-solutions.se

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Symetri	www.symetri.com	Info@symetri.com
Tribia	www.tribia.com	info@tribia.com
TECHNIA	www.technia.com	info@technia.com

## **Addnode Group definition of a Digital Twin**

A digital representation of an asset, system, product or creature realized through a system with an objective to simplify management of its lifecycle and operation. Digital twins can be connected and added to each other to manage highly complex scenarios. The digital twin representation can be augmented with additional technologies such as simulation, optimization, and machine learning to realize additional benefits.

## ***DXC Technology Names Kristie Grinnell Senior Vice President and Chief Information Officer***

15 December 2021

DXC Technology, a leading Fortune 500 global technology services provider, has appointed Kristie Grinnell as senior vice president and chief information officer (CIO).

Grinnell, who previously served as global CIO and vice president for supply chain at General Dynamics Information Technology (GDIT), will report to Chris Drumgoole, DXC's executive vice president and chief operating officer (COO). She succeeds Drumgoole, who was promoted to COO in August.

At DXC, Grinnell will lead global IT strategy and operations, responsible for integrating and streamlining systems, implementing new digital capabilities to improve performance and efficiency, and ensuring the stability of DXC's global IT infrastructure, all with the goal of enabling the company to provide superior service and innovation to its customers worldwide.

"We're pleased to add someone with Kristie's experience, skills, integrity and perspectives to our team," Drumgoole said. "In her role, she will set the strategy and oversee the DXC IT Experience team which includes Applications Services, End User Experience, IT Transformation and Enterprise Architecture and Analytics."

As global CIO at GDIT, Grinnell led the transformation enterprise IT strategic plan and IT Shared Services center for customers, along with supply chain management. Prior to that, she was director of planning and governance and director of client delivery enablement for Computer Sciences Corporation, a predecessor of DXC Technology.

Grinnell serves as chair of the Capital CIO Advisory Board and is a member of the STEMforHER Advisory Board.

She earned an MBA degree from Cornell University's Johnson Graduate School of Management and a bachelor's degree from the University of Pittsburgh. A strong supporter of academic STEM programs for young women, she is a recipient of the 2018 Women in Technology STEM Leadership award, Washington Business Journal's 2020 Women Who Mean Business Award, a 2020 Capital CIO of the Year® ORBIE® Award Winner and a 2021 National CIO of the Year® ORBIE® Award Winner.

## ***EON Reality and the Academic College of Tel Aviv–Yaffo Partner for Latest Knowledge Metaverse Hub***

10 December 2021

EON Reality, the global leader in Augmented and Virtual Reality-based knowledge and skills transfer for industry and education, announces a new partnership with the Academic College of Tel Aviv–Yaffo in Israel to bring a campus-wide EON-XR delivery to the institution.

As a nonprofit public institution formed in 1994, the Academic College of Tel Aviv–Yaffo has shown that it's willing to use cutting-edge technology to leapfrog ahead of other schools that have been around considerably longer. This open-minded and eager mentality makes the institution an ideal fit for the latest EON-XR delivery and a promising contributor to the knowledge metaverse. Adding access to world-class XR solutions will enable them to bring their classrooms into the future of interactive teaching, regardless of subject, class size, or the variety of other factors that often impact schooling.

“It is always exciting to work with a new school that is so excited about bringing XR into its classrooms,” said Dan Lejerskar, Founder of EON Reality. “So far, our experience working with the Academic College of Tel Aviv–Yaffo has been nothing but positive, and I truly believe that they understand the future of XR and the knowledge metaverse. I look forward to continuing to grow our relationship with our new brethren in Israel in the coming years.”

With the new EON-XR delivery and welcome to the knowledge metaverse, the Academic College of Tel Aviv–Yaffo's educators will be able to offer “hands-on” training to their students without the usual logistical restrictions in many forms of engineering and vocational studies. By utilizing the technology to teach immersive and interactive lessons using lifelike 3D models, they can provide the best possible academic experience for those on their campus as well as those studying remotely.

As EON Reality's latest partner in the EMEA region, the Academic College of Tel Aviv–Yaffo will not only be important users of EON-XR, but also likely contributors to EON Reality's global network and the knowledge metaverse. In recent months, EON Reality has seen over 70 academic institutions become creators and curators for the growing knowledge metaverse — each creating and sharing experiences based on their own areas of expertise. The long-term hope is that faculty and students of the Academic College of Tel Aviv–Yaffo will provide their own additions once they've adapted to the technology.

“We could not be happier to become a part of the EON Reality family and to set up an EON-XR Center in the hyper-modern metropolis of Tel Aviv-Yaffo, the epicenter of the Start Up Nation,” says Professor Dror Warman, President of the Academic College of Tel Aviv-Yaffo. “We see multiple benefits with the deployment of the EON-XR platform for our students, faculty, and staff. We engage the EON-XR Center with the intention that the center will increase our strength to develop experiential learning, applied research and social commitment within our community.”

## ***HCL Technologies Named a Titanium Partner in Intel Network Builders Winners Circle 2021***

16 December 2021

HCL Technologies (HCL), a leading global technology company, has been named a Titanium level partner by the Intel Network Builders Winner's Circle ecosystem program.

The Intel Network Builders Winners' Circle program engages ecosystem partners to further align the industry to accelerate network innovation. Through continuous collaboration with partners, the program

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promotes solutions across the network space. Intel Network Builders members push optimized solutions to market and deliver tools and documentation to speed up solution deployments.

The program which drives greater technical enablement, has recognized HCL as an industry leader with its go-to-market planning and will help further strengthen HCL's industry's relationship with end users. HCL has received this recognition for its contribution to the acceleration of 5G, edge and virtual network transformation, and by working closely with Intel and the Intel Network Builders ecosystem.

This recognition is viewed by HCL as a validation of its innovation and advancement in creating products and technologies that transform enterprise, service provider, and data center networks, in turn bringing superior performance and intelligence to both the network core and the network edge to help clients drive their business growth. HCL is committed to driving advancement in the networking landscape with Intel as its strategic partner.

"This is a major validation of our larger ecosystem and #HCLCloudSmart strategy, as we build communities of innovation with our partners and collaborate to develop transformative solutions for our clients", said Anand Swamy, Senior Vice President and Head, Tech OEM Ecosystem Business Units, HCL Technologies. "This accolade will further provide us access to industry leading solution providers who work within the Intel Network Builders program and help us optimize our solutions for our clients by leveraging Intel architecture."

"The Winners' Circle Awards program recognizes Intel Network Builders partners that deliver technical innovation and industry leadership," said Keate Despain, Intel Network Builders Director. "In 2022, as the network continues to evolve and transform, we recognize HCL within our Winners' Circle program as a Titanium Level awarded partner for its technical innovation and leadership."

## ***Hexagon's R-evolution expands its sustainability agenda to help protect coastal blue carbon ecosystems***

16 December 2021

Hexagon AB, a global leader in digital reality solutions, announced R-evolution's efforts to map the threatened seagrass meadows of the Caribbean islands, beginning with the coastal waters of the Bahamas. In collaboration with **Beneath The Waves** – a leading, global, non-profit organisation dedicated to protecting marine environments – R-evolution is leveraging Hexagon's airborne bathymetric LiDAR technologies to detect, map and capture critical details about this vital habitat, including its extent and composition.

Blue carbon ecosystems refer to coastal and marine vegetated habitats, such as seagrass meadows, salt marshes, and mangrove forests, that sequester and store carbon from the atmosphere and ocean. These powerful carbon sinks are rapidly disappearing in many parts of the world. Seagrass meadows, the most common among them, are crucial to solving environmental challenges yet remain among the least recognised and least protected ecological habitats.

As part of a long-term shark monitoring project to study and protect the oceans, Beneath The Waves discovered that tiger sharks spend a large portion of their life patrolling and foraging dense seagrass meadows. A combination of sensor tagged sharks, satellite data, marine vessel surveys and scuba divers drove the ongoing discovery and mapping of the extensive seagrass meadows of the Caribbean. But to protect and restore these blue carbon sinks, the findings must be validated with high positional accuracy and datasets that can provide efficient, year-on-year change detection and monitoring.

R-evolution is helping Beneath The Waves validate their findings by deploying survey aircraft geared with one of Hexagon's airborne bathymetric LiDAR solutions, the Leica Chiroptera 4X. The airborne

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bathymetry solution enables the cost-effective, rapid survey of large areas—accurately mapping thousands of square kilometres of seabed habitats at up to 30 metres water depth in just a few days. The high-resolution point clouds and aerial imagery will allow Beneath The Waves to scale up their marine research.

“We have a planetary need to protect and restore our oceans—our biggest life support system harboring more biodiversity than any ecosystem on land,” says Hexagon President and CEO **Ola Rollén**. “The protection and restoration of seagrass meadows can not only improve ocean health and productivity—from purifying water to protecting food chains—but also aid the natural sequestration of massive amounts of carbon, providing major potential for offsetting pollution and reaching net-neutral carbon goals.”

While Hexagon and R-evolution focus on reducing the world’s carbon footprint, both companies continue to bring innovation, cutting-edge technology and corporate leadership to climate change mitigation strategies. By combining the marine expertise of Beneath The Waves with the technological expertise of Hexagon, the collaborative project expects to yield groundbreaking results for blue carbon conservation.

“Hexagon has been a major player in the airborne bathymetric LiDAR industry for many years,” continued Rollén. “R-evolution’s collaboration with Beneath The Waves is an excellent opportunity to deliver on the commitment to helping the world achieve its environmental goals. We are honoured to be a technology partner in this planet-saving research project, which aims to support, preserve and unlock the power of nature to build climate resilience.”

Launched in mid-February 2021, **R-evolution** is Hexagon’s business venture focused on reinventing how industry addresses complex environmental challenges, profitably, using Hexagon’s digital reality solutions. Learn more about R-evolution’s **projects** that accelerate the world’s transition to a sustainable economy.

## ***Infosys Equinox Collaborates with Packable to Help Amplify its Direct to Consumer e-Commerce Offerings for its Brand Partners***

9 December 2021

Infosys, a global leader in next-generation digital services and consulting, announced its collaboration with Packable, a leading e-commerce company with a proprietary tech-enabled offering, sitting at the intersection of brands, marketplaces and customers. Packable recently announced merger with Highland Transcend Partners, setting it on the path to becoming a public company. Through the collaboration with Packable, Infosys will integrate its flagship human-centric digital commerce platform, Infosys Equinox, with Packable IQ (Packable’s proprietary e-commerce platform). The strategic collaboration will strengthen Packable’s ability to offer its brand partners an engaging, innovative, and agile Direct to Consumer platform (D2C): “D2C-in-a-box.”

The proliferation of e-commerce and digital channels means it is increasingly critical for brands to develop and execute innovative D2C strategies to help them win e-commerce shoppers through unique, personalized and innovative customer engagement. Packable – equipped with Infosys’s Equinox’s microservices based, API first, and cloud native design – will be better placed to add greater value to its brand partners via the new D2C-in-a-box offering. Infosys Equinox combined with Packable IQ’s intelligent pricing, consumer transaction data, smart inventory management and extensive fulfillment capabilities will create a highly competitive D2C platform to run and manage a brand’s e-commerce website and operations. It will also enable brands to create curated D2C journeys ready to be launched in

a matter of weeks.

The Infosys Equinox-powered cloud-native D2C platform will bring together the best of Packable and Infosys for brands: Packable IQ along with Infosys Equinox's end-to-end commerce-as-a-service for enterprises, to drive results throughout the purchase lifecycle. The solution will create a repository of complementary and collectively exhaustive services that can be easily integrated with existing core systems or new platforms to deliver headless commerce capabilities coupled with real time analytics and insights on-demand. It will also provide brands with digital advances including conversational commerce, augmented reality, voice and social commerce, enabling them to engage with consumers through rich and hyper-personalized experiences.

**Karmesh Vaswani, Executive Vice President & Global Head Consumer, Retail & Logistics, Infosys**, said, "Our clients are seeking predictive and customized playbooks to win in e-commerce marketplaces. Powerful stories made to stick digitally, smart analytics and algorithms, rich personalized experiences and staying a step ahead of the consumer are key. They also need platform capability to overcome the inertia of mainstream enterprise technology stacks. We are delighted that the Packable-Infosys Equinox strategic collaboration will enable brands with autonomous capabilities to place the right offerings before the right consumer, at the right moment, and at the right price."

**Andrew Vagenas, Chief Executive Officer, Packable**, said, "We're thrilled to partner with Infosys. This exciting partnership marks another milestone in the execution of Packable's strategy of augmenting our D2C platform ecosystem to accelerate brand partners' revenues and profitability across e-commerce channels. As we continue our journey to becoming a public company, we're diligently looking for partnerships to help bring the highest-quality services to customers, and this agreement with Infosys Equinox allows us to do just that."

