CIMdata

PLM Industry Summary

Editor: CIMdata News Team

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CIMdata News

CIMdata's Dr. Ken Versprille to Participate in a Webinar on Why Program Management is Ripe for Transformation
1 March 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that Dr. Ken Versprille, Executive Consultant, will make a keynote presentation at a webinar entitled, "Why Program Management is Ripe for Transformation." The webinar will also include a discussion between Dave Opsahl, the CEO of Actify, and Ron Stephens, Vice President of ETCS. The webinar, sponsored by Actify, takes place on Thursday, 25 March, at 11:00 a.m. EDT.

Many tier-1 suppliers, especially those in the automotive sector, compete for program awards from the large OEMs to supply product components and subsystems. However, to win an award, the supplier must commit to a component price for potentially thousands of units long before the design and manufacture of the component. One misstep anywhere along its design, production tooling, and manufacturing path can result in crippling financial implications.

CIMdata believes that what these suppliers need is a focused, program management solution that supports their efforts in responding to requests for quotes (RFQs) from the OEMs and then oversees the program from the day of the awarded contract through product design and the start of production. The solution should empower the supplier's program management team with the historical knowledge of past programs and give them the needed information to exercise due diligence when preparing a bid.

Attendees at this webinar will:

- Learn about the challenges suppliers face in responding to OEM RFQs.
- Learn what to look for in a program-based manufacturing solution.
- Better understand how a proper program-based manufacturing solution benefits a company.
- Understand how a program-based manufacturing solution integrates with existing PLM solutions

According to Dr. Versprille, "Suppliers are under an immense strain to compose bids on OEM RFQs all before the components are designed and manufactured. And then upon award to design and manufacture the needed components with quality."

Learn more and register at https://www.cimdata.com/en/events/event/620-webinar-why-program-management-is-ripe-for-transformation.

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MBSE: Product Validation as Part of a Closed-Loop Vehicle Lifecycle - a CIMdata Commentary
2 March 2021

Key takeaways:

- Interacting with simulations to improve understanding is moving beyond simulation & analysis specialists to include other engineers, and even product development leadership.
- Pervasive product-use sensing is improving models, which are now being used after mass production to identify quality issues much earlier.

- Scale of possible verification & validation scenarios are exploding—resulting in the is need for an environment to create, manage, and coordinate test cases in specific domains of interest in support of new and existing Automotive engineering activities.
- Siemens Digital Industries Software's (Siemens) SSE Product Validation offers solutions for managing simulations and test cases needed to cost effectively validate automotive systems, despite their growing complexity.

Managing Simulations Improves Understanding

Models of systems help engineers make informed decisions before committing resources to building a prototype, which is slow and often expensive. These models are used inside simulations to explore how a new system might perform. Simulations are compared to physical measurements, whenever they are obtained. As the limits of a model and its corresponding simulations are understood, often new simulation methods and models are developed to improve the correlation with physical reality. For decades, these simulations have been developed and used by simulation & analysis (S&A) experts with expertise in numerical methods and correlation techniques. They managed the simulations as they improved, often just utilizing file sharing mechanisms within their department.

System Engineering (SE) improves with dynamic assessments of physical/cyber systems—both virtually and physically with the most recent, actual customer's usages. Simulations can then be used for system robustness assessments by expanding test scenarios beyond the targeted performance envelope to find design weaknesses. As simulation confidence rises, it will increasingly be used for product validation. Replacing physical validation with virtual validation has clear time-to-market benefits. While all final physical validation may not be replaced, doing some validation earlier and continuously will help companies accelerate without compromising quality. Product quality might even improve as phenomena beyond the limits of physical evaluation are explored.

No doubt product complexity will continue to grow and change as products contain more embedded computers. Yet these products come with greatly improved sensing ability, which is being shared in real-time with operations databases, helping traffic control and product service. Consider the OnStar diagnostics report from a vehicle that provided an early example of product sensing of its operational conditions and providing them back to service organizations via a cell phone connection.

For years, CIMdata has defined and encouraged industry leaders to embrace a systems-of-systems mindset and the associated need for a comprehensive and integrated PLM ecosystem to help manage it all, including simulations. Simulation has been used piece meal across PLM, often by phenomena experts. Some of the best original simulation experts were talented test engineers from a laboratory. They understood the limits of measuring and the importance on confirming results with reality.

Simulation can be used throughout the lifecycle and in fact will need to be used a lot more as systems become more complex. The role of managed simulations will evolve into a platform of understanding updated and used daily to assess evolving designs as they are developed by engineering. Simulations will be used to assess operational anomalies to understand whether an emerging field issue might be the bud of a quality problem. More engineers, many not simulation experts, will use simulations to explore failures and missed performance objectives improving their overall understanding of how the product will react in customers' hands.

What is needed is a simulation platform that makes understanding easier to obtain from the digital engineering artifacts: models, simulations, load cases, and even confidence factors. Improving understanding with simulations makes better products. All engineers, covering all disciplines, will use understanding-models to answer the question: "Will our existing products in our customers' hands work

with the proposed new feature?"

Siemens' Product Validation Brings Simulation Driven Exploration

Being able to explore the effects of a proposed change improves product robustness. Reviews for choosing amongst alternatives will accelerate and improve as all disciplines interact together with models. Model-Based Engineering (MBE) is enabling organizations to transform from serial processes to continuously executed agile processes. Engineers will be connected all the time rather than just at infrequent, expensive physical mockups. Figure 1 illustrates this fundamental shift driving organizations to rethink their product development processes taking advantage of collaborative understanding-models. Simulations and the boundary load cases of interest need to be professionally managed.
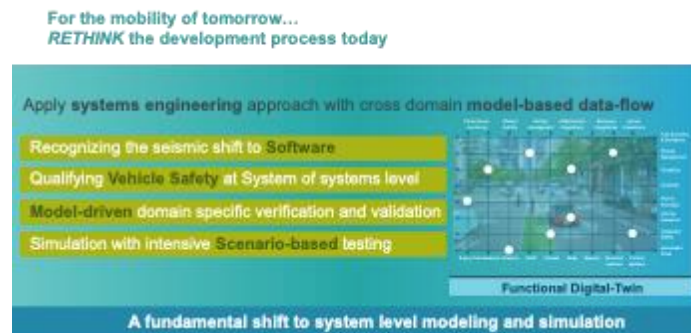
Figure 1—Model-Based Approaches Bridge Disciplines
(Courtesy of Siemens)

Collaboration is complete and trusted when each expert, in their disciplinary context, can comprehend the behavioral effect of the changes being considered. This requires a broader simulation management solution that enables building trust and confidence. Simulation animations need to happen on demand, well-orchestrated across the disciplines.

By managing features instead of parts and assemblies, a clearer measure of customer value is understood across the complete lifecycle. Simulations reveal behavior of features under different loading conditions. Imagine a confidence measure of feature robustness to future upgrades. What are the feature implementation weaknesses that might fail later in the product's life? This is like understanding material fatigue in a product used for thousands of miles. Features supported by embedded software might have sensors that wear out. But they also have susceptibility to future changes and cyber threats. Applying the appropriate simulations let us explore the limits of a design thus building confidence in its robustness.

A "systems understanding" framework needs PLM integrated with Model-Based Systems Engineering (MBSE) to provide interactive views for authors, investigators, and decision makers. Figure 2 is a view of a framework that improves understanding earlier in a product's life with more of the engineers continuously improving their understandings.

Figure 2—SSE Product Validation Framework Allows Continuous Assessments
(Courtesy of Siemens)

Assessing a vehicle continuously and re-defining it as usage occurs is the focus of Siemens' Software & Systems Engineering (SSE) Product Validation offering. It builds on Siemens expertise of managing simulations and expands into creating and then managing test cases (i.e., scenarios under different environmental conditions) all while providing a user interface for the non-simulation manager or engineer.

"Democratization" of Vehicle Systems Modeling & Simulation

Enabling all people from design, simulation, manufacturing, and service to seamlessly leverage advanced simulations throughout the entire vehicle lifecycle has been the Holy Grail since the first CAD-embedded simulation tools were launched in the early 1990s. The journey has been long and arduous with several false starts and dead ends but now, thanks to the widespread availability of vastly expanded computing and 3D graphics capabilities, the engineering domain is beginning to realize the benefits of this quest. Moving the impact of simulation, stochastic analysis, and optimization activities earlier in the product development lifecycle to meet product performance requirements prior to hardware build and embedded software commitments enables engineers to design more cost efficient, durable, and safe products.

