PLM Industry Summary

Editor: CIMdata News Team

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CIMdata News

Announcing PLM Road Map & PDT EMEA 2022

16 June 2022

CIMdata and Eurostep are pleased to announce that PLM Road Map & PDT 2022 EMEA will be an in-person event at the Lindholmen Conference Center in Gothenburg, Sweden. The theme for the conference is "Digital Transformation and PLM – a call for PLM Professionals to re-define and re-position the benefits and value of PLM." The event will take place on 18 & 19 October.

PLM Road Map & PDT 2022 will focus on the interests of the PLM Professional. With this in mind, the agenda will offer a mix of reports and case studies from industry experts, covering technologies, processes, and people. PLM Road Map & PDT EMEA 2022 will highlight the role of PLM in enabling holistic and sustainable Digital Transformation. Presentations will investigate where PLM has been successful and why. Additionally, we will consider the positioning of PLM within the enterprise.

Agenda topics will seek to answer the following questions:

- How do we improve PLM implementations to better align with shifting expectations?
- What is the best use of PLM to support the design and implementation of agile yet resilient supply chains and, in general, reduce and manage enterprise risk?
- How can PLM support the actionable enterprise, helping management teams to understand, make decisions, and manage the future?
- What is needed for the PLM community to move to an interoperable system for data reuse and openness, eliminating process gaps and business friction?
- How do we include PLM as part of strategic AI and Machine Learning investments?
- What is the role of PLM in a post-COVID-19 world, and how do we reset for it?

According to CIMdata's President & CEO, Peter Bilello, "After two years of highly successful virtual-live events, it's time for the PLM Economy to come together again. Our first in-person conference since November 2019 took place in May 2022 in the Washington D.C. area and was a great success. The EMEA event promises high value and accessibility to PLM professionals from multiple industries across the globe. Our theme focuses on the elements vital to enabling a successful PLM strategy—equipping the PLM Professional with insight on how to get the most out of the people, processes, and technologies that enable a successful PLM environment."

"While the tech sector is very much driven by disruption, it must deliver value to end-users," says Håkan Kårdén, co-founder and Marketing Director, Eurostep Group. "In 2021, PLM Road Map & PDT focused on disruption, but it is now time to look at the value delivered—short and long term. Value delivered is more important today than ever, and PLM professionals need to understand enterprise initiatives and goals in the board room. As PLM is constantly increasing in scope and footprint, the potential is growing, and the list of possible and realized improvements is putting PLM in the spotlight. PLM technology together with people is key in enabling much-needed Digital Transformation."

For more information about PLM Road Map & PDT EMEA 2022, please visit the CIMdata website https://www.cimdata.com/en/education/plm-conferences/plmrm-pdt-emea-2022.

CIMdata to Host Free Webinar on Digital Transformation's Critical Dozen

14 June 2022

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Digital Transformation's Critical Dozen: None Are Optional." The webinar will occur on Thursday, 14 July 2022, at 11:00 a.m. (EDT) and will last one hour.

This webinar will focus on digital transformation's critical role in the future of your business and the critical dozen elements that all digital transformation programs need. The last few years have reinforced the imperative for companies to collaborate digitally throughout their extended enterprise. Whether executives decide that work will be remote, on-premise, or a more hybrid approach—digital transformation is required not only for growth and profitability but for survival. In today's complex and rapidly changing world, digital transformation is not optional. Getting it wrong can mean the difference between success and failure.

This webinar will help attendees:

- Understand the difference between inside out and outside in digital transformations.
- Understand the difference between digitization and digitalization.
- Understand why digital transformations typically fail.
- Understand CIMdata's critical dozen digital transformational elements and their importance.

According to Peter Bilello, CIMdata's President & CEO and the host for this webinar, "As PLM professionals, we have been at the core of digital transformation for decades, but in many cases, we are still trying to push a water rope uphill. Some organizations see digital transformation as a journey, but most see it as a project, not a true business transformation. Companies need to take a broader look and understand and address a series of digital transformation elements to get it right. Without doing so holistically, digital transformations will continue to fail to reach their true potential."

Peter Bilello has over 35 years of experience developing business-enabling IT solutions for research, engineering, and manufacturing organizations worldwide. He has participated in PLM analysis, selection, implementation, and training; CAD/CAM/CAE/CIM implementation and management; synchronous and lean manufacturing consulting; software engineering; and general data management strategy development and support. He has authored numerous papers and research reports on PLM and related topics, and his articles, commentaries, and perspectives have appeared in publications throughout the Americas, Europe, and Asia.

This webinar will be useful to a broad audience, including executives, directors, and managers responsible for PLM initiatives, those responsible for digital transformation, PLM professionals, digital strategists, solution providers, and anyone else who wants to understand the role of digital transformation in the business.

To find out more, visit: https://www.cimdata.com/en/education/educational-webinars/webinar-digital-transformation-s-critical-dozen-none-are-optional. To register for this webinar, please visit https://register.gotowebinar.com/register/8085625315877914125.

Siemens Mendix: Creating Efficient, Resilient Value Chains

14 June 2022

Key takeaways:

- *Growing economic and social uncertainties, and continually changing market issues*

(competition, product complexity, customer demands, and regulatory requirements) are affecting all industrial companies and their value chains.

- *To successfully manage complexity and risk, modern value chains require technology characterized by hyper-connectivity (on-premises, cloud, and edge), and are personalized for ease of use and fit-for-purpose. These key criteria best support end-to-end workflows and a comprehensive digital twin strategy that enables an Industry 4.0 vision.*
- *Siemens' Xcelerator portfolio enables end-to-end digital threads across value chains and industrial vertical markets. The open backbone supports design, engineering, production operations, and service phases of the complete lifecycle by integrating best-of-breed solutions and applications from Siemens and other solution providers.*
- *Siemens' Mendix low-code development platform connects and extends Xcelerator solutions and applications, via composing rather than coding, thus enabling integrated, personalized solutions required to improve business performance.*

Value Chain Issues Challenging Manufacturers

Products continue to become more complex, more capable, more connected, and part of "systems of systems" networks. Increased complexity of cyber-physical products with an ever-increasing amount of embedded software, electronics, sensors, and new IoT-enabled operating environments demands thinking beyond traditional product development, manufacturing, service, and supply chain paradigms. Industrial stalwarts and start-ups alike must leverage new technologies to digitalize development, production, operation, and service lifecycles to create new value chains and revenue streams, all while maximizing and modernizing existing investments.[1]

Maintaining and evolving a successful value chain requires manufacturers be able to quickly reconfigure it to address changing requirements. New partners and suppliers will need to participate as product and market requirements evolve. Each will have different functional tools and systems that must be integrated easily and quickly into the overall value chain.

Historically, IT systems already in place were not easy to extend internally, let alone across value chains. Businesses had to allocate significant resources just to sustain these systems and could not create the new systems and integrations required to meet rapidly changing business challenges. Yesterday's R&D tools and IT solutions no longer meet the performance, connectivity, and user experience expectations of today's social media-oriented, digital first workers. However, new development technologies, e.g., low-code tools, microservices, combined with proper governance are now making it easier to compose applications that incorporate new and existing data, systems, and processes to meet expectations and enable accurate, rapid decision-making processes.

Characteristics of a Modern Value Chain

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

> **CIMdata Definitions**
>
> **Digital Thread**—The communication framework that allows a connected data flow and integrated view of an asset's data (i.e., its digital twin) throughout its lifecycle across traditionally siloed functional perspectives.
>
> **Digital Twin**—A virtual representation (i.e., digital surrogate) of a physical asset or collection of physical assets (i.e., physical twin) that exploits data flow to/from the associated physical asset(s).

A value chain is a set of activities that a manufacturer performs to transform a product or service from idea to reality, ultimately delivering value to the end customer. It connects many diverse, distributed entities, internal and external, seamlessly via bi-directional digital threads. It spans the extended enterprise–involving partners and customers to form an integrated, heterogenous ecosystem for collaborative creation, production, and service. Effective value chains must encompass heterogenous technologies, processes, systems, and data sources.

Efficient value chains must be deliverable on multiple IT infrastructures in a mix of on-premises, cloud, and edge, so that companies can flexibly adapt to the way their business should optimally operate amid evolving market and business conditions. For maximum flexibility, these value chains should incorporate personalized, easy-to-use, composable applications that solve complex business problems and deliver end-customer value.

Siemens Xcelerator as a Service Portfolio

Siemens Xcelerator is an integrated portfolio of software, services, and domain expertise, along with application development, integration, and IoT connectivity solutions designed to enable industrial digital transformation. Xcelerator is both a wide and deep portfolio encompassing technology and solutions that support the full design, realization, and optimization of the extended value chain lifecycle.

- Design—All domains and functions such as mechanical, electrical, electronic, software, formulated/process
- Realization—Manufacturing process planning, simulation, production operations, and automation commissioning
- Optimization—Track, analyze, and optimize in-service use and performance and schedule maintenance

Delivered both on-premises and as-a-service, the Xcelerator portfolio is built on a modern cloud architecture, creating the basis for the extended enterprise value chain that supports digital threads and makes comprehensive digital twins actionable across domains and disciplines.

Mendix and MindSphere are key as-a-service components of the Xcelerator portfolio that connect smart devices and systems, automate processes, and bring multi-experience personalization per user requirements. These are fundamental capabilities required to create and evolve efficient, resilient value chains.

Siemens Mendix Low-Code Application Development Platform

Mendix is a modern, application development and data integration platform with an extensive developer ecosystem. An integral part of the Siemens Xcelerator portfolio for industrial transformation is that it is used to develop business-specific, personalized solutions and enable fast adoption.

Mendix enables citizen developers, business analysts, and power users to rapidly compose and deploy for-purpose, personalized, multi-experience applications across their value chains. Companies can leverage and extend both Siemens and non-Siemens' solutions to develop business-unique applications and connect to data sources regardless of location and format. As a result, these tailored applications enable users to make fast, accurate decisions within and across product development, manufacturing,

operations, and service.

Mendix is often used to:

- Create flexible, composable, applications and solutions to support business processes
- Reduce complexity and maintenance of internal and external system, application, and data integrations
- Extend digital transformation across multiple domains within an enterprise
- Extend the power of core systems without re-coding them
- Create engaging user experiences and speed adoption

For more detailed information on Mendix, check out the eBook titled "Low-Code Platforms Accelerate Business Value" published in November 2021. It can be accessed from the CIMdata website[2] and from Siemens. Additional commentaries on Mendix (e.g., "Mendix and MindSphere: Integrating IT and OT to Deliver Business Performance", and "Connecting the Past to Tomorrow with Mendix") are also available on the two websites.

Mendix and MindSphere: Working Together to Enable the Flexible Value Chain

MindSphere is Siemens' industrial IoT as-a-service solution that collects, analyzes, and acts on data from connected products and systems, smart devices, and the factory floor. Because MindSphere is Mendix-enabled, developers can use Mendix to compose rich, personalized IoT applications that link data and processes from MindSphere with the rest of the Xcelerator portfolio and beyond to form the basis of a complete value chain.

The data analysis capabilities of Mendix and MindSphere enable developers to derive rich insights from the data captured within MindSphere. Used together, they provide essential functionality to create an efficient, resilient, flexible value chain.

Examples of key value chain functionality enabled via Mendix and MindSphere include:

- Real-time asset performance and predictivity
- Quality sensing
- Remote monitoring
- Tailored workforce training and augmented operations
- Hazard alerts, detection, and actions

The Smart Biosphere: A Case Study

The Biosphere Foundation is the non-profit trading arm of the North Devon UNESCO Biosphere reserve (NDUB), one of 735 global biospheres covering 5 percent of the earth's surface. It leverages technology to create scalable and credible market infrastructure that connects institutional level investments with nature-based interventions to address climate change, restore nature, and create community prosperity. The mission of Biosphere states: "Promoting innovative approaches to economic development that are socially and culturally appropriate and environmentally sustainable."

The Biosphere Foundation developed the "Smart Biosphere" concept in 2019. The team then launched this initiative in April 2022 using MindSphere and Mendix. They can now collect IoT data through a growing sensor network with various data types—such as weather data. With so much data collected,

[2] See www.CIMdata.com publications and search for 2021

the MindSphere IoT for Makers solution (which combines MindSphere and Mendix) provides strong analysis, as well as the ability to integrate skills through widgets, and support customer facing applications. The developers have a single interface to work with and the operating team has the strength of MindSphere to fall back on for security, data acquisition, and operational reporting.

"With MindSphere and Mendix, we built an environmental intelligent digital twin application. It creates an integrated decision support tool for water management, covering water quality, flood risks, agricultural management and run off, and the placement of natural capital interventions," said Mr. Rob Passmore, Commercial Lead of the Biosphere Foundation.

Summary

The many challenges manufacturers face today are forcing them to rethink how they operate. Value chains, the set of activities that a manufacturer performs with its partners to transform a product or service from idea to reality and deliver value to the end customer need to be built or rebuilt to deliver all their potential value.

Technology has progressed significantly in the last few years to enable the easy integration of data and processes across the extended enterprise. But to be successful, more than integration is needed. Users need personalized, easy-to-use apps that help them optimally perform their tasks and meet business and customer expectations. Companies need modern technology-based solutions that can support the entire extended enterprise, while meeting continually evolving business and end user requirements. Low-code development and integration tools are transforming how businesses connect data and processes across their platforms while continuing to meet growing and everchanging end user challenges.

Siemens Xcelerator portfolio has the architecture, open technology, and comprehensive, integrated solutions to support the complete concept to end-of-life value chain, create end-to-end digital threads, and enable industrial digital transformation. Mendix provides the tools and technology companies require to meet the challenges of creating solutions and composable applications users need to perform their tasks.

CIMdata continues to be impressed with Mendix and the results it can bring to companies. Manufacturers and commercial businesses should consider using Mendix to support their digital transformation, IT modernization, and low-code development and integration needs as they create and participate in value chains that are critical to their business success.

Acquisitions

Altair Expands Electronic System Design Technology with Acquisition of Concept Engineering

14 June 2022

Altair a global leader in computational science and artificial intelligence (AI), acquired Concept Engineering, the leading provider of electronic system visualization software that accelerates the development, manufacture, and service of complex electrical and electronic systems.

Concept Engineering provides automatic schematic generation tools, electronic circuit and wire harness visualization platforms that provide on-the-fly visual rendering, and electronic design debug solutions.

"Concept Engineering's advanced, reactive visualization technology is a best-in-class solution to help organizations accelerate their designs that have specific design architecture requirements, as well as rigorous service needs," said James R. Scapa, founder and chief executive officer, Altair. "Integrating

this technology into our electronic system design suite will offer our customers comprehensive and fast visual representations of complex system models and debug capabilities for electronic systems."

Concept Engineering's electronic system visualization and semiconductor design debug technology is available as a standalone solution and is also tightly integrated into more than 40 OEM design automation (EDA) and CAD tools to provide end users with smart debugging functionality while saving months of engineering time and support for computer aided tool development teams.

Concept Engineering has customers in three primary market segments:

- *Semiconductor design* – Concept Engineering provides innovative electronic design debug solutions, enhancing semiconductor design quality and time to market. These solutions cover electronic systems, register transfer level (RTL), gate, and transistor design abstractions, for both analog and digital disciplines.
- *EDA and CAD tool development* – Concept Engineering's family of automatic schematic generation and visualization software components help software developers create smart and high-performance debugging cockpits, shorten software tool development cycles, lower software development and maintenance costs, and increase product quality of EDA tools.
- *Industries with complex electrical systems* – Concept Engineering provides advanced visualization of electrical circuits, wire harnesses, and components for rapid and reliable development, manufacture, and service for industries that require highly specialized debugging and visualization mechanisms for development and post-production product maintenance. These industries include automotive, aerospace, industrial and robotics, medical, transportation and logistics, and construction and agriculture.

"With more than 30 years of experience, we are proud to have built tools and technologies that help electronic design engineers easily understand, debug, optimize, and document electronic designs," said Gerhard Angst, president and chief executive officer, Concept Engineering. "Being part of the Altair ecosystem will expand access to our tools at a time when the complexities surrounding electronic systems are greater than ever. We also look forward to continuing our deep and longstanding partnerships with our OEM clients."

Concept Engineering's software will be integrated into Altair's Electronic System Design suite and available via Altair Units, which gives customers easy access to Altair's entire portfolio of software solutions.

Atos to sell its entire stake in Worldline

13 June 2022

Atos intends to sell its entire stake in Worldline of ca. 7.0 million shares representing ca. 2.5% of Worldline's share capital. The sale will be carried out by way of an accelerated book building to institutional investors commencing immediately (the "Placement").

Atos will concomitantly enter into a derivative transaction with Goldman Sachs Bank Europe SE to hedge its residual exposure to Worldline's shares related to the outstanding exchangeable bonds due 2024 which were issued in 2019. Goldman Sachs Europe Bank SE as counterparty for the derivative will hedge its short position in connection therewith by purchasing Worldline shares in the Placement, through the placing of an order in the order book.

Following completion of the Placement, Atos will no longer be a shareholder of Worldline.

Goldman Sachs Bank Europe SE is acting as sole bookrunner for the Placement and counterparty for the

derivative. Rothschild & Co is acting as financial advisor.

The final terms of the Placement are expected to be announced on June 14, 2022 at the latest. Settlement of the Placement is expected to take place on or around June 16, 2022.

Company News

Altair Names AmdoSoft Data Analytics Channel Partner for the United Kingdom and Germany

16 June 2022

Altair, a global leader in computational science and artificial intelligence (AI), announced that AmdoSoft has joined Altair's growing channel partner network. AmdoSoft will offer all of Altair's data analytics solutions to its customers in the U.K. and Germany. AmdoSoft is an independent software vendor (ISV) that develops robotic process automation (RPA) solutions. Its product, AmdoSoft/b4, is available through the Altair Partner Alliance (APA).

"We're pleased to welcome AmdoSoft to our global channel partner community, covering the English and German markets," said Jérémie Bourdoncle, senior director of strategic partnerships, Altair. "AmdoSoft's deep expertise in the data analytics and RPA space is a natural complement to Altair and will bring a lot of benefits for prospects and customers alike."

"AmdoSoft believes in the enormous value digital transformation brings through low-code, self-service technologies. Our RPA technology 'b4' has been achieving this value and has been part of the APA for over a year," said David Griffith, managing director, AmdoSoft U.K. "Now that AmdoSoft is also an official Altair channel partner, we will be able to help customers in all data-related areas of digital transformation utilizing best in class machine learning, data analytics, and data science solutions."

Atos appoints Nourdine Bihmane and Philippe Oliva as Deputy CEOs

14 June 2022

Atos announces the appointment of two Deputy CEOs as the Group studies a possible separation into two publicly-listed companies. As announced today, the Company's Board of Directors has decided, following preliminary strategic review work carried out under the leadership of Mr. Belmer, to study a project for the separation of Atos' legacy activities (Tech Foundations), on the one hand, and its Big Data and Cybersecurity (BDS) and Digital activities, on the other hand, through two companies independent listed separately.

This strategy would unlock the value of the two distinct markets that the Group operates in, both with fundamentally different dynamics, and is essential to its ambitious transformation plan.