**Ash Mehra, Chief Information Officer, Packable**, said, "At Packable, we are actively deepening our relationships with brand partners of all stripes, from household name consumer product's companies to Digitally Native Brands. This partnership with Infosys Equinox will enable us to provide even more value additive services to our brand partners, continuing to set them up for success in the age of e-commerce."

## ***LTI Inaugurates New Delivery Center in Hyderabad***

14 December 2021

Larsen & Toubro Infotech, a global technology consulting and digital solutions company has expanded its Hyderabad operations by setting up a new facility in the city.

The 110,000 sq. ft. state-of-the-art Center is designed and equipped to house over 3,000 employees and will support company's global operations. The Center will focus on delivering digital, data, and cloud solutions to global clients. The facility hosts new-age amenities related to the safety, security, and overall wellbeing of employees. Located in the Sky View Campus, Hitech City Main Road, Madhapur, the Center is LEED Gold certified by USGBCS.

Shri K. T. Rama Rao, Honourable Minister of IT, Industries, MA & UD, Government of Telangana, conveyed: "It is our endeavour to consolidate Telangana's position as the preferred destination for technology solution providers and talent. We have backed this resolve by the highest order of ease of doing business, resulting in increased entry of global corporations such as LTI, which in turn augment the overall ecosystem. I congratulate LTI on the launch of this new facility and look forward to more of such milestones in the future."

Nachiket Deshpande, Executive Board Member & COO, LTI commented: "The city of Hyderabad has a

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special place in the global technology space that is further complemented by the vast talent pool and an encouraging support by the government. LTI's new Center in the city will strengthen our operations and play a critical role in our growth aspirations."

LTI also signed a Memorandum of Understanding (MoU) with Indian School of Business, the prestigious business school in Hyderabad, to conduct a research on Digital Readiness. This Digital Readiness Index will serve as a tool to assess the state of digitization in enterprises.

## ***MG AND CONCERT ANNOUNCE PARTNERSHIP***

9 December 2021

MG and CONCERT announce a strategic partnership to facilitate the digital transformation of the AECO industry.

MG is a provider of fully integrated, customizable AEC software solutions. They partner with teams to review, assess, and enhance operations while also providing a wide range of services and support that span all corners of the industry. MG maintains that a well-informed environment around project design, engineering, construction, and lifecycle management leads to intelligent, sustainable, and practical projects for tomorrow's world.

CONCERT allows architects and engineers to digitally sign and seal BIM models and other digital content in an authenticated, immutable, time-stamped ledger using blockchain. Files registered to the CONCERT Digital Exchange are context-rich, identifying user, purpose, and project phase, enabling an automated way to manage construction projects.

"Our partnership with Concert was a natural evolution and extension of our brand.

Our ability to extend our reach more fully, literally from conceptual and schematic design and now for the built world in perpetuity through this authentication punctuates our commitment and loyalty to the industry."

- *Scott Bailey, president of MG*

"The design and construction industry is undergoing a rapid digital conversion. MG has a track record of helping AECO customers navigate this transition and thrive. We are excited that CONCERT will be a part of the MG customer solution.

- *Zach Gentry, CEO of CONCERT*

MG provides AEC customers with comprehensive design and operations consulting.

CONCERT has a critical role in helping architects and contractors share data and manage their projects. Together with unique authoring tools and effective workflows, we can help the industry be more efficient and effective.

## ***NTT DATA Enters a Strategic Collaboration Agreement with AWS To Advance Digital Businesses Using Cloud Services***

16 December 2021

NTT DATA, a global digital business and IT services leader, announced a strategic collaboration with Amazon Web Services (AWS), to support clients' use of cloud services to accelerate their digital transformation (DX). NTT DATA will leverage AWS technical support and other resources to accelerate clients' DX, develop services using cloud technologies from AWS, and pursue human resource development and research and development (R&D).

Moving forward, NTT DATA aims to leverage its proven track record and high delivery capabilities in

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Japan to establish a leading position in digital business together with AWS, advance its business on a global scale, and contribute to business growth for its clients.

## Background

The use of cloud-based systems has accelerated over the years as companies seek to quickly launch digital businesses, reduce the cost of legacy systems, and enhance operational efficiency. The capability to safely and securely utilize the latest technologies is essential. Through this strategic collaboration with AWS, NTT DATA will generate new business opportunities, and strengthen its digital offerings by combining the strengths and expertise of each company.

## Aims and Framework of Collaboration

### **1. Promote clients' introduction to cloud services, and businesses that support clients' acceleration of DX**

As experts in large-scale, mission critical systems with optimal solutions capabilities for clients' digital projects, NTT DATA will strengthen a framework to support clients that consider moving their IT infrastructure to the cloud. This collaboration will combine NTT DATA's accumulated knowledge and experience as an AWS Premier Consulting Partner, with services from AWS as well as technical expertise delivered by the AWS Professional Services Team. The framework will include a comprehensive quality enhancement program as well as a superior level of support for clients, allowing them to select and adopt optimal cloud services that meets their business needs.

### **2. Develop new services by combining both companies' expertise**

The collaboration will also combine NTT DATA's expertise in providing solutions that match clients' business needs with AWS to develop new services.

In addition to expanding collaboration in fields such as data collection, analysis and security on AWS<sup>1</sup>, NTT DATA will also explore utilizing this collaboration framework to develop new services that aim to contribute to solving social issues through clients' business growth.

Further, NTT DATA will make these services available on AWS Marketplace.

### **3. Further strengthen development of personnel with digital expertise, and pursue R&D**

NTT DATA will utilize both online and customized training and other resources provided by AWS to increase the number of AWS certified engineers in the NTT DATA Group from approximately 2,300 (as of August 31, 2021) nationwide, to 5,000 by the end of March 2025. Further, NTT DATA will develop personnel who are able to provide consulting or assist with the cutting-edge technologies, and contribute to clients' efforts on digitization.

Additionally, NTT DATA will also pursue measures to utilize the latest digital technologies and explore new avenues of research and development through this collaboration. The outcome of these efforts will be incorporated into NTT DATA's Altemista<sup>®3</sup> solution suite, an internal standard for creating business value for clients, with the aim of allowing a rapid response to changes in the business environment, with safe and secure system development.

Commenting on the strategic cooperation, Isao Arima, Managing Executive Officer at NTT DATA, said: "Digital transformation (DX) is continuing to accelerate in all types of industries, and utilizing highly agile cloud services has become essential to implement these systems. As a Trusted Global Innovator, NTT DATA is focusing on strengthening its digital capabilities, including cloud services, and developing human resources to support successful DX implementation for clients. We are extremely pleased to be able to strengthen collaboration with AWS, a leader in cloud services, and expect to provide clients with even greater value."

Chris Sullivan, Head of Global Strategic Alliances at AWS commented: "NTT Data joined the Partner

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Network when we were just started in 2012, and for almost a decade has greatly supported our joint Japanese customers across all industries, including finance, public infrastructure, and other enterprises. With this collaboration agreement, we will strengthen our relationship even further and we look forward to many more years of working closely to support our joint customers as they are moving to the cloud."

## ***Oracle Opens First Cloud Region in Italy***

15 December 2021

Oracle announced the opening of its first cloud region in Milan, Italy, to support the increasing cloud computing demands of private and public sector organizations. The Oracle Cloud Milan Region will provide customers and partners access to Oracle Cloud services to drive business growth. Oracle's next-generation cloud is now available in 36 regions worldwide with plans to have at least 44 cloud regions by the end of 2022, continuing one of the fastest expansions of any major cloud provider.

The Milan region is strategically located in the heart of Italy's business and industrial hub, supporting some of Italy's largest public sector organizations and its most important industries including banking, fashion, food and tourism—as well as one of Europe's largest start-up communities. Over half of Italy's industrial and business activity is based in the Lombardy region, which produces almost a quarter of Italy's GDP.

The Milan region strengthens Oracle's extensive network in the European Union, with Frankfurt, Amsterdam, Marseille, and Stockholm already available, and a second region in France and one in Spain planned to open. Oracle Cloud Regions are already available in the UK and Switzerland.

"It is important that we offer organizations access to cloud infrastructure that is located in Italy to manage their most critical data and applications. We currently see significant growth in our cloud business that reflects our customers' desire to rapidly digitize their operations so they can better serve their customers," said Alessandro Ippolito, vice president and country general manager, Oracle Italy. "The Milan region also supports the Italian government's 'Piano Nazionale di Ripresa e Resilienza' (National Plan of Recovery and Resilience) initiative, which aims to promote the economic recovery of the country through digital modernization. Having a cloud region on Italian soil will help facilitate the adoption of Oracle Cloud services by government entities and Italy's highly regulated industries."

Built on OCI's next-generation architecture, the Milan region provides a resilient, high-performance foundation for cloud services, with a physical and virtual network design that helps optimize performance and security. Oracle Cloud services, including Oracle Autonomous Database, Oracle Container Engine for Kubernetes and Oracle Cloud VMware are now available from Milan for customers that want to leverage a cloud region in Italy. This may help organizations in highly regulated industries like banking and public sectors with their efforts to meet important regulatory compliance requirements. In addition, Oracle offers a wide range of application modernization and cloud strategies to help Italian organizations operate with global competitiveness.

### **Customer and Partner Commentary on the Opening of the Milan Region**

Marcella Schiavi, IT Manager, **Trenord**, a subsidiary of Trenitalia, dedicated to public rail transport in the most mobile region of Italy, Lombardy, said: "In 2017 we started to renew and consolidate our infrastructure working toward cloud solutions. We selected Oracle Cloud Infrastructure for our ticketing platform, to ensure high performance in a safe, innovative and sustainable way. Today, we confirm and renew our choice together with Azienda Trasporti Milanese (ATM), who manages public transport and integrated mobility in Milan and across Lombardy, to jointly deliver the new electronic ticketing systems created by the SBE Consortium. The Oracle Cloud Milan Region offers us further opportunities

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to scale to the cloud with low latency allowing us to focus on customer experience and data security.”

Roberto Andreoli, Chief Information Officer, **ATM**, added: "The new electronic ticketing system project, coordinated by the SBE consortium, will use the Milan region. This is with the goal of ensuring the interoperability of electronic ticketing systems for the transport network of the metropolitan city of Milan and the region of Lombardy.”

Alessio Pomasan, Chief Information Officer, **Banca Mediolanum**, a leading bank, insurance and asset management provider, said: “Banca Mediolanum has long been using Oracle technology services to manage our most mission-critical data. The new cloud region in Italy is interesting because it offers new opportunities for a company like ours which operates in a highly regulated markets. With reduced service and application latencies facilitated by the proximity of the Milan region, we will be able to explore new possibilities and ways of operating and serving our customers.”

Mario Martinelli, Chief Information Officer, **SISAL**, a major gaming company with a network of over 50,000 retail outlets, said: “As a leading international gaming operator, SISAL is an inherently a data-driven business, and Oracle has always been central to this approach. With Oracle Cloud we have been able to vastly accelerate innovation—including bringing innovative Artificial Intelligence solutions to our services—and create more value through data across our business. The high performance and low latency offered by the new Milan region will give us the flexibility to move more critical workloads to the cloud and enable us to consider new business opportunities and service offerings.”

Giuseppe Cardillo, IT Director, **Gruppo Bancario Cooperativo Iccrea**, said: "After initially consolidating our data management with Oracle databases on Exadata Engineered Systems, the intermediate step to the cloud was Oracle Exadata Cloud@Customer. By this I mean cloud services with machines physically located in our data centres. We are very pleased with the opening of an Oracle Cloud Region in Italy. This will facilitate our cloud adoption path with regulatory and also technical benefits, including lower latency which will make everything more efficient.”

Anna Sappa, Chief Technology Officer, **INAIL** (National Institute for Insurance against Accidents at Work), an Italian statutory corporation overseen by the Ministry of Labour and Social Policies, said: “Thanks to Oracle Exadata Cloud@Customer, we had already chosen to ‘build our own cloud’ in our data centres in Rome. By using cloud technology to complete the consolidation of our Institute’s data, we began to use new deployment, provisioning and monitoring tools. Now we are ready to complete our journey to the cloud, in accordance with the government guidelines on data management. That is why the opening of an Oracle Cloud Milan Region is of great interest for INAIL—it has the levels of security and performance that we have come to appreciate, combined with an improvement in latencies and disaster protection.”

Filippo Cecchi, IT Infrastructure and Services Lead, **Unicoop Firenze**, one of the oldest and biggest large-scale distribution organisations in Italy with retail outlets throughout Tuscany, said: “We have always used Oracle systems and technology for data management and analytics. This provides more timely and personalised services to customers and helps us manage distribution in a sustainable and economically viable way. We are very familiar with Oracle technology on-premises, and we have started working in a hybrid mode with Oracle Cloud Infrastructure delivering excellent results. That is why the opening of an Oracle Cloud Region in Italy will be essential to continue our migration of workloads to the cloud, thanks to low latency and high performance.”