This democratization is now not limited to merely embedding "simpler" analysis capabilities inside mechanical CAD tools. It provides the ability to interact with large-scale physics simulation results across engineering disciplines (i.e., stress/durability, CFD/flow, thermal, etc.) and at varying levels of fidelity (e.g., 0D/1D, 2D, 3D) in both the time and frequency domains. Experienced computer-aided design and systems simulation analysts can define, validate, and encapsulate simulation best practices in easy-to-use applications that can be customized to the needs and level of detail of the intended user. These desktop-based and/or web-deployable tools can safely leverage the power and sophistication of many types of advanced simulation capabilities for 3D parts, sub-systems, as well as systems. Many types of users can be guided through the types of simulations that have been designated as valid Verification & Validation (V&V) best practices by the engineering experts within their own companies. It is a continuously updating, closed-loop platform that speeds understanding, see Figure 3.
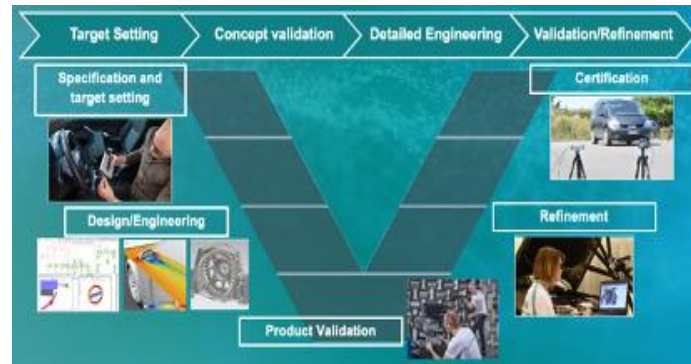
Figure 3—Integrating Physical Testing with Virtual Simulation
(Courtesy of Siemens)

Conclusion

Systems engineering practiced by more than simulation and modeling experts is a competitive advantage. The same proven S&A capabilities that have long been used in the automotive industry to validate designs versus physical prototypes can now be applied up front to predict system behavior and to optimize designs versus end user requirements based on key performance indicators. Historically, in-house developed systems and practices have been used by automotive OEMs to manage these activities enabled by custom IT solutions and semi-manual processes. But the complexity of today's cyber-physical systems, such as hybrid and electric powertrains and autonomously operated vehicles, now require an elevated level of multi-domain systems modeling and simulation that spans software, mechanical, sensors, networking, and electrical engineering domains. It even includes the customer interaction with both the vehicle and its operating environment (i.e., a system of systems approach).

As such, product V&V now needs to start at the systems level in the requirements definition of a new vehicle program and be a continuous cross-domain process throughout the product lifecycle. Such an approach must integrate and optimize the design of systems, sub-systems, and parts to achieve desired user features as well as meet engineering and business requirements in terms of time to profit, R&D cost, durability/warranty commitments and global regulations for safety, natural resource consumption, and environmental sustainability.

CIMdata believes that Siemens provides such an integrated cross-domain and multi-level product V&V framework and simulation capabilities suite that can meet these demanding automotive industry issues at the systems level for cyber-physical product development—from the chip level (i.e., for System-on-Chip (SoC) design using V&V with vehicle systems level scenarios), system level (e.g., advanced driver-assistance systems (ADAS) feature V&V), to vehicle level (e.g., crash and occupant safety), to City level (e.g., virtual V&V for real-world driving scenarios with high fidelity city maps) using virtual-HiL testing of a physical vehicle test-driving on a test track across a range of simulated real world scenarios. Siemens' SSE Product Validation provides an accurate behavioral digital twin of the vehicle design experiencing real world conditions and loads.
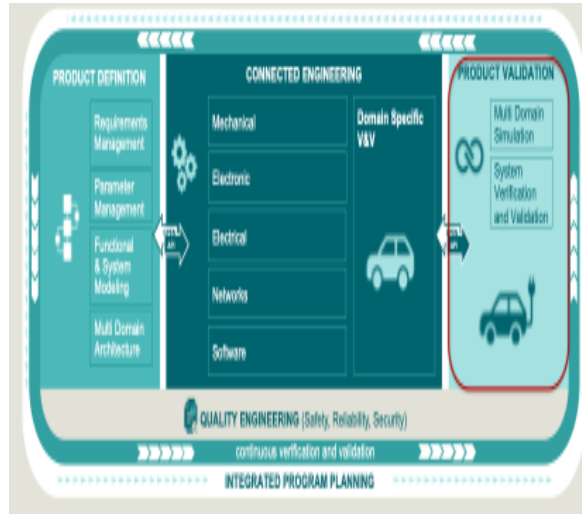
Figure 4—Software & Systems Engineering Pillars
(Courtesy of Siemens)

Siemens' SSE pillars for Product Definition, Connected Engineering, and now Product Validation have been summarized in multiple CIMdata commentaries. CIMdata will elaborate on the remaining pillars, Quality Engineering and Integrated Program Planning, early in 2021, see Figure 4.

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Acquisitions

Accenture Acquires Leadership and Talent Consultancy Cirrus to Support C-Suite Transformations
1 March 2021

Accenture has acquired Cirrus, a UK headquartered leadership and talent consultancy. Cirrus joins Accenture's Talent & Organization / Human Potential team and strengthens its development and coaching capabilities for leaders seeking business transformation. Terms of the transaction were not disclosed.

With 70 experts located in the U.K. and Australia serving global clients, Cirrus blends leadership, talent, and engagement expertise to assess and develop leaders — creating behavioural change and implementing agile ways of working to unlock their potential. Cirrus has a proven track record of delivering business impact through bespoke leadership and team development solutions run via virtual, face-to-face and digital channels.

"Our clients look to us for guidance and innovation alongside them in their transformation journeys, especially during times of change. By acquiring Cirrus, we can deliver leadership and talent development programs to serve them at a greater pace and scale," said Christie Smith, global lead for Talent & Organization / Human Potential at Accenture. "Cirrus's digital learning capabilities, in particular, will help transform and reinvent our clients' C-suites and broader teams in innovative ways."

Cirrus complements Accenture's most recent Talent & Organization / Human Potential acquisitions — Future State in February and Kates Kesler in 2020 — which aim to expand client offerings and create new ways to deliver value with a deep understanding of client needs and market challenges. Cirrus was

founded by Dr. Simon Hayward in 2010. Simon is a highly regarded leadership thought leader, author and honorary Professor at the Alliance Manchester Business School.

"Joining Accenture creates an opportunity to bring our capabilities to more clients seeking expertise in leadership guidance," said Dr. Simon Hayward, chief executive officer at Cirrus. "Together, we'll be able to bring our innovative digital learning and leadership development services to clients around the world at a time of truly critical need."

"We are all thrilled to welcome Cirrus to Accenture," said Diana Barea, managing director, Talent & Organisation, Accenture UK & Ireland. "In times of constant change, leadership in delivering successful cloud, platform and other critical business transformations is more important than ever. Cirrus will help our clients unleash their ingenuity as they lead through change."

Cirrus is the third acquisition that Accenture has made in the U.K. this year following the acquisitions of Edenhouse and Infinity Works in February.

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Accenture Acquires REPL to Expand Retail Technology and Supply Chain Capabilities
3 March 2021

Accenture has acquired REPL Group ("REPL"), a U.K.-based technology consultancy specializing in solutions for supply chain, workforce management, store operations and retail customer experiences. Terms of the acquisition were not disclosed.

The acquisition expands Accenture's capabilities that help clients across retail and adjacent industries transform their supply chains and operations and deliver seamless customer and employee experiences. REPL uses its deep retail expertise, coupled with cutting-edge technology skills, to help global businesses deliver sustainable value.

Founded in 2007, REPL is headquartered in Henley-In-Arden, U.K., with additional offices in London, Warwick and Leeds in the U.K. as well as in the U.S., South Africa and Germany. REPL's team of approximately 440 professionals will join Accenture Technology.

"With COVID-19 permanently disrupting the retail landscape, businesses need technology more than ever to embrace change and deliver products to customers where and when they want them," said Doug Blyth, a managing director at Accenture Technology in the U.K. and Ireland. "With REPL now part of Accenture, we have significantly grown our capabilities to help clients reimagine their supply chains, people and store technologies to become more efficient and meet new customer needs."