- **Nourdine Bihmane** is appointed Deputy CEO in charge of **Tech Foundations**, a leading business in managed infrastructure services, digital workplace and professional services. With over 20 years of proven tech expertise, driving change management, growth and P&L performance, Nourdine will be responsible for delivering quality, innovation and competitiveness for TFCo (Atos).
- **Philippe Oliva** is appointed Deputy CEO in charge of the Digital/BDS perimeter (to form the newly named **SpinCo** (Evidian)), a leading business in the digital transformation, big data and cybersecurity markets, delivering high growth and high margins. Philippe joined Atos in April this year as Chief Commercial Officer, bringing a strong international experience in the digital

sector, from almost 20 years at IBM where he managed Integrated technologies, Cloud services and Hybrid Services.

The appointment of these two seasoned, globally recognized industry veterans as Deputy CEOs will be instrumental for the success of Atos' envisioned transformation.

Rodolphe Belmer, Chief Executive Officer of Atos, comments: "*I am thrilled to welcome Nourdine and Philippe as Deputy CEOs of the Group. Both are highly recognized seasoned industry senior executives capitalizing on a large international exposure and with a proven track record in their respective fields. I know we can rely on their strategic acumen, proven leadership and operational efficiency that will be instrumental as Atos embarks on a transformation journey and intends to open the next chapter in its outstanding history. Together, we are committed to the success of the Atos turnaround plan that will be presented at our Capital Markets Day and we know that we can count on the highly talented Atos community to tackle these challenges together. I am confident that Philippe and Nourdine will succeed the possible separation of the Group into two publicly-listed companies when my strategic mission of putting this project on track will be accomplished, at the latest on September 30th.*"

Furthermore, this contemplated separation leads to a reorganization of the Atos group resulting in a significant reduction in the scope of the functions and a redefinition of the mission of the Atos Chief Executive Officer.

Taking note of this evolution, Mr. Belmer considered that he had no choice but to resign from his positions as Director and Chief Executive Officer of the Company, and the Company's Board of Directors has acknowledged this.

Mr. Belmer's resignation will take effect on September 30, 2022, at the latest, so as to allow time to ensure the orderly transition of the Group's governance with the two newly appointed Deputy CEOs, Mr. Nourdine Bihmane and Mr. Philippe Oliva.

The information relating to the financial conditions of the termination of Mr. Belmer's functions will be made public in accordance with the applicable regulations and the recommendations of the Afep-Medef corporate governance code to which Atos refers. In particular, they are the subject of a related-party agreement that will be presented for approval at the next Atos Shareholders' Meeting.

Mr. Bertrand Meunier, Chairman of the Board of Directors of Atos, stated: "*On behalf of the Board of Directors, I would like to thank Rodolphe Belmer for his contribution and commitment to Atos. Since he joined the company, Rodolphe has been able, in record time, to propose strategic options, successfully reorganize the governance of the Group and lead Atos on the path of a major potential transformation in the interest of all stakeholders. The new general management that will be announced at the end of the transition period will be in charge of continuing the implementation of the strategic project that the Board of Directors has decided to study*".

Atos studying a possible separation into two publicly listed companies to unlock value and implement an ambitious transformation plan

14 June 2022

Atos, a global leader in digital transformation, high-performance computing and information technology infrastructure, announces that it is studying a separation into two publicly listed companies:

- **SpinCo (Evidian)** would bring together Atos' Digital and Big Data and Security (BDS) business lines, which generated in 2021 a combined €4.9 billion revenue, growing organically by +5%, and a 7.8% operating margin. SpinCo would be managed by Philippe Oliva, capitalizing on his

vast international experience in the Digital sector, and would aim at achieving strong sustainable growth and double-digit margins underpinned by solid underlying market trends and synergy opportunities between BDS and Digital.

- **TFCo(Atos)** would be composed of Atos' Tech Foundations business line, which in 2021 generated revenue of €5.4 billion (excluding Unified Communications & Collaboration (UCC)), declining organically by -12%, and a -1% operating margin. TFCo would be managed by Nourdine Bihmane, who brings a wealth of experience in the technology sector. TFCo would aim at delivering a full turnaround and restore growth, profitability and cash generation by 2026.

Rodolphe Belmer, Chief Executive Officer of Atos, said: *"Today we announce our intention to take the in-depth transformation of the Group, started at the beginning of the year, one step further. This potential new path for Atos would aim to optimize the two distinct markets that the Group operates in, both with fundamentally different dynamics: on the one hand, the infrastructure-driven, asset-led market, and, on the other hand, the digital applications and security driven market.*

Separating these two businesses would create two companies, leaders in their respective segments with proven and recognized track records: Tech Foundations is a trusted partner of choice for managing and modernizing mission critical systems, broadly recognized by the market for leading positions in Digital Workplace and Hybrid Infrastructure; and SpinCo would be strategically positioned on the data & security markets, recognized as the worldwide leader in managed security and #3 in supercomputing.

By specializing in two businesses on different and equally attractive paths, each company would focus on what they do best for their customers, creating significant new investment capacity for both and giving both the chance for long term success, growth and achievement. I would like to thank our talented and dedicated employees, who have embarked on the Group's transformation journey since the beginning of the year."

Bertrand Meunier, Chairman of the Board of Directors of Atos, added: *"Having examined a number of possible options, Atos' Board of Directors is convinced that the envisioned project, presented today by the management, is the best possible for the Group, and would create the highest value for all Atos Stakeholders."*

The contemplated project would maximize value for all Atos' stakeholders by:

- Creating two companies, with an increased focus on their respective strategies and markets, each with a dedicated management team, the agility to better serve their customers and to execute their respective transformation plans;
- Providing each company with an adequate capital structure adapted to its respective growth and cash generation profile;
- Unlocking value of SpinCo by creating a publicly listed company exposed to high-growth and high-margin markets;
- Supporting TFCo's transformation and fully financing its turnaround, thereby restoring its financial performance, while keeping optionality to participate in market consolidation;
- Creating a wealth of professional development opportunities for employees.

Studying the creation of two strong leaders in their respective markets

1. **SpinCo (Evidian): a leading player positioned in the high-growth digital transformation, big data and cybersecurity markets**

SpinCo (Evidian) would be positioned in high growth markets, driven by the shift to public cloud,

increasing need for cybersecurity, big data and analytics going mainstream, and the development of smart applications. SpinCo would be led by a seasoned management team with a successful track record, under the leadership of Philippe Oliva (and appointed deputy Group CEO in charge of the Digital/BDS perimeter) and Anil Agrawal as CFO. In 2021, the SpinCo perimeter generated €4.9 billion revenue, a 7.8% operating margin and a c. €150 million free cash flow before interest and tax. SpinCo would bring together two of Atos' existing business lines:

- **Digital**: with 50,000 experts[2] and strong partnerships with hyperscalers and market leading software vendors, Digital partners with customers in their digital journey to help them transform their businesses. In a fast-growing market supported by the shift to cloud and an increasing demand for digital transformation, Digital is well positioned to grow. Led by Rakesh Khanna, Digital generated €3.5 billion in revenue and a high single-digit operating margin in 2021. Digital's 2022-2026 acceleration plan, for a total cost of c. €370 million over the period, would aim at improving its sales performance in order to unlock growth potential, and transforming its delivery model in order to enhance profitability.
- **Big Data and Security (BDS)**: with 9,000 highly talented experts[2], BDS is the trusted partner for secure data intelligence, through two activities: Digital Security and Advanced Computing. Recognized by Gartner as the #1 player in Managed Security Services worldwide and by Hyperion as the #3 player worldwide in Supercomputing, BDS enjoys a strong position in its markets, to capitalize on a growing demand for cybersecurity and advanced computing products and services. Led by Jean-Philippe Poirault, BDS generated €1.4 billion in revenue and a mid-single-digit operating margin in 2021 (driven down by the Advanced Computing division while Digital Security stood at a high-single digit). Investments in BDS over 2022-2026, for a total amount of c. €40 million, would aim at accelerating growth, notably by repositioning its advanced computing portfolio, and stepping up operating margin, through renewed growth and improved cost base.

SpinCo would benefit from strong commercial and managerial synergy opportunities between its two business lines, in particular with the fertilization of Digital's customer base by BDS and with a joint go-to-market strategy. In total, SpinCo's acceleration plan is expected to represent an investment of €0.4 billion over the next five years. This is expected to allow SpinCo to deliver c. 7% organic growth on average over 2022-2026 (starting from an expected €5.3 billion in 2022), to gradually improve its operating margin to 12% in 2026 and generate €700 million in free cash flow before interest and tax, corresponding to a 75% to 80% OMDA conversion[3]. SpinCo's leverage target would be below 3.0x OMDA as of 2024.

2.**TFCo (Atos): leader in Managed Infrastructure Services, Digital Workplace and Professional Services**

TFCo (Atos) would consist of Atos' Tech Foundations business line, focused on designing, building and managing complex and vital information systems worldwide. Led by Nourdine Bihmane (and appointed Group deputy CEO in charge of the Tech Foundations perimeter) and Darren Pilcher, CFO, Tech Foundations is positioned on the infrastructure and private cloud market, which is currently experiencing a mix shift from traditional to next generation infrastructure. With 48,000 employees[2] across the world and serving more than 1,200 customers across geographies and industries, Tech Foundations generated, in 2021 (excluding UCC), €5.4 billion in revenue, a -1.1% operating margin and a €-507 million free cash flow before interest and tax (including an exceptional €-180 million cash out related to the funding of a restructuring plan in Germany and working capital normalization for around €-200 million).

In order to adapt to the shifting market trends described above, TFCo would implement an ambitious

turnaround plan that would ultimately reposition the business for growth, profitability and cash generation. This plan, for a total cost of €1.1 billion over the 2022-2026 period, is articulated around 3 key steps:

- Refocus: rationalizing the activity portfolio to pave the way for transformation, by exiting non-strategic businesses and turning around or exiting negative margin accounts;
- Recover: resetting the cost structure by addressing structural issues across right shoring, age pyramid, reducing third-party spending and consolidating data centers and facilities to drive cost savings;
- Rebound: stabilize revenue and then pivot to growth, thanks to the development of next generation offerings and investments in sales capabilities.

TFCo is expected to generate c. €5.0 billion in revenue in 2022 (excluding UCC). As the turnaround plan is being executed, revenue is expected to decrease to c. €4.1 billion in 2024 before stabilizing in 2025 and resuming a growth trajectory form 2026 onwards. Operating margin is expected to turn positive in 2025 and to exceed 5% in 2026. Free cash flow before interest and tax is expected at €150 million in 2026 and growing around €50 million per year thereafter, which would enable TFCo to have a solid stand-alone path or participate in industry consolidation.

Financing

Should Atos decide to move forward with this project, the Group estimates its total funding needs for the 2022-2023 period, until the contemplated separation would become effective, to be around €1.6 billion. This amount of €1.6 billion is based on a €3.4 billion cash position as of December 2021 and a €2.8 billion minimum cash needed to run the Group's operations as of December 2023, and takes into account:

- An estimated €-1.4 billion total cash outflow, including the costs of the transformation plans of both SpinCo and TFCo, for their portion to be expensed in 2022 and 2023, (c. €-0.9 billion), a potential further increase in working capital in the context of the Group transformation, (c. €-0.4 billion), the Cloudreach acquisition, as well as free cash flows and other items for the 2022-2023 period;
- Debt repayments for an estimated cumulative amount of €-1.5 billion over the period;
- Proceeds expected from a contemplated non-core businesses disposal program (mostly within SpinCo), for €0.7 billion.

This funding requirement is covered by the Group's current liquidity at hand, and the Group is currently in advanced discussions with two of its financing banks.

After the completion of the contemplated separation, the capital structure of both Spin Co and TFCo would be designed to fit their respective financial profile and funding needs.

Contemplated transaction calendar and details

If it is decided to move forward with the project, the objective would be to complete the separation into two entities (involving a prior reorganization of the Group) during the second half of 2023, and to complete the listing and distribution of SpinCo shares by the end of 2023, according to the preferred scenario at this stage. Atos' Board of Directors has approved the launch of the in-depth study of the contemplated transaction. The decision on this reorganization and separate listing project and its terms and conditions will be made after the ongoing in-depth analysis has been completed; it remains conditional on general market conditions and would be subject to customary processes, including governance bodies and shareholders' approval as well as consultation with the relevant employee

representative bodies. Further information on any significant developments in this respect will be made to the market in due time, in accordance with applicable regulations.

In the preferred scenario at this stage, Atos' shareholders would retain their current shares of Atos and would receive SpinCo shares as in-kind distributions. SpinCo would be listed on the Euronext Paris stock exchange. After completion of the envisaged transaction, it is currently contemplated that Atos shareholders would hold 100% of TFCo and 70% of Spin Co. The remaining 30% stake in Spin Co would be held by TFCo and monetized over time to refinance TFCo's turnaround costs.

While SpinCo and TFCo management teams will be fully dedicated to their day-to-day operations and the execution of their respective transformation plans, the potential separation process will be managed by a dedicated team led by Rodolphe Belmer, Atos Chief Executive Officer, alongside Diane Galbe, Atos Chief Strategy Officer.

Atos 2022 financial outlook

- Revenue growth at constant currency of -0.5% to +1.5%;
- Operating margin of 3% to 5%;
- Free cash flow between €-150 million and € 200 million.

Business trends at the date of this press release confirm revenue growth and free cash flow ranges and point towards the lower half of the operating margin range.

Advisors

D'Angelin & Co, Goldman Sachs Bank Europe SE, Perella Weinberg Partners LP and Rothschild & Co are acting as financial advisors to Atos. Darrois Villey Maillot Brochier and White & Case are acting as legal advisors and Clifford Chance is acting as tax advisor.

Autodesk Appoints Ruth Ann Keene as Chief Legal Officer

16 June 2022

Autodesk, Inc. announced the appointment of Ruth Ann Keene as chief legal officer. Based in the company's San Francisco headquarters, Keene leads Autodesk's global legal matters, provides counsel to the CEO and Board of Directors, and oversees Autodesk's government affairs and public policy practice.

Keene has nearly three decades of experience in the technology industry and legal field, including an 11-year tenure at Autodesk, and returns to the company after serving as chief legal officer at Unity Technologies. In these roles, Ruth Ann advised on critical legal and regulatory issues, intellectual property, data privacy, and mergers and acquisitions related to business transformation. Before that, Keene advised a variety of companies in the technology transactions practice at Morrison & Foerster, LLP.

"I'm thrilled to welcome Ruth Ann back to Autodesk and look forward to her valuable guidance and expertise as chief legal officer for the company," said Andrew Anagnost, CEO and president of Autodesk. "Her extensive experience advising platform and technology companies, innovative approach to legal matters, and familiarity with Autodesk make her a perfect addition for the needs of our customers, partners, employees, and communities at large."

"I am honored to take on the role of chief legal officer at Autodesk and thrilled to lead Autodesk's world-class legal and government affairs & public policy team," said Keene. "Returning to Autodesk is like a homecoming for me and I am excited to support the innovation and growth of Autodesk as the technology leader in design and make software."

BIMsmith Partners with Sustainable Minds to Provide Integrated Access to Product Transparency Data

10 June 2022

BIMsmith, the leading building product research platform for building professionals, and Sustainable Minds, the cloud provider of environmental and material ingredient product transparency data, have announced a partnership to enhance AEC professionals' access to building product transparency data.

Included in the partnership is the development of a new integration between the BIMsmith and Sustainable Minds Transparency Catalog platforms. Through the integration, BIMsmith product listings will display a live sync of transparency data from the Transparency Catalog, while Transparency Catalog product listings will provide new access to product BIM content through BIMsmith. The connection between the two platforms will equip architects and other building professionals to reliably access the most up-to-date product data throughout each phase of their workflow.

"BIMsmith was founded as a holistic product research platform for building professionals," said Benjamin Glunz, CEO of BIMsmith. "We recognize that sustainability data is a top priority for architects and designers, so we are excited to provide easy, dependable access to that data through our partners at Sustainable Minds."

"Making sustainable product decisions comes down to making it easier to understand how to use the data to inform those decisions," said Terry Swack, CEO of Sustainable Minds. "Connecting the product data found in the Transparency Catalog to the product data found on BIMsmith will equip designers to make better decisions about specifying credibly greener and healthier products."

BIMsmith and Sustainable Minds will be discussing the new partnership and its benefits for designers at two upcoming events in Chicago: NeoCon (June 13-15, 2022) and the A'22 Conference on Architecture (June 23-24, 2022).

Cadence Cerebrus AI-Based Solution Delivers Transformative Results on Next-Generation Customer Designs

14 June 2022

Cadence Design Systems, Inc. announced that customer adoption of the Cadence® Cerebrus™ Intelligent Chip Explorer is accelerating with new production deployments completed. Given that Cadence Cerebrus employs artificial intelligence (AI) technology to automate and scale digital chip design, it offers customers the compelling value proposition of optimized power, performance and area (PPA) and improved engineering productivity.

Cadence Cerebrus is a transformational AI-driven technology that has a unique reinforcement learning engine, which automatically optimizes tool and chip design options to deliver better PPA with significantly less engineering effort and overall time to tapeout. As one example, the Cadence Cerebrus floorplan optimization feature enables customers to shrink the die size beyond a human's design potential. As a result, Cadence Cerebrus, when coupled with the broader Cadence digital product portfolio, provides a breakthrough engineering benefit with the industry's most advanced digital full flow, from synthesis through implementation and signoff.

"We're always looking for new ways to empower our customers to be more productive, and Cadence Cerebrus minimizes manual work through its AI capabilities so design engineers can focus on more

critical projects," said Dr. Chin-Chi Teng, senior vice president and general manager, Digital & Signoff Group at Cadence. "We launched Cadence Cerebrus less than a year ago, and it's been remarkable to see how quickly our customers got up and running and started realizing the full potential of the product. Customers like MediaTek and Renesas have seen such positive PPA and productivity results that they've now adopted the tool widely for production flows."

MediaTek Production Adoption

MediaTek is a leading fabless semiconductor company whose products power more than 2 billion connected devices across mobile, smart home, connectivity and AIoT products a year.

"At MediaTek, we are resolute in delivering optimal PPA, making the Cadence Cerebrus AI-based solution the most logical choice for our latest, advanced-node projects," said Harrison Hsieh, senior general manager of Silicon Product Development at MediaTek. "On an SoC block, the Cadence Cerebrus floorplan optimization feature shrunk the die area by 5% and reduced power by more than 6%. After experiencing the compounded benefits of improved productivity, better PPA and ease of integration into the MediaTek CAD flow, we've deployed Cadence Cerebrus in our production flows."

Renesas Production Adoption

Renesas is a leading provider of microcontrollers, analog and power devices to the automotive, industrial, infrastructure and IoT industries.

"We needed automation methodologies that improve PPA across a variety of nodes and design types," said Toshinori Inoshita, vice president of the shared R&D EDA division at Renesas Electronics Corporation. "By deploying and optimizing Cadence Cerebrus to fit all our unique needs, we've had many notable design wins already. On an advanced-node CPU design, we experienced better performance with a 75% improvement in total negative slack (TNS). In addition, Cadence Cerebrus slashed the leakage power on a critical MCU design. We expect to further improve performance and productivity and reduce time to tapeout with Cadence Cerebrus."