Flavio Mauri, Chief Information Officer, **Cerved Group**, the main Italian data provider for banking and insurance, said: “Oracle’s choice to open a cloud region in Italy fully meets the expectations of Cerved Group. As a matter of fact, it was our intention to move our data management architecture to the cloud,

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so we will be among the first Oracle customers to operate in this region in Italy.”

Andrea Cesarini, Oracle Business Group Lead Europe, **Accenture**, said: “The opening of the Milan region in Italy will enable us to better help our clients reimagine their futures with cloud, using it as a launchpad to drive continuous innovation and unlock the value of data. By leveraging Oracle Cloud, organizations across industries can bring the power and efficiency of automation to business functions across their enterprise in a secure environment. Finally, the fact that Oracle's cloud platforms are powered by 100 percent renewable energy sources will help our clients advance their sustainability efforts.”

## **Sustainability as a Priority**

Oracle is committed to sustainability and has pledged to power all Oracle Cloud regions worldwide with 100 percent renewable energy by 2025. Several Oracle Cloud regions, including regions in North America, South America, and eight cloud regions in Europe are already powered by 100 percent renewable energy, and all Oracle Cloud regions use state-of-the-art energy management and cooling technologies to minimize their impact on the environment. As part of its renewable energy clean Cloud initiative, Oracle reused or recycled 99.6 percent of its retired hardware in FY21 while strictly adhering to Oracle’s data privacy and security practices.

## **Cloud Regions Deliver Multicloud**

Oracle’s strategy is to meet customers where they are, and providing options that can enable customers to have data and services hosted largely where they need it. Customers can deploy Oracle Cloud within their own data centres with Dedicated Region and Exadata Cloud@Customer, deploy cloud services locally with public cloud-based management, or deploy cloud services remotely on the edge with Roving Edge Infrastructure.

OCI’s extensive network of more than 70 regional and global FastConnect partners provides customers with dedicated connectivity to Oracle cloud regions and OCI services, giving them one of the best options anywhere in the world. FastConnect can be a relatively easy, flexible and cost-effective way to create a dedicated, private network connection with higher bandwidth, lower latency and more consistent performance than public Internet connections.

In addition, OCI and Microsoft Azure have established a strategic partnership that allows joint customers to run workloads in both clouds. The partnership offers a low-latency cross-cloud interconnection between OCI and Azure in 8 select regions, a federated identity for joint customers deploying applications in both clouds, and a collaborative support model.

Customers can run full-stack applications in a multicloud configuration, while maintaining high-performance connectivity that doesn't require another architecture. They can also potentially migrate existing applications or develop native cloud applications that use a combination of OCI and Azure services.

Currently available Oracle Cloud regions:

- **Asia Pacific:** Tokyo (Japan), Osaka (Japan), Seoul (South Korea), Chuncheon (South Korea), Mumbai (India), Hyderabad (India), Sydney (Australia), Melbourne (Australia), Singapore (Singapore)
- **Americas:** San Jose (United States), Phoenix (United States), Ashburn (United States), Toronto (Canada), Montreal (Canada), São Paulo (Brazil), Vinhedo (Brazil), Santiago (Chile)
- **Europe:** Frankfurt (Germany), London (United Kingdom), Newport, Wales (United Kingdom), Zürich (Switzerland), Amsterdam (The Netherlands), Marseille (France), Milan

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(Italy), Stockholm (Sweden)

- **Middle East:** Jeddah (Saudi Arabia), Abu Dhabi (U.A.E), Dubai (U.A.E), Jerusalem (Israel)
- **Government:** Two general U.S. Government regions, and U.S. National Security regions, three U.S. Department of Defense specific Government regions, two in the United Kingdom (London and Newport, Wales)

## ***ProModel and Autodesk Announce New Co-Marketing Agreement***

7 December 2021

ProModel and Autodesk collaborate together to provide greater visibility to joint efforts, including the new product, ProModel AutoCAD Edition, utilizing Autodesk Factory Assets, AutoCAD® & Inventor®

Allentown, PA, December 2021 – ProModel, a leader in optimization simulation technology, and Autodesk, a worldwide leader in design software, have agreed to a multi-year co-marketing agreement. The agreement will include worldwide marketing efforts and will benefit both companies’ mutual and potential customers by sharing marketing, existing product workflows, and distribution channels over a range of products and services.

ProModel AutoCAD Edition is the culmination of a years-long partnership between ProModel and Autodesk. With ProModel AutoCAD Edition, you can quickly build a spatially accurate layout and process simulation model simultaneously all within AutoCAD, using factory design assets and the ProModel AutoCAD Add-in. Then, simulate the scaled model directly in AutoCAD with the click of a button. View results in the Output Viewer and easily make, test, and validate layout and process changes in AutoCAD. Finalize the model, then view it in 3D with Inventor and ProModel 3D Animator. “Working together closely for years has resulted in Autodesk tools, including AutoCAD, Inventor, and Factory Design Utilities, being seamlessly integrated with ProModel’s leading factory simulation technology,” said Ken Foo, Autodesk Senior Director of Strategic Partnerships. “Autodesk customers can build spatially accurate models in familiar Autodesk tools, then, using those very designs, easily optimize factory workflows to both increase throughput and reduce costs,” Foo said.

## ***PTC Appoints Michal Katz to Board of Directors***

13 December 2021

PTC has appointed Michal Katz to its Board of Directors effective February 8, 2022.

With a career spanning more than 20 years on Wall Street, Katz has emerged as a seasoned and trusted advisor to companies and boards in the areas of corporate finance, strategy, mergers and acquisitions, and digital transformation. Katz currently leads Investment and Corporate Banking for Mizuho Americas, a unit of Japan-based Mizuho Financial Group, Inc., one of the largest financial institutions in the world. In this role, she is responsible for all Mizuho's banking activity throughout the US, Canada, and Latin America, including investment grade and non-investment grade loans, equity and debt offerings in the capital markets, securitizations, and mergers and acquisitions.

"PTC is a dynamic company that is constantly looking to innovate to spur growth," said Jim Heppelmann, PTC president and CEO. "Michal's perspectives on mergers and acquisitions and deep understanding of capital structures will be very helpful as we seek to fuel our continued innovation. We are pleased to add Michal to our board as we look to enter our next chapter of growth and shareholder value creation."

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Prior to Mizuho, Katz was co-head of the Global Technology Investment Banking Group at RBC Capital Markets, where she built a global practice, advising and supporting leading and emerging technology companies. Prior to RBC, Katz was a managing director at Barclays and Lehman Brothers, where she was head of the global software practice in the Technology Investment Banking Group. Before that she spent several years practicing corporate law.

"PTC has a tremendous history of transforming itself to capitalize on emerging technology trends," said Katz. "Throughout my career, I have helped companies like PTC leverage capital strategies to drive growth and unlock value. I look forward to supporting the company as it seeks to accelerate its latest transformation journey to SaaS."

Katz is widely recognized for her professional experience, including as one of the Most Powerful Women in Finance by American Banker, one of the Most Influential Corporate Directors by WomenInc., and one of the Notable Women in Banking and Finance by Crain's New York Business. She currently serves as an independent director on the board of Nuance Communications and serves on the board of the GRAMMY Museum, a not-for-profit arm of the Recording Academy, where she chairs the Finance Committee.

Katz received her BA with honors from Binghamton University and JD from New York University School of Law.

## ***Sandvik commits to the Science Based Targets initiative***

10 December 2021

Sandvik has committed to set targets in line with the Science Based Targets initiative (SBTi), consistent with the Paris Agreement. This is a natural step in Sandvik's sustainable business strategy, where we can make a big difference through our customer offerings, such as battery-electric mining equipment, productivity-enhancing manufacturing and machining solutions, and energy-efficient rock processing solutions.

Sandvik already has ambitious sustainability targets for 2030 where we have committed to reach a 50 percent reduction of greenhouse gas emissions. By joining the SBTi, Sandvik will seek to get its sustainability targets validated against science-based criteria.

"Sustainability is an integrated part of Sandvik's strategy and of crucial importance for the society around us as well as for business. We constantly work with customers and suppliers to develop more productive, safer and more sustainable solutions, and setting Science Based Targets underlines our firm determination to reduce greenhouse gas emissions through our products and our operations", says Stefan Widing, President and CEO of Sandvik.

The SBTi is a partnership between the Carbon Disclosure Project, the UN Global Compact, the World Resources Institute and the World Wide Fund for Nature. The requirements of SBTi include that greenhouse gas emissions must be halved by 2030 – and drop to net zero by 2050 at the latest.

## ***Sandy Carter Joins Altair Board of Directors***

10 December 2021

Altair, the global leader converging simulation, HPC, and AI, announced that Sandy Carter, senior vice president and channel chief of Unstoppable Domains, Inc., a software company building domains on blockchains, has joined Altair's board of directors.

"Sandy brings a broad range of experience to our board of directors. From management, sales, and

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marketing to technical expertise and the ability to manage multi-disciplinary projects, she can navigate complex situations with focus and discipline,” said James R. Scapa, founder and chief executive officer, Altair. “Her energy combined with her fluency across all technology business disciplines is shown in her strong executive and inclusive management style.”

With more than 20 years of experience and demonstrated successful leadership, Carter was most recently the vice president of Public Sector Partners and Programs at Amazon Web Services (AWS). In this role, she generated and implemented business strategies to increase partner participation by an average of 54 percent year-over-year, closed AWS Public Sector’s largest partnerships, and innovated new revenue streams, which drove most of AWS Public Sector’s business. Carter also made significant contributions to the company’s diversity and inclusion efforts, having created the Women of EC2 group, the Women of the C-Suite for the AWS Re: invent conference, and drove events for underrepresented minorities and women in more than 10 countries. Additionally, she and her team created an AWS program, Think Big for Small Business, for diverse companies globally.

One of the leading pioneers in the digital business revolution, Carter is chairman of the board for Girls in Tech, which aims to accelerate the growth of innovative women entering the high-tech industry and building startups by creating proprietary, innovative programming, and strategic global partnerships. She is also an adjunct professor at Carnegie Mellon Silicon Valley, an author of five books about business, marketing, and social media, and was named to *Forbes’* Global Top 40 Marketing Masters list, and *CNN’s* 10 Most Powerful Women in Tech and Women of M2M (IoT). She is an international speaker and influencer who has presented on topics including artificial intelligence, machine learning, Internet of Things, and cloud computing in more than 80 countries.

“I am proud to join the Altair board of directors and bring my multidisciplinary experience to help the organization accelerate its global partnership, sales, and marketing efforts,” said Carter. “Altair is making great strides in helping forward-thinking companies accelerate their digital transformation efforts.”

Previously, Carter was vice president of AWS enterprise workloads, CEO and founder of Silicon Blitz, and held several leadership positions at IBM Corporation, including serving as channel chief and chief sales officer. Earlier in her career Carter held management positions at WebSphere, Tivoli Partners, and eCommerce.

Carter earned a Master of Business Administration degree in marketing/technology management from Harvard Business School and a Bachelor of Science degree in computer science from Duke University.

## ***Siemens joins forces with LG Energy Solution: towards more intelligent, leaner and cleaner battery production***

14 December 2021

Siemens and LG Energy Solution (LGES), a leading global battery manufacturer signed a Memorandum of Understanding (MoU) to increase cooperation in the field of battery manufacturing, particularly the digitization of production process. Under the terms of the agreement, which was signed by Cedrik Neike, Member of the Managing Board of Siemens AG and CEO Digital Industries and Young Soo Kwon, CEO of LG Energy Solution and at LGES’s headquarters in Seoul, the two companies plan to take steps to promote the process of battery manufacturing intelligence at LGES production facilities worldwide.

“We believe the partnership with Siemens AG will efficiently promote LG Energy Solution’s digitized manufacturing processes, ultimately enabling LGES to provide the finest services to our clients,” said

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Young Soo Kwon, CEO of LG Energy Solution. “The process of manufacturing intelligence in producing batteries is becoming a critical factor, especially as LGES continues to advance the quality of its products while expanding production base worldwide.”

“The future of carbon-neutral mobility requires high-performing batteries. They are at the heart of the electric vehicle market. Siemens and LG ES will work on quantum leap in battery manufacturing. We are proud that technology from Siemens enables this momentous transformation”, said Cedrik Neike, Member of the Managing Board of Siemens AG and CEO Digital Industries. “With this cooperation, we underscore Siemens’ positioning as a focused technology company. Joining forces with the world’s leading battery manufacturer allows us to showcase our deep domain know-how in the battery market.”

Through this strategic collaboration, LGES will be able to implement smart battery manufacturing processes at global factories. The partnerships’ first line of collaboration will be realized at Ultium Cells LLC, a joint venture of LG Energy Solution and General Motors, located in Tennessee, which is expected to begin production in 2023. Furthermore, the collaboration will allow LGES to cut back on Carbon footprint in its entire supply chain management, as it aims to boost sustainability in its business operations.