Mike Callender, REPL's founder and chairman, said, "Accenture and REPL are greatly aligned with a complementary set of retail and supply chain capabilities. Being part of Accenture will provide fantastic opportunities for our people and our clients as we combine our expertise, people-first approach and passion with Accenture's end-to-end transformational capabilities and global reach. We're thrilled to come together to take technology-led transformation to the next level for our clients."

REPL has deep relationships with key ecosystem partners, including Blue Yonder, and is recognized as a Gold Consulting Partner in Blue Yonder's Partner network. The acquisition will further Accenture's Supply Chain & Operations functional focus to meet demand for Blue Yonder's cloud-based solutions — for which Accenture was recently recognized as Customer Excellence Global Partner of the Year for supporting clients with customer-centric supply chain transformations that capitalize on a cloud-first approach.

Kris Timmermans, who leads Accenture's Supply Chain & Operations practice globally, said, "As companies reimagine how products are distributed to be more flexible and meet ever-changing demand, they need customer-centric supply chains that are resilient, efficient and responsible. The addition of REPL will extend our skilled workforce and ability to support clients in their digital supply chain transformation journeys, enabling Accenture to further deliver on the promise of technology and human ingenuity."

REPL is the latest acquisition Accenture has made to strengthen its technology capabilities in the U.K. In February, Accenture acquired Edenhouse, an independent SAP partner, and Infinity Works, a cloud and digital transformation consultancy.

Accenture also recently announced the creation of Accenture Cloud First, a multi-service group of 70,000 cloud professionals backed by a $3 billion investment over three years to rapidly expand the company's cloud service capabilities and offerings.

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Accenture Bolsters Supply Chain & Operations Capabilities in Australia with Acquisition of GRA
1 March 2021

Accenture has acquired Australian-based supply chain and logistics consulting firm, GRA. The acquisition strengthens Accenture's Supply Chain & Operations capabilities that help public and private sector clients address complex supply chain demands to deliver dynamic customer experiences in line with responsible practices.

Founded in 1997, GRA has offices in Melbourne, Canberra and Brisbane with a team of 50 professionals. The firm specialises in end-to-end supply chain and logistics strategies and operations, working with some of Australia's leading organisations in areas such as government, aerospace & defence and consumer goods to turn their supply chains into engines for growth.

"The pandemic has accelerated the need for businesses to transform their supply chains to become more customer-focused, agile, and socially responsible with the flexibility to withstand future disruptions. The addition of GRA will expand our supply chain and operations capabilities to help clients with their transformation to intelligent, customer-centric supply chains supporting profitable growth," said Tara Brady, country managing director for Accenture in Australia & New Zealand.

"We are looking forward to starting a new chapter with Accenture and contributing our skills, culture and extensive supply chain capabilities to Accenture's substantive network of clients and partners," said Carter McNabb, a founding partner at GRA. "With supply chains across sectors at a pivotal junction, we are confident that this combination will enable both our team and clients to continue to grow and innovate at an accelerated pace."

Louise May, who leads Strategy & Consulting for Accenture in Australia & New Zealand, said, "GRA brings deep knowledge and skills in supply chain strategy, planning and execution that complement our existing capabilities, and we are delighted to welcome them to the team. Their successful track record of delivering value across a range of industries is exceptional, and we are excited about the potential and opportunity this combination presents."

Accenture's acquisition of GRA follows other investments across Australia and New Zealand in the past 18 months, including cloud-native solutions provider Olikka in November 2020; SAP and cloud solutions technology firm Zag in October 2020; data analytics and supply chain management

company Icon Integration in February 2020; business strategy and econometrics firm AlphaBeta in February 2020; specialist government consultancy Apis Group in December 2019 and big data and analytics company Analytics8 in August 2019.

Terms of the transaction are not being disclosed.

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Accenture to Acquire Industrial Robotics and Automation Solutions Provider Pollux

1 March 2021

Accenture has agreed to acquire Pollux, a provider of industrial robotics and automation solutions, headquartered in Joinville, Brazil. The acquisition will expand Accenture's capabilities for clients in consumer goods, pharmaceutical and automotive industries seeking to make their factories, plants and supply chains more productive, safe and sustainable.

Pollux provides solutions to optimize manufacturing and logistics processes. The company designs, engineers and deploys fully functional assembly lines that include robots and other hardware, plus the software that controls them. Pollux also offers visual analytics inspection solutions, autonomous mobile robots and robots as a service for shopfloors and warehouses.

Founded in 1996, Pollux has implemented more than 1,000 projects for manufacturing companies, primarily in Brazil. Many of the world's largest pharmaceutical and food companies use technology solutions from Pollux in their Brazil operations, and a high number of vehicles made in the country involve Pollux's manufacturing solutions.

This is Accenture's first acquisition of an industrial robotics solutions provider and will encompass Pollux's operations in Brazil, Ecuador, Mexico, Canada and the United States. Pollux's more than 290 professionals will join Accenture's Industry X group, which embeds intelligence in how clients run factories and plants, as well as design and engineer connected products and services.

Nigel Stacey, global lead for Accenture Industry X, said: "Automation and human + machine collaboration are digitally transforming manufacturing and supply chain operations to be more flexible, resilient, sustainable and safe, and to better meet ever-changing customer demands. Tangibly seeing these benefits in practice requires a true integration of information technology and operations technology, which is what Pollux will allow us to offer our manufacturing clients."

Renato Improta, Latin America lead for Accenture Industry X, added: "Pollux's expertise and experience in robotics and automation solutions will complement our industry consulting skills and industrial IT and applied intelligence capabilities. This combination will enable us to deliver real-time supply chain and operations orchestration with flexible manufacturing functions to our clients."

José Rizzo Hahn Filho, CEO and founder of Pollux, commented: "As part of Accenture Industry X, we can offer existing and new clients complete transformation of manufacturing and logistics processes. Combining IT innovations with industrial automation can enable powerful new business models, in which, for example, a consumer's purchase at home immediately triggers a robot's next move in a factory on the other side of the planet."

Pollux will be the latest acquisition Accenture has made to strengthen its digital manufacturing, operations and supply chain capabilities. Recent acquisitions include industrial operations consulting firm Myrtle (US), technology consultancy SALT Solutions (Germany), PLM Systems (Italy), Callisto Integration (Canada), Silveo (France) and Enterprise System Partners (Ireland).

In Brazil, Accenture recently purchased information security firm Real Protect and cloud specialist Organize Cloud Labs.

Completion of the acquisition is subject to customary closing conditions. Financial terms of the acquisition were not disclosed.

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Wipro to acquire Capco, a global management and technology consultancy to banking and financial services industry, for $ 1.45 billion

4 March 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced that it has signed an agreement to acquire Capco, a global management and technology consultancy providing digital, consulting and technology services to financial institutions in the Americas, Europe and the Asia Pacific.

London-headquartered Capco's clients include many marquee names in the global financial services industry. Over the past 20 years, the company has worked closely with business leaders, including Boards and C-Suites in the banking, capital markets, wealth, asset management and insurance sectors and is widely acknowledged for its deep domain and consulting expertise, risk and regulatory offerings and thought leadership around key industry technology challenges and opportunities. In addition, Capco services clients in the energy and commodities trading sector.

Capco has an experienced executive team and over 5,000 world-class business and technology consultants based across more than 30 global locations supporting clients through their expert insights, entrepreneurial approach and focus on delivery excellence.

This acquisition will make Wipro one of the largest end-to-end global consulting, technology and transformation service providers to the banking and financial services industry. By combining Wipro's capabilities in strategic design, digital transformation, cloud, cybersecurity, IT and operations services with Capco's domain and consulting strength, clients will gain access to a partner who can deliver integrated, bespoke solutions to help fuel growth and achieve their transformation objectives.

Thierry Delaporte, CEO and Managing Director of Wipro Limited said, "We are very excited to welcome Capco's admirable leadership team and employees, and global clients, to Wipro. Together, we can deliver high-end consulting and technology transformations, and operations offerings to our clients. Wipro and Capco share complimentary business models and core guiding values, and I am certain that our new Capco colleagues will be proud to call Wipro home."