Cadence Cerebrus is part of the Cadence digital full flow, which includes the Innovus™ Implementation System, Genus™ Synthesis Solution and Tempus™ Timing Signoff Solution, and supports the Cadence Intelligent System Design™ strategy, enabling customers to achieve SoC design excellence. For more information on Cerebrus, visit www.cadence.com/go/cerebruscspr.

CGS and Matterport Partner to Deliver Virtual Training Solutions for Front-line Workers Across the Fortune 500

15 June 2022

Matterport, Inc., the leading spatial data company driving the digital transformation of the built world, announced a technology partnership with CGS, a global provider of applications, enterprise learning, and outsourcing services, to integrate Matterport digital twins in mixed reality environments to deliver augmented and virtual reality training and support solutions for front-line workers. The companies will collaborate to deliver breakthrough corporate training solutions using a completely digital approach powered by CGS's TeamworkAR training solution and Matterport digital twins. The combined offering will enable large enterprises to train workforces remotely using an exact digital replica of the work environment in immersive 3D. The precision of the virtual experience allows companies to accelerate training procedures, improve the quality of training, while reducing travel and on-premises training costs.

CGS is an award-winning provider of custom learning and development solutions for dozens of Fortune

500 companies, including McDonald's, Microsoft, Comcast, Toshiba, Medtronic and Maersk, and is also part of Meta's exclusive Quest for Business (ISV) Program. The CGS TeamworkAR platform brings real-time digital transformation to onboarding, on-the-job training, learning and support for any company, anywhere. TeamworkAR uses Matterport and its SDKs and API to integrate and create custom content for its customers through AR and enables remote collaboration and virtual assistance for workers across skill levels. The solution helps move a workforce from a virtual training environment to a physical workplace in days rather than weeks or months, increasing productivity and allows their customers to reduce the costs of training-related travel.

"Matterport is the gold standard for digitizing buildings and facilities in the physical world, and today our customers are experiencing the value of their digital twins to train workers and support customers remotely," said Doug Stephen, President, Enterprise Learning at CGS. "TeamworkAR together with Matterport digital twins enable customers to create more effective and efficient training that minimizes frontline worker downtime and increases capacity. This solution supports our customers in their digital transformation journey, which is now more critical than ever during a global workforce shortage."

Matterport's market-leading spatial data platform transforms any physical space into a dimensionally accurate and photorealistic digital twin, providing customers with unparalleled data insights needed to manage spaces more effectively. More than 100,000 businesses use the Matterport Digital Twin Platform to support their digital transformation initiatives. The company's cloud solution for the enterprise provides the scalable, highly secure, collaboration and data management platform these customers require.

"Enabling virtual training and remote project management is a natural extension of the power of our digital twins which are changing the way companies operate," said Conway Chen, Vice President of Business Development and Alliances at Matterport. "Today, enterprise-level organizations use Matterport digital twins to create virtual experiences that are critical to the success of their operations while taking time and cost out of the equation. Our collaboration with CGS and TeamworkAR will transform the way organizations train, manage, and operate the day they begin using it."

Register for the CGS webinar on Enterprise Mixed Reality on June 16, 2022 at 2 p.m. ET that will highlight the partnership between Matterport and TeamworkAR.

Informatica Revitalizes Global Partner Program to Bolster Cloud Customer Momentum

8 June 2022

Informatica, an enterprise cloud data management leader, announced enhancements to its Global Channel Partner Program designed to improve partner profitability, advance certifications, and provide more options for growth.

Companies around the world are driving cloud modernization, accelerating analytics and AI projects, and looking to boost the value of their data while keeping on-track with changing privacy regulations. These modernization initiatives offer additional opportunities for partners to help customers on their migration journeys as they look to leverage Informatica's Intelligent Data Management Cloud, a comprehensive, AI-powered, cloud data management platform offering over 200-plus intelligent cloud services.

Informatica is announcing three key initiatives to bolster partner momentum and to enable partners to better sell, support and deliver successful cloud modernizations to our joint customers:

Growth Incentives to Accelerate Earnings: Following a successful pilot with Platinum Partners,

Informatica is rolling out a generous back-end incentive opportunity to Gold and Platinum partners, across all badges. Under this program, partners now are eligible to be rewarded a percentage of licensing revenue for sourcing a booking, regardless of whether the partner goes on to close the sale or deliver the services. Incentives are paid quarterly, reducing the incentive payment cycle from two years to just 90 days.

Advanced certifications to expand partner capabilities: Since its launch in September 2020, more than 17,000 people have completed the Foundations course, a testament to the acceleration of customers' cloud transformation initiatives across industries.

With updates in three key areas, the training program is more comprehensive than ever and is designed to enable partners in their engagements with customers, open new lines of opportunity, and offer an alternative route to progress through the Informatica Partner Program levels.

- **Foundations** – This series is designed to enable partner sales teams to help guide customers on their cloud transformation journeys.
- **Technical** – Offered through Informatica University, this certification enables partner teams to support Informatica products, opening new service lines and revenue to partners.
- **Delivery** – A professional services certification that provides partners with the necessary skills to deliver Informatica data management solutions.

Additionally, partners can now achieve the Delivery Badge, a company-wide accreditation bundling certifications across the 3 key areas of training, which enables the partner to attain the Gold or Platinum partnership level in less than 12 weeks.

Channel rewards: Informatica Channel Rewards is a new initiative that aims to recognize and reward the individuals in Informatica's global partners' teams for their contribution to our shared success. Individuals will be rewarded with points for prospecting, driving PoCs and adoption, amongst other activities. These points can be spent in the Informatica Channel Rewards portal on items of their choice.

"As organizations across the world look to become data-driven, there is a significant opportunity for our partners to help customers drive value and solve problems by leveraging their data," said Aslam Jamal, VP Worldwide Channels, Informatica. "We continue to innovate, delivering the most comprehensive enterprise cloud data management solutions along with improvements to our partner program, to help partners achieve higher returns while helping customers modernize to the cloud and drive more value with their data."

Infosys Collaborates with Harvard Business Publishing to Provide Digital and Life Skills to India's Next Generation through Infosys Springboard

14 May 2022

Infosys a global leader in next-generation digital services and consulting and Harvard Business Publishing, today announced their collaboration to empower India's next generation, through Infosys Springboard, with critical digital and life skills made available free of cost. This is part of the continued efforts Infosys is making to empower 10 million plus people with digital skills by 2025 – a goal integral to Infosys' ESG Vision 2030.

Harvard Business Publishing turns provocative ideas influencing business – fueled by the latest thinking in Harvard Business School, Harvard Business Review, and world-renowned experts – into impactful and actionable skill-building and learning resources. Through this collaboration, student and young learners in India will now be able to access resources including select Harvard Business Review articles,

videos, and podcasts, as well as 10 Harvard ManageMentor courses on topics such as Project Management, Change Management, Innovation and Creativity.

"We are excited to team up with Infosys on this important learning initiative that would drive employability amongst underserved students and youth, consistent with Harvard Business Publishing's mission and ESG goals. By providing access to the most critical ideas shaping leaders today and tomorrow, together with Infosys, we are keen to help empower future generations with the skills they need to succeed," said, **Vinay Hebbar, Senior Vice President and Head of International Markets at Harvard Business Publishing**.

"In collaboration with Infosys, we curated timeless and timely thought leadership, contextualized to the needs of the learners to support life skills and capabilities to enable employability " said **Sumit Harjani, Country Manager – India & Regional Head – Corporate Learning, Asia Pacific at Harvard Business Publishing**.

Infosys will partner directly with institutional schools and colleges to help share high-quality learning content – focused on employability – to underserved students and young adults in tier-2 and tier-3 Indian cities.

"We are pleased to be teaming with Harvard Business Publishing to prepare learners with the skills they need for the future. Infosys' rich legacy of four decades in employee and broad-based student competency development, along with the advantages of this collaboration, will enable us to deliver corporate-grade learning experiences that will help empower India's talent pools to thrive in a fast-evolving employment landscape," said, **Thirumala Arohi, Senior Vice President and Head – Education, Training and Assessment at Infosys**.

Infosys launched Infosys Springboard last year to deliver corporate-grade learning experiences, on any device, with closer educator-learner collaboration for learners, including school and college students, professionals and adults. The platform advances their learning agenda with courses in digital skills (such as machine learning and robotics) and life skills (such as communication, time management and career management). Infosys Springboard continues to expand its reach to learners by growing its thriving community to about 2.5 million registered users, since its launch.

Jon Hale Appointed as Chief Financial and Operating Officer

15 June 2022

3D Repo, creator of cloud-based collaboration platform for building information modelling (BIM), has appointed Jon Hale to the position of Chief Financial and Operating Officer (CFOO). Jon brings a wealth of knowledge to the team, and we're excited to have him on board. Learn more about Jon's background and what he thinks can be achieved at 3D Repo in the profile below.

What is your background and where did you work previously?

My background is in traditional investment management where I started working at a hedge fund in the US, mainly working with businesses in the technology and energy sectors. Following that, I attained the Chartered Financial Analyst (CFA) designation and completed my master's in engineering and robotics in Boston. All of this naturally led me into venture capital (VC) where I was involved in investing in technology.

Why did you join 3D Repo?

I was first introduced to 3D Repo when I returned to the UK where I was involved in launching Mott MacDonald Ventures, the investment arm of Global management, engineering, and development

consultancy, Mott MacDonald. In my role there, I helped connect 3D Repo with Mott MacDonald business units where a strategic partnership was formed that would aim to help 3D Repo deploy its digital collaboration platform on more of the most challenging construction projects in the UK.

During this process, and then later as an investor at Goldacre Ventures, I gained a good understanding and first-hand experience of the industry, 3D Repo's clients, and customer base. I'm excited to bring my experience and contribute to a growing team.

I've known 3D Repo and the team for over two years now and I feel the timing is right with all the investment going into construction technology. I have full faith in what 3D Repo is doing and I'm looking forward to helping the business continue to grow.

What do you think can be achieved at 3D Repo?

The COVID-19 pandemic caused a big shift towards remote working and highlighted a need for more collaborative cloud computing solutions. Lately, we're seeing a lot of investment going into construction technology and 3D Repo is in a great position to help AEC professionals deliver their projects regardless of where they are working from.

What 3D Repo is doing for construction has been likened to what Hopin has done for virtual events. From an investor's point of view, there are many point solutions available that can handle one small part of a workflow, whereas 3D Repo offers a platform solution with a suite of tools and integrates easily with your other software.

Another exciting area for us to look at is expansion into other international markets following strong growth in the UK market. The UK team has more than doubled in size in the past couple of years after seeing an unprecedented increase in demand for its cloud-based collaboration platform, accelerated by the covid-19 pandemic.

What are you most looking forward to doing at 3D Repo?

I'm looking forward to helping scale the business internationally. The UK has seen good growth in BIM adoption in recent years, and I think the 3D Repo platform is in a good position to scale up in overseas markets.

I'll be wearing many different 'hats' in my role, helping the wider team in many different capacities, with a focus on growing the team with more fantastic talent in line with plans for growth.

Another key part of my role will be helping to navigate fundraising to help us with the plans to expand both locally and internationally.

What gets you excited about the future of this industry?

Construction technology is a relatively new space, especially in Europe, so there is every opportunity to pave our own way to success and help to create a better-built environment. There aren't many big players in this space yet so it's exciting to be joining an innovative team with lots of potential.

Plex Systems Announces Modularization of its Smart Manufacturing Platform to Scale with Business Needs

14 June 2022

Plex Systems, a Rockwell Automation company and a leader in cloud-delivered smart manufacturing solutions, today announced a new modularization approach for its Smart Manufacturing Platform to enable accessibility and scalability for digital transformation in manufacturing. This approach, enabled by Plex's innovative cloud-native platform, more closely aligns with customers' needs as they build

their smart manufacturing technology strategy, including a focus on flexibility, quick implementation, and ease of entry with a path to grow.

With Plex, manufacturers can start their digital transformation in a number of ways. For example, they can initially implement quality management (QMS) or manufacturing execution (MES) systems – common entry points for most manufacturers – and from there add capabilities, such as production monitoring, asset performance management, or supply chain planning. With this approach, companies pick the starting point that best meets their needs and then can scale into additional connected solutions over time. Plex uniquely enables new capabilities to simply be activated versus "installed" and for data and governance rules to flow seamlessly throughout the system.

Three examples of the new modular solutions include:

- New Product Introduction and Management: Maximize profitability and increase competitive position by reducing time to market and decreasing development costs. Companies can manage the product and program lifecycle – from concept to completion – and effectively track new and existing products, including updates, retirement, and obsolescence.
- Labor and Workforce Management: Optimize labor schedule and costs while preserving delivery schedules through effective labor management, clear skills-to-required production capabilities, reduction of onboarding time, and programs for employee health and safety.
- Advanced Quality: Proactively manage supplier quality and compliance with integrated continuous improvement toolsets and extend quality processes throughout the full supply chain to promote a holistic quality culture both inside and outside the four walls of the organization.

"Plex was built from the ground up for manufacturers with flexibility and scalability in mind, as evidenced by our cloud-first multi-tenant architecture. Modularization takes this a step further with numerous starting points for companies at any stage to begin or expand their digital transformation journey," said Nathan Pieri, chief product officer and vice president, applications, Rockwell Automation. "We took an outside-in look at understanding customer challenges and aligned our approach to help them manage their entire lifecycle and deliver positive business outcomes every step of the way. By providing manufacturers with easier points of entry and an elastic building block approach, companies can focus on their immediate Industry 4.0 transformation needs with options to add more capabilities as they need them, all seamlessly within our secure manufacturing cloud."

"This approach solves a major need for manufacturers, addressing prioritized pain points immediately while providing a simple path to broader capabilities as needed. Plex is distinctive in its multi-tenant SaaS approach, enabling modular capability expansion without complicated integrations," said Reid Paquin, Research Director at IDC.

"The new modular approach, from production monitoring to full ERP and everything in between, ensures we can help customers quickly solve their most pressing pain points with one, many or all of our innovative smart manufacturing solutions, meeting them where their needs are and supporting them as they grow," commented Ron Pascuzzi, chief customer officer, Plex Systems. "Plex's customer-led approach to our product strategy is affirmed by offering a fast path to start their digital transformation journey."

Plex is a cloud pioneer that uniquely offered its innovative QMS and MES capabilities as part of its ERP solution in a multi-tenant SaaS environment for over twenty years. This modular approach demonstrates the unparalleled flexibility available with a cloud solution and gives manufacturers the ability to continue to implement all these capabilities at once or compose the solution they need with seamless scale.

Shaping Construction: Nemetschek Group and The B1M launch Construction Story of the Year 2022

14 June 2022

The Nemetschek Group, one of the leading software providers for the AEC/O and media & entertainment industry and The B1M, construction's leading video channel, today launched the global initiative "Construction Story of the Year".

The program aims to highlight the world's most impressive and inspiring construction stories. It is looking for amazing projects, ideas or initiatives that show the best of the architecture, engineering, and construction (AEC) industry over the past twelve months. Its goal is to showcase the story that highlight the innovation of the construction industry and can serve as lighthouse project for its digital transformation.

"Every build project is a unique creation, often pushing the limits of our capabilities and requiring new approaches. This award highlights and celebrates the innovative ways our industry overcomes challenges and improves the way we shape the built world," says Don Jacob, VP Technology and Innovation, Build & Construct Division at the Nemetschek Group.

"Construction isn´t very good at shouting about itself," explains Fred Mills, Founder and Managing Director of The B1M. "Most people take this critical sector for granted and only ever hear about its mistakes. We want to change that by showcasing the most incredible AEC story."

The submissions will be judged by a renowned panel including Don Jacob, Nemetschek Group, Fred Mills, founder, and Managing Director of the B1M, Maria Lehman, president-elect of the American Society of Civil Engineers, engineer and TV presenter, Jacqueline Glass, professor in construction management at the Faculty of the Built Environment at London City University, and Salla Eckhart from Microsoft.

Entries are now open and will be closed on August 26. Three shortlisted contenders will then have a short video feature created on their entry for distribution across The B1M's and Nemetschek Group´s networks. Reaction and feedback from The B1M's audience, followed by a final judges' deliberation will determine the winner. The award ceremony will take place on November 2, at the Nemetschek Group's headquarters in Munich, Germany.

Taulia appoints Danielle Weinblatt as Chief Product Officer

15 June 2022

Taulia, a leading provider of working capital management solutions and part of the SAP Group has announced the appointment of Danielle Weinblatt as Chief Product Officer.

In this role, Danielle will oversee Taulia's product organization and execute its ambitious product vision, strategy, and development roadmap. She will focus on building innovative offerings, expanding product suites to new geographic markets, and will work closely with SAP to provide customers with the best working capital tools needed to thrive in the networked economy. Danielle will report directly to Taulia's CEO, Cedric Bru, and will work closely with Taulia's Sales, Marketing and Technology leads.

Danielle joins Taulia with over 10 years of experience in the SaaS industry. She most recently served as Executive Vice President of Product at 24/7 Software. Prior to this, she was the Founder and CEO of ConveyIQ, which was acquired by Entelo.

Danielle holds a Bachelors' Degree from Cornell University and an MBA from Harvard Business

School.

Danielle Weinblatt, Chief Product Officer, Taulia, comments: "I couldn't be more excited to join the Taulia and SAP teams. By combining people, innovation, and technology, I believe we can create better and more sustainable solutions for our customers. I look forward to working closely with our customers to help them unlock their liquidity and achieve their working capital goals."

Cedric Bru, Chief Executive Officer, Taulia, comments: "Danielle joins us at an exciting point in our journey. We remain focused on accelerating growth, driving innovation, and providing our customers with the industry's best working capital management platform. Having best in class products is central to delivering on our strategy and with Danielle's leadership and expertise, we'll be able to accelerate our growth to serve our customers and communities better."

TCS Expands in Minnesota by Creating More Hi-Tech Jobs and Growing STEM Education Initiatives by 50%

13 June 2022

Tata Consultancy Services (TCS) announced plans to continue growing its footprint in Minnesota by expanding its hiring program in the coming year and accelerating its STEM outreach efforts in local schools to cover 50% more students and teachers.

"We're incredibly excited that a global leader in STEM jobs and education programs is expanding here in Minnesota, adding over 100 new jobs to our economy," said **Governor Tim Walz**. *"Minnesota knows that when our people thrive, our businesses thrive. Our strong tradition of innovation and investing in skills and job training make Minnesota an ideal destination for partnerships with high-tech businesses like TCS. We look forward to continuing this partnership and working together to help prepare Minnesotans for successful careers in STEM."*

Bloomington, Minnesota is home to one of the 30 TCS facilities in the U.S. and supports leading enterprises in Minnesota, including Ameriprise Financial and Best Buy. TCS currently has more than 1,000 employees in the state – including 400 who were hired within the last five years – helping companies along their growth and transformation journeys through consulting services, industry experience, advanced technology, and intellectual property.