As a leading supplier in the field of automation and industrial software, Siemens offers a comprehensive digital enterprise portfolio and domain knowledge in the battery industry. This allows LGES to accelerate its digital transformation strategy. In addition, Siemens AG will contribute to the development of the rapid growing battery industry by solidifying its position as a technology partner for the advancement and efficiency of battery manufacturing technology.

The companies will also collaborate on building a digital twin roadmap to ensure stable operations at facilities to offer first-rate quality products at the right time. Together, the companies will also develop training programs within the Institute of Battery Technology (IBT) for academic students set to work for LGES.

## ***Wattpark, Geoflex and Vianova win Software République's “Mobility 4.0 Challenge”***

16 December 2021

The three start-ups Wattpark, Geoflex and Vianova won the first edition of the “Mobility 4.0 Challenge” organised by the Software République, a new European ecosystem for innovation in intelligent mobility. The winners received their trophies by the members of the Jury of the six founding companies with the participation of Cédric O, French Minister of State for Digital.

On 6th September, the members of the Software République launched the “[Mobility 4.0 Challenge](#)”, motivated by a common goal: to mobilise the start-up ecosystem around innovation for sustainable mobility.

After receiving more than 150 projects, 10 finalists were shortlisted by the Software République Jury. By giving them access to the necessary data for their projects and benefiting from the expertise of the six founding companies, the 10 finalists were able to develop their innovative concepts during a prototyping phase which finished early December.

After deliberation by the Jury, three winning start-ups were rewarded. Wattpark, Geoflex and Vianova have been invited to join the Software République incubator from February 1st, 2022 to bring their project to fruition with the support, expertise and resources of Atos, Dassault Systèmes, Orange, Renault Group, STMicroelectronics and Thales.

The three winning start-ups of the 2021 edition of the “Mobility 4.0 Challenge” are:

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- **1st prize: WATTPARK**  
Wattpark is the « Airbnb© of chargers ». It allows owners of charging stations to share and rent it out. It helps drivers locate a charging station, connect to it, and easily pay thereby making the experience of driving an electric or plug-in hybrid vehicle stress-free.
- **2nd prize: GEOFLEX**  
Geoflex is a service operator enhancing GPS / GNSS applications to achieve secure and accurate positioning, down to 4 centimeters, on land, at sea and in the air. Geoflex provides universal hyper-geolocation to trains, cars, ships, drones and smartphones, and also for last mile delivery in smart cities.
- **3rd prize: VIANOVA**  
Vianova proposes to build a road safety algorithm that could benefit both cities and motorists to identify and be informed in real time of dangerous incidents on the roads or high accident risks in certain areas.

The members of the Jury also nominated three special mentions: Parcoor, Pasqal and Search Mobility.

The jury is composed of representatives from the six members of the Software République:

- Sophie Proust, EVP Group Chief Technology Officer, Atos Group
- Laurence Montanari, VP Transportation & Mobility Industry, Dassault Systèmes
- Frédéric Vacher, Head of Innovation 3DEXPERIENCE Lab, Dassault Systèmes
- Jean-Marc Lafond, IoT portfolio Director, Orange Innovation
- Luc Julia, Chief Scientific Director, Renault Group
- Sophie Schmidlin, VP Research & Advanced Engineering
- Frédérique Le Grevès, Executive Vice President, France Public Affairs, STMicroelectronics & President and CEO, STMicroelectronics France
- Stéphane Royer, Group Chief Data Officer, Thales

## Financial News

### ***Accenture Reports Very Strong First-Quarter Results and Raises Business Outlook for Fiscal 2022***

16 December 2021

Accenture reported financial results for the first quarter of fiscal 2022, ended Nov. 30, 2021, with revenues of \$15.0 billion, an increase of 27% in both U.S. dollars and local currency over the same period last year.

## Implementation Investments

### ***Ansys Congratulates Red Bull Racing Honda for Formula One Drivers' World Championship Victory***

13 December 2021

Ansys is proud to congratulate Max Verstappen and Red Bull Racing Honda for taking home the Formula One Drivers' World Championship title for the 2021 season on Sunday, December 12. As

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an Ansys Innovation Partner since 2008, the team leverages Ansys' best-in-class simulation solutions to succeed with speed.

After an exciting season, Max Verstappen secured enough points to triumph over his competition, achieving victory as the season's top driver.

As each team aims to engineer the safest and fastest car for each track, compounded by such narrow margins for achieving a win, simulation plays a major role for Red Bull Racing Honda, and it is crucial that aerodynamic simulations are robust and predictively accurate.

To meet these challenges, Red Bull Racing Honda employs Ansys' world-class simulation solutions for aerodynamics and the chassis cooling circuit by using Ansys CFD, materials data management and optimization with Ansys Granta MI, and virtual impact testing with Ansys LS-DYNA.

"We continue to benchmark to ensure we are using the best-in-class tools and are confident working with Ansys ensures we stay ahead of the game," said Matt Cadieux, CIO at Red Bull Racing Honda. "By integrating Ansys' technology into our design processes, our team iterates designs much faster, giving us the edge against our competition on the track."

The team most recently held the top driver title during four consecutive championship wins from 2010 to 2013.

"We provide the most predictively accurate and robust simulation solutions for our partners and customers so they can excel in their developments and endeavors," said Shane Emswiler, senior vice president of products at Ansys. "For Red Bull Racing Honda to achieve this is a victory for us as well. We are proud to partner with the team and celebrate this win with them."

Ansys looks forward to continuing to drive efficiency and predictive accuracy in Red Bull Racing Honda's design cycle as the Team charges on into 2022, paving the way to future track successes.

## ***Ansys Fuels Carbon-Free Transportation with Synhelion***

15 December 2021

Ansys solutions are helping Synhelion steer toward cleaner transportation and net-zero emissions by helping to enable the development of solar fuels to replace fossil fuels. Synhelion became a member of the Ansys Startup Program in the beginning of 2020 when cooperation with the Swiss Elite Channel Partner CADFEM started. As global pioneer in the field of sustainable solar fuels, Synhelion uses Ansys' multiphysics simulation solutions and high-temperature solar heat to convert carbon dioxide (CO<sub>2</sub>) and water into synthetic fuels — such as solar gasoline, diesel, or jet fuel — that are compatible with conventional internal combustion engines and aircraft turbines.

To perform this conversion, mirrors reflect the sunlight and concentrate it directly onto a solar receiver where a heat-transfer fluid is heated to temperatures up to 1,500 degrees Celsius, or 2,732 degrees Fahrenheit. This solar heat is then used to drive the thermochemical reactor that produces sustainable fuel. Synhelion leverages Ansys' computational fluid dynamics (CFD) and finite element analysis (FEA) software entrusting Ansys® Fluent® and Ansys® Mechanical™ to understand the complex flow and replicate thermo-fluid dynamics to design and validate capable equipment, despite scorching temperatures. With Ansys' best-in-class simulation tools, Synhelion can overcome design challenges, predict future outcomes, and reduce prototyping time. The resulting solar fuel solves various challenges, including being cleaner, more economic, easier to transport, and able to be stored indefinitely.

"Ansys' CFD and FEA simulation allows us to develop, test, and validate extremely complex technology to create sustainable solar fuels," said Lukas Geissbühler, Head Thermal Systems at

Synhelion. “Particularly, in developing our solar receiver, we needed sophisticated and predictively accurate software and Ansys delivered. Thanks to Ansys’ software, we could reduce prototyping time and build our first industrial receiver more quickly.”

By using concentrated solar energy directly in a thermochemical process, Synhelion can utilize 100% of the light spectrum, rather than employing photovoltaic (PV) panels, where only 20% of the light spectrum can be utilized. Further, Synhelion’s thermal energy storage technology enables low-cost solar heat round-the-clock — giving a significant advantage over competitors, who require expensive electricity storage for continuous operation.

“Ansys is passionate about creating a sustainable future from road infrastructure to aviation and everything in between,” said Shane Emswiler, senior vice president of products at Ansys. “By helping to enable a solution for sustainable fuels, we are driving sustainable innovation forward on the ground and in the air, addressing climate change challenges, and moving toward a cleaner future.”

Synhelion recently raised 16 million Swiss francs (about \$17.5 million) during its Series B funding round and will use the funding to build the world’s first plant capable of producing solar fuels at an industrial scale. Synhelion is also using solar heat to produce cleaner cement, working in partnership with CEMEX, a global concrete and cement manufacturing company.

## ***AVEVA Signs Long-Term Strategic Deal to Transform EDF’s Nuclear Engineering Capabilities***

14 December 2021

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, has signed a long-term partnership with EDF, the world leader in power generation, to elevate its 3D nuclear engineering program and deliver leading-edge energy-efficient performance. AVEVA will help drive EDF’s SWITCH digital transformation program with its AVEVA™ E3D Design solution and other components of the AVEVA™ Unified Engineering solution. EDF will strengthen its engineering design portfolio by way of faster design and delivery of its nuclear plants as well as advanced safety and performance standards.

By streamlining data from different design disciplines – including mechanical, electrical and civil works – several hundred users across different global locations will be able to work together within a digital twin repository, eliminating siloed engineering design approaches, avoiding data inconsistencies, and removing duplication. AVEVA technology will enable users to collaborate on shared 3D models simultaneously, thus improving the competitiveness of EDF’s nuclear engineering design processes.

This partnership builds on a long-term relationship between AVEVA and EDF. AVEVA has supported EDF with 3D digital engineering solutions at its N4 nuclear plants since the 1980s. To date, AVEVA’s capabilities have enabled EDF to drive its sustainable nuclear vision by reducing operational work-hours and by enhancing data consistency.

The new partnership between AVEVA and EDF is expected to generate the following results:

- Reduction in design work times and in engineering work times.
- Decrease in the need for re-work due to consistently accurate and high-quality deliverables.
- Faster development rate of 3D models.
- Greater project visibility for all project stakeholders.
- Greater collaboration between design and engineering teams.

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- Extended asset lifespans and the ability to reduce CO<sub>2</sub> emissions.

The new agreement will see AVEVA digital design systems implemented as the gold standard for all new EDF nuclear projects.

EDF Group Executive Director – Engineering and New Nuclear Project, Xavier Ursat commented, “The SWITCH digital transformation program is critical to reinforce EDF’s ambition of producing low-carbon electricity and achieving our carbon neutrality objective by 2050 across our portfolio. AVEVA has been a trusted partner for EDF for more than 30 years, helping us to accomplish our digital transformation. AVEVA understands our requirements and we trust them to enable us to accelerate our clean energy goals. This extended long-term partnership supports our engineering design and operations teams and empowers them to optimize operational performance and to exploit nuclear energy efficiently.”

AVEVA CEO Peter Herweck said, “We are proud to have built a trusted partnership with EDF that serves as the foundation stone of its digital transformation vision and sustainability program. Our market-leading digital engineering design enables us to support EDF in driving their net-zero energy strategy for the benefit of end consumers throughout the world. With our new agreement, AVEVA will help EDF accelerate engineering collaboration, connect teams and unlock higher performance through shared contextual data and intelligence. We look forward to assisting EDF’s expert engineers to cut design time, improve collaboration and accelerate efficient decision-making to develop the nuclear industry of the future.”

## ***Bright Food Global Selects Infor to Deliver Essential Ingredients for Success in Group-wide Cloud Transformation Program***

14 December 2021

Infor, the industry cloud company, announced that Bright Food Global, a market-leading distribution network spanning the Asia Pacific region, specializing in consumer packaged goods, high-end fine foods and Australia’s largest exporter of citrus fruit, has selected Infor Food & Beverage (F&B) to power its move to a multi-tenant cloud setting for ERP and core business systems — a decision that will underpin the organisation’s next phase of growth.

Bright Food Global, a diversified group with origins dating back more than 100 years, represents a portfolio of iconic businesses and brands including heritage dried fruit business Sunbeam Foods, Manassen Foods, Hutchinson’s New Zealand, Calendar Cheese Company, Simon Johnson, Mildura Fruit Juice Australia, etc., and is also the largest distributor of specialty cheese and caviar in Australia.

The enterprise-wide transformation program will see Infor F&B deployed in financial management, inventory management, procurement, warehouse management, sales order management, cost accounting, manufacturing, quality management, and other areas.

Infor F&B will provide Bright Food with greater flexibility, mobility, automation and visibility across the business in warehousing, retail, finance and manufacturing pillars, and positively impact a variety of users, from production line workers to administration staff. Infor F&B will replace Bright Food’s 14-year, on-premises Infor ERP solution, and will future-proof the organisation’s internal core business systems while ensuring compatibility with external applications, platforms and emerging technologies.