Lance Levy, CEO of Capco said, "We are incredibly excited to join our new colleagues at Wipro. Together, we will offer bespoke transformational end-to-end solutions, now powered by innovative technology at scale, to create a new leading partner to the financial services industry. We look forward to leveraging the complementary capabilities and similar cultures of both companies to drive industry change and offer exciting opportunities for both our clients, and our people."

The acquisition is subject to customary closing conditions and regulatory approvals and is expected to close in the quarter ending June 30, 2021.

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Company News

3D Repo Receives Epic MegaGrant for New Digital Twin Platform in AEC

25 February 2021

3D Repo, creators of cloud-based design collaboration in Building Information Modelling (BIM), today announced that it has received an Epic MegaGrant, which will be used to build a new data delivery platform for the AEC industry.

Harnessing the power of Unreal Engine's advanced real-time technology, 3D Repo has created an infinitely scalable 3D rendering and data delivery platform that allows AEC users to share and view massive and complex 3D engineering models online.

Via open APIs, the 3D Repo version control cloud connects with Unreal Engine, where pre-optimised assets are dynamically loaded directly into a running game giving users the ability to log-in via their 3D Repo credentials and seamlessly retrieve any of their assets on the fly.

This is made possible through a persistent storage layer rather than parsing and baking assets into a new game executable each time an asset revision is created.

"Over the past two years, we've seen a gradual shift from BIM to Digital Twins, with more and more clients requesting high visual fidelity for both engineering and client presentation purposes, and the ability to explore vast 3D scenes in real-time." shared Dr Jozef Dobos, CEO, 3D Repo. "Our new digital twin streaming solution is a major breakthrough that will enable AEC professionals to collaborate remotely using very large and complex 3D models across the web. 3D Repo is delighted to receive the Epic MegaGrant to help push the boundaries and improve efficiency and quality of construction in the UK."

"The new 3D Repo data delivery platform for Unreal Engine enables remote collaboration using very large and complex 3D models through the power of Unreal's real-time technology." said Ken Pimentel, AEC Industry Management, Epic Games. "AEC professionals are running into a wall trying to visualize large-scale projects using existing solutions, and this effort shows what's truly possible when innovative teams collaborate for a mutual goal."

Launched in 2019, Epic MegaGrants is a $100 million program that continues Epic Games' long-standing commitment to the success of all creators, and is designed to service and assist game developers, enterprise professionals, media and entertainment creators, students, educators, and tool developers doing outstanding work with Unreal Engine or enhancing open-source capabilities for the 3D graphics community.

The 3D Repo platform provides support for a variety of engineering file-formats including native support for IFC, Autodesk Revit, FBX, Bentley DGN, SPM, and many more, plus a selection of plug-ins and integrations including cloud-based version control and data optimisations. This places 3D Repo in a unique position to offer a data delivery platform to democratise the creation and deployment of 3D visualisations through persistent data storage in the cloud.

Aspen Technology Appoints Chantelle Breithaupt as Senior Vice President and Chief Financial Officer

2 March 2021

Aspen Technology, Inc., a global leader in asset optimization software, has appointed Chantelle Breithaupt as Senior Vice President and Chief Financial Officer. Breithaupt will join AspenTech on March 22, 2021.

Breithaupt joins AspenTech from Cisco where she was most recently Senior Vice President, Finance for its Customer Experience organization to transform Cisco's entire $50B partner and customer journey. While at Cisco, Breithaupt contributed to the growth of its Americas and Services business divisions through the transition to new business models, implementation of clear accountability frameworks and a rigorous approach to execution across the finance organization. In 2018, Breithaupt was awarded the YWCA Silicon Valley Tribute to Women Award, recognizing excellence in both finance and contributions to Silicon Valley leadership.

"I am very pleased to welcome Chantelle Breithaupt to the AspenTech team. She brings extensive experience running finance organizations at scale, executing transformational initiatives, and building great, diverse teams," commented Antonio Pietri, President and Chief Executive Officer at Aspen Technology. "Chantelle joins AspenTech as we continue our drive for sustained double-digit growth and best-in-class profitability on our journey to our goal of one billion dollars in annual spend. Chantelle's expertise and experience will be of significant value to us in this journey."

Prior to Cisco, Breithaupt was with General Electric (GE) where she began her career as a graduate of its two-year Finance Leadership Program. At GE, Breithaupt held several management positions before becoming CFO, Global Supply Chain, EMEA and ultimately CFO, GE Healthcare Services, EMEA.

"I look forward to supporting AspenTech at this pivotal moment in its 40-year journey. I am impressed with the ambition and market-leading technology that underpin its growth trajectory. I look forward to building on the solid foundation to accelerate agility and transformation within the finance organization and across the company," commented Chantelle Breithaupt.

Breithaupt will succeed Karl Johnsen, whose departure from AspenTech was announced in February. Breithaupt and Johnsen will work through a transition period, and Johnsen will continue in the Company in an advisory role through June 30. "I want to thank Karl for his accomplishments at AspenTech and wish him every success in his next venture," Pietri concluded.

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Bricsys Stay Connected Student Challenge

26 February 2021

Student designers, artists, architects, engineers, academics, and visionaries – we've got a challenge for you! Enter Bricsys' Student Design Competition 2021 and design something that enables people to stay connected without touch!

The Bricsys Stay Connected Student Challenge 2021 encourages current students and recent graduates to develop and demonstrate designs for a changing world, using STEM and of course, BricsCAD.

The Brief

Recent developments have meant that it's not always possible to see people face to face, and when we do, social distancing rules must be respected. This is driving new innovations and behaviors such as telepresence robots that make Skype calls more interactive, plastic sheeting through so you can hug your grandma and virtual Zoom drinks.

The Bricsys Stay Connected Student Competition invites you to design your own innovative solution to help people stay in touch, without touch. What this means is up to you. Do you have an idea for a public transport design or medical device? Or something much simpler such as a social–distancing stick or virtual greeting?

The choice is yours, so go ahead and release your creative problem-solving genius to explore the possibilities!

Judging criteria

#1 BricsCAD model quality

Showcase your BricsCAD skills. The tidier, cleaner, and the more precise the model, the better! Extra points will be awarded to entrants who create models without gaps, misalignments, and incorrect connections.

#2 Originality

We are looking for ingenious, inventive, and unique designs. Have you got a new idea that could revolutionize how we stay connected?

#3 Complete concept

Please submit complete design concepts covering usability, sustainability, mental and physical wellbeing, and social impact. Think about who is using your design and why.

Getting started

Bricsys offers a free BricsCAD academic license to students. In addition, anyone can also try BricsCAD free of charge by downloading a 30-day trial version.

If you are familiar with other CAD platforms, it should only take you thirty minutes to familiarize yourself with BricsCAD. If you need any help, be sure to check out our tutorials on YouTube or help.bricsys.com. Here are some considerations to keep in mind when you start creating your design.

- What materials are you using?
- How will it be manufactured?
- Can others use a design template and make it themselves or will it need to be manufactured in a factory?
- Is it disposable or reusable?
- What is the ecological impact?
- How can you design out user error?
- How expensive will it be?
- Who are you designing for? Adults, elderly people, children, medical staff? Can you make sure that the technology isn't too complicated or too fiddly for small or arthritic hands?

Entry requirements

- This competition is open to students who are currently studying or who have completed their studies in 2020. Parental approval to enter is required for anyone under the age of 18.
- You can enter your design as a single person or as a team. The prize will remain the same whether an individual or team wins the competition.
- The design model must be created in BricsCAD.

Submission requirements

Enter by filling in this form and submitting the following:

- 1 .dwg file
- Approx. 500 words to explain your design idea
- Any images if relevant (optional)

Competition closes at 11pm (UTC) on 16th April 2021

First, second and third place will be announced on 30th April 2021

The prizes

All finalists will feature on Bricsys' social media channels and the winner will be interviewed for the Bricsys Blog.

- **First prize:** €1,000 and a prototype model of your design. Exact product methods will depend on the size and complexity of the model.
- **Second prize:** SpaceMouse Pro (worth €300).
- **Third prize:** Spacemouse Wireless Connexion (worth €150).

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Capgemini strengthens its strategic partnership with Microsoft in North America
2 March 2021

Capgemini has further strengthened its strategic initiative with Microsoft in North America to help clients accelerate their digital transformations and embrace new cloud-based ways of working. Under this initiative, Capgemini and Microsoft will collaborate to help organizations in North America drive their digital agendas forward by connecting business and IT strategy. The two partners will also develop employee talent jointly through broader technical training and certification.