"TCS is committed to expanding our presence in Minnesota and finding talent in the North Star State to provide local businesses with innovative solutions to their biggest challenges," said **Suresh Muthuswami, Chairman of North America, TCS**. *"We also look forward to fostering the next generation of tech talent in Minnesota schools. That goal is driving our commitment to growing our STEM education initiatives by 50% in the coming years."*

Present in the U.S. for over 40 years, TCS is partnering with nearly half of Fortune 500 companies to help them digitally transform and grow their businesses. TCS is also among the top two U.S. recruiters of IT services talent, having hired 32,000 employees over the last five years.

Expanding STEM and computer science education in schools across the U.S. is a top priority for TCS as one of the world's largest technology consulting companies. Minnesota currently has nearly 11,000 open computing jobs, yet only had 1,533 graduates in computer science in 2019. Just 24% of Minnesota public high schools currently teach foundational courses in computer science.

TCS brought its goIT program to Minnesota in 2014. This STEM training initiative fosters digital innovation and career readiness at local middle and high schools. Over 42,000 students in the U.S. and Canada have been directly impacted by goIT, and 75% of students in Minnesota benefitting from goIT

belong to groups currently underrepresented in computer science.

TCS is also helping educators embed computational thinking into core subjects such as math, science, language, arts, and social studies through Ignite My Future in School, a program the company pioneered in 2017. Since its launch, Ignite My Future in School has reached over one million students and 26,000 teachers in North America. Over 200 Minnesota teachers have engaged with Ignite My Future in School – impacting over 13,000 students. Educators from multiple school districts in Minnesota have participated in TECHademies and computational thinking professional development courses, free of charge.

Additionally, over 4,000 TCS employees have volunteered nearly 8,000 hours with organizations in Minnesota, including the Washburn Center for Children and the American Heart Association.

Tech Mahindra Inks MoU with Atal Incubation Centre to Drive Innovation in Molecular Biology & Genomics Space

8 June 2022

Tech Mahindra, a leading provider of digital transformation, consulting, and business re-engineering services and solutions, has signed a Memorandum of understanding (MoU) with Atal Incubation Center– Centre for Cellular and Molecular Biology (AIC-CCMB), Hyderabad, a premier incubator focused on promoting entrepreneurship in life sciences, health, pharmaceuticals, and biotechnology**,** to spearhead innovation in molecular biology & genomics.

As a part of the two-year partnership, Tech Mahindra and AIC-CCMB will jointly build a next-generation healthcare ecosystem that will boost biotechnology innovation by leveraging real-world genomics data to develop use cases. Tech Mahindra's strong digital capabilities across emerging technologies such as artificial intelligence (AI), machine learning (ML), and data analytics combined with AIC-CCMB's vast experience of fostering innovation and expertise in molecular biology and genomic applications will help to develop a next-generation healthcare ecosystem.

Dr. N. Madhusudhana Rao, CEO, AIC-CCMB, said, "*At AIC-CCMB we endeavor to build an ecosystem for enabling biotechnology innovation and ensure that the technologies are translated into sustainable business solutions that reach the citizens. With this MoU with Tech Mahindra, we now have a new lens to deep dive into advanced genomics-driven precision medicine research. This will help us identify markers and provide insights towards enabling advanced genomics and molecular science-based healthcare ecosystem. The collaboration with Tech Mahindra will strengthen our capabilities in Molecular biology and Genomics offerings by bringing in the expertise in AI/ML and analytics."*

This collaboration will strengthen Tech Mahindra and AIC-CCMB's capabilities in Molecular Biology and Genomics-led drug offerings. The organizations will leverage new-age technologies in core life-sciences research to foster innovation and co-develop a resilient healthcare ecosystem.

Vivek Agarwal, President – BFSI, HLS and Corporate Development, Tech Mahindra, said, *"With the purpose of co-creating a healthcare ecosystem with high standards of equitable care, Tech Mahindra has partnered with AIC-CCMB. We look forward to working collaboratively with AIC-CCMB to strengthen our combined service offerings in Genomics-led drug discovery and Pharmacogenomics."*

This partnership is also in line with Tech Mahindra's NXT.NOW^{TM} framework, which aims to enhance 'Human Centric Experience', and focuses on investing in emerging technologies and solutions that enable digital transformation and meet the evolving needs of the customer

Uptake Receives SOC 2 Type II Certification

14 June 2022

Uptake, a leader in industrial intelligence, announced today that it has completed its SOC 2 Type II audit, performed by KirkpatrickPrice. SOC 2 compliance demonstrates that software-as-a-service (SaaS) applications have the necessary controls and processes in place to protect data processed on their systems, and is a critical criterion for evaluating the security of software vendors.

"The safety and cyber-security of industrial data and systems are critical for our customers and partners, and they're core to our products and services," said Linda Bartman, President, Uptake. "We're committed to ensuring data entrusted to Uptake is secure and available for all of our customers' objectives, including digital transformation and sustainability initiatives."

A SOC 2 audit provides an independent, third-party validation that a service organization's information security practices meet industry standards stipulated by the AICPA. During the audit, a service organization's non-financial reporting controls, including security, availability, processing integrity, confidentiality, and privacy, are tested. The SOC 2 report delivered by KirkpatrickPrice verifies the suitability of the design and operating effectiveness of Uptake's controls to meet the standards for these criteria.

"The SOC 2 audit is based on the Trust Services Criteria," said Joseph Kirkpatrick, President of KirkpatrickPrice. "Uptake delivers trust-based services to their clients, and by communicating the results of this audit, their clients can be assured of their reliance on Uptake's controls."

Wipro to quadruple the number of employees in Norway

14 June 2022

Wipro Limited, a leading global information technology, consulting, and business process services company, is increasing its investment locally in Norway to help its clients capitalize on digital transformation. Within the next two years the company is looking to grow from 85 to 350 employees in Norway.

"The increased local investment is part of our new operating model, which has identified the Nordics as one of the Strategic Market Units in Europe. As such, we are positioning ourselves as an innovation partner to businesses in the region," said Vinay Firake, Senior Vice President & Managing Director, Nordics, Wipro Limited.

The intention behind the new operating model is to empower local management to provide more in-depth local contact, decision making, and investment for the long-term benefit of local clients. Having a 95 percent locally hired workforce in Norway today, Wipro is determined to stay at this level in its new growth phase.

"We firmly believe that technology is critical to solving the different challenges we face today while shaping the world of tomorrow. To help our clients realize their transformation goals, we will be looking to hire for a range of roles from IT consulting, engineering, and industry domain—all in the local market," said Firake.

"Our employees are the drivers for growth, and their happiness is key for our success. As our society gets increasingly diverse, we also need to make sure that our workforce represents this diversity," he added. "To accommodate today's digital and diverse workforce, we are committed to creating a culture that puts our people at the center of our business and empowering them to realize their full potential. This means continuing our hybrid working model, and for those who choose to work from the office, I

am happy to announce that we are upgrading and doubling our office space in Oslo this year."

Nordics are European leaders in digital maturity

Wipro first established itself in Norway and the Nordics in 2006. Since then, Wipro has supported some of the region's largest companies by transforming their business through technology.

"Since we first came to the Norwegian market, we've been focusing on partnering with local companies to achieve outcomes that fundamentally transform their businesses. For instance, Wipro has a long-standing 20-year relationship with the Wilhelmsen Group. We have supported them on enterprise applications and, today, we manage a set of customer integrations and provide robotic process automation support to a part of the Wilhelmsen group. Working in a global organization, I can say that Norway and the Nordics is a special market.

"The willingness to invest correlates with Norway's recent focus on digitalization as a critical tool to develop important sectors further. Business transformation is being largely driven by digitalization, which places Wipro in an important position to help Norwegian companies fulfil their targets. It has also become clear that, without successful digitalization, the sustainable development goals will not be reached by 2030. To meet the local demand and grow our operations, we are first and foremost looking to grow the energy and telecom sectors in Norway, namely in the areas of cloud services and cyber security," Vinay concluded.

Event News

DELTEK ANNOUNCES ITS RENAMED CUSTOMER CONFERENCE, DELTEK PROJECTCON, TO BE HELD LIVE THIS NOVEMBER

14 June 2022

Deltek, the leading global provider of software and solutions, has announced that registration has opened for its annual customer conference, being held November 15-18, 2022. The newly renamed conference, Deltek ProjectCon – formerly known as Deltek Insight – is returning to an in-person format, taking place at the Gaylord Opryland Resort & Convention Center.

Deltek Project Nation – Back Together, In Person!
Deltek's annual conference brings together thousands of project-based professionals, Deltek experts and partners from around the globe for education, inspiration and collaboration. This year's event will deliver engaging sessions, unique networking opportunities, one-on-one meetings with Deltek experts, and a chance to explore products and services in the XPO. Attendees will have the opportunity to deepen their knowledge of Deltek products and industry topics at over 300 breakout sessions presented by Deltek product experts, customer peers, partners and industry luminaries.

"Deltek ProjectCon will be the largest gathering of our eco-system of customers, partners and industry experts under one roof. We are thrilled to be back in person to educate and inspire the Deltek Project Nation community," said Perry Hardt, CMO at Deltek. "We renamed the event to better reflect what this event is all about—the community of project-based professionals. The name is new but the event will continue to give attendees what they have come to love and expect from our annual conference—updates on Deltek products, industry insights from peers and luminaries, and inspiration from guest speakers. In addition, we look forward to recognizing our Most Valuable Project Awards Winners and giving everyone lots of opportunities to network and connect."

Visit Deltek ProjectCon online to learn more and register for the conference.

IMAGINiT Building Experts to Share Insights at BiLT 2022

14 June 2022

IMAGINiT Technologies' architecture, engineering and construction specialists will share insights about technology in the world of building and infrastructure at the BiLT Americas conference. The BiLT (Building, Infrastructure, Lifecycle and Technology) Conference, being held June 14 - 16, 2022 at the Anaheim Convention Center, Anaheim, California, is a networking and educational event that brings together a community of people who design, build, operate and maintain built environments. IMAGINiT speakers and experts will be available to meet with conference attendees at booth #512.

"After two long years, the team looks forward to connecting with colleagues once again at BiLT," says Bill Zavadil, president and chief operating officer, IMAGINiT Technologies. "Stop by the IMAGINiT booth and engage with the development team who created our IMAGINiT Clarity solution as well as our popular Revit Utilities. These tools are used by thousands of firms around the world to help save them time on projects using Autodesk Revit. We are also extremely proud to have four of our building and infrastructure experts speaking at this year's event."

Plan now to attend these popular conference sessions with IMAGINiT's experts:

ENHANCING UNIT-BASED BUILDING MODELS THROUGH REVIT® AND DYNAMO
Wednesday, June 15, 2022 - 2:30 PM

Jamie Owens, solutions consultant, and Marie Williams Bell, applications expert, will discuss: workflow pros and cons for unit-based projects; how to identify the best method for the project, and; the best ways to leverage Revit Proposal Details and Dynamo.

AUTOMATING BUILDING CODES INTO REVIT
Thursday, June 16, 2022 - 9:00 AM

Tom Tobin, applications expert, will provide insights on how architects can use Revit to automate processes and eliminate human errors from Building Code requirements.

TO DYNAMO OR NOT TO DYNAMO: A GUIDE TO DECIDING WHEN AUTOMATION IS THE ANSWER
Thursday, June 16, 2022 - 9:00 AM

Recognizing that Dynamo has become an increasingly popular tool for Revit automation, Marie Williams Bell and Jamie Owens will provide insights that help users decide when it's best to use Dynamo to automate a task.

ADAPTIVE PATTERN-BASED FORM CREATION FOR TOPOGRAPHICAL DEVELOPMENT
Thursday, June 16, 2022 – 2:30 PM

Tiffiny Williams, senior education specialist, will break down how to use adaptive pattern-based family forms, including topography creation, for use and implementation in Revit.

For more details on IMAGINiT's presentations, view the BiLT schedule. To learn more about IMAGINiT's latest Utilities for Autodesk Revit, visit booth 512 and meet with IMAGINiT's director of software development, Matt Mason or register to join the free Revit Utilities 2023 webinar hosted by Joe Eichenseer, building solutions division manager, North America, on June 16 at 1 pm Eastern.

Manufacturing leaders gather at HxGN LIVE Global in Las Vegas to discuss future of industry

15 June 2022

HxGN LIVE Global is Hexagon's much-anticipated annual digital reality solutions conference, bringing together visionaries from around the world to discuss, debate and experience the autonomous future. Its technologies touch the production of 95% of cars and 90% of aircraft produced globally, with customers that include household names from all major industries including Microsoft, LG, Airbus, Volvo and BMW.

The four-day conference runs from the 20th-23rd of June 2022, and will be hosted at The Venetian in Las Vegas, where experts in digital solutions will arrive from all over the world to share their insights into the future of manufacturing.

The world of manufacturing is changing rapidly and as such the programme will be targeting the questions at the forefront of the global conversation on manufacturing, with sessions covering digital twins, reality capture, advanced analytics, AI and machine learning, and the journey towards optimised processes, continuous improvement and autonomous production.

This year, two keynotes delivered by Hexagon's Manufacturing Intelligence division leadership, innovative partners and disruptive customers, will take centre stage across the conference, and will be streamed live. These sessions include:

- **The day the lights went out on manufacturing**
  3 Pivotal Lessons from manufacturing's historic disruption
  (Tuesday 21st 11am (PDT)/2pm (EDT)/7pm (BST))

  Here Hexagon's Chief Operating Officer and President of Hexagon's Manufacturing Intelligence division, Paolo Guglielmini, will explore how a global crisis is making manufacturing smarter, more resilient and more sustainable. Paolo will be joined by distinguished guests Kevin Czinger, CEO Divergent, Ales Holeček CVP Office Microsoft and Parth Joshi CP&TO Hexagon's Manufacturing Intelligence division will tackle the toughest and most enduring takeaways from the past 3 years, including conquering uncertainty, the requirement for digital collaboration throughout the product lifecycle, creating agility in the supply chain, and how the sustainability mandate will absolutely be met

  https://go.hexagonmi.com/HxGNLive-Lightsout

- **How leading brands optimise quality processes to deliver consistently high quality**
  Exploring the challenges and rewards of connecting quality with business practices
  (Wednesday 22nd of June 8am (PDT)/11am (EDT)/4pm (BST))

  Manufacturers in every industry are challenged to consistently deliver high quality products amidst constant change and budgetary pressures. Advanced quality management and digitalised control systems are solving these problems, overcoming the issues presented by more complex designs, supply chain disruption and disparate regulatory pressures.

  ETQ's CEO Rob Gremley will discuss the pivotal role a cloud-based Quality Management System (QMS) plays in aligning organisations to make better decisions and take faster action. He will be joined on stage by Kimberly-Clark's Ben Bollenbacher, ETQ's CTO Morgan Palmer and Sara Hanks, from global rail manufacturer, Wabtec. The expert panel will talk through their various approaches to using data and connectivity to bring new products to market, reduce costs, minimise uncertainty, and improve quality.

https://go.hexagonmi.com/HxGNLive-Quality

Each keynote can be watched online through the links above and is available to anyone wanting to deepen their understanding of the industry.
To plan your virtual attendance at HxGN Live 2022, you can view all sessions, panels and keynotes here.

Newly Released Mastercam 2023 on Display at IMTS

10 June 2022

Attendees at the International Manufacturing Technology Show (IMTS) 2022 will experience the most powerful machining software from CNC Software, LLC to date, Mastercam 2023. IMTS is the largest and longest-running industry trade show in the Western Hemisphere, held every other year in Chicago, attracting an international audience of more than 115,000 people. This year, visitors can investigate the latest functionality of Mastercam at booth # 133222 and at the Student Summit booth #215200 at McCormick Place, Chicago, IL, September 12-17.

Stas Mylek, Partnerships Program Manager at Mastercam, will be presenting Digitalization of the Manufacturing Floor: Are SMEs Ready for the Next Wave? on Monday, September 12, from 3:15 – 4:10 P.M. in room W192-C. He will cover how emerging digitalization will impact small and medium machine shops, and how best to prepare for change. Mastercam will be on display throughout the IMTS show floor, with over 40 parts being programmed in Mastercam partner booths such as MC Machinery (338129), Okuma (338500), Doosan (338900), and FANUC (338919). Meanwhile, in the main Mastercam booth, Mastercam partners, Resellers, and employees will be giving presentations every hour Monday – Friday on many different topics and features.

Manufacturers from all over the world got the chance to test-drive Mastercam 2023 during the Public Beta Program before it was released and provided valuable feedback to help shape the final 2023 product. Many of the improvements in Mastercam 2023 are directly driven by Mastercam users and shops. Feedback from Public Beta releases, shop visits, customer surveys, and consultation with our expert industry partners create the practical, shop-driven focus that helps ensure Mastercam users' success.

Consolidating Multiaxis Toolpaths. Morph, Parallel, Along Curve, and Project Curve are no longer individual toolpaths in Mastercam 2023. Instead, the Unified toolpath allows access to these cut patterns when you add the appropriate curves. For example, to create a toolpath that morphs between two surfaces, select Unified from the Multiaxis toolpaths, and then set the Cut Pattern to two surfaces with the Morph style.

Detecting Undercut Stock When Machining. The Dynamic OptiRough and Area Roughing toolpaths can now be aware of undercut stock conditions, resulting in improvement to the toolpath motion, including less air cutting.

New B-Axis Contour Turning Toolpath. Mastercam 2023 introduces a new toolpath to the Turning suite for the Mill-Turn product. B-Axis Contour Turning is a finishing toolpath that allows for rotation of the B-axis while the tool is cutting. The toolpath features a top-down workflow and provides you with either Automatic or Manual motion control. Automatic mode produces safe toolpath motion that keeps the insert in contact with the contour. Manual mode offers full control over the B-axis angles along the contour.

SEMICON WEST 2022 HYBRID TO SPOTLIGHT SUSTAINABILITY, SMART TECHNOLOGIES, TALENT

7 June 2022

Sustainability, smart technologies and workforce development will take center stage at SEMICON West 2022 Hybrid, July 12-14 at the Moscone Center in San Francisco, as more than 200 industry leaders, visionaries and technology experts convene to present insights into the latest trends, innovations and developments across the microelectronics supply chain. The event, North America's premier exhibition and conference for the microelectronics supply chain, will feature on-site keynotes, fireside chats, and executive panels with thought leaders from the semiconductor ecosystem, academia and government. Registration is open.

With decarbonization building momentum worldwide, the Global Sustainability Summit will debut at SEMICON West 2022 Hybrid to help drive the collaboration necessary for the semiconductor industry to reduce its carbon footprint. Co-hosted by SEMI and McKinsey & Company, the summit comes as semiconductor manufacturers are increasingly committing to sustainability targets. In parallel, SEMI member companies are joining forces with startups to enable a greener chip industry as part of the SEMI Sustainability Initiative.

SEMICON West 2022 Hybrid will also highlight opportunities for overcoming other worldwide challenges such as unmet demand for chips and the semiconductor workforce shortage while addressing key themes including government investment in chip manufacturing, digital transformation, and heterogeneous integration.