The implementation will be rolled out in three phases across Australia and New Zealand, in partnership with Infor gold channel partner and ERP specialist ComActivity. Bright Food will also have the choice to use Infor Coleman AI, a digital assistant that will redefine access to systems, information and workflows with text and voice interactions in a variety of business units and tasks such as maintenance

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requests, inventory assessments, and customer inquiries. Such AI capabilities can aid Bright Food's end-users in how they operate with the system.

"Bright Food Global has been at the forefront of food innovation for decades, and the move to the cloud with Infor will provide the group with greater flexibility, enhanced mobility, and substantially improve visibility for the organisation – both internally and externally," said Peter Gunning, Bright Food Global chief financial officer and executive director. "We've had Infor in our corner for many years and trust them to keep delivering for the business in our next phase of growth. Having such high-quality ERP cloud technology will put our systems, processes and operations in a better position to deliver significant efficiency gains. Infor's value proposition was too compelling to refuse."

According to Sarah Kibble, Bright Food Global head of IT, Infor's F&B offering will enable the organisation to provide better employee and customer experiences, improve its bottom line and play a pivotal role in the organisation's efficiency and growth plans.

"Infor has been an important strategic partner and, with Infor F&B, we will be able to deliver more efficiencies and scale the business with improved, intuitive functionality. The multi-tenant SaaS model with continual investment by Infor provides a pathway to improvements without the need for major system upgrades in the future, saving time, costs and resources whilst ensuring business process advancement.

"When we embarked on our move to the cloud, we assessed the market, opting to continue partnering with Infor due to its strong cloud technology investment and emerging leadership in this area. Its deep experience in the F&B vertical provides an ongoing and important advantage, as is the benefits of the stability and security of Infor F&B, which is a highly-resilient cloud platform," Kibble said.

Infor ANZ managing director Jarrod Kinchington said: "Infor is thrilled to be able to continue supporting Bright Food Global as it embarks on a company-wide program to move to the cloud. We're pleased that Bright Food Global has maintained its trust in Infor to deliver on this critical transformation project and look forward to helping the organisation drive its innovation agenda into the future."

## ***Butterfly Network Leverages Cadence Clarity 3D Solver for Advanced Mobile Ultrasound Design***

14 December 2021

Cadence Design Systems, Inc. announced that Butterfly Network, Inc. has successfully deployed the Cadence® Clarity™ 3D Solver to support and enhance the design of its handheld, single-probe, whole-body ultrasound system. The Clarity 3D Solver is used as part of Butterfly's system design and analysis workflow for its speed and capacity, which eliminate the need to partition the design and sacrifice accuracy to extract the circuit's electromagnetic behavior.

With the Clarity 3D Solver, Butterfly was able to achieve a 5X speedup in advanced model characterization with gold-standard accuracy compared to an alternative solution. Additionally, the Clarity 3D Solver enables the team to optimize their designs and ensure the critical signal and power integrity of their system, delivering high-quality ultrasound images to the connected smart device at top speeds.

"We build advanced assessment technology to unlock clinical information to enable better diagnosis and treatment decisions," said Nevada Sanchez, co-founder and engineering VP of Butterfly Network. "The Cadence front-to-back system design and analysis flow enables our engineers to identify design problems quickly and accurately and, more importantly, allows us to get products to the field sooner."

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“The unique role our products play in effectively simulating and optimizing Butterfly’s complex technology and enabling delivery to the healthcare market as quickly as possible is highly rewarding,” said Ben Gu, vice president of multiphysics system analysis in the Custom IC & PCB Group at Cadence. “We look forward to continuing to partner with Butterfly to design critically important next-generation medical equipment using the complete robust design and analysis capabilities provided by our Virtuoso, Allegro X, Clarity, Celsius and Sigrity X technologies.”

## ***Capgemini and Salesforce support Volvo Car APEC in its business transformation***

14 December 2021

Capgemini announced that it has supported Volvo Car APEC in the digital transformation of its operations, through the implementation of Sales Cloud, Service Cloud, Marketing Cloud, Experience Cloud and Configure Price Quote (CPQ) software, thereby delivering a streamlined, personalized, digital customer journey.

For this innovative work, Capgemini has been named a recipient of the Salesforce Partner Innovation Award in the category of Industry – Automotive, showcasing leadership within the Salesforce ecosystem. This collaboration with Capgemini and Salesforce has enabled Volvo Car to drive efficiency and standardization across its business processes, improve sales conversion, enhance performance with real-time analytics and insights, and deliver additional business value across the region.

*“In the past three years, Salesforce has been a powerful tool for us, empowering our people throughout our business transformation,”* said Keith Schäfer, Head of Operations at Volvo Car APEC, the Asia Pacific region outside of China. *“Salesforce provides speed and efficiency in implementation, as well as adding value to our markets and our dealer partners. Our work with Capgemini and Salesforce has been crucial in supporting us to streamline our customer journey, whilst concurrently providing a sound platform enabling our regional team and our retail partners to collaborate effectively. Capgemini has been a valuable partner.”*

Keith further added, *“A key enabler for Volvo Car Asia-Pacific’s growth plan is to build an efficient digital consumer journey, driven by data and customer centricity. Our focus on creating a strong commercial ecosystem, powered by Salesforce, will support our passion to better understand the needs of our customers and enrich our customers’ digital experience.”*

*“By leveraging our solution based on Salesforce, Capgemini is supporting Volvo Car in the Asia-Pacific region to establish a link between the online and offline customer journey and providing a truly personalized experience for both our client and their customers across every touchpoint. I’m extremely proud of our team for supporting the innovation of Volvo Car in Asia-Pacific,”* said John Sparrefors, Director and Account Executive for Volvo Car Asia-Pacific at Capgemini.

*“Salesforce Partner Innovation Award winners such as Capgemini work relentlessly to enable their customers’ success,”* said Tyler Prince, Executive Vice President, Alliances & Channels, Salesforce. *“Capgemini’s initiative and ability to deliver results illustrates how Salesforce partners are integral to creating value and enabling digital transformation in our new work-from-anywhere world.”*

## ***Infosys Selected by Orion Corporation to transform its ERP and Planning Platforms, and Drive Business Value Realization***

14 December 2021

Infosys, a global leader in next-generation digital services and consulting, announced it has been selected by Finland-based Orion Corporation to holistically transform its ERP and Planning platforms,

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enhance employee experience, and drive business value realization. Through this engagement, Infosys will adopt standardized best SAP practices to enable end-to-end visibility across Orion's operations, informed decision making, and reduce business operations cost through AI, ML, and robotic process automation (RPA).

Infosys was chosen to assist Orion on this transformation journey for its collaborative and transparent approach, demonstrated SAP capabilities, proven track record in the Life Sciences industry, and ability to deliver tangible business value. As an established SAP transformation partner for S/4HANA, BW/4HANA and IBP, Infosys will follow an innovative hybrid agile approach leveraging Infosys CaPSule to maximize Orion's business engagement and deliver early business buy-in. Infosys will additionally leverage its Value Realization Method (VRM) to achieve Orion's key value objectives while utilizing the data anonymizing suite to enable availability of real-time information and high data integrity.

**Timo Lappalainen, President and CEO, Orion Corporation** commented, "At Orion we are pleased to partner with Infosys to develop our operations by transforming our processes and core platforms like ERP. In selecting our partner, we valued Infosys' strong track record implementing Life Sciences best practices, focus on business value realization and proven delivery capability. We look forward to co-operating with Infosys and leveraging the results of our partnership to support the well-being of our customers."

**Mohit Joshi, President, Infosys** said, "The agility afforded by a modern ERP system combined with streamlined business processes and informed decision making will significantly help an organization compete in today's business environment. On that note, we bring in an innovative hybrid agile approach to not just holistically transform Orion's ERP and planning platforms, but to focus on the "build" or "realization" phases of the project lifecycle. This engagement reflects the strong core functional and technical capabilities of our Enterprise Application Services SAP unit to drive exceptional operational excellence, employee experience, and tangible business value."

## ***INSPECS Limited Eyes Centric PLM™ to Achieve Their Vision***

14 December 2021

INSPECS Limited, a leading designer, marketer, manufacturer and distributor of brand and OEM eyewear has selected Centric Software's Product Lifecycle Management (PLM).

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.

Founded in 1988, INSPECS experienced rapid growth through acquisition and is one of the largest eyewear companies in the world. They own their supply chain from sourcing to distribution, distribute in more than 80 countries, have four manufacturing sites and 30,000 global points of sale. INSPECS cycles two seasons per year and produces over 500 new SKUs for licences, brands and private label brands each year. Their goal is to be the go-to platform for eyewear solutions.

Eyewear is classified as a medical device and is subject to rigorous compliance standards, which along with a complicated manufacturing process, slows time to market. The average time to market can be nine months and operating during COVID has put additional pressure on timelines.

When Adam Loewy, Creative Director at INSPECS joined the team, he saw an enormous opportunity to streamline processes, speed time to market and drive the company's success.

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“When I joined INSPECS, I had this question mark,” says Loewy. “We had the ability and a fantastic team. But we didn’t design as many collections, and for as many brands as I thought we could.”

Loewy could see that teams were losing valuable time with multiple layers of processes, by relying on outdated tools like Excel, and searching for information stored in disparate locations. Thus, he began his search for a solution to drive efficiencies, streamline operations and centralize information.

“We were very keen to work with a partner who had experience, had delivered for multiple brands, and was on a scale that would ensure they’d be around for the long term,” shares Loewy.

In their search for a PLM solution, Loewy and his team evaluated several PLM vendors, and Centric Software stood out for several reasons. Outstanding customer references, Centric’s work with INSPECS brands, and a clear roadmap of the development process and ROI gave INSPECS the confidence to select Centric Software as their PLM partner.

User experience was also a deciding factor. “When you’ve got to try to persuade teams to move from a system they are familiar with, like Excel, that new system has to have a better interface and be a much more positive experience,” Loewy explains. “That was massively clear the first time we looked at Centric.”

Designers are expected to reclaim nearly 20% of their time to vision-critical functions with PLM. Currently the ratio of time spent on design to development is 20% and 80% respectively. According to Loewy, to be a leader in their market, they must spend significantly more time on design, and PLM will enable that.

The marketing team will save time by using Centric’s single version of the truth to develop detailed product line lists that support the sales teams. “It’s really about creating a digital catalogue because we’ll have that information in one location,” says Loewy. “It’s the database that is the really powerful tool for us.”

PLM will also bolster their sustainability efforts by empowering teams to share factories, deliveries, material developments and sample creation. From an employee perspective, reducing time wasted on redundant tasks will support a sustainable and balanced corporate culture.

Chris Groves, President and CEO of Centric Software says, “We are thrilled that INSPECS has chosen Centric as a partner in their digital transformation journey. Their company is growing rapidly and we are proud to be a part of an industry that is providing such a critical medical device.”

## ***Jermey™ Stationery Drives Multi-Category Development with Centric PLM™***

16 December 2021

Jermey, the leading stationery brand, 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.

Jermey, a subsidiary of DELIGAO Holding Co., Ltd, is a large-scale supplier of early childhood educational products, offering stationery, art supplies and educational toys. Today, the brand has grown into a modern enterprise featuring in-house research and development, integrated production, omni-channel marketing and all-inclusive services.

With the rapid development of the company, using spreadsheets to manage product development across thousands of categories and tens of thousands of SKUs caused a lack of visibility, cross-departmental efficiency and change management. Jermey decided to introduce digital technology into the product

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planning and design processes to lay a digital foundation for long-term development.

Mr. Lin Zejing, General Manager of Jermey, says, “Jermey has defined concrete strategies in six areas; brand, product, customer, talent, competitiveness and market, and we hope the introduction of PLM as a digital tool can support the implementation of each of these initiatives.”

As an FMCG company, Jermey places considerable emphasis on front-end competitive analysis, product planning and product design. Centric PLM’s simple interface, clear hierarchical logic, easy visualization and integration with Adobe® Illustrator and 3D CAD software cater exactly to Jermey’s needs. Jermey was also impressed by Centric’s recommendations from many benchmark brands in the FMCG industry and customer-centric business philosophy, which Jermey shares.

Jermey plans to conduct in-depth research on consumer behavior and utilize Centric Consumer Goods PLM to provide feedback on planning and design with more refined data tags, closing the gap between products and consumers. The company also looks forward to optimizing workflow and collaboration through PLM, enabling employees to focus more on value-added work and helping the company to discover more outstanding talents.

Lin adds, “The Centric team is truly fantastic, and it is apparent to me that customer service is a top priority for them. The team has been very proactive in helping me with any problems I have encountered.”

“We are very pleased to announce that Jermey has chosen Centric PLM,” says Chris Groves, President and CEO of Centric Software. “We look forward to working with Jermey to establish a digital foundation that will drive their brand globalization strategy to become a beacon in their industry.”