This expansion combines the power and innovation of Microsoft's industry-leading technology and Capgemini's global expertise in multiple industries such as manufacturing, retail and financial services. Capgemini also brings to the North America-focused collaboration a comprehensive portfolio of services in applications, cloud technologies and cloud managed services to enable productivity gains, immediate cost savings, digital transformation and business agility for customers.

"HSB-Hartford partnered with Capgemini to launch our Enterprise Information Management Program, a transformative initiative that leverages Microsoft Azure Data Stack, to enable fact-based decision-making. During this journey, Capgemini leveraged its extensive Microsoft expertise to help us navigate the various technical and process features critical for moving to production. Capgemini's deep knowledge of Microsoft, as well as its strong relationship with the Microsoft team, ensured effective and efficient collaboration as well as a successful launch," said Louis DiModugno, Chief Data Officer

at HSB-Hartford.

Capgemini will enhance its Microsoft business in North America by leveraging the transformative potential of its end-to-end portfolio offerings, such as Enterprise Portfolio Modernization including Digital Core with SAP S/4HANA®, Datacenter Modernization, Cyber Defense Center, Data Estate Modernization and AI, Intelligent Industry, Connected Employee Experience and Customer Data Hub built on top of the whole Microsoft suite spanning across Azure, Microsoft 365, Dynamics 365 and Power Apps. Capgemini has over 10,000 Microsoft Certified Professionals (MCPs) and Microsoft Azure® certified architects.

"This strategic initiative is another step towards our joint vision with Microsoft, which is to help our clients accelerate their adoption of cloud technologies and enable critical transformation,'' said Geoffroy Pajot, Global Microsoft Partner Executive at Capgemini. *"This extension of our partnership with Microsoft in North America demonstrates our strong mutual commitment to help clients meet their business goals and accelerate their digital transformation."*

"When you combine Capgemini's strong industry experience and portfolio of services with Microsoft's industry leading technology it is game changing for our customers. We are excited to build upon the global success we have already seen with Capgemini to help our customers become more resilient and reimagine their future," said Kelly Rogan, Corporate Vice President of Strategy, Microsoft Worldwide Commercial Business.

This initiative with Microsoft builds upon the two organizations' close relationship for more than two decades. Capgemini is designated as a Microsoft Azure Expert Managed Services Provider and a Gold Member in Microsoft's Partner Network. In addition, Capgemini was recognized as the 2019 Microsoft SAP on Azure Partner of the Year for successfully migrating Coke One North America's (CONA) SAP landscape to Microsoft Azure, one of the largest implementations of its kind.

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DXC Technology Welcomes Dawn Rogers and Kiko Washington to Board of Directors
4 March 2021

DXC Technology announced the appointments of **Dawn Rogers** and **Kiko Washington** to the company's **Board of Directors**, effective March 4, 2021.

Dawn is a global human resources executive and transformation leader with 35 years of experience in organizational design, people analytics, M&A, talent management, change programs, and succession planning for large and small companies. She is currently Director of Human Capital at American Securities LLC where she provides leadership and support to the firm's portfolio of companies in all areas of human capital management. Previously Dawn spent 20 years in human resources at Pfizer, most recently as Chief Human Resources Officer where she led a global human resources function for 85,000 employees. Prior to joining Pfizer, Dawn held human resources leadership roles at Kos Pharmaceuticals, Earth Tech, and Ares Serono/Serono Diagnostics. Dawn will serve on the board's Compensation Committee.

Kiko recently retired as executive vice president of worldwide human resources at Warner Bros. Entertainment with responsibility for organizational planning and development, recruitment, compensation and benefits, employee training and development, employee relations and communications, inclusion and belonging, shared services, and work-life initiatives. With 35-years of

experience in leadership roles at Warner Bros. and HBO, Kiko has been integral in shaping the human resources programs and transforming the cultures of these organizations. Kiko will serve on the board's Nominating/Corporate Governance Committee.

"Dawn and Kiko are outstanding additions to our board," said **Ian C. Read**, chairman of the DXC Board. "Each are proven leaders with deep experience in business and human resources that will prove valuable as Mike Salvino and his leadership team bring the 'new DXC', which is focused on our customers and our people, to market as we execute the company's transformation journey. On behalf of all our directors, I welcome Dawn and Kiko to the DXC board."

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Infor Kick Starts UK Channel Partner Drive

2 March 2021

Infor announced an aggressive channel partner recruitment drive in the UK and Ireland, focusing on developing relationships with partners that can deliver excellence in implementing the multi-tenant Infor CloudSuite Industrial and Infor CloudSuite Distribution applications. Successful applicants will join the Infor Partner Network — a global ecosystem of people, services and systems designed to provide partners with world-class sales solutions and the highest quality training, support, and enablement in the industry.

As UK businesses continue to innovate amidst some of the most challenging conditions, Infor ERP technology has been behind the recent digital transformation of manufacturers including Russell Roof Tiles, Nylacast, Vantage Power and UK BIC. Elsewhere, distribution leaders such as ERF Electrical have turned to Infor CloudSuite Distribution to create a complete digital strategy.

"The goal of the IPN is to organise a skilled team of partners, committed to growing with Infor CloudSuites, expanding their businesses and staying ahead of the market, by providing customers with innovative cloud-based technology suites that are beautiful, functional and easy to use," said Andy Berry, Infor executive vice president of channel and alliances across EMEA and APAC. "Infor has expanded the number of partners globally by 40% and is now looking to repeat such growth in the UK. Within the UK market, we are lucky to have some world-class partners, but one of the lessons of 2020 has been to continually push what is possible. So once again, we are turbo-charging our efforts to find the very best service, product and strategic partners within the UK."

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Infosys Announces Canadian Expansion to Calgary, Doubling Canadian Workforce to 4,000 by 2023

3 March 2021

Infosys, a global leader in next-generation digital services and consulting, announced that it would be bringing 500 jobs to Calgary over the next three years, doubling its Canadian workforce to 4,000 employees by 2023.

This expansion was announced by Alberta Premier Jason Kenney, Calgary Mayor Naheed Nenshi, along with Ravi Kumar, President, Infosys, Mary Moran, President and CEO of Calgary Economic Development and David Knight Legg, CEO Invest Alberta Corporation.

"We are thrilled to expand our presence in Canada and advance our commitment to hiring top tech talent across major hubs. Calgary is a natural next step as part of our Canadian expansion and represents a significant and promising market for Infosys. The city is home to a thriving talent pool that the Covid-related economic downturn has impacted. We will tap into this talent and offer skills and opportunities that will build on the city's economic strengths," said Ravi Kumar, President, Infosys.

"We are pleased to see Infosys' continued growth in this region and their commitment to bringing 500 skilled jobs along with upskilling opportunities for our local workforce. This announcement is a testament to the talent and opportunity that exists in Alberta as we continue our progress towards economic recovery and growth," stated Alberta Premier Jason Kenney.

"We've spent a long time building this relationship with Infosys, working toward this huge expansion of their operations in Calgary. This is the latest proof that the plan to diversify our city's economy is working. We are focused on making sure that Calgary is a great place to make a living and a great place to make a life. That benefit stood out to Infosys, and we are excited to be partners in their Canadian growth plans," said Mayor Nenshi.

Within the last two years, Infosys has created 2,000 jobs across Toronto, Vancouver, Ottawa, and Montreal, with plans for further expansion across the country. The Calgary expansion will enable Infosys to scale work with clients in Western Canada, Pacific North West, and the Central United States across various industries, including natural resources, energy, media, retail, and communications.

The company will hire tech talent from fourteen educational institutions across the country, including the University of Calgary, University of Alberta, Southern Alberta Institute of Technology, University of British Columbia, University of Toronto, and Waterloo. Infosys plans to build a strong pipeline to expand the skills needed to accelerate digital transformation.

Infosys has recently been recognized as a Best Place to Work in Canada - Glassdoor Employees' Choice Award. Additionally, the company has been certified Global Top Employer by the Top Employers Institute – the regions covered include all of North America, APAC, and Europe.

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PlanHub Welcomes Kimberly Rogan as New Senior Vice President of People and Culture
2 March 2021

PlanHub, a leading pre-construction bidding marketplace for general contractors, subcontractors, and suppliers, is pleased to welcome Kimberly Rogan as its new Senior Vice President of People and Culture. Rogan is responsible for creating and executing People operations and strategies that support PlanHub's ambitious growth plan while preserving and enhancing PlanHub's culture and dynamic work environment.