"With strong progress on CHIPS Act passage and significant new fab investments in the U.S., we're thrilled to welcome back key semiconductor industry players to SEMICON West in July to explore new business and collaboration opportunities at the heart of continuing innovation," said Joe Stockunas, president of SEMI Americas. "Companies from across the entire supply chain will network and showcase the latest technologies and products as we invite them to join the industry's sustainability push, which is key for it to thrive."

SEMICON West 2022 Hybrid Smart Pavilions

- **Smart Manufacturing Pavilion** – The pavilion will feature data-sharing breakthroughs that are leading to smarter manufacturing processes, higher yields, and new semiconductor innovations. Thought leaders will engage attendees at the Meet the Experts Theater on topics including advances in sensors, processors, memory, 5G, and silicon photonics for improving data-sharing across the microelectronics supply chain. Emerging IC technologies for connected intelligence in electronics manufacturing will also be in focus.
- **Smart Mobility Pavilion** – Leading all new application spaces in chip growth, the transportation and mobility markets promise to fuel the expansion of segments such as flexible hybrid electronics (FHE), MEMS and sensors. The pavilion will also showcase semiconductor industry growth opportunities through advances in areas including autonomous vehicles, Internet of Things (IoT) applications, 5G and artificial intelligence (AI).
- **Smart MedTech Pavilion** – The pavilion will focus on future MedTech markets and applications and include technology demonstrations. Industry experts will discuss medical wearables and point-of-care instrument innovations driven by development of MEMS-based sensors and actuators.
- **Workforce Development Pavilion** – Building the microelectronics industry's talent pipeline to

sustain the current pace of innovation and growth is a top priority. Targeting both new strategies for recruiters and tactics for job seekers, the pavilion will highlight entry-level opportunities, searching for a job during uncertain times, and why microelectronics is a smart career choice.

SEMICON West 2022 Hybrid Sessions

- **SEMI Market Symposium** – Market trends and drivers and a midyear update on forecasts and insights on semiconductor equipment and materials, electronics design, and the manufacturing supply chain.
- **Bulls & Bears** – Perspectives on key semiconductor industry trends from Wall Street analysts in a moderated panel discussion.
- **TechTALKS** – Discussions with experts on advanced manufacturing, materials, silicon photonics, MEMS and sensors, and heterogenous integration.
- **Test Vision Symposium** – Insights from providers and users of test IP and equipment on coming trends and innovations.

The FLEX Conference, the annual event focused on flexible hybrid and printed electronics innovations, and the Design Automation Conference (DAC), the premier gathering focused on the design and design automation of electronic circuits and systems, will co-locate with SEMICON West 2022 Hybrid.

COVID-19 Safety Protocols

To ensure the well-being of all its exhibitors and visitors, SEMI monitors developing federal, state, and local health and safety recommendations and requirements to determine the most appropriate safety protocols for in-person events.

Recorded programming of select speakers at SEMICON West 2022 Hybrid will be available on-demand July 13, 2022, through August 13, 2022. Visitors will have direct access to exclusive online exhibitors during the live event.

Follow SEMICON West on Twitter: **#SEMICONWest**

Financial News

Blackline Safety Reports Fiscal Second Quarter of 2022 Results – Revenue up 43% Year-over-Year to $16.7 Million

14 June 2022

Blackline Safety Corp., a global leader in connected safety technology, reported record fiscal second quarter financial results for the period ended April 30, 2022.

Management Commentary

"We generated another quarter of robust top-line growth reaching revenue of $16.7 million, not including $0.8 million of orders that were at the end of the quarter and are expected to be realized in Q3. We continued to deliver for our customers despite difficult operating conditions, including the ongoing global supply chain challenges, which has temporarily driven cost increases and extended sales cycle times," said Cody Slater, CEO and Chair of Blackline Safety. "We saw a return to growth in Canada with revenue up 65%, while the United States ("U.S.") and Rest of World maintained strong growth of 51% and 62%, respectively. However, we saw disappointing sales in our European market with growth of only 9%.

"Service margins have remained extremely strong at nearly 70%. Although product margins continue to

be affected by elevated component and freight costs, the majority of lifetime value for most of our products is generated by attaching higher margin recurring service revenue. For example, every $1 in G7 wearable sales translates to approximately $4 in lifetime recurring service revenue. Additionally, our service business is performing well with net dollar retention[(1)] of 105% and total software services revenue of $7.8 million which was up 26% year-over-year and 5% sequentially. Delayed deployments of large orders received in the previous two quarters reduced the growth rate of our service revenue in Q2, but we see these deployments being completed in the second half of the year, which should accelerate service growth.

"In the past 18 months our 'Invest to Grow' strategy has allowed Blackline to generate excellent growth as we have expanded our capabilities to meet the needs of our Global market. This investment has positioned the Company to maintain our strong top-line growth while enabling a more conservative approach to our expenses. Going forward, we see this resulting in Q4 operating expenses at or below those of our Q2. Collectively, we expect our operating expense management and margin improvement, along with continued top-line growth to drive our overall financial performance.

"We continue to see healthy demand for our products and services, and to maximize these opportunities, we appointed Sean Stinson as Chief Growth Officer in May. Sean is a proven leader who has been instrumental building the commercial engine that drives our North America and Rest of World sales. We expect that bringing Europe under this umbrella will allow us to better capture this market opportunity.

"The forthcoming launch of our G6 product continues to generate positive early feedback and interest as we look to disrupt the $240 million annual zero-maintenance gas detection market. The commercial rollout of G6 had been forecast to launch in July, however we have pushed out the launch date to October as supply chain challenges have put demands on our development teams to service products currently in the market. The newly acquired Swift Labs Inc. ("Swift Labs") engineering team gives us the additional capacity needed to mitigate risk to the G6 schedule while ensuring deliverability of our current portfolio despite supply chain challenges. We are eager to launch G6 at the NSC Safety Congress & Expo, North America's largest event for workplace safety, in September."

Fiscal Second Quarter 2022 and Recent Financial and Operational Highlights

- Total revenue of $16.7 million, a 43% increase over the prior year's Q2
- Service revenue of $8.8 million, a 24% increase over the prior year's Q2
- Product revenue of $7.9 million, a 72% increase over the prior year's Q2
- Continued strong growth of 51% in the U.S. market compared to the prior year's Q2
- 62% revenue growth in Rest of World market compared to the prior year's Q2
- Canadian market returned to growth after two years with an increase of $2.0 million
- Annual recurring revenue[(1)] growth of 24% year-over-year to $30.8 million
- Closed acquisition of Swift Labs, an Internet of Things design and engineering consulting firm, for consideration of $4.5 million in cash and shares
- Appointed Sean Stinson as Chief Growth Officer to oversee global revenue growth, channel management and customer support functions
- Named by Financial Times as one of the fastest growing companies in The Americas for 2022
- Awarded four 2022 top Industrial Hygiene Awards by Occupational Health & Safety

(1) This news release presents certain non-GAAP and supplementary financial measures, including key performance indicators used by management and typically used by companies in the software-as-a-

service industry, as well as non-GAAP ratios to assist readers in understanding the Company's performance. Further details on these measures and ratios are included in the "Key Performance Indicators," and "Non-GAAP and Supplementary Financial Measures" sections of this news release.

Key Financial Information

Fiscal second quarter revenue was $16.7 million, an increase of 43% from $11.7 million in the prior year quarter, with Canada up 65%, Rest of World up 62% and U.S. revenues up 51% being the largest geographic growth regions quarter-over-quarter.

Service revenue during the fiscal second quarter was $8.8 million, an increase of 24% compared to $7.1 million in the prior year quarter. Software services revenue increased 26% to $7.8 million, operating lease revenue decreased 30% to $0.6 million and rental revenue increased 384% to $0.5 million. Retention rates of our existing customers across geographic regions and industry sectors remained robust. Service revenue increases within our existing customer base contributed $0.6 million during the quarter. There were also adverse effects of $0.6 million from customers who renewed fewer active devices after experiencing workforce reductions during the last twelve months. In addition, certain customers declined to renew their service plans resulting in negligible reductions. Rental revenue growth continues to be strong, establishing the business line as a more material contributor to Blackline due to the application of the Company's complete suite of connected worker and area monitoring solutions in the industrial turnaround and maintenance market.

Product revenue during the fiscal second quarter was $7.9 million, an increase of 72% compared to $4.6 million in the prior year quarter, which reflects the Company's investment in its expanded sales network across North America, the European Union and other geographies over the last twelve months.

Overall gross margin percentage for the fiscal second quarter was 42%, a 9% decrease compared to the prior year quarter driven by a heavier product versus service mix and lower product margins. Service gross margin percentage was 69% in the fiscal second quarter compared to 68% in the prior year quarter due to higher overall service volumes, partially offset by higher carrier costs for the connectivity of the Company's devices as well as increases in personnel costs for Safety Operations Centre team members and the product development support team. Product gross margin percentage decreased to 13% from 25% in the prior year quarter but improved from 10% in the fiscal first quarter of 2022. The decrease from the prior year period is due to higher material, supply and freight costs resulting from global supply chain challenges.

Net loss and EBITDA were $14.5 million and ($12.9) million, respectively, in the fiscal second quarter, compared to net loss and EBITDA of $8.6 million and ($7.2) million in the prior year quarter. The increase in losses is attributable to the Company's 'Invest to Grow' strategy and was specifically related to an increase in general and administrative, sales and marketing expenses, and product research and development costs, primarily as a result of higher salaries expense from additional new hires.

Adjusted EBITDA was ($6.4) million for the fiscal second quarter compared to ($1.5) million in the prior year quarter. The decline in Adjusted EBITDA in the quarter was primarily attributable to the investments made to grow the business which resulted in an increase in general and administrative and selling and marketing expenses including higher salaries from additional team members.

At quarter end, Blackline had cash and short-term investments of $30.0 million and no debt. The Company's cash position enabled it to invest in its manufacturing infrastructure and support the working capital required to maintain flexibility in the face of ongoing challenges in the global supply chain. During the quarter, the Company closed on the acquisition of Swift Labs, the consideration for which included $3.2 million in cash. Blackline also invested an additional $1.3 million during the quarter to

expand the rental fleet to 1,500 units at the end of the quarter as the Company secures a greater volume of short-term projects.

Implementation Investments

AECOM to complete design of new North Shore Wastewater Treatment Plant

15 June 2022

AECOM, the world's trusted infrastructure consulting firm, announced it has been selected by Metro Vancouver to design the North Shore Wastewater Treatment Plant, a new tertiary treatment facility that will replace the existing Lions Gate Wastewater Treatment Plant and serve approximately 250,000 residents in the Districts of West and North Vancouver, the City of North Vancouver, and the Squamish and Tsleil-Waututh Nations. In this role, AECOM will provide design completion and construction management services to assist in the transition of the project to the new construction contractor.

"We're honored to partner with Metro Vancouver to complete the design of the North Shore Wastewater Treatment Plant, working alongside the project's contractor, PCL Construction," said Beverley Stinson, chief executive of AECOM's global Water business. "The plant is critical to bolstering the resiliency of the community's wastewater infrastructure while safeguarding its surrounding natural ecosystems. We're proud to partner with our clients across the globe to help solve their multifaceted water challenges and set new standards for treatment."

AECOM is uniquely positioned to transition into the role of design engineer and support the timely delivery of the project, having served as Metro Vancouver's owner's engineer since project initiation. The firm will also assist with procurement and project controls systems, lead construction monitoring, assist with commissioning, and provide select operations support to aid Metro Vancouver with the transition to operating the new facility, which is being constructed to Leadership in Energy and Environmental Design (LEED) Gold and Envision Gold certification standards.

"As Vancouver's North Shore continues to grow, this new wastewater treatment plant is a vital necessity to continue protecting the human and marine health of the area and will play an imperative role in educating the public on key sustainability initiatives," said Marc Devlin, chief executive of AECOM's Canada region. "We're excited to be part of the team delivering this facility with the best interests of the region at the forefront of our project execution plan and look forward to providing services focused on quality, safety, and efficiency."

The plant features an enclosed, urban, modern design, including a public plaza, educational, and community meeting spaces. It plans to deliver tertiary treatment, exceeding federal regulatory requirements for treatment technology and improving the quality of treated wastewater released into the marine environment. The facility is expected to recover heat from treated effluent for use internally and externally by the Lonsdale Energy Corporation as an alternative thermal energy source and conserve water resources through the harvest of rainwater and reclamation of treated effluent water for use within operations and other non-potable purposes.

AECOM to provide environmental master planning services for Greater Toronto Airports Authority

9 June 2022

AECOM, the world's trusted infrastructure consulting firm, announced it has been selected by the Greater Toronto Airports Authority (GTAA) to develop a long-term environmental master plan for

Toronto Pearson International Airport. The plan will focus on six key areas in support of GTAA's environmental policy – climate change, carbon neutrality and emissions, strategic energy use, water management, natural environment, and waste management. In this role, AECOM will suggest high level capital projects and operational changes to assist GTAA in meeting its environmental goals.

"GTAA is at the forefront of aviation sustainability, and we are honored to be part of its next chapter as it continues to demonstrate leadership in environmental policies and strategies," said Frank Sweet, chief executive of AECOM's global Environment business. "AECOM's global team of subject matter experts share GTAA's commitment to environmental stewardship, with extensive experience supporting the sustainability efforts of internationally recognized airports. As we advance our *Sustainable Legacies* strategy, we are excited to partner with clients like GTAA to deliver a lasting impact for generations to come."

Under its project scope, AECOM will develop strategic plans for each GTAA environmental focus area that will together form an environmental master plan for Toronto Pearson International Airport. The firm will provide services such as conducting baseline assessments for the focus areas; overseeing peer review and analysis of current strategies; identifying priority areas and related goals; preparing cost/benefit analysis for programs and targets; and recommending systems to monitor performance and communicate key metrics.

"We have partnered with GTAA for decades and look forward to applying this firsthand knowledge of local conditions, design standards, and airline needs to produce a high-quality, high-value product," said Marc Devlin, chief executive of AECOM's Canada region. "Our structured project management approach combined with our technical depth, focus on quality, and familiarity of Toronto Pearson's dynamic operations will allow us to help define environmental and sustainability practices that will help pave the path towards GTAA achieving its ambitious and innovative best-in-class goals."

AECOM project consultants include the International Aviation Waste Management Association, which is collaborating on the waste management plan, and GeoProcess Research Associates, which is collaborating on the natural environment management plan. These partners bring considerable experience in the aviation field and specific knowledge of GTAA's operational requirements.

GTAA manages and operates Toronto Pearson International Airport, Canada's largest airport in terms of total passenger traffic and North America's second largest in terms of international traffic, pre-pandemic. AECOM's previous work at Toronto Pearson includes the redevelopment of Terminal 1, where it served as prime consultant responsible for groundside infrastructure; the original Terminal 3; and various roads and transit, water modelling, and critical infrastructure projects.

AlumierMD Selects Centric PLM™ for a Central Source of Product Information and to Save Time

15 June 2022

AlumierMD, the medical skincare 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.

Founded in 2016, AlumierMD, with offices in the USA, Europe, and Canada, creates medical-grade skincare produced in a socially responsible way with a focus on educating customers on how to care for their skin.

Daniel Eskin, Co-President of AlumierMD says, "We're growing very rapidly. We sell exclusively to dermatologists, plastic surgeons, and medical spas who have the expertise to recommend our medical grade formulations. We have a wide range of products from home care to back bar—which means both products that patients use at home, as well as those that skincare professionals use for treatments in clinic, like chemical peels or masks, for example."

Eskin continues, "Our teams are very organized, but there's only so much that you can accomplish without the right software. We continue to scale and expand internationally. To that end, we need to utilize software that will be able to keep up with our growth when we are 5x or 10x of where we are now over the next couple of years. As you can imagine, for a rapidly expanding company that's operating in numerous markets, things can get very complicated."

AlumierMD's vetting process to find the right PLM was thorough. "We built an RFI for ourselves with all the key aspects of the software that we needed. We ended up reviewing a lot of them, narrowing it down to three or four finalists. Our team liked Centric the most. Centric met our requirements, one of which was to make sure that we could obtain modular, expanded functionality in the future and grow with it."

Packaging is an area that AlumierMD had also targeted for use in PLM not only to accommodate packaging changes but also to work around ingredient shortages and discontinuations due to the pandemic and disrupted supply chains. Eskin says, "When that happens, we have to change every product—and therefore packaging—that had that ingredient. The other consideration is, due to expansion into new regions with varying regulatory oversight, we're having to produce region-specific packaging. Having software that allows us to do proofs for different regions is really important."

Eskin lays out the expectations for Centric PLM. "The main benefit that we're looking for is centralized information. What we like the most about Centric is our information can continue to be in a central repository. Secondly, Centric will save us time. Centric has relational databases where one change carries through to all areas it impacts. I think it'll save people 20 to 30% of the regular amount of time that they would spend on making these types of changes, whether it's a regulatory or an artwork issue."

President and CEO of Centric Software, Chris Groves, says, "We are very pleased that AlumierMD, a rapidly growing company in their field, has chosen to partner with us. Centric is excited to welcome a medical dermatology company into the fold and are looking forward to seeing them continue to flourish."

Bastard Burgers Takes on NYC with Oracle Cloud

14 June 2022

Since its start in Luleå, Sweden in 2016, the NYC-inspired street food chain, Bastard Burgers, has been on a mission to go global. To support its rapid growth and expand its digital ordering capabilities, Bastard Burgers has chosen Oracle MICROS Simphony Cloud Point-of-Sale (POS). With Oracle's help, the company now boasts 67 restaurants across Sweden, Norway, and most recently at The Bronx Brewery Taproom in New York City. Expansion plans include bringing tasty burgers to more communities across Finland this fall and then Central Europe.

"We knew we needed to expand our approach to technology to match our ambitious goals," said Simon Wanler, chief executive officer of Bastard Burgers. "Working with Oracle has enabled us to bring the quality burgers we pride ourselves on to thousands of new guests across multiple countries. Their technology helps us make our restaurants and teams more efficient and deliver a better customer experience."

Bastard Burgers knew that investing in a restaurant point-of-sale system that could handle multi-currency, language, and tax requirements was critical to its expansion plans. It was also important to them that the POS technology offered well documented APIs and a robust integration partner ecosystem so that they can continue to expand sales channels and stay nimble as a business. Bastard Burgers plans to leverage Oracle PartnerNetwork (OPN) member Future Ordering to offer delivery and pick up to its customers this fall. The integration between Simphony and Future Ordering will allow Bastard Burgers to fully automate the flow of online ordering data to their POS and on to the kitchen to prepare and deliver.

"Quick-service restaurants need a platform that informs and automates kitchen operations, accounting and supply chain processes," said Simon de Montfort Walker, senior vice president and general manager, Oracle Food and Beverage. "Oracle's integrated technology platform and validated partner ecosystem gives brands like Bastard Burgers the foundation to grow, the freedom to experiment, and the insight needed to continuously tune performance."