## ***Montgomery County Partners with Infor for Digital Transformation***

15 December 2021

Infor, the industry cloud company, announced that Montgomery County, the third-most populous county in the Commonwealth of Pennsylvania, has successfully upgraded to the newest iteration of Infor CloudSuite™ Financials & Supply Management to transform its back-office strategy. By migrating from its current on-premises system, Montgomery County will be operating with a modern ERP system that authorized users can access easily with consumer-grade system documentation available at their fingertips, allowing the organization to stay modern and agile for continued growth.

An Infor customer for 18 years, Montgomery County trusted that Infor was the right partner to help it navigate to the cloud and achieve its goal of modernizing core financial applications to gain the efficiencies needed to transform business operations during the COVID-19 pandemic. As part this digital transformation, Montgomery County is now using Infor CloudSuite applications to streamline processes, in near real time, to help drive adoption, compliance and productivity. Teams can utilize a full range of business applications to interconnect critical processes and transactions in more meaningful ways, such as reconciling open invoices that were aged. With Infor CloudSuite, Montgomery County has tools to support productivity, forecast more accurately, and analyze the business more effectively — ultimately gaining greater insight to make more-informed decisions that directly impact bottom-line results and constituent interactions.

“This project, and modernizing our business operations to be more flexible and responsive, was incredibly important to our organization. For a large portion of the implementation, we were navigating an unprecedented COVID-response situation with ever-changing needs and demands on our limited resources — but that did not stop us,” said Dean Dortone, Montgomery County chief financial officer. “I want to thank the entire implementation team at the county for their work to help us deploy the latest

iteration of Infor during these unprecedented times.”

Infor Financials and Supply Management (FSM) applications are role-based, data driven, consumer-inspired, and mobile enabled. The modern analytics software will help Montgomery County understand key business drivers and visualize changes that will drive growth and profitability. Now, the organization will have necessary information to better understand risks, overall performance, and the impact of decisions across teams.

“It comes as no surprise that government agencies face escalating pressure to maximize efficiency,” said John Edwards, Infor executive vice president and general manager - service industries portfolio. “Infor understands that cloud technology and the agility it brings provide these organizations with new processes and tools to support doing business better and transforming interactions with constituents, other government stakeholders, and internal teams. We’re experiencing momentum in Infor’s public sector business because we are building specialized solutions that directly impact the support needs of these communities.”

## ***OP Collaborates with Accenture to Transform its Digital Banking Operations***

15 December 2021

OP and Accenture have renewed their collaboration to develop and deliver new services that will further optimize OP’s digital banking operations. Using automation, advanced analytics and other emerging technologies, the two companies will work together to increase business agility, reduce costs and deliver enhanced customer and employee experiences.

As part of the collaboration, OP will adopt the intelligent automation platform Accenture myWizard<sup>®</sup>, which allows for the automation of routine tasks and can enable employees to be more proactive and focus on more meaningful work. With this automation platform OP will also be able to extract greater value from its technology investments — accelerating its technology transformation.

Juho Malmberg, OP Financial Group’s director of Technology and Development, said, “Our mission is to help our customers achieve their financial goals in a sustainable and secure way. Providing high quality, efficient and ever-improving services, processes and tools for our employees, who in turn deliver superior digital customer experiences, is a key priority for OP. Accenture’s deep banking industry expertise and innovative automated solutions, combined with our agile delivery methods, will help us reach our goal of becoming Finland’s leading financial group.”

“Amid rapid industry change and evolving consumer expectations, many financial institutions are advancing their digital transformation strategies,” said Neeta Nagar, technology lead for Accenture’s Financial Services industry group in the Nordics and account lead for OP Financial Group. “OP is approaching its transformation from a position of great strength as a leader in agile delivery. By leveraging the automation and AI capabilities of myWizard, we’re combining human ingenuity with digital capabilities to transform processes and ways of working to help OP create a future-ready banking practice that puts customers and employees at the center.”

## ***UMPI to deploy IoT-based Wipro Sewage Monitor Solution for Efficient Wastewater Management and Sustainability***

15 December 2021

Wipro Limited, a global leader in information technology, consulting and business process services company, has unveiled an Internet of Things (IoT) solution that enables municipalities to monitor their water systems in real time, even in an aging infrastructure. As climate change drives extreme weather,

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cities worldwide are looking to update their water and sewage infrastructure to respond to this crisis faster while ensuring the health and safety of their residents and protecting the environment.

The new IoT platform - Wipro Sewage Monitor, leverages advanced connected sensors and a robust Artificial Intelligence (AI) and Machine Learning (ML) platform to generate real-time insights that will enable organizations to continuously monitor water systems and perform proactive maintenance. This helps utilities and cities alike to comply with environmental water policies, while safeguarding communities and municipal workforces.

Wipro has entered into a partnership with Italy-based UMPI, a manufacturer of intelligent products and systems, who will use the Wipro Sewage Monitor to empower water companies in Europe to improve accuracy and efficiency as they monitor their systems. The Wipro Sewage Monitor is equipped with a range of advanced IoT sensors, including millimetre wave radar capabilities and accurate temperature gauges that can be easily installed even in aging water systems. The solution also supports utilities' efforts to protect the environment, as it enables them to take the necessary steps to prevent environmentally harmful wastewater pollutants from escaping the utility network.

“Ours is a country where attention to water resources is particularly high. UMPI is honored to bring to Italy an innovative product like Wipro Sewage Monitor, which has immediately proved to help optimize system and management costs,” said **Davide Piccaluga, Chief Technology Officer, UMPI**.

“IoT solutions like the Wipro Sewage Monitor show the impact and benefits that the addition of smart capabilities can have on vital infrastructure. With Wipro’s EngineeringNXT platform of offerings, we continue to invest in technologies that can help accelerate digital transformation and work with our partners in the public and private sector to keep moving forward,” said **Yves-Antoine Brun, Vice President and European Head - Engineering and R&D Services, Wipro Limited**.

Certified by leading regulators, Wipro Sewage Monitor functions at low cost for up to seven years of battery life. This flexibility allows it to increase the efficiency of the municipal water system and reduce operational costs.

## ***Wipro Selects Oracle Cloud to Help Speed Digitalization of Air Cargo Processes***

13 December 2021

Oracle announced that Wipro Limited, a leading global information technology, consulting and business process services company, has chosen Oracle Cloud Infrastructure (OCI) to power its next-generation Cargo Reservations, Operations, Accounting and Management Information System (CROAMIS) Application suite. This will allow Wipro to offer CROAMIS as part of Wipro FullStride Cloud Services, to customers worldwide, aiding faster modernization of the air cargo industry amidst growing demand for rapid cargo transportation services. Wipro chose OCI for its superior performance, high availability, built-in security, and lower cost.

Wipro is an Oracle Cloud Service partner. Through its comprehensive portfolio of services, presence across six continents and over 220,000 employees, Wipro harnesses the power of cognitive computing, hyper-automation, robotics, cloud, analytics, and emerging technologies to help clients across multiple industries, including travel and transportation, adapt to the digital world.

“There has been significant change in the supply chain, particularly in key industries such as pharma and e-commerce, which need goods to be moved rapidly around the world. While this has led to air cargo gaining share, it has also created the need for this industry to fast-track its modernization through the use of cloud and other digital technologies,” said Gopi Krishnan, Vice President and Managing Partner, Domain & Consulting Services, Consumer Sector, Wipro Limited. “Now, with CROAMIS on OCI, we

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will further strengthen our position as the technology partner of choice for many air cargo organizations. We envision its use will help our customers to scale faster, achieve increased business efficiencies, accelerate their pace of innovation, benefit from greater security, and reduce their data storage and outbound data transfer cost.”

Wipro has migrated its CROAMIS application to the Oracle Cloud and will offer it as a modular SaaS solution based on a combination of Oracle Exadata Cloud Service and Oracle Exadata Database Cloud Service leveraging OCI’s fast, flexible, and affordable compute capacity. As such, organizations will be able to more quickly and easily automate the complete air cargo lifecycle spanning: cargo capacity planning, sales, revenue management, cargo ground handling operations, warehouse management, freighter and charters, customer services, cargo revenue accounting, and billing.

“Developing and deploying commercial software can be a complicated and costly proposition,” said Hwa Cheong Wong, VP-ISV, JAPAC, Oracle. “To do this successfully in the cloud, independent software vendors (ISVs) need extreme speed, security, and scalability, as well as cost transparency. That’s why an increasing number of the world’s top ISVs, such as Wipro, are turning to Oracle Cloud Infrastructure. Migrating its business-critical CROAMIS application to Exadata Cloud Service and Database Cloud Service using OCI’s flexible compute capabilities, will enable Wipro to achieve levels of performance and economics that exceed that of any other cloud platform and, in turn, deliver a better experience for its customers worldwide.”

“Global supply chain dynamics have gone through a significant transformation due to the pandemic. The gap between demand and capacity has been a serious issue during the pandemic, and this has added tremendous cost pressure on the industry. Moreover, the move to eCommerce demands goods to be moved quickly, which adds extra pressure on cargo operators”, said Sanchit Vir Gogia, Chief Analyst, Founder & CEO, Greyhound Research. “As a result, these operators are looking at digital technologies that allow a more unified working across the value chain and reduce administrative burden. Cloud is the natural choice for such digital transformation engagements to help improve the speed of innovation and reduce costs.”

Wipro CROAMIS Application will be available in the Oracle Cloud Marketplace by the end of 2021, making it easier for air cargo organizations to engage these new services, modernize their business processes and benefit from superior cloud economics.

## Product News

### ***ActCAD 2022 Update 1219 Released, Dt.15-Dec-2021***

15 December 2021

ActCAD announces the release of its new version 1219 for ActCAD 2022 Prime and ActCAD 2022 Standard products.

ActCAD 2022 BIM and ActCAD 2022 Professional can now upgrade to ActCAD 2022 Prime.

This is a general maintenance release of 2022 version. Below is a list of improvements:

- Fixed Regen hang issues with WINGLES graphics device
- Fixed the issue of FONTALT set to "." in a particular drawing
- Fixed some prompts not match in some dimension commands
- Fixed entprop restore "Quick Select" alternative to "Selection Filter"

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- Fixed the save issue of a problematic drawing
- Fixed default rotation angle in Attach External Reference dialog depends on ANGBASE
- Fixed incorrect snapping to 3d solids and meshes in some visual styles
- Fixed incorrect file search order makes most of basic commands broken
- Fixed reload issue of XREFs on SAVE & PRINT
- Fixed explorer crash issue in a particular drawing
- Fixed double-click editing of OLE entity
- Fixed too dark color on the white background
- Added new sysvars BKGEDITTEXTTRANSPARENCY and BKGEDITTEXTCOLOR
- Fixed MTEXT some spelling tool issues
- Fixed the issue of Revit file link / reference
- Fixed wrong tab bar placement in MTEXT editor
- Fixed some visualization issue in MTEXT editor

The new versions are available from ActCAD download page. Existing users can use Check for updates command to get the latest version.

## ***Adapdix ushers in Industry 5.0 autonomous manufacturing with EdgeOps™, the first hybrid cloud platform with DataMesh technology***

14 December 2021

Adapdix Corporation, the industry leader in autonomous systems, announces Adapdix EdgeOps™, a software platform that combines autonomous control with distributed DataMesh technology to enable autonomous manufacturing. It delivers high performance, substantial operational efficiencies, and cost savings for manufacturing businesses.

“What’s different about EdgeOps is that we are pioneering autonomous systems that make the enterprise adaptive, by enabling real-time equipment self-correction and optimization. With DataMesh technology at the core of our platform, we help companies uncover, understand, and recognize value from the data that they already generate,” said Anthony Hill, Founder & CEO at Adapdix. “The customers that we focus on – precision manufacturing and other industrial sectors – are generating large amounts of data at the edge. Manufacturing applications are particularly challenging because they require distributed data management and analysis that delivers insights in milliseconds. Additionally, EdgeOps provides our customers the ability to scale autonomous applications from the equipment to the enterprise level, delivering value never before realized. Ultimately, this approach helps customers execute their hybrid cloud strategy.”

For the last decade, manufacturers have embarked on a journey commonly referred to as Industry 4.0. While some have recognized gains from their efforts, many are stuck in “Pilot Purgatory.” Edge-to-cloud integration, remote connectivity, and autonomous manufacturing are far more than conceptual. These technological innovations are already upon us, and recent disruptions like the global chip shortage, supply chain delays, labor challenges, and COVID-19 have accelerated many of those dimensions. Today, manufacturers must ask what’s next. How can they meet their never-ending productivity goals and launch their facilities into the next industrial revolution – Industry 5.0 – where humans and machines interact seamlessly to optimize their operations?

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“Recent disruptions have also served as a catalyst for innovation, growth, and business transformations,” said Ritu Jyoti, Group Vice President, Worldwide AI and Automation Research at IDC. “Combined with the ever-growing volume and complexity of data generated at the edge, operational leaders are searching for hybrid cloud solutions that can deliver real-time operational value while intelligently managing data across both edge and cloud endpoints. By integrating the technology of recently acquired Edge Intelligence into the EdgeOps platform, Adapdix now provides hybrid cloud software built to execute AI/ML at the edge combined with a next-generation distributed data management system enabling customers to maintain data where it’s generated, but query and analyze that data globally.”