Rogan brings over 20 years of expertise with organizational strategy, performance management, and leadership development. She is well versed in building high-performance teams in tandem with nurturing and retaining top talent for various organizations, ranging from Fortune 500 mega-companies to, most recently, high-growth SaaS technology companies. Prior to joining PlanHub, Rogan served as the Head of Human Resources and member of the executive leadership team for Vector Solutions, a leading SaaS-based provider of digital compliance and professional development training solution. There, she led efforts in the preparation and execution of business development and expansion strategies. She has played a crucial role in two company mergers and more than 15 successful

acquisitions throughout her career.

"I could not be more pleased to have Kimberly on the team, helping the company achieve its full potential while staying true to our values," says Kevin Priddy, CEO at PlanHub.

Rogan holds a Bachelor of Science degree in Organizational Psychology from the University of Central Florida and an MBA with a focus in Organizational Management & Development from the University of Florida.

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PROS Appoints Tech Industry Powerhouse Katrina Klier as Chief Marketing Officer

1 March 2021

PROS®, a provider of AI-powered solutions that optimize selling in the digital economy, announced that Katrina Klier has joined the company as Chief Marketing Officer, reporting directly to Les Rechan, PROS Chief Operating Officer. Klier will be responsible for aligning global marketing strategy and programs with corporate priorities. Central to her mandate will be optimizing demand generation, deepening customer and prospect engagement and amplifying brand visibility to fuel corporate growth.

With more than 25 years of high-tech experience spanning telecom, software and professional services organizations, Klier has a proven track record in driving global strategy, brand value and revenue growth. She brings deep expertise in data analytics to transform marketing strategy, monitor end-to-end customer journeys and deliver an exceptional digital customer experience.

"Katrina is a tech industry powerhouse, and the right leader for PROS as we further scale our global organization to the next level," said Rechan. "Her breadth of marketing experience, digital acumen and global leadership experience from companies like Accenture, Microsoft and HP will further transform PROS go to market, expand our global partnerships and support customers' journeys to omnichannel optimization. Welcome to PROS, Katrina!"

Prior to PROS, Klier served as global managing director and head of digital marketing, communications and capabilities at professional services firm, Accenture. In this role, she drove the company's digital marketing transformation, nearly doubling brand value and significantly increasing revenue. Prior to Accenture, Klier served in global executive leadership roles at Microsoft for OEM Digital Marketing & Sales and Worldwide OEM Channel.

"AI-based platforms are defining the future of business and technology, and PROS is perfectly positioned to extend its market leadership as companies accelerate efforts to digitally transform how they sell," said Klier. "I am honored to join this amazing organization and excited to enable the next levels of innovation needed to meet customer and market demands."

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Sinequa appoints Mark Williams as CFO to support continued growth internationally

1 March 2021

Sinequa, a leader in Enterprise Search, today announced that it has appointed Mark Williams as Chief Financial Officer (CFO) for the business. As CFO, Williams will be charged with driving Sinequa's continued growth and supporting its international expansion with a strong commercial approach.

Mark Williams brings over 30 years of experience in hi-tech financial leadership to this new role, having worked for public and private companies across the UK, France, Sweden, and the US. Williams was part of the original team that established Seal Software in 2010, the contract analytics leader that was acquired by DocuSign in 2020. He joins Sinequa from JDX Consulting Ltd, a global service provider to the banking and financial services industry, where he held the role of CFO for the past two years. During his time there, Williams was responsible for revamping the infrastructure of the company to support it through rapid growth, as well as through business and geographical diversification.

Alexandre Bilger, president and CEO at Sinequa, commented: "*It is a pleasure to welcome Mark Williams as our new CFO. His extensive experience, and his familiarity with our business as part of our board since 2016, will be invaluable in supporting Sinequa's continued international growth.*"

Mark Williams, CFO at Sinequa, said: "*Having been a board member of the business for over 5 years now, it has been fantastic to see the progress made by Sinequa during that time, as well as develop relationships with several members of the team. I am now excited to be joining the team as CFO and start this new chapter, particularly at a time when the need for intelligent Enterprise Search is rapidly growing.*"

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Wipro appoints Philippe Dintrans as Senior Vice President and Head, Domain & Consulting, iDEAS

1 March 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced the appointment of Philippe Dintrans as Senior Vice President and Head, Domain & Consulting, of Wipro's iDEAS (Integrated Digital, Engineering, and Application Services) business.

Philippe has a successful record of delivering end-to-end business solutions, guiding customers to optimal results and lending a global perspective on business and technology disruptions, customer trends and industry convergence issues. He has led numerous large consulting engagements covering business, digital and IT transformation, as well as change management for major clients.

Philippe joins Wipro from Cognizant Technology Solutions where he was the Industries Consulting Leader. He has also held key leadership roles in McKinsey, Booz Allen & Hamilton, and Morgan Stanley. Philippe will be based in Boston and report to Rajan Kohli, President, Wipro iDEAS.

Rajan Kohli, President, Wipro iDEAS- Wipro Limited said, "I am delighted to welcome Philippe Dintrans to the leadership team. With over three decades of rich experience in leading global teams and delivering exponential business growth, Philippe is well-positioned to strengthen our industry consulting value proposition, help scale business beyond the CIO, build a world-class team and make Consulting, the business enabler for Technology and Digital services."

Philippe holds an MBA degree from INSEAD and Masters of Science in Engineering from Massachusetts Institute of Technology.

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Event News

Autodesk to Present at Upcoming Investor Conference
4 March 2021

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

March 11, 2021   Berenberg Design Software Conference 2021 – Virtual

A live webcast and replay of the presentations will be available through Autodesk's Investor Relations Website at www.autodesk.com/investors. Please go to the Website 15 minutes early to register, download and install any necessary software. For more information, please call Autodesk Investor Relations at 415-507-6373.

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Medidata Thought Leaders Discuss the Future of Clinical Trials at 2021 SCOPE Annual Meeting
1 March 2021

Medidata, a Dassault Systèmes company, announced its participation at the 12th Annual Summit for Clinical Ops Executives (SCOPE). Medidata experts will be speaking, moderating, and participating in multiple presentations and panel discussions covering a range of innovative solutions to advance clinical trial planning, management, and operations.

"Medidata is proud to remain a SCOPE Signature Sponsor, as part of our continued commitment to operations excellence. The meeting convenes an impressive lineup of thought leaders across the clinical research and development ecosystem; it's always a delight to meet and exchange ideas and information," said Anthony Costello, president, Patient Cloud at Medidata. "We look forward to sharing Medidata's new solutions that are helping to drive the digital transformation of life sciences and improve the clinical trial experience for sponsors, partners, and patients."

Presentations:

AI-Driven Site Selection, Enrollment Forecasting, and Trial Monitoring — Jef Benbanaste, product lead, Intelligent Trials. As life sciences organizations large and small are trying to enhance operational decisions and accelerate trials through the use of AI, the ability to leverage broad cross-industry trial performance data remains a big differentiator. This session will cover approaches and real-life insights around developing predictive models to drive better site selection, more accurate forecasts, and real-time tracking of clinical trials against changing industry conditions.

Improving Access to Clinical Trials Through Patient Registries — Kelly McKee, senior director, Patient Recruitment and Registries

Patient recruitment is often the rate-limiting step in bringing new therapies to market. Creating an educated and empowered community of patients prepared to participate in clinical research will dramatically transform the way participants are recruited and engaged in clinical research. Participants will learn how patient registries improve patient access, while optimizing experiences in clinical trials, and hear first-hand from a patient advocate about their experience using registries.

RBQM & Clinical Transformation: Supporting Trial Optimization During COVID-19 and

Beyond — Lisa Moneymaker, vice president, Clinical Operations Technology

As the COVID-19 pandemic continues, optimizing clinical trial operations has been a key differentiator for trial continuity. Companies with robust processes for centralized monitoring, remote data and document review, and flexible on-site interactions, were successful in pivoting during the pandemic. This discussion will focus on how Medidata and its partner Syneos Health are driving optimized trial design and execution, early risk and issue detection, and improved relationships with sites on a scale never before seen in clinical trials.