Cadence Design IP portfolio in TSMC's N5 Process Gains Broad Adoption Among Leading Semiconductor and System Companies

15 June 2022

Cadence Design Systems, Inc. announced a wide range of leading semiconductor and system customers have successfully adopted the comprehensive line-up of Cadence® Design IP in TSMC's industry-leading 5nm process technology. Designed to the latest state-of-the-art interface standards, the Cadence's Design IP portfolio enables customers to develop the most advanced SoCs for the most demanding applications, including high-performance computing (HPC), artificial intelligence/machine learning (AI/ML), networking, storage, and automotive. The IP portfolio from Cadence in TSMC's N5 process includes 112/56/25/10 Gbps Ethernet PHY/MAC, PCIe 6.0/5.0/4.0/3.1 PHY/Controller, 40Gbps Ultralink™ D2D PHY, and complete PHY/Controller for GDDR6, DDR5/4, and LPDDR5/4x.

Cadence's design IP in TSMC's N5 process delivers optimal power, performance and area (PPA) with rich feature sets to enable uncompromised differentiation, versatility and innovation for large-scale SoC designs. In addition, Cadence provides full subsystem deliveries with integrated PHY and controller IP to simplify integration, minimize risks, and enable faster time to market.

"TSMC worked closely with Cadence, our long-standing ecosystem partner, to enable leading-edge designs, which deliver significant power, performance and area improvements on our advanced technologies," said Suk Lee, vice president of the Design Infrastructure Management Division at TSMC. "The strong collaboration between Cadence's Design IP and TSMC's IP9000 teams promotes high-quality IP delivery to help our mutual customers achieve first-pass silicon success and faster time-to-market.

"Cadence has collaborated with TSMC for decades to provide high-quality silicon-proven IP on advanced process nodes to meet the most demanding requirements for HPC, AI/ML, networking, storage, and automotive applications," said Rishi Chugh, vice president of Design IP Product Management at Cadence. "The wide adoption of our Design IP in TSMC's N5 process demonstrates the excellence and quality of Cadence's Design IP, which is empowering customers to design highly differentiated product solutions."

The N5 Design IP portfolio is part of the broader Cadence IP portfolio that supports the Cadence Intelligent System Design™ strategy. Through the continued development of our comprehensive Design IP portfolio, Cadence is enabling customers to achieve SoC design excellence at advanced nodes.

Cyxtera Selects CareAR to Provide Leading Augmented Reality Data Center Support

14 June 2022

CareAR, a Xerox company, announced that it has been selected by Cyxtera, a global leader in data center colocation and interconnection services, to deliver a smarter data center service experience through CareAR's augmented reality (AR) Service Experience Management (SXM) platform and Cyxtera's Remote Hands with Visual Assist on-site support.

Cyxtera's Remote Hands with Visual Assist provides scheduled or on-demand support for its customer environments within Cyxtera's data centers. CareAR's SXM platform consists of its CareAR® Assist, Instruct and Insight applications that provide real-time visual guidance and self-guided interactive instructions through desktop, mobile, and smart glasses. The combination of Cyxtera Remote Hands with Visual Assist, CareAR and ServiceNow will extend the capabilities of customer support experience with enterprise AR.

Together, the companies are delivering an improved service and customer experience during Remote Hands with Visual Assist engagements, enabling real-time, in session audio/visual and augmented reality communication capabilities between Cyxtera and customers, and driving down the time to complete support requests.

"As we continue to make our data centers easier to consume and deliver reliable infrastructure solutions at the speed of cloud, delivering a new capability to allow our customers to see for themselves the work our team is doing to support their needs is critical," said Thomas Cannady, VP, Network Services at Cyxtera. "We're excited to collaborate with CareAR to deliver an innovative new capability that provides customers visual interactive capabilities in our data centers."

In data center maintenance and deployment interactions, the wearable-powered AR capability will decrease support dispatch requirements and improve time to restoration cycles, increase accuracy of site builds and limit the need to travel for site surveys and deployment initiatives. In the midst of customer builds, Cyxtera can leverage CareAR's platform to provide customers with remote updates through virtual walkthroughs for visual inspection at each milestone in the process.

"We are thrilled Cyxtera has chosen CareAR to help accelerate their service transformation needs. The new world of work requires customer engagements to be digital, visual, and interactive for faster resolution," said Sam Waicberg, President and Co-Founder at CareAR. "Cyxtera shares CareAR's vision for redefining how service and support experiences are delivered, and now Cyxtera data center technicians equipped with AR-enabled smart glasses powered by CareAR's SXM platform, are enabled with hands-free expert interaction and instructions, providing a more productive, superior and differentiated service level experience to their customers."

The solution is launching in a number of Cyxtera's data centers in multiple cities including New York / New Jersey, London, Dallas / Fort Worth, Northern Virginia, Chicago and Silicon Valley.

Eros Investments Partners with Wipro to Scale AI & ML Powered Content Localization Solution for Global Media & Entertainment Industry

16 June 2022

Eros Investments, a leading Global Media, Entertainment & Technology portfolio of ventures - Eros Media World, Eros Now, Xfinite's Mzaalo and others, announced that it has signed an alliance agreement with Wipro Limited, a leading technology services and consulting company, to evolve and scale the Artificial Intelligence (AI) and Machine Learning (ML) based content localization solution.

The solution will automate the time-consuming manual content localization process of subtitling and dubbing with near human-level accuracy, driving significant cost and time savings for global media organizations, post-production, and direct-to-consumer over-the-top (OTT) streaming platforms.

Eros Investments' data science experts, in collaboration with Wipro's technology team, will leverage latter's Vantage solution, an AI/ML-powered content intelligence platform which uses Google Cloud's Translation AI suite of services to develop both 'Speech to Text models' and 'computer-generated voice from Text to speech', including voice cloning, emotion tagging, and speed syncing in various languages. The first phase of automated translation (Subtitling) will be available in multiple languages, including English, French, Spanish, Arabic, Mandarin, Malay, Bahasa, Tamil, Telugu, Hindi, and Bengali. The 'use cases' will be useful in training models to develop the solution in other languages later. Wipro's Vantage helps extract intelligence/metadata from various forms of content, video, audio, images, printed text and more.

Eros Investments and Wipro's joint content localization service will be available to media and entertainment companies in two deployment models: platform-as-a-service and private cloud deployment.

"Organizations across the media and entertainment space are increasingly seeking out solutions that enable language translation with accuracy and at scale," said Victor Morales, Managing Director, Global Systems Integrator Partnerships, Google Cloud. "Wipro and Eros Investments' content localization service, combined with Google Cloud's machine learning capabilities, will provide customers the functionality they need to deliver audiences everywhere exceptional viewing experiences".

"In a world where content is taking precedence and crossing the cultural and language barrier, subtitles and dubbing have become a critical component of the video viewing experience. It is well known that 'good subtitles can't save a bad film, but bad subtitles can ruin a good one,' which is one of the reasons why we are co-investing with Wipro in a robust and automated translation solution. As global content reach grows, accelerated and accurate localization will be key in making premium original and catalog programming available to new global subscribers and audiences," said **S**waneet Singh, Director, Eros Investments.

"With the ability to scale easily based on client needs, our AI translation solution is ideal for media companies looking to expand their global audience footprint. In addition to improving the accuracy of translated content, our offering will reduce the manual effort involved in translation, bringing down costs and time to market significantly. Improving the ability of viewers worldwide to access and enjoy content from other markets will help increase overall global viewing and OTT platform growth and we are very proud to support this effort," said Malay Joshi, Senior Vice President & Sector Head, Communications, Media and Information Tech, Wipro Limited.

Wipro is dedicated to continuing to collaborate with other leading technology firms to develop user-centric cloud solutions that strengthen global ties.

From Product Idea to Approval – The Aras Platform Makes Medical Technology Company Ottobock Faster and More Innovative

14 June 2022

Aras, which provides the most powerful low-code platform with applications to design, build, and operate complex products, announced that Ottobock, specialist for prostheses, orthoses, exoskeletons and wheelchairs, has reached the next level in the digitalization of its research and development (R&D) activities after a successful implementation of the Aras platform. The PLM capabilities of the Aras

platform now provide the medical technology company in Lower Saxony, Germany, with greater innovative power, transparency, speed and – especially critical for medical products –greater safety.

"With Aras, we have found a solution for our R&D activities that perfectly aligns with the high demands of the medical device industry", says Erik Albrecht-Laatsch, Director of Engineering at Ottobock. "Not only does the system architecture and the upgradeability of the platform meet our needs, but we have a strong relationship with the Aras team who led us through the entire project without delay."

PLM project becomes the benchmark for future development processes
In addition to the PLM functionalities developed specifically for medical technology companies, following an agile approach was critical. "If I want to use a PLM system to develop prosthetic legs or hands, then my platform has to measure up to the quality and safety standards required by the industry," says Andreas Mueller, Senior Vice President – Global Alliances at Aras. "With this agile approach, Ottobock could fulfill the requirement that a completely validated (PLM) solution was available at every project milestone."

Erik Albrecht-Laatsch from Ottobock goes one step further: "The PLM project was set up like a medical product development and is therefore also a good example for other development projects. This positive experience will definitely be incorporated into our future development and approval processes."

Learning in detail from previous products and production processes
The Aras platform is now in full operation at Ottobock. "The new possibilities – from document management and information distribution to the traceability of changes – offer significant added value for our development projects", says Ottobock's Director Albrecht-Laatsch. "The topic of traceability in particular means that we can learn in much greater detail from previous products and production processes when it comes to new developments. All of the company's expertise will soon be available to us in a very efficient digital workflow."

Infosys and TK Elevator Announce Strategic Collaboration

9 June 2022

Infosys, a global leader in next-generation digital services and consulting, announced a global strategic collaboration with TK Elevator, one of the world's leading elevator companies based out of Düsseldorf, Germany. The global seven-year collaboration is an extension of the successful modernization of TK Elevator's IT infrastructure in Europe and Africa.

As part of this engagement, Infosys will consolidate and harmonize the global service desk and workplace operations. Infosys will provide AI-powered IT helpdesk services, digital workplace management, as well as network services, powered by Infosys Cobalt-driven automation framework. This will humanize TK Elevator's workplace experience by building a resilient enterprise and digitally transforming their underlying IT infrastructure. Infosys will aim to boost cybersecurity and enhance digital experience for TK Elevator's end users, by leveraging its deep domain expertise, industry-grade IT infrastructure modernization capabilities, and a strong global presence. The collaboration, while improving availability of IT infrastructure, will reduce overall IT operational costs.

"At TK Elevator, IT infrastructure is the core of our digital initiatives and we continuously strive to provide state-of-the-art user services. With Infosys as a strategic partner, we are confident to achieve our target of automation, innovation and efficiency across the IT landscape," said, **Susan Poon, Global CIO at TK Elevator**.

"Infosys will provide our business with high-performance IT services and enhanced user experience for our employees worldwide. Leveraging artificial intelligence and automation will not only make our IT

more customer-centric, but will also help improve our customer experience at reduced cost," added **John Hemming, Head of Infrastructure at TK Elevator**.

Commenting on the collaboration, **Jasmeet Singh, Executive Vice President & Global Head, Manufacturing, Infosys**, said, "Enterprises globally are repeatedly choosing cloud-based modernization solutions to enable their digital journeys, rendering their businesses more resilient. We are excited to collaborate with TK Elevator to enable their digital transformation. As we work towards establishing an engagement based on mutual trust and creating a value ecosystem, Infosys' best-in-class solutions in LAN, digital workplace, cybersecurity and infra, powered by AI and hybrid cloud, will drive operational excellence for TK Elevator globally. We look forward to continuing this collaboration in the future."

JOSEPH Embraces Centric PLM™ for Luxury Collection Development

13 June 2022

JOSEPH 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.

Maison JOSEPH was founded in 1966. From its headquarters in London and creative studio in Paris, JOSEPH is constantly reinventing itself. "Our company is evolving. We need a tool to accelerate our growth and support our development strategy," explains Fabien Renault, Managing Director of JOSEPH France. "Our current tools are archaic; Excel documents, PDF files, photos… We need to centralize all this information in a single online tool to save time."

JOSEPH embarked on a thorough review of the various PLM solutions on the market. After several months of research, two providers stood out, but Centric Software's impressive product demonstrations made the difference. The ergonomics of the solution and the ability to adapt processes to JOSEPH's specific needs won the company over. JOSEPH also knew they can count on the active support of the Centric team at each step of the implementation process. Finally, the interoperability between Centric PLM and JOSEPH's ERP solution to place and track orders won out.

Fabien Renault was also persuaded by the excellent reputation of Centric. "The testimonies of many prestigious luxury houses, similar to ours, as well as Centric's excellent customer retention rate, reinforced our decision."

JOSEPH looks forward to significant time-savings with Centric PLM. "To best meet our customers' expectations, we need to make more and more capsule collections and increase the size of these collections in certain product categories without having to call on new resources," concludes Fabien Renault.

"JOSEPH is synonymous with creativity and elegance. We are proud to partner with JOSEPH in the acceleration of their development strategy," comments Chris Groves, President and CEO of Centric Software. "With Centric PLM, JOSEPH will be able to offer their customers a vast collection of exceptional products in a short time frame."

Kaleida Health Partners with Infor to Improve Enterprise Outcomes

14 June 2022

Infor, the industry cloud company, announced that Kaleida Health, the largest healthcare provider in Western New York, serving the area's eight counties, has selected Infor to assist in consolidating

multiple organizations under one single enterprise and move its critical financial and supply chain applications to the cloud to create a more reliable, scalable technology platform. Infor's cloud solutions specific for healthcare run on Amazon Web Services (AWS), and will help Kaleida Health remove workflow silos, gain efficiencies across departments, and improve knowledge sharing organization-wide after many successful mergers over the years resulted in disparate technology platforms.

An Infor customer for almost 25 years, Kaleida Health decided to upgrade its entire health system to the cloud to replace aging technology and create a scalable system that would provide one source of truth, more tools for the modern workforce, and help the organization focus less on administrative burdens and more on the communities it serves. By creating one integrated enterprise platform, Infor will provide Kaleida with the ability to integrate with its clinical systems and partners in a more intuitive, seamless and organized way that can only be achieved with modern cloud-based software. This will help its teams become more efficient, have better control of costs, make decisions faster, and contribute to better patient outcomes.

"Our organization has grown significantly over the years, which brought with it multiple technology platforms, and we knew it would soon become costly and unreliable to maintain these platforms as supply chains become increasingly more complex and workforce needs become more sophisticated," said Tom Hull, CIO of Kaleida Health. "We decided to partner with Infor to upgrade processes to the cloud to increase agility, improve the ability to quickly scale if necessary, increase efficiency, provide more tools for employees and providers, and ultimately support our patients better."

The new integrated platform will provide Kaleida Health with deep visibility into its supply chain, so users can know exactly where inventory and supplies are in real time, through a single platform, and include the right resources to engage clinicians, optimize inventory systems, improve product recall audits and deliver a cost-effective pharmacy. In addition, staff will be able to add more reliable information into a centralized supply chain and financial system, providing them with a single, dependable source of information.

"Infor's modern cloud-based solutions help leading healthcare organizations, such as Kaleida Health, manage vital resources, including people, supplies, and financials, to better align the clinical side to the business side," said Matt Breslin, Infor executive vice president. "In such a complex industry, where the numbers of mergers and acquisitions continue to increase, it's important that technology be leveraged to modernize and link operational systems to confidently empower business decisions from one source of truth."

Megafrio Food Distributor Improves Stock Visibility with Infor CloudSuite WMS

15 June 2022

Infor, the industry cloud company, announced that Megafrio, a food distribution company in Chile, is gaining benefits with Infor WMS for warehouse management. The solution was sold and implemented by Cerca Technology, an Infor channel partner in Latin America.

Megafrio selected Infor WMS to help meet needs and achieve goals, including sustain business growth, increase service to customers, reduce operative costs and maximize capacity of distribution centers. Most relevant challenges are related to the reorganization of operation processes and information management for the company and its customers. All of these were done without interrupting customers´ operations.

Many operations take place at Megafrio's distribution centers, and the company has achieved superior product tracking and process agility with the implementation of the Infor solution. Change management

was important, and it was achieved through the quick learning process of the team and the ease of use of the new platform.

"Since the project started, we have had a close relationship with Cerca Technology. Their excellent recommendations, both functional and regarding development, enabled us to benefit from Infor WMS functionalities and to personalize the solution to fit our needs," states Makarena Guardia, Megafrío project implementation manager.

Megafrio is the second distribution operator of the Group Magacentro that implemented Infor WMS. The current implementation is at Pedro Jorquera Distribution Center in Pudahuel, Chile.

"Partners such as Infor and Cerca Technology have enabled us not only to improve our processes but are a great support for our customers and provide reliability to sign new contracts," says Andres Schmidt, Megafrío's Pedro Jorquera distribution center manager.

The ongoing project is ambitious and includes a great number of customers and distribution centers, but Megafrío has already seen benefits. From the very beginning during trainings, roles were clearly defined of who would be directly involved in managing the solution. This was key for the success of the process.

"Our relationship with Cerca Technology generates lots of trust, as the project team has been with us since the beginning, so they know our business well, and our challenges," adds Makarena Guardia, Megafrío project implementation manager.

The distribution centers involved in the operation are already showing successful results:

- Productivity increase in picking process: more than 5%
- Productivity increase in product reception: more than 50%
- Better inventory accuracy: more than 5%
- More inventory visibility: 30%
- Better customer satisfaction: 5%
- Better decision making: 10%
- Improvement of administrative processes: 40%
- Automatization of key processes such as reception and storage, consolidations, restoration, selection tasks, inventory accuracy.

"The volume and diversity of Megafrio's customers require a flexible technological platform. Infor CloudSuite WMS allows the company to manage a variety of operational requirements, and it simplifies that management," notes Wilson Ortiz, Cerca Technology professional services manager. "Infor CloudSuite WMS' functionalities, along with the highly professional team assigned to the project and process standardization, have helped Megafrio reach its goals."

"Infor WMS is specifically developed for the distribution sector and combines all necessary functionalities in one synchronized solution. This offers companies such as Megafrio end-to-end operational visibility in the supply chain, enabling them to anticipate changes, be prepared for disruptions and reduce risks when necessary," adds Adriana Gutierrez, Infor Latam channel director.

Polish furniture company Nowy Styl upgrades to IFS Cloud to drive dynamic growth

13 June 2022

IFS, the global cloud enterprise software company, announced that Nowy Styl, a European leader in comprehensive furniture solutions for office and public spaces, has chosen to upgrade its existing ERP

software to the latest IFS Cloud™ solution to drive ongoing international growth.

Nowy Styl chose to upgrade to IFS Cloud because of the solution's flexibility and ability to support its dynamic growth and deliver operational efficiencies. IFS Cloud enables the company to add new capabilities incrementally as and when needed, including tools for advanced automation and the latest AI-driven technologies. The solution will help facilitate a wide range of Nowy Styl's business processes including finance; distribution; manufacturing and supply chain as well as customer service processes and reporting and operational activities.

Following the implementation of IFS Cloud, Nowy Styl's initial focus will be on driving efficiencies across its manufacturing scheduling work. The solution will also help with supporting the automation of its manufacturing execution system (MES) to help transfer information quickly to the shop floor. The company is additionally assessing IFS Cloud's CRM capability with a view to taking on this added functionality in the future.