Ushering in this Industry 5.0 vision, EdgeOps’ modern containerized architecture captures, stores, analyzes, and synchronizes data, delivering machine intelligence and autonomous control of advanced manufacturing environments – all in milliseconds. EdgeOps improves latency, security, privacy, and cost, by bringing applications to your data as opposed to requiring you to move your data to the application. Leveraging the power of our DataMesh to merge data of all types, EdgeOps bridges any data silos that may exist by linking events across multiple sources. This improves application performance, data quality, and contextualization, which forms the foundation for autonomous systems control.

The prescriptive optimization and autonomous control delivered by EdgeOps has delivered rapid and sustained ROI. For example, customers have measured a 45% reduction in equipment maintenance costs, downtime reduced by 50%, and 20% increases in throughput. Adapdix software is used by customers across a variety of industrial verticals, including top semiconductor manufacturers, to improve operational performance.

While some talk about data convergence, Adapdix enables true autonomous control and hybrid cloud data management. Get started in days and see ROI in weeks. This is the Adapdix difference. Visit [Adapdix.com](http://Adapdix.com) to free yourself from “Pilot Purgatory” and begin your Industry 5.0 journey.

## ***Centric Software® Launches PLM for Cosmetics and Personal Care***

13 December 2021

Centric Software, the Product Lifecycle Management (PLM) market leader, has launched next-generation PLM solutions specifically for cosmetics, beauty and personal care brands, retailers and producers. 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.

With over 500 successful deployments and boasting a 99% customer retention rate, Centric has partnered with hundreds of brands, retailers and manufacturers across multiple consumer goods verticals and gained considerable product-specific best-practices. Leveraging industry expertise combined with a Silicon Valley approach to innovation and close customer alliances, Centric is now bringing market-driven, user-friendly solutions to perfumes, cosmetics and personal care.

Centric’s flagship platform, Centric PLM™ is packed with industry-led digital transformation solutions that enable all types and sizes of perfume, cosmetics and personal care companies to boost product innovation, improve supplier collaboration, optimize product development and develop & proof packaging while ensuring product quality and compliance.

“We’re operating in such a high pace environment that it’s important we can rely on our back-end systems, like Centric PLM, to help set our business up to meet our customers’ needs today and well into the future. Centric PLM will provide us with a comprehensive end-to-end solution to help us handle

large volumes of product launches, while making sure we meet strict compliance regulations,” said David Cumberland, Head of Finance at MECCA.

Asaf Hen, VP IT and Information Systems at AHAVA, a leading Israel-based global cosmetics brand explains, “When we spoke to major cosmetic brands using Centric PLM, like Kiko Milano, we realized that we could learn from others, and we want to do that. This is exactly why we went with Centric Software.”

“We work in close partnership with our customers to innovate industry-led solutions, which has resulted in the development of features that address specific challenges of creating and selling perfumes, cosmetics and personal care products,” says Chris Groves, President and CEO of Centric Software. “We’re looking forward to building more relationships with customers in these industries who need next-generation digital transformation solutions.”

## ***COMSOL Releases Version 6.0 and Introduces Model Manager and Uncertainty Quantification Module***

14 December 2021

COMSOL, the leading provider of software solutions for multiphysics modeling has released version 6.0 of the COMSOL Multiphysics® software. The release introduces the Model Manager, a new workspace in COMSOL Multiphysics that enables efficient simulation data management and collaboration. Also introduced with version 6.0 is the Uncertainty Quantification Module. This is a new add-on product to COMSOL Multiphysics that uses probabilistic design methods to quantify uncertainty in analyses and predetermined safety margins. Version 6.0 further brings major improvements to the solvers with performance speedup by a factor of 10 in engineering areas such as heat radiation and models subjected to nonlinear structural material behavior. With version 6.0, COMSOL promises to boost the productivity of engineers, their teams, and their enterprises in the areas of product design, process development, and manufacturing.

**The Model Manager Provides Structure, Version Control, and Effective Collaboration**

The Model Manager is fully integrated in the COMSOL Multiphysics user interface and is designed for simulation data management, version control, tracking changes, and advanced search functionality within models, CAD data, and other related external files. It provides a structured workspace where colleagues and teams can collaborate within their organizations and even with external parties, putting the focus on effective product design and innovation. Efficient data storage that keeps only changes made to previous versions and the easy setup of branches and merging them for parallel model development, also contribute to an organization’s efficient modeling and simulation workflow.

“The Model Manager expands on COMSOL’s cutting-edge multiphysics modeling capabilities and our fast-paced strategy of placing COMSOL Multiphysics as the primary tool for democratizing simulation in the CAE market,” says Svante Littmarck, CEO and president of COMSOL. “We now complement our revolutionary Model Builder and Application Builder, for developing multiphysics models and simulation apps, with the Model Manager for model development and simulation data management. Together, this functionality will facilitate collaboration within engineering groups, across departments and enterprises, and even between countries. This will inevitably lead to better process and manufacturing designs as all competencies of an organization are harnessed effectively.”

To allow full collaboration across enterprises, COMSOL’s floating network license type allows users from anywhere within and outside of the license holder’s organization to access a centralized Model Manager installation. This also includes collaborators across geographical and territorial borders.

Additionally, a local Model Manager installation is included with all licenses — even those that are not floating-network based — to provide a platform for building an individual user’s file storage structure, while updating versions and tracking changes of their modeling projects.

Sensitivity and Reliability Analyses Are Enhanced Through the Uncertainty Quantification Module While the Model Manager expands COMSOL’s footprint within the world of engineering design and development, the Uncertainty Quantification Module makes it possible to produce more complete, accurate, and useful multiphysics models. Based on probabilistic design methods, users can, with reliability analysis, look at questions such as how manufacturing tolerances affect the intended performance of the final product, to prevent over- and under-designs of devices and processes. Screening and sensitivity analyses reveal which parameters are more important than others, which can be used to efficiently test the validity of basic model assumptions, for example, and uncertainty propagation is used to assign probability distributions to the output quantities of interest.

“A strength of the Uncertainty Quantification Module is that it can be applied to any physical simulation covered by COMSOL Multiphysics,” says Jacob Yström, technology director of numerical analysis at COMSOL. “You are not limited to a certain field or application area, such as structural analysis, but can perform the same types of uncertainty analyses on applications based on acoustics, fluid flow, electromagnetics, and so on, and even when these phenomena are coupled. This makes this product wide-ranging and very powerful.”

COMSOL Multiphysics Version 6.0 Improves Performance and Expands Modeling Capabilities COMSOL Multiphysics version 6.0 includes important updates to the software platform and add-on products. This includes performance improvements through speedup and memory consumption by a factor of 10 for certain engineering applications. Feature enhancements include more efficient electromagnetic simulation of PCB designs and a new realm for acoustics modeling: flow-induced noise.

Details about new features and improvements across the entire product suite are available in the COMSOL Multiphysics Version 6.0 Release Highlights.

**Availability** COMSOL Multiphysics®, COMSOL Server™, and COMSOL Compiler™ software products are supported on the following operating systems: Windows®, Linux®, and macOS, including the macOS M1 processor.

## ***Kubotek3D Releases 3.3 Versions of K-Display and K-Compare Products***

16 December 2021

Kubotek3D, a leading supply chain software provider, announced the 3.3 release of the Kubotek K-Compare and K-Display software products. This release provides updated CAD readers across all 3.3 Kubotek K-Compare and K-Display software programs to support new versions of six major CAD file formats. The new releases are available for customers to download immediately.

### **Updated CAD Translators**

Reading of 3D CAD files across all 3.3 Kubotek K-Compare and K-Display software programs has been updated to support new versions of six major CAD file formats:

- Siemens NX through 1988 (1980 Series)
- PTC Creo 8.0
- Autodesk Inventor 2022
- Kubotek KeyCreator 2022 (K-Compare) or IFC (K-Display)
- Siemens DIS Parasolid V34

- Dassault Spatial ACIS 2021

Free trials of Kubotek software are available.

## ***NEW: December 2021 NX Release Update***

10 December 2021

On December 10, 2021 William Chanatry announced via Siemens Blog that the newest update of Siemens NX has been released. NX is on a 6-month release schedule with this release including AI enhancements, updates to the search function, 2D outline automation, Topology Optimization, and more. Read the full blog post for more details. <https://blogs.sw.siemens.com/nx-design/new-december-2021-nx-release-update/>

## ***Plant Design 2022: New version released***

10 December 2021

The new release of Smap3D Plant Design has been available since December 2021 and features a special highlight in addition to enhancements in the P&ID, Piping and Isometric applications: The proven end-to-end plant design solution can now also be integrated with the renowned CAD software Autodesk Inventor. In the following, we present some selected innovations.

### **NEW: Integration with Autodesk Inventor**

After Solid Edge and SOLIDWORKS, the Smap3D Plant Design software package can now also be combined with Autodesk Inventor. With the sophisticated end-to-end plant design solution, Inventor users can generate 2D diagrams, then plan them as 3D piping directly in the CAD, simulate feasibility, create isometrics and connect manufacturing via MES. In addition, a large number of available pipe classes from various industries, symbol libraries, standard part libraries and internal plausibility checks are available. The creation of individual (factory) standard parts is also possible with Smap3D Plant Design 2022 for Autodesk Inventor.

### **P&ID: Edit line data**

The new *Edit lines datafield* tool now provides users with the same multiple editing convenience for line data fields as for symbols and symbol data fields, where it has been available for many versions.

### **Isometric: New interfaces for custom applications**

**Custom Postprocess Plug-Ins:** This new interface allows customers to use custom plug-ins (EXE or DLL files) to perform additional custom processing and automation with the files output from Isometric and ISOGEN©.

**Use of custom Python scripts:** With this new interface, customers can have their own developed "Python scripts" applied within the Isometric *rules* so that the determination and processing of the necessary property values fully comply with the customer's specifications before they are passed to ISOGEN© for the creation of the isometric drawings.

## ***ProcessMAP Releases Construction Industry's First End-To-End Software And Data Analytics Platform To Keep Workers Safe***

16 December 2021

ProcessMAP Corporation, the leading digitization and process transformation platform that empowers customers to minimize their Health, Safety, and Environmental (HSE) risks, announced today that after more than two years of co-innovating breakthrough solutions in collaboration with global construction-

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industry customers, the company has released one of the world's most comprehensive digital transformation software solution tailored for the specific needs of the construction industry.

## **Construction – A Macro-Economic Sector that Needs a Comprehensive Safety Solution**

The global construction market is estimated to grow by \$4.5 trillion between 2020 and 2030 to reach \$15.2 trillion<sup>1</sup> in overall value. This macro-economic sector is also one of the top industries for worker safety incidents. On average, injury or incident rates in the construction industry are 71% higher than other industries. .

As the global economy rebounds from the impact of the COVID-19 pandemic, and investments in construction projects accelerate, there is a critical need for a robust, integrated, end-to-end safety management system that is designed for the specific needs of the construction industry.

## **8 Key Pillars to Build and Sustain a World-class Construction Safety Program**

ProcessMAP partnered with some of the leading industrial and infrastructure construction companies to build the ready-to-use solution on its proven software platform. The ProcessMAP solution for the construction market is founded on eight fundamental pillars of safety:

- **Establish standardization and process consistency** – across all construction projects and O&M sites
- **Accelerate Digitization of Key Processes** with a 100% mobile solution to empower employees to bring efficiency and reduce human errors
- **Engage, Empower and Recognize Employees** to drive safety
- **Integrate Information and Data Silos** to centralize data and gain a holistic view of EHS performance at every level of the organization
- **Drive Data-Driven Decisions** via integrated analytics and data visualization
- **Mitigate Risk Exposure** by proactively identifying deficiencies and implementing corrective actions
- **Sustain Compliance** with internal, customer as well as external regulatory requirements
- **Institutionalize Knowledge** to ensure critical people-centric knowledge are retained

## **An Integrated Suite of Advanced Software and Content Solutions for Comprehensive Safety**

ProcessMAP construction safety software solution include key capabilities such as, including Incident Management, Audits Management, Sustainability Management, Risk Assessment, Hazard Reporting and Safety Suggestions, Behavior-based Safety, Training Management, Permit to Work, among others helps to mitigate risks and protect the workforce proactively. The digital platform is equipped with preloaded inspections & audit checklists, safe work permit checklists, and other content to start quickly. The solution comes with built-in advanced analytics which provides actionable insights to drive safety performance.

## **Demonstrating Safety Performance Improvements at 1,000+ Construction Project Sites**

Safety processes such as inspections, hazard observations, Tool Box Talks, incident reporting, safe work permits, and others, play a key role in driving safety at a construction project site.