Panel Discussions and Breakout Sessions:

- Strategies for Patient-Centric Trial Design and Digital Patient Engagement — Alicia Staley, senior director, Patient Engagement

- Navigating China's Regulatory, Drug Development, and Clinical Partnering Landscape — Ari Feldman, vice president, Global Compliance and Strategy

- Decentralized and Hybrid Trials: COVID-19 as an Accelerator — Anthony Costello, president, Patient Cloud

- Advancing RBQM: Lessons from the Trenches — Lisa Moneymaker, vice president, Clinical Operations Technology

- Planning and Downstream Ops: Data Science to the Rescue — Jef Benbanaste, product lead, Intelligent Trials

- Clinical Trial Diversity for Patient-Focused Drug Development — Jackie Kent, executive vice president, Chief Customer Officer

- Regulatory-Grade Real World Data and Innovative RWD-Based Studies — Aaron Galaznik, MD, Head of Real-World Evidence Solutions

Medidata will also conduct a variety of software demonstrations and discussions at the company's virtual booth.

In addition to the presentations, panel discussions, and product exhibitions, Medidata's Patient Centricity by Design (PCbD) initiative will be honored at the 2021 SCOPE Participant Engagement Awards.

"The life science industry frequently uses patient centricity as a buzzword but promoting the idea of patient centricity without action dilutes the term's meaning and frustrates patients," said Costello. "To give real meaning to the term, Medidata established the Patient Insights team that utilizes the PCbD framework in its work. This is a formal process that infuses the patient perspective into the software development life cycle to create technical solutions that improve the overall patient experience in clinical research interactions."

Each Medidata product is reviewed and approved by patient advocates on the PCbD team. The patient advocates are paid consultants who leverage their expertise in evaluation for key points of patient inclusion, resulting in superior products and improved patient experiences.

Medidata is a wholly owned subsidiary of Dassault Systèmes, which with its 3DEXPERIENCE platform is positioned to lead the digital transformation of life sciences in the age of personalized medicine with the first end-to-end scientific and business platform, from research to commercialization.

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Financial News

Accenture to Host Conference Call Thursday, Mar. 18, to Discuss Second-Quarter Fiscal Year 2021 Results

02 March 2021

Accenture will host a conference call at 8:00 a.m. EDT on Thursday, Mar. 18, to discuss its second-quarter fiscal year 2021 financial results. A news release containing these results will be issued before the call.

To participate, please dial +1 (877) 692-8955 [+1 (234) 720-6979 outside the United States, Puerto Rico and Canada] and enter access code 4728020 approximately 15 minutes before the scheduled start of the call. The conference call will also be accessible live on the Investor Relations section of the Accenture Web site.

A replay of the conference call will be available online at www.accenture.com beginning at 11:00 a.m. EDT on Thursday, Mar. 18, 2021. The replay will also be available via telephone by dialing +1 (866) 207-1041 [+1 (402) 970-0847 outside the United States, Puerto Rico and Canada] and entering access code 5514334 from 11:00 a.m. EDT Thursday, Mar. 18 through Thursday, June 24, 2021.

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Ansys Announces Financial Results With Record Q4 and FY 2020 Revenue, ACV and Operating Cash Flow

24 February 2021

ANSYS, Inc. reported fourth quarter 2020 GAAP and non-GAAP revenue growth of 28% and 27% in reported currency, respectively, or 25% and 24% in constant currency, respectively, when compared to the fourth quarter of 2019. For FY 2020, GAAP and non-GAAP revenue growth was 11% in reported currency, or 10% in constant currency, when compared to FY 2019. For the fourth quarter of 2020, the Company reported diluted earnings per share of $2.46 and $2.96 on a GAAP and non-GAAP basis, respectively, compared to $1.91 and $2.24 on a GAAP and non-GAAP basis, respectively, for the fourth quarter of 2019. For FY 2020, the Company reported diluted earnings per share of $4.97 and $6.70 on a GAAP and non-GAAP basis, respectively, compared to $5.25 and $6.58 on a GAAP and non-GAAP basis, respectively, for FY 2019.

"Q4 was an outstanding quarter, concluding an excellent finish to fiscal year 2020. We delivered double-digit revenue growth, while maintaining industry-leading margins, despite the global disruptions caused by the COVID-19 pandemic," said Ajei Gopal, Ansys president and CEO. "I am proud of our many accomplishments in 2020, in particular, maintaining our focus on customer success. That focus throughout the year resulted in our closing of the three largest license deals in our company history. We added to our market-leading portfolio with the acquisitions of two industry pioneers, Lumerical Inc. and Analytical Graphics, Inc. (AGI). And we recently released the latest version of our product portfolio, Ansys 2021 R1, making it faster and easier than ever for our customers to innovate."

Gopal further stated, "The pandemic has reinforced Ansys' core value proposition of cost savings and improved time to market. It has fast-tracked product roadmaps requiring more simulation, and it has accelerated corporate digital transformations as more engineers work from home for the long term. As

we look ahead, these represent tailwinds to our total addressable market. I remain confident in our ability to drive strong and profitable growth."

Maria Shields, Ansys CFO, stated, "We closed out 2020 with the strongest quarterly and annual financial results in the Company's history, with our fourth quarter results exceeding the high end of guidance across all key metrics. Highlights include record quarterly and annual revenue, with the operating leverage of our business model driving strong margins and earnings. ACV, which grew 20% and 9% in constant currency for the quarter and the year, reached record levels of recurring sources at 83% for the quarter and 82% for the year. Additional notable highlights include both record operating cash flow of $547 million and deferred revenue and backlog of $967 million. These results reflect the resiliency of our business model and the incredible efforts and dedication of the Ansys employees during unprecedented times. Given the prolonged state of the global pandemic, while we remain cautiously optimistic as we look into the first half of 2021, we remain confident in our ability to continue to execute on our strategy and continue to create long-term value for all of our key stakeholders."

Financial Results

Ansys' fourth quarter and FY 2020 and 2019 financial results are presented below. The 2020 and 2019 non-GAAP results exclude the income statement effects of the acquisition accounting adjustments to deferred revenue, stock-based compensation, amortization of acquired intangible assets, transaction expenses related to business combinations, and adjustments related to the transition tax associated with the Tax Cuts and Jobs Act.

GAAP and non-GAAP results are as follows:

(in millions, except percentages and per share data)	GAAP			Non-GAAP		
	Q4 QTD 2020	Q4 QTD 2019	% Change	Q4 QTD 2020	Q4 QTD 2019	% Change
Revenue	**$623.7**	$486.2	28 %	**$627.8**	$492.5	27 %
Net income	**$215.6**	$165.9	30 %	**$259.7**	$194.7	33 %
Diluted earnings per share	**$2.46**	$1.91	29 %	**$2.96**	$2.24	32 %
Operating profit margin	**41.6** %	38.2 %		**51.6** %	48.0 %	

(in millions, except percentages and per share data)	GAAP			Non-GAAP		
	FY 2020	FY 2019	% Change	FY 2020	FY 2019	% Change
Revenue	**$1,681.3**	$1,515.9	11 %	**$1,695.5**	$1,528.4	11 %
Net income	**$433.9**	$451.3	(4)%	**$584.6**	$565.0	3 %
Diluted earnings per share	**$4.97**	$5.25	(5)%	**$6.70**	$6.58	2 %
Operating profit margin	**29.5** %	34.0 %		**43.0** %	45.3 %	

The non-GAAP financial results highlighted above, and the non-GAAP financial outlook for 2021 discussed below, represent non-GAAP financial measures. Reconciliations of these measures to the

appropriate GAAP measures, for the three and twelve months ended December 31, 2020 and 2019, and for the 2021 financial outlook, can be found in the condensed financial information included in this release.

Other Performance Metrics

(in millions, except percentages)	Q4 QTD 2020	Q4 QTD 2019	% Change		% Change in Constant Currency	
Annual Contract Value (ACV)	**$665.5**	$541.3	23	%	20	%
Operating cash flows	**$173.8**	$139.5	25	%		

(in millions, except percentages)	FY 2020	FY 2019	% Change		% Change in Constant Currency	
ACV	**$1,616.3**	$1,461.8	11	%	9	%
Operating cash flows	**$547.3**	$499.9	9	%		

ACV is a metric the Company uses to better understand the business. There is no GAAP measure comparable to ACV. ACV is composed of the following:

- the annualized value of maintenance and lease contracts with start dates or anniversary dates during the period, plus
- the value of perpetual license contracts with start dates during the period, plus
- the annualized value of fixed-term services contracts with start dates or anniversary dates during the period, plus
- the value of work performed during the period on fixed-deliverable services contracts.