Looking ahead, Nowy Styl also plans to use IFS Cloud to optimize and automate its shipping processes, in addition to further enhancing production scheduling.

Mariusz Sobocinski, IT & Business Analyst Director at Nowy Styl, says: "Soon football fans from all over the world will discover the high quality of Nowy Styl products. We have become experts in arranging auditorium spaces and have reached the championship level! We are proud that we will be installing Nowy Styl chairs at the six stadiums that are being built for the FIFA World Cup Qatar 2022. This achievement shows Nowy Styl's rapid growth path – and requirement to implement additional IFS Cloud modules to meet our supply chain and production requirements. The solution's flexible component architecture helps to facilitate this. Nowy Styl also sees IFS Cloud as a future-proofed solution, helping to prepare it for the coming world of advanced automation and artificial intelligence (AI)."

While Nowy Styl is self-sufficient in its use of IFS solutions, it does turn to IFS for assistance on a time and materials basis, when required. However, the recent signing of a service agreement between the two companies means that they are likely to work together in partnership more closely moving forwards.

Nowy Styl and IFS also share the values of sustainable development. Both companies encourage their Partners and Suppliers to take responsibility for their actions in this area. In 2022 Nowy Styl was awarded with prestige EcoVadis platinum medal.

Marek Glazowski, managing director, Poland and CEE, IFS, says: "Nowy Styl is an ambitious company focused on fast-growth with a willingness to innovate and adopt modern technologies to achieve their strategic goals. It is excellent news that they have chosen IFS Cloud to help them move forward on their journey to success. We are looking forward to collaborating with them to help ensure their strategic goals are realized."

IFS is well placed to continue to support Nowy Styl's dynamic growth. Whenever Nowy Styl brings a new entity into the organization, the company integrates the entity's digital systems. And, to achieve synergy, it introduces proven IFS solutions that have already been developed and deployed elsewhere in the organization.

Swedish cloud service provider, Datarewind, boosts hybrid office productivity with HPE cloud-native storage and enhanced compute capacities

14 June 2022

Hewlett Packard Enterprise announced that Datarewind, a Swedish IT service provider, has selected HPE Alletra cloud-native data infrastructure and high-performing, versatile HPE ProLiant servers to host virtual machines on behalf of its clients. The new compute and data services solution allows Datarewind to offer higher performance and quicker access to the work environment for its clients, meeting the hybrid office demands of today while providing a strong foundation to easily adapt to future requirements.

Datarewind offers its services to clients across Sweden, allowing users to run VDI solutions during work hours and automate backup during the night. Due to the pandemic, demand for VDI solutions increased, and HPE Alletra was chosen to meet these increased demands thanks to its performance, scalability – and HPE's existing track record as a supplier to Datarewind.

"The timing was right for an upgrade, with the added remote work demands that the pandemic created," says Rickard Johansson, CEO of Datarewind. "We can now support about 100 concurrent customers working with graphically intense workloads from home. The new solution also enabled clients to run storage-heavy workloads, where HPE Alletra alleviated bottlenecks."

With Datarewind also securing their clients' data by way of backups, performance was of utmost importance in the choice of solution, as was modularity. With storage performance high enough to be limited by network bandwidth rather than storage throughput, the possibility to expand the storage pool was kept in mind when signing the deal.

"We were able to go from 10 on-site servers to two or three larger centralized ones. Both storage and automated tasks are running flawlessly. Tasks that previously took 40 minutes to execute now take five minutes," says Johansson. "The future includes working from home, which Datarewind's solutions are prepared for. Clients don't require as many offices and can consolidate their workforce."

HPE Sweden is also delighted to help Datarewind serve its clients better. The new HPE Alletra platform in use will allow Datarewind meet client SLAs and host more concurrent users than ever before. It also alleviates worries regarding VDI performance and minimizes downtime.

HPE Alletra is the cloud-native data infrastructure that powers data from edge-to-cloud. It features a portfolio of workload-optimized systems to deliver architectural flexibility to run any application without compromise.

"The HPE Alletra solution has enabled Datarewind to develop its new cloud offering and position itself better on the service provider market, with superior performance, high availability and scalability" comments Toni Drk Channel and Service Provider Sales Manager, HPE Sweden. "The HPE Alletra 6000 cloud native storage technology allows them to create a strong and attractive as-a-service offering for their clients."

With the new solution in place, client satisfaction at Datarewind is reportedly at an all-time high. "The best part is when clients contact us about how happy they are with the new solution," concludes Rickard Johansson.

Taeknizon selects HPE GreenLake to expand their fully managed cloud offering in the UAE

14 June 2022

Hewlett Packard Enterprise announced that Taeknizon, a private cloud service provider focused on Asia and the Middle East, has selected the HPE GreenLake edge-to-cloud platform to further expand its operations in the UAE. This partnership with HPE will enable Taeknizon to meet growing demand from end customers and elastically scale up services in line with demand.

Headquartered in Singapore, service provider Taeknizon is seeking to expand their regional availability in the fast-growing Middle East market. With this expansion, Taeknizon's mission is to become a specialized provider in a range of technology services, including multi-cloud solutions, data management, data security, Internet of Things (IoT), Artificial Intelligence (AI), Robotics, cyber security, and colocation services across Middle East.

Taeknizon is further expanding its operations with these new services with a reduced upfront capital investment and with additional scale-up capacity, which gives them the agility and flexibility to improve ROI by aligning infrastructure spend with end-customer demand. Taeknizon chose the HPE GreenLake edge-to-cloud platform as the foundation for their new services in the UAE, allowing them to monitor infrastructure usage with real-time consumption analytics and a reduced time to market for additional services, as the HPE GreenLake platform comes with 40% additional buffer capacity.

"We are pleased to be working with Hewlett Packard Enterprise, giving our customers state-of-the-art solutions and a powerful platform to achieve their digital transformation aspirations through the HPE GreenLake edge-to-cloud platform," said Anithan Chandran, chief executive officer of Taeknizon Middle East Information Technology. "Partnerships like this offer a great value which will contribute to the realization of UAE's Digital Government Strategy 2025."

"Today, 94% of all companies operating in the UAE are SME's. We at HPE are committed to foster innovation and local entrepreneurship, and Taeknizon's as a service model caters to the requirements of SME's and aligns with our vision to empowering youth and the local start-up community," said Ahmad AlKhallafi, managing director, UAE, Hewlett Packard Enterprise. "We are proud to extend the HPE GreenLake global partner ecosystem with Taeknizon and enable them to grow their business with full financial flexibility and predictability from the widest portfolio of on-premises cloud services that will allow them to meet customer demand. This partnership will further fuel local entrepreneurs with latest technologies to accelerate their business and contribute towards the growth of the UAE's economy."

Taeknizon is working on this HPE GreenLake engagement with Logicom Distribution, a key HPE Distribution Partner, and a leading regional distributor of technology solutions and services covering a wide area in Europe, Middle East and North Africa.

Touchplan and Penobscot General Contractors Form Enterprise Relationship

8 June 2022

Touchplan, an award-winning collaborative construction planning software platform that helps make construction project outcomes more predictable and profitable, and Penobscot General Contractors announced that they have entered into a twenty-four month, enterprise-wide agreement.

The agreement provides the Maine-based construction firm and their selected subcontractor partners unlimited use of Touchplan's intuitive daily planning software on all construction projects. Along with collaboration capabilities that link the master schedule to the daily plan anywhere and anytime,

Touchplan will provide unique jobsite data and analytics across all Penobscot projects. Touchplan will increase overall project efficiency for the Falmouth construction services firm through its planning software platform and API capabilities.

Founded in 1970, Penobscot General Contractors performs various projects for municipal, educational, commercial, governmental, and healthcare clients.

The company takes great pride in being a part of a team of professionals delivering projects which will be part of Maine's communities for generations to come.

"Penobscot is committed to moving our company forward and investing in our team and new technologies that will improve project certainty and position us for long-term success," said Jonathan DiCentes, Co-President of Penobscot General Contractors. "Using Touchplan across all of our projects will improve and standardize our planning process and allow us to collaborate better with our trade partners, which will allow us to deliver projects on time and under budget."

Touchplan's innovative daily project planning and analytics platform is trusted by more than 50,000 design and construction professionals worldwide. More than 4,000 project teams have used Touchplan successfully to optimize the delivery of more than $55.4 billion in construction.

"Planning on Touchplan reduces delays, improves jobsite safety and operational efficiency, allowing our clients to have more predictable and profitable projects while also producing data that can be used within our system or exported to other systems for more in-depth operational analysis," said Jimmy Suppelsa, Chief Revenue Officer for Touchplan. "We are thrilled to begin a new partnership with Penobscot as they continue to enhance their construction operations."

Trimble Announces New Deployment of Applanix's POS LV to Enable Broader Autonomy Capabilities for IHI Corporation

15 June 2022

Trimble announced the first deployment of its map-based localization system for land-based autonomous vehicle applications. IHICorporation, a heavy industry manufacturer based in Japan, will retrofit its existing container and haulage trucks with a customized Applanix POS LV® system as part of its broader autonomy capabilities for the transport of goods around industrial facilities.

Map-based localization provides precise positioning and orientation estimation, augmenting GNSS/inertial data, which is critical for safe and efficient autonomous vehicle operations. The ability to provide IHI Corporation a full workflow and real-time data ensures seamless integration into IHI's truck design.

The custom-built, locally supported system leverages Trimble's innovative engineering capabilities and technology to provide reliable performance across a variety of challenging environments. Using this system, IHI Corporation can provider obust positioning for their autonomous fleet without additional site infrastructure, lowering capital expenditure (CAPEX) costs and improving scalability.

Tailoring POS LV to work within IHI's unique specifications and existing autonomous platform, the map-based localization system couples an inertial navigation system (INS) with simultaneous localization and mapping-based (SLAM) capabilities, and works with several types of sensors, including LiDAR for IHI. POS LV provides an accurate base map using post-processed data and localizes vehicle positioning in real-time, enabling the reliable and safe autonomous operation of industrial vehicles.

IHI continually enhances its work environments, while also compensating for varying labor scenarios and personnel shortages. This makes the need to automate transportation critical to operations. The

complexities of the evolving industrial manufacturing environment require solutions that can be tailored to a customer's specific application requirements. By partnering with Trimble, IHI can develop a retrofit system that addresses two major challenges—affordability and consistent reliability—within the autonomous operation of large-scale industrial equipment. Customers such as IHI rely on Trimble to create autonomous solutions that enable them to meet their strategic goals no matter where they are on their journey to autonomy.

UPSCALE PROJECT, THE H2020 PROJECT APPLYING AI TO ELECTRIC CAR SIMULATION, COMES TO AN END

15 June 2022

The UPSCALE project received EUR 4 million from the Horizon 2020 programme (grant agreement no. 824306) with the aim of improving electric vehicle development and increasing performance.

The consortium has been working for the past four years on the application of artificial intelligence methods to reduce development time and increase the performance of electric vehicles required by the automotive industry to reduce global emission levels.

Barcelona, 30 April 2022. The UPSCALE Project (Upscaling Product development Simulation Capabilities exploiting Artificial intelligence for Electrified vehicles) was born, under the framework of Horizon 2020 (grant agreement no. 824306), with the aim of replacing the most expensive automotive simulation cases with data-driven computational methods. To this end, the most difficult simulation load cases were identified, and alternative methodologies based on machine learning techniques were designed and fully implemented.

The project has been developed by a consortium of 11 European companies and organisations from the automotive, software, engineering and research sectors.

The consortium is led by the Spanish company Applus+ IDIADA (Spain) and among the entities that form part of this consortium are Algorithmica Technologies GmbH (Germany), Centro Ricerche Fiat SCPA (Italy), École Nationale Supérieure d'arts et métiers (France), ENGYS Ltd (UK), ESI Group (France), FI Group (Spain), Kompetenzzentrum- Das Virtuelle Fahrzeug Forschungsgesellschaft mbH (Austria), Volkswagen AG (Germany), Volvo Personvagnar AB (Sweden) y Vrije Universiteit Brussel (Belgium).

Four years of project:

Since 2018, UPSCALE has sought to reduce the time it takes to develop electric vehicles, as well as in increasing specific performance. Enric Aramburu, Fluid Engineering Product Manager at Applus+ IDIADA, leader of the project, explains that "the UPSCALE project will save 20% in the development period of electric vehicles by using artificial intelligence and machine learning applied to simulation in crash, aerodynamic and battery tests".

He adds that "UPSCALE has developed machine learning tools to replace finite element stacks with reduced order models for structural calculation, as well as for short-cut risk calculation, and full wind tunnel simulations using aerodynamic ROMS that provide the aerodynamic forces and airflow around the vehicle in real time."

The European Union, with the funding to the UPSCALE project through the Horizon 2020 programme, seeks to foster the electric vehicle industry in Europe and at the same time, promote compliance with new laws and pollutant emission standards in the region. "This is something that the European Union

has been promoting a lot in recent years, it aims to be a climate neutral continent by 2050, so this type of project is essential to pursue that goal," says Cristina Nappi, Senior European Consultant at FI Group.

Results:

In these four years, the UPSCALE project has demonstrated the feasibility of replacing FEM and CFD solutions with ML algorithms through a successful proof of concept and paves the way for further deployment of AI in vehicle development programmes.

Product News

BETA CAE Systems announces the release of the v22.1.3 of its software suite

15 June 2022

About this release

BETA CAE Systems announces the release of v22.1.3. The deployment of v22.1.3 will maximize the performance and enhance the daily practices of those who already enjoy the benefits of the previous releases of this version, but especially of those who have not yet migrated to v22.x.

Known issues resolved in ANSA

CAD Import/ Export

CAD to ANSA parallel translation would not release translation credits upon translation completion.

Multi-instantiated parts with different CAD references would be erroneously positioned and potentially existing double dollars '$ $' in the filename would be erroneously translated into single dollar '$'.

Furthermore, regarding Product Tree Editor and especially CAD to ANSA functionality, the Vismockup plmxml parser has been enhanced to read the Part Names from ProductInstance, when no ProductRevisionView is defined.

GUI

The pull-down menus of some Module Buttons might not be visible when placed in a custom menu if the GUI Settings *.xml file has been created before v22.0.0.

Moreover, when double-clicking on User Attributes Lists in Settings, unexpected termination would occur.

Data Management

Referring to DM Cluster functionality, when executing "Send to DM" process more than once, despite the successfull transfer between the source and the local DM, ANSA would erroneously cease the "Send to DM" process due to Source and Target DM incompatibility.

The number of displayed results under base.OpenDMObjectsInNewTab() would be falsely limited to 1000.

Modular Run Management

ANSA would unexpectedly terminate upon displaying the "Interface Node->MBContainer" column in the INTERFACE POINTS list in Database Browser.

Connections & Assembly

Projection Method on RBE3 – HEXA – RBE3 would result in misplaced RBE3s, when the connectivity entries of Adhesive Lines were on the same Part.

Shell Mesh

Running the script function mesh.ReconstructShells() would occasionally lead to unexpected termination, due to corrupted tria shells with common nodes in wrong positions.

DECKs

Occasionally, when opening (via File > Input) large files of whole vehicle models containing approx. 5 to 10 million elements and 500 to1000 MB in size, the Database Browser update would require more time than expected.

Report

In Deck Report and Deck Info, requesting "Batch mesh statistics" for multiple scenarios, would fail.

For LS-DYNA models, scaled mass would be erroneously calculated, in case MAREA mass existed in the model.

Moreover, in Radioss, TOTAL MASS would be erroneously calculated after a Subsystems DM> Change Representation of Lumped Mass.

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

Known issues resolved in META

General

META would unexpectedly terminate, when launcher.txt file had a reference to an *.xml file that didn't exist.

Read Results

When reading LS-DYNA results, the Integration Points order for tetrahedron elements and the mean pressure result would not be read properly.

Also, Radioss USER VAR 5 results were occasionally not read correctly.

Managing Curve Data

Curves of AnimatorDB couldn't be plotted, when an Animator database was read like a common 2d-time history file.

NVH Calculators

The numerical accuracy for transient response analysis has been improved for cases where rigid body modes contribute to the response.

Report

Adding an *.xlsm file in the Report Composer would produce an error, when saving the report as a *.pptx file.

File Export

Unexpected termination could occur while generating preview of the exported CSV Results file.

CompositePost Toolbar

The execution of Plot results 2D vs. Thickness command would lead to unexpected termination, when unavailable results were requested under Plot results 2D > Options. To overcome this, a check has been added and unavailable results are now skipped.

For more details about the new software features, enhancements and corrections please, refer to the

Release Notes document.

New Documentation in KOMVOS

Best Practices

- Machine Learning in feature detection – Embedded clips handling

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

Compatibility and Supported Platforms

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

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

Support for Mac OS has been discontinued.

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

Bornemann Gewindetechnik introduces innovative product configurator for lead screws

14 June 2022

Configuration simplifies planning and manufacturing process of custom threads

Bornemann Gewindetechnik GmbH manufactures customized threaded spindles entirely according to the specific requirements. Bornemann has introduced a new product configurator based on CADENAS technology to support customers in selecting the most suitable threads. The new tool enables engineers and planners to download the thread as 3D CAD model in over 150 native and neutral CAD formats for free and whenever they like. "We chose CADENAS' eCATALOGsolutions technology because it is a customized solution that can be adapted very easily and flexibly to our specific business requirements," said Sergii Goman, Sales Manager at Bornemann Gewindetechnik GmbH. "CADENAS also offers us access to millions of engineers worldwide with 3Dfindit.com and PARTcommunity portals, where our configurator is featured."

Simple selection process despite highly complex products

The new product configurator is integrated directly into the Bornemann website and allows users to select all feasible combinations of Bornemann's thread technology thanks to the underlying rules and regulations. Users are navigated to the required component across several levels through a simple configuration process. Characteristics such as diameter, thread depths, pins, volume, radius and angle of the respective thread profiles can be determined. The always up-to-date 2D & 3D preview including dimensions enables a quick visual check of the entered parameters. "Our new product configurator eliminates many errors in the early planning phase, saving both our customers and our own customer consultants valuable time," says Moritz von Soden, Managing Director of Bornemann Gewindetechnik GmbH.

Interactive product preview and shortened drawing view for more planning security

After selecting the thread combination, users can download the product information as intelligent 3D CAD models or as 3D PDF data sheets, as well as the respective drawing information of the configured component. These also support production at Bornemann: "Using the drawing data from the product

configurator, we can produce exactly the custom thread that the customer put together based on their requirements," says Karsten Koch, AV Manager at Bornemann Gewindetechnik GmbH. "A very important feature here is the ability to break the drawing view, which highlights details of the end machining of the spindle. One focus of our production is on large threaded spindles for applications in lifting technology and steel hydraulic engineering, which are subjected to high loads. If these large threads were shown in their full length in the drawing view, details would no longer be visible."

The new product configurator also helps out the purchasing department: By providing customs tariff numbers as well as the possibility to directly request the price or quotation, the ordering process and other commercial processes are significantly simplified. "Bornemann Gewindetechnik takes an important step towards more customer service with our product configurator," says Silvio Heinemann, project manager at CADENAS Solutions GmbH. "The implementation of the project was a challenge due to the complexity of the thread profiles, which we mastered together thanks to very effective teamwork."