ProcessMAP's construction safety platform has been deployed at more than 1,000 sites globally over the last two years, and significant process transformations have been noticed within a short span of time:

- 120% increase in hazard & near miss reporting
- 250% increase in asset and workplace inspections

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- 100% safe work permits issued digitally over mobile solutions
- 140% reduction of lag time in reporting an incident over a year
- 300% increase in incident investigation completed within 24 hours
- 450% increase in total action items
- 44% increase in on time closure of action item

## Comments on the News

“We are excited to bring a safety software solution for the construction industry. Customers in the construction industry operate in one of the most risk-prone environments where the risk variables continuously change. Digital has a transformative role to play to help drive safety-centric construction at a project site,” said **Jagan Garimella, CTO of ProcessMAP Corporation**.

“ProcessMAP’s long history of collaborating with customers to co-innovate breakthrough solutions is again demonstrated in what we are bringing to the market. It is the convergence of technology, content, and global best practices that will give our customers an edge over their peers,” said **Ashish Mohanty, Head of Asia-Pacific operations at ProcessMAP Corporation**, who led a global team to build the solution.

## *progeCAD 2022 on the brand-new engine speeds up drawing and editing in DWG*

10 December 2021

ProgeSOFT prides itself on the release of progeCAD 2022, the DWG/ DXF-native CAD for professional drawing with perpetual licensing solutions. The combination of software enhanced performance on the new engine and the redesigned User Interface is at the center of the progeCAD 2022 release.

The new release accelerates the overall drawing process speeding up such operations as open, regen, layout switch, and object snapping. progeCAD 2022 has now also dynamic input on Grips, more grips for quicker editing, optimized selection functioning, faster and smoother transitions with animation while panning, zooming, or changing views and spell-check on the fly for multiline, multileader, and tables text. The smart restyling and code refactoring of some software components involved Start Page, Perspective mode and View Manager Dialog. Among the new features, the progeCAD 2022 release also offers in-place text editing in Tables that now have numeric rows and alphabetical columns just like in AutoCAD®; the Sheet Set Manager for better organization and easier access to drawings, and as always some discipline-specific new functionality such as the GEO command for geolocation with Bing Maps, Revit® 2021 Import/attach, and more.

progeCAD Professional is a 2D/3D DWG/DXF CAD supporting AutoCAD® DWG versions 2.5 - 2022 and ensuring full compatibility for sharing DWG/DXF drawing files. Getting started with progeCAD is intuitive for those familiar with AutoCAD®. progeCAD Professional does even more organizing to better a CAD professional daily design routine thanks to its extra tools included for free, such as 3D PDF export, the PDF to DWG converter, the Vectorizer, the Block Libraries Manager, the EasyArch plugin, the Artisan Render module, multiple file-formats support to exchange data with other software applications, and more. progeCAD is the smart DWG CAD platform used by engineers, architects, construction professionals, interior designers, real estate developers, product designers, and the list can go on and on.

Some new features of the progeCAD 2022 edition:

- **START PAGE.** The redesigned Start Page has a stylish cleaner interface look to offer easy

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access to a variety of initial actions, including access to drawing template files, recently opened drawings as well as online and learning resources.

- Dynamic input feature on Grips. Dynamic input includes command prompts and measurement guides displayed on the screen while drawing and editing (2D & 3D).
- Geolocation with Bing Maps. You can insert geographic location information into a drawing file as a graphic background by specifying the location of a reference point on a map provided by the Bing Maps service. Geographic location information is assigned to a drawing file by capturing a portion of the Bing online map to an object known as a map image and embedding it to the drawing area. Maps can be visualized as Aerial (terrain), Road or mixed. The command is provided with the menu and useful contextual Ribbons.
- Incremental Save. It updates only those portions of an already-saved drawing file that you've changed, improving the Save time.
- TABLE and TABLEDIT. AutoCAD® like Text in-place editing, numeric Rows, and alphabetical Columns. New contextual Ribbons for Tables.
- AutoCAD®- Like Solid grips. Use grips to change the size and shape of 3D solids and extruded surfaces.
- Improved 3DConnexion mouse support. All new powerful 3DConnexion devices are now supported.
- Improved Array. New Array Grips. New contextual Array Ribbons.
- Associative ARRAY. progeCAD can now create Associative Arrays of multiple entities editable through the properties panel. It is now extremely easy to dynamically modify a number of items, rows, columns, angles, rotation etc.
- SHEETSET - Sheet Set Manager. progeCAD Sheet Set Manager is an amazing tool to manage your drawings from start to finish in your design project. Using sheet sets in the most basic way you simply take drawing files and arrange them in proper order, so they can be easily retrieved when working through your project.
- Improved Dynamic Blocks handling. New insertion options are supported.
- Wood Details, Steel and Profiles Standards. All shapes are now available in 3D.

“Adopting the right tool is crucial to the success of your project. Go for progeCAD 2022 and its perpetual licenses to create and edit your DWG drawings in less time and with more accuracy. The software is successfully used, virtually, by anyone from individuals and small professional studios to medium-sized companies and large corporations who are looking to save themselves time and money.” commented Marco Lucini, CEO at ProgeSOFT SA.

To learn all progeCAD 2022 new features, please refer to the official website and the dedicated YouTube Channel.

## ***Remeha masters BIM challenges by providing 3D BIM CAD models of heating systems***

9 December 2021

### **Simplified project planning thanks to intelligent Remeha CAD product data powered by CADENAS**

It is indispensable in today's construction industry to have detailed and comprehensive digital building planning/ plans including information for all trades. For this to work, all manufacturers in the

construction industry are required to actively participate in this development. Remeha, a specialist for innovative heating systems, offers high-quality products as well as comprehensive service. This includes providing extensive BIM and CAD data for free download. Remeha chose the software manufacturer CADENAS, one of the leading providers of electronic product data, as their partner for implementing their digital catalog.

## **Digital Remeha product data as well as tender text for architects & planners**

Remeha has been offering a comprehensive BIM and CAD download portal based on the eCATALOGsolutions technology by CADENAS since the beginning of 2021. The download portal can be found on the German Remeha website under the "Technical Support" tab or at [www.partcommunity.com](http://www.partcommunity.com). The individual products are arranged according to subject areas such as gas condensing wall/standing/heating center, hybrid systems, air/water heat pumps or cogeneration. The appropriate data can be found quickly and processed directly in the CAD system. Almost all products are available in various native and neutral CAD formats. In addition, the preview displays 2D and 3D view as well as a dimensioning view, along with sectional and exploded views. The option of creating a shopping cart makes it possible to request corresponding tender texts directly from Remeha. Planners can also follow the link to the German database for tender texts [www.Ausschreiben.de](http://www.Ausschreiben.de) directly from the product.

## **Mastering BIM challenges with CADENAS**

"Remeha has been working very intensively on the topic of Building Information Modeling over the last 18 months. Digital planning is picking up mightily and will have a significant impact on our future actions. We at Remeha are already facing up to this challenge today and want to be a reliable partner for all interested parties, also in terms of BIM," says Frank Draber, Head of Plant Engineering at Remeha. "With CADENAS, we have found an innovative partner for the provision of our product data, with whose technology we will always be up to date."

## ***Simcenter Flotherm 2021.2: What's New?***

13 December 2021

Byron Blackmore of Siemens posted an update announcement about Siemens Simcenter Flowtherm to the Simcenter blog on December 13, 2021. Flowtherm now supports Xcelerator Share cloud service and other enhancements. Read the full post for more. <https://blogs.sw.siemens.com/simcenter/simcenter-flotherm-2021-2-whats-new-xcelerator-share/>

## ***Synopsys SiliconSmart Library Characterization Solution Achieves Certification for TSMC N5, N4 and N3 Advanced Processes***

16 December 2021

Synopsys, Inc. announced its SiliconSmart® library characterization solution has achieved certification from TSMC for the foundry's N5, N4 and N3 process technologies. A part of the Synopsys Fusion Design Platform™, the SiliconSmart solution is equipped with needed enhancements to support cell library characterization at advanced nodes, accelerating successful digital implementation for mobile/5G, high-performance computing, artificial intelligence (AI), automotive, internet of things (IoT) networks and aerospace and defense applications.

"Certification of the SiliconSmart library characterization solution on our latest process technologies will provide our mutual customers with high confidence of achieving signoff accuracy and faster time-to-market through an accelerated path for TSMC N5, N4 and N3-based designs," said Suk Lee, vice

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president of the Design Infrastructure Management Division at TSMC. "Our longstanding collaboration with Synopsys is again supporting designers to meet the stringent power and performance requirements and quickly launch their differentiated products to market."

Library data accuracy has become essential to model increased design complexity at advanced nodes. At the same time, the scale of library characterization has increased many-fold to hundreds of PVT corners on tens of thousands of cores. Yet, synthesis, place-and-route, verification and signoff tools count on having precise model libraries that accurately represent timing, noise and power performance of digital and memory designs.

The SiliconSmart core engine delivers comprehensive library characterization as well as quality assurance capabilities tuned to produce Synopsys PrimeTime® signoff-quality libraries. Its speed and accuracy are essential, as process variability at advanced nodes require both to model effects on timing. SiliconSmart technologies use reference SPICE engines for faster characterization of advanced Liberty™ models used by the PrimeTime static timing analysis solution to account for effects in low-voltage FinFET processes that affect timing. The solution supports advanced industry-standard models including LVF (Liberty Variation Format).

"Customers are experiencing a 3x increase in compute demand from node to node, along with greater PVT combinations challenges," said Jacob Avidan, senior vice president, Synopsys Silicon Realization Group. "Our SiliconSmart library characterization solution with its core engine successfully provides high-quality, scalable solutions to address customers' design challenges. This certification is a result of our continued successful collaboration with TSMC on advanced nodes to deliver accurate, high-performing technologies, which will provide our mutual customers with the performance and productivity they need along with an accelerated path to silicon production."

## **Availability**

The Synopsys SiliconSmart library characterization solution is now available.

## ***What's New in NX for Manufacturing (December 2021)***

10 December 2021

Shannon Kruse of Siemens announced the newest release of Siemens NX for Manufacturing on December 10, 2021. The newest functions include updates to: NX CAM, NX Additive Manufacturing, Manufacturing Process and Data Management, NX CMM Inspection Programming, NX Assembly Line Planner, and NX Line Designer. To read the full details go to the Siemens blog post.

<https://blogs.sw.siemens.com/nx-manufacturing/whats-new-in-nx-for-manufacturing-dec-2021/>

## ***Wipro Expands Sports, Entertainment, Retail and Transport Offerings with Launch of Wipro VisionEDGE Solution***

13 December 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced Wipro VisionEDGE, a dynamic digital signage and omni channel advertising solution, to expand its sports, retail, transportation, and entertainment offerings. Formerly known as Cisco Vision, Wipro VisionEDGE offers a converged platform for innovation, and allow brands to manage, and stream content to deepen customer engagement.

As stadiums, airports, retailers, and other venues seek more efficient ways to engage with customers, Wipro VisionEDGE solution offers the flexibility to deliver a wide range of high-quality video and

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advertising to transform customer experience. Wipro VisionEdge will leverage the potential of Wipro FullStride Cloud Services to deliver clients the ability to unlock new business value from their brand properties and create new revenue streams.

Wipro has partnered with Cisco to offer the solution to customers through the Cisco SolutionsPlus program and Cisco Global Price List (GPL) in late 2021. In addition, both companies will continue to invest in the go-to-market plans and expand into newer potential applications for the Wipro VisionEDGE solution.

“Wipro’s 26-year strategic partnership with Cisco is a testament to our ability to keep pace with the changing business and technology landscape, and deliver value through differentiated offerings and innovative partnership models. The launch of Wipro VisionEDGE through Cisco’s SolutionsPlus program will significantly expand our solution and services reach to worldwide customers. We will continue to build new features, capabilities and services leveraging our EngineeringNXT and 5G offerings to deliver value and new business opportunities for our customers. We are excited to enter the next phase of this strategic partnership with Cisco,” said **Malay Joshi, Senior Vice President & Sector Head – Sports, Communications, Media, Technology, Wipro Limited**.

“As the digital advertising market continue to grow and transform, we are excited to build on our partnership to deliver Wipro VisionEDGE and best-of-breed solutions to our customers,” said **Ken Martin, Managing Director Global Sales - Sports, Media, and Entertainment Industry Group, Cisco**. “The sports, media, entertainment, transportation and retail industries are all undergoing major transformations backed by converged networks, wireless technologies, IPTV (Internet Protocol television), IP-fabric, sensors, cloud native applications, 5G, Artificial Intelligence and other groundbreaking innovations that will deliver unprecedented opportunities. We will continue to invest in our solutions portfolio and work closely with our customers and partners to support their evolving needs and adopt the best technologies on the market.”