Cadence Digital and Custom/Analog Design Flows Certified by TSMC for Latest N3E and N4P Processes

13 June 2022

Cadence Design Systems, Inc. announced that its digital and custom/analog design flows have been certified for the TSMC N3E and N4P processes, supporting the latest Design Rule Manual (DRM). In addition, Cadence and TSMC delivered N3E and N4P process design kits (PDKs) and design flows to accelerate customer adoption and advance mobile, AI and hyperscale computing design innovation. Joint customers are actively designing with the new N3E and N4P PDKs, and several test chips have already been taped out, which demonstrates how Cadence solutions help customers improve engineering efficiency and maximize the power, performance and area (PPA) benefits offered by the latest TSMC process technologies.

The Cadence digital and custom/analog advanced-node solutions support the company's Intelligent System Design™ strategy, enabling system-on-chip (SoC) design excellence.

N3E and N4P Digital Full-Flow Certification

Cadence worked closely with TSMC to ensure the digital full flow was optimized for TSMC's advanced N3E and N4P process technologies. The complete RTL-to-GDS flow includes the Cadence Innovus™ Implementation System, Quantus™ Extraction Solution, QuantusField Solver, Tempus™ Timing Signoff Solution and ECO option, Pegasus™ Verification System, Liberate™ Characterization Solution and Voltus™ IC Power Integrity Solution. Additionally, the Cadence Genus™ Synthesis Solution and predictive iSpatial technology are enabled for the TSMC N3E and N4P process technologies.

The digital full flow offers several key capabilities that support the TSMC N3E and N4P process technologies, including the correlation between implementation and signoff results; enhanced via pillar support; efficient handling of large standard cell libraries containing many multi-height, voltage threshold (VT) and drive strength cells; low voltage cell characterization and certified signoff timing accuracy; and certified extraction accuracy with the Quantus Extraction Solution and Quantus Field Solver.

N3E and N4P Custom/Analog Flow Certification

The Cadence Virtuoso® Design Platform, which includes the Virtuoso Schematic Editor, Virtuoso ADE Product Suite and Virtuoso Layout Suite EXL, the Spectre® Simulation Platform, which includes

Spectre X Simulator, Spectre Accelerated Parallel Simulator (APS), Spectre eXtensive Partitioning Simulator (XPS) and the Spectre RF Option, as well as the Virtuoso Application Library Environment and Voltus-Fi Custom Power Integrity Solution have achieved the latest TSMC N3E and N4P certifications. One unique capability that the Virtuoso Design Platform offers is tight integration with the Innovus Implementation System, which enhances the implementation methodology of mixed-signal designs using a common database. The Virtuoso Schematic Editor's migration module in the Virtuoso Application Library Environment has been integrated and verified by TSMC.

The Virtuoso Schematic Editor, the Virtuoso ADE Suite and the integrated Spectre X Simulator have been optimized for the custom design reference flow (CDRF) for managing corner simulations, statistical analyses, design centering and circuit optimization. Furthermore, the CDRF's Virtuoso Layout Suite EXL has been enhanced for efficient layout implementation, which provides customers with several features, including a unique row-based implementation methodology with interactive, assisted features for placement, routing, fill and dummy insertion; enhanced analog migration and layout reuse functionality; integrated parasitic extraction and EM-IR checks and integrated physical verification capabilities.

"Through our latest collaboration with Cadence, we're making it easy for customers to benefit from the significant power and performance boosts of our latest N3E and N4P process technologies to drive design innovation forward," said Suk Lee, vice president of the Design Infrastructure Management Division at TSMC. "Our customers have to develop designs at an exceptionally rapid pace to keep up with market demands, and the design flows' certification gives customers confidence that they can use our technologies to achieve design goals and get to market faster."

"Our digital and custom/analog flows are packed with features that enable our customers to achieve optimal PPA while improving engineering productivity when creating N3E and N4P designs," said Dr. Chin-Chi Teng, senior vice president and general manager in the Digital & Signoff Group at Cadence. "By working closely with TSMC, we're helping customers achieve SoC design excellence across a variety of market segments such as mobile, AI and hyperscale, and we're looking forward to seeing many successful advanced-node innovations."

Computer Guidance Corporation Successfully Passes SOC 1 Type II and SOC 2 Type II Audits For Its Cloud Hosting Systems, Services, and Associated Processes

14 June 2022

Computer Guidance Corporation, the leading developer of cloud-based ERP solutions for the construction industry, announced receipt of its annual System and Organization Control (SOC) SOC 1 Type II and SOC 2 Type II attestation engagement reports for the eCMS Hosting Service system that was designed and implemented throughout the period January 1, 2021 to December 31, 2021.

The trust services reports provide independent validation that Computer Guidance Corporation's security, availability, and confidentiality controls operated in accordance with the American Institute of Certified Public Accountant (AICPA) applicable Trust Services Criteria (TSC) as a result of an examination of the description of a service organization's system and the suitability of the design and operating effectiveness of controls involving a number of factors such as security, availability, and confidentiality outlined in the audit report.

The audits reviewed several processes and procedures that have been implemented by Computer Guidance to proactively manage the cloud environments that host the eCMS system, associated Tier III data centers, including:

- eCMS Hosting Services System based on the criteria set by the AICPA Guide Reporting on Controls at a Service Organization Relevant to Security, Availability, Processing Integrity, Confidentiality, or Privacy (SOC 2®)
- The suitability of the design and operating effectiveness of controls to meet the criteria for the Security, Availability, and Confidentiality Trust Principles set forth in TSP section 100, Trust Services Criteria, and Illustrations for Security, Availability, Processing Integrity, Confidentiality, and Privacy (AICPA, Technical Practice Aids) throughout the period.

"Computer Guidance Corporation's commitment to strong internal controls supporting its service commitments and system requirements in regard to their cloud-based hosted system solutions and services is evident in this report," stated Mark Eich, Partner In Charge of Information Security Services, CliftonLarsonAllen, LLP. "Computer Guidance Corporation's successful completion of both SOC I and SOC II audits demonstrates its integrity, accountability, and commitment to its clients, partners and industry. Computer Guidance customers can be confident that controls described within the report are accurately depicted and were operating as represented during these engagement periods."

"The successful completion of our SOC 1 Type II and SOC 2 Type II examination audits provides Computer Guidance's clients with the assurance that the controls and safeguards we employ to protect and secure their data, systems and cloud hosting environments are in line with industry standards and best practices and that we are committed to and making every investment to establish and maintain the most stringent controls needed to ensure the highest level of security and compliance," stated Bob Shantz, Director of Infrastructure and Cloud Services, Computer Guidance Corporation.

Informatica Launches New Enterprise Data Integrator as Native Application in Snowflake Marketplace

14 June 2022

Informatica, an enterprise cloud data management leader, announced an expanded partnership with Snowflake, the Data Cloud company, and new product innovations to drive increased value for joint customers. With the new Informatica Enterprise Data Integrator, a native application in Snowflake Marketplace currently in development, customers will be able to use the power of the Intelligent Data Management Cloud (IDMC) Platform to integrate a wide range of enterprise application data in the Snowflake Data Cloud.

As an Accelerated Program partner for the Snowflake Native Application Framework, currently in private preview, Informatica announced that the Informatica Enterprise Data Integrator will be available natively on Snowflake Marketplace. This new application will enable Snowflake customers to leverage enterprise data source integrations for applications including Google, Microsoft, Oracle, Salesforce, and SAP that are offered through the IDMC platform directly from their existing Snowflake accounts. In addition, joint customers will be able to purchase the Informatica Enterprise Data Integrator from Snowflake Marketplace, making it easier to rapidly acquire and use it to accelerate time-to-value for end users.

"Snowflake and Informatica's partnership is reimagining what's possible with data, helping joint customers fully achieve their missions by mobilizing their data, while preserving governance," said Christian Kleinerman, SVP Product, Snowflake. "With Informatica as one of our Accelerated Program partners for the Snowflake Native Application Framework, we can deliver deeper product integrations and continued value for joint customers across the Data Cloud."

"Informatica and Snowflake give us the ability to develop reusable data assets that will allow us to

create patient care reports and dashboards faster, and with better performance, consistency and accuracy." Said Alexander Izaguirre, PhD, Chief Data Officer, NYC Health + Hospitals.

Informatica has also launched a no-cost data loader for Snowflake through Snowflake Partner Connect, making it easier for joint customers to get started with the Snowflake Data Cloud. Additionally, Informatica unveiled new Snowflake-specific data governance features in Informatica's Cloud Data Governance and Catalog (CDGC) service, currently in private preview, as a part of the IDMC to offer a unified view of governance across the enterprise.

The new Informatica data loader for Snowflake is a no cost, zero-code, zero-devops, zero infrastructure required cloud data management SaaS offering that will help departmental users across the organization to move from data to insights in minutes, as opposed to weeks. It is available now through Snowflake Partner Connect and directly from the Informatica Marketplace at no- cost. When accessed through Snowflake Partner Connect, users can benefit from a streamlined registration process, with the data loader being pre-configured to rapidly load data from multiple sources into customers' existing Snowflake instances.

Following the recent announcement of deeper product collaboration for data governance between Snowflake and Informatica, Informatica is announcing new governance features, currently available in private preview, as part of Informatica's CDGC service. CDGC offers a single pane of glass view into governance, allowing users to understand and manage data in the Snowflake Data Cloud, to strengthen operational data governance controls, and leverage the power of Snowflake's existing security and governance capabilities.

- **Policy management for cohesive data governance :** New policy management integrations enable non-technical data governance professionals to not only manage their data use policies in CDGC, but also their operational governance policies such as row-level access control and data masking policies in Snowflake from the CDGC user experience. The result is an easy to use, full range of governance policies and controls experience, providing the delivery of trusted and protected data at scale.
- **Reduce complexity with Object Tags :** Tags are a critical part of classifying data to provide data access controls, data protection, data discovery, and data access. The new Object Tags integrations ensure that tags, whether defined in Snowflake or CDGC, can be easily rationalized to avoid tagging silos and fragmented data governance taxonomies. The result is one common set of tags across the enterprise.
- **End-to-end lineage for transparency and trust :** Informatica provides industry-leading, column-level lineage, which has been extended with additional context from the Snowflake Data Cloud. Now available to all customers, it includes sensitive data lineage and impact analysis so customers have a complete end-to-end view of their data assets and as a result, transparency and trust in their data.

The Snowflake Partner Network Competency Program unveiled at Snowflake Summit 2022 validates Snowflake partners for the depth of their Snowflake expertise and commitment to driving customer impact across the Data Cloud ecosystem. Informatica and Snowflake are working together to mobilize the world's data with the Snowflake Data Cloud, helping joint customers unlock data to deliver improved customer service and patient outcomes, and ensure high levels of security and compliance. In recognition, Informatica has earned Snowflake Competency Badges in Financial Services and Healthcare & Life Sciences.

"Informatica and Snowflake's deep partnership and joint innovations are critical for customers who are

looking to leverage the power of the Snowflake Data Cloud and our Intelligent Data Management Cloud to drive value from their data," said Jitesh Ghai, Chief Product Officer, Informatica. "Informatica continues to be at the forefront of innovation with Snowflake, from being an Accelerated Program partner for the Snowflake Native Application Framework, to making it easy to onboard data to Snowflake with our free data loader, to the deep data governance integration that we announced today."

New All-In-One, Cloud-Hosted Subscription Facilitates End-To-End Estimating Workflow for General and Specialty Contractors

14 June 2022

Trimble announced WinEst Essentials, a new cloud-hosted estimating software subscription that facilitates an end-to-end estimating workflow for general contractors and specialty contractors, such as concrete, masonry, and drywall contractors. This solution allows estimators to implement and automate their company's estimating methodology throughout the estimating process.

Designed specifically for the workflows of general and specialty contractors, WinEst Essentials supports any phase of the estimating process—from initial conceptual budgeting to specialty execution—in one subscription. The solution also features an integration between Trimble's WinEst e-Team and eTakeoff Dimension digital construction software to provide estimators with simplified workflows for 2D takeoff. By combining complementary tools in one subscription, WinEst Essentials provides a framework for consistent, standardized estimating processes and allows estimators to leverage best practices and premier data to increase both accuracy and productivity.

As an all-in-one subscription, WinEst Essentials allows estimators to win more work through efficiencies in estimate creation, precision, and shareability—without the hassle of managing multiple software subscriptions. The WinEst Essentials subscription includes:

- **Estimating software**: WinEste-Team reduces the complexity of delivering accurate construction estimates for any phase of the estimating process—from initial conceptual budgeting through specialty execution.
- **Digital takeoff software**: eTakeoff Dimension digital takeoff software speeds up the takeoff process while ensuring more accuracy with automated features, such as auto count, work breakdown structure coding and patent-pending SnapAI technology, which adds predictive intelligence to vector takeoff.
- **Cost modeling software**: Modelogix cost-modeling software captures, benchmarks, and analyzes historical cost data in a secure centrally accessible database and leverages the data to build conceptual budgets.
- **Collaboration software**: Trimble® Connect™ collaboration tool connects the right people to the right data at the right time on any device, enabling efficient project collaboration.
- **Managed Data**: With Trimble Commercial & Assemblies and BNi Bronze Database included, estimators have access to updated cost databases that include items, assemblies, building costs, codes and data without the hassle of managing it themselves.
- **Additional estimating tools**: The Schedule Link add-on for WinEst and Advanced Image Manager software are productivity tools that further expand the estimator's tool kit, making document management and scheduling automatic and efficient.

"Efficient, precise estimates are crucial to the success of any construction contractor. By focusing on estimating solutions for general and specialty contractors, Trimble has curated a set of complementary

software solutions to help make this possible," said Lawrence Smith, vice president and general manager. "Today, more than 20,000 estimators in North America rely on Trimble's estimating solutions. By creating highly accessible, affordable subscriptions like WinEst Essentials, Trimble is making it possible for more estimators to have access to a complete set of available tools they need to build those accurate estimates."

Availability

WinEst Essentials is now available in North America.

Siemens extends support of multiple IC design solutions for TSMC's latest processes

15 June 2022

At the TSMC 2022 Technology Symposium, Siemens Digital Industries Software announced that its ongoing collaboration with longtime foundry partner TSMC has resulted in new product certifications for several of Siemens' most advanced toolsets.

Siemens' Aprisa™ digital implementation solution has been certified by TSMC for its industry-leading N5 and N4 advanced process technologies, paving the way for customers to design projects targeting high-volume applications with the fully certified Aprisa technology that supports all design rules and features of TSMC's latest advanced technologies. To achieve this certification, the Aprisa solution successfully passed a rigorous process that exercised the full physical implementation flow. The Siemens solution passed all signoff criteria, including DRC, LVS, timing, power and power integrity requirements. The Aprisa solution files for N5 and N4 designs will be available from TSMC upon customer request.

The certifications of Siemens' Aprisa toolset for TSMC's N5 and N4 processes represent the latest in a series of milestones reflecting Siemens' strong investment in its Aprisa digital implementation solution to help designers overcome some of the most daunting challenges in today's integrated circuit designs.

Other Siemens EDA offerings recently certified for TSMC's latest processes include the Calibre® nmPlatform tool, Siemens' industry-leading physical verification solution for IC sign-off, as well as the Analog FastSPICE platform, which provides leading-edge circuit verification for nanometer analog, radio frequency (RF), mixed-signal, memory, and custom digital circuits. Both of these cornerstone Siemens EDA product lines are now certified for TSMC's advanced N4P and N3E processes. Additionally, as part of the custom design reference flow (CDRF) for TSMC's N3E process, the Analog FastSPICE platform supports Reliability Aware Simulation, which includes aging, real-time self-heating effect and advanced reliability features.

"In certifying the Aprisa, Calibre and Analog FastSPICE toolsets for the foundry's latest, most advanced processes, TSMC and Siemens are collaborating to help mutual customers meet aggressive time-to-market metrics, while achieving optimal performance, power and area," said Joe Sawicki, executive vice president, IC-EDA for Siemens Digital Industries Software. "Once again, the combined expertise of TSMC and Siemens EDA has provided the global IC design community with joint solutions needed for creating and quickly validating innovative ICs targeting multiple high-growth markets and applications."

Included in the overall certification of the Calibre platform is Siemens' Calibre® xACT™ software. This software is now certified for TSMC's N3E/N4P processes, enabling sign-off parasitic extraction capability for high frequency, high-speed digital and other advanced applications that mutual Siemens and TSMC customers target.

"The successful outcomes of TSMC's recent collaboration with Siemens EDA help our mutual customers with design solutions benefitting from the significant power reduction and performance boosts of TSMC's most advanced technologies," said Suk Lee, vice president of the Design Infrastructure Management Division at TSMC. "We look forward to continuing our close partnership with Siemens EDA to deliver difference-making technologies that enable our mutual customers to deliver silicon innovations to market more quickly."

Synopsys Drives Chip Innovation for Next-Generation Mobile and HPC Designs on TSMC N3E and N4P Processes

13 June 2022

Helping customers optimize performance, power and area (PPA) for next-generation system-on-chips (SoCs) used in demanding mobile and high-performance computing applications, Synopsys, Inc. announced that TSMC has certified the Synopsys digital and custom design flows for its industry-leading N3E and N4P process technologies. In addition, Synopsys' leading Foundation IP and Interface IP are available now on the TSMC N3E and N4P processes to accelerate SoC development and minimize design risk. Adopted by leading customers, the digital and custom design flows and IP are based on the latest versions of TSMC's design rule manual (DRM) and process design kits (PDKs).

"TSMC and Synopsys have successfully collaborated for decades, with the shared goal of helping our mutual customers meet the aggressive PPA demands of increasingly complex SoCs," said Suk Lee, vice president of the Design Infrastructure Management Division at TSMC. "By enabling Synopsys' design solutions on TSMC's high-performing and power-efficient N3E and N4P processes, customers can produce innovative, advanced chips for a variety of demanding, compute-intensive applications."

Learn more about Synopsys digital and custom flows, as well as Synopsys Foundation IP and Synopsys Interface IP.

The integrated Synopsys Custom Design Family features new innovations in synthesis, place-and-route, physical verification and timing signoff, which enables the best possible PPA results and faster design closure. On the custom side, Synopsys Custom Compiler™ design and layout product, part of the Synopsys Custom Design Family and successfully validated by the Synopsys IP team, features enhancements that strengthen productivity for designers using TSMC's N3E process. In addition, the Synopsys PrimeSim™ circuit simulation technology delivers required accuracy for advanced-node designs, providing signoff coverage for circuit simulation and reliability requirements.

"Our deep history of collaboration with TSMC through every process generation has enabled Synopsys to co-optimize our digital and custom design families and IP portfolio to provide compelling PPA advantages for our mutual customers," said Sanjay Bali, vice president of marketing and strategy for the Silicon Realization Group at Synopsys. "We are seeing first-hand how companies are achieving successful designs and delivering the next level of innovation with Synopsys EDA flows and IP on TSMC's advanced N3E and N4P processes."