Management's 2021 Financial Outlook

The Company's first quarter and fiscal year 2021 revenue and diluted earnings per share guidance is provided below. The Company is also providing its fiscal year 2021 guidance for ACV and operating cash flows. The revenue and diluted earnings per share guidance is provided on both a GAAP and non-GAAP basis. Non-GAAP financial measures exclude the income statement effects of acquisition adjustments to deferred revenue, stock-based compensation, amortization of acquired intangible assets and acquisition-related transaction expenses.

The financial guidance below reflects the Company's current estimates of the adverse impacts of the global pandemic and trade restrictions. This guidance is based on the Company's evaluation of factual information it has determined to be relevant and the application of certain assumptions made by the Company. Please refer to the Company's prepared remarks document for essential additional information regarding the Company's financial guidance, including its assumptions regarding overall business dynamics and the economic impacts of COVID-19 and trade restrictions.

First Quarter 2021 Guidance

The Company currently expects the following for the quarter ending March 31, 2021:

(in millions, except per share data)	GAAP	Non-GAAP
Revenue	$326.0 - $351.0	$335.0 - $360.0

Diluted earnings per share	$0.41 - $0.57	$0.73 - $0.90

Fiscal Year 2021 Guidance

The Company currently expects the following for the fiscal year ending December 31, 2021:

(in millions, except per share data)	GAAP	Non-GAAP
Revenue	$1,770.5 - $1,855.5	$1,790.0 - $1,875.0
Diluted earnings per share	$4.33 - $4.86	$6.44 - $6.92

The difference between the GAAP and non-GAAP revenue guidance presented above is a result of the expected impact of the application of the fair value provisions applicable to the accounting for business combinations in the amount of $9.0 million for the first quarter and $19.5 million for FY 2021.

(in millions)	Other Financial Metrics
ACV	$1,750.0 - $1,825.0
Operating cash flows	$475.0 - $515.0

Note: As compared to the Company's expectations when it most recently provided financial guidance in November 2020, certain activities shifted operating cash flow from 2021 to the fourth quarter of 2020. These activities are more fully described in the prepared remarks document.

Conference Call Information

Ansys will hold a conference call at **8:30 a.m. Eastern Time** on February 25, 2021 to discuss fourth quarter and fiscal year results. The Company will provide its prepared remarks on the Company's investor relations homepage and as an exhibit in its Form 8-K in advance of the call to provide stockholders and analysts with additional time and detail for analyzing its results in preparation for the conference call. The prepared remarks will not be read on the call, and only brief remarks will be made prior to the Q&A session. The Company will also post a complementary investor presentation titled "Q4 2020 Investor Presentation" that can be accessed by clicking Events & Presentations, then Presentations at https://investors.ansys.com.

To participate in the live conference call, dial 855-239-2942 (US) or 412-542-4124 (Canada & Int'l). The call will be recorded and a replay will be available within two hours after the call. The replay will be available by dialing (877) 344-7529 (US), (855) 669-9658 (Canada) or (412) 317-0088 (Int'l) and entering the passcode 10151940. The archived webcast can be accessed, along with other financial information, on Ansys' website at https://investors.ansys.com/events-and-presentations/events-calendar.

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Bentley Systems Announces Fourth Quarter and Full Year 2020 Results, and its 2021 Financial Outlook

2 March 2021

Bentley Systems, Incorporated ("Bentley Systems" or the "Company"), the *infrastructure engineering software* company, announced operating results for its fourth quarter and full year ended December 31, 2020, and 2021 financial outlook.

Fourth Quarter 2020 Financial Results:

- *Total revenues* were $219.6 million, up 8.2% year-over-year;
- *Subscriptions revenues* were $178.3 million, up 9.4% year-over-year;
- *Last twelve-month recurring revenues* were $696.7 million, up 10.4% year-over-year;
- *Last twelve-month recurring revenues* dollar-based net retention rate calculated under Topic 605 was 108%, the same as for the same period last year;
- *Last twelve-month account retention rate* was 98% (calculated under Topics 606 and 605 for comparability), compared to 98% (calculated under Topic 605) for the same period last year;
- *Annualized Recurring Revenue* ("ARR") was $752.7 million as of December 31, 2020, representing a constant currency ARR growth rate of 8% from December 31, 2019;
- *GAAP operating income* was $54.3 million, compared to $42.7 million for the same period last year;
- *GAAP net income* was $51.9 million, compared to $36.3 million for the same period last year. GAAP net income per diluted share was $0.17, compared to $0.13 for the same period last year;
- *Adjusted Net Income* was $52.1 million, compared to $35.8 million for the same period last year. Adjusted Net Income per diluted share was $0.17 compared to $0.12 for the same period last year;
- *Adjusted EBITDA* was $77.1 million, compared to $56.0 million for the same period last year. Adjusted EBITDA margin was 35.1%, compared to 27.6% for the same period last year;
- *Cash flow from operations* was $82.3 million, compared to $52.5 million for the same period last year.

Full Year 2020 Financial Results:

- *Total revenues* were $801.5 million, up 8.8% year-over-year;
- *Subscriptions revenues* were $679.3 million, up 11.7% year-over-year;
- *GAAP operating income* was $150.2 million, compared to $141.9 million for the same period last year;
- *GAAP net income* was $126.5 million, compared to $103.1 million for the same period last year. GAAP net income per diluted share was $0.42, compared to $0.35 for the same period last year;
- *Adjusted Net Income* was $192.7 million, compared to $135.0 million for the same period last year. Adjusted Net Income per diluted share was $0.64 compared to $0.46 for the same period last year;
- *Adjusted EBITDA* was $266.2 million, compared to $188.1 million for the same period last year. Adjusted EBITDA margin was 33.2%, compared to 25.5% for the same period last year;
- *Cash flow from operations* was $258.3 million, compared to $170.8 million for the same period last year.

Definitions of the non-GAAP financial measures used in this press release and reconciliations of such measures to the most comparable GAAP financial measures are included below under the heading "Use and Reconciliation of Non-GAAP Financial Measures." "The fourth quarter and full-year 2020 concluded to our general satisfaction, given the enduring pandemic conditions in most of the world. Our overall application usage and new business generation essentially rebounded by year end to pre-pandemic levels, and our growth in ARR and especially recurring revenues underscore our long-term momentum and predictability. The *commercial / facilities* and *industrial / resources* sectors remain

weaker, but on balance we believe we are well positioned, by our diversification and market-leading emphasis on *public works / utilities*, for 2021's broadly anticipated infrastructure investment resurgence," said Greg Bentley, CEO.

Mr. Bentley continued, "While we expect that 2020's evident acceleration in "going digital" for infrastructure engineering will continue, our first-ever annual financial outlook naturally reflects conservative assumptions about the timing of cyclical economic recovery. While we are prepared and inclined to invest resolutely in the "generational" opportunity for infrastructure digital twins, our 2021 plans and outlook nevertheless give appropriate precedence to our commitment and ability to steadily improve our sustainable operating margins, indefinitely."

Fourth Quarter 2020 Financial Developments:

- In November 2020, Bentley Systems completed its follow-on public offering of 11.5 million shares of its Class B Common Stock at a price of $32.00 per share (the "Follow-On Offering"). The Company sold 9.6 million shares of Class B Common Stock (inclusive of 1.5 million shares sold upon the exercise by the underwriters of their option to purchase additional shares of the Company's Class B Common Stock). The selling stockholders sold 1.9 million shares of Class B Common Stock. The Company received net proceeds of $294.4 million after deducting expenses of $12.9 million. The Company did not receive any of the proceeds from the sale of the Class B Common Stock sold by the selling stockholders.

- For the three months and year ended December 31, 2020, the Company reported an effective tax rate of 23.7% and 23.0% respectively.

Recent Financial Developments:

- In January 2021, Bentley Systems entered into an amended and restated credit agreement, which matures on November 15, 2025 (the "New Credit Facility"). Upon entry into the New Credit Facility, the Company obtained a $850.0 million senior secured revolving facility and refinanced all indebtedness outstanding under its former Credit Facility.

- In January 2021, Bentley Systems completed an offering of $690.0 million of 0.125% convertible senior notes due 2026 (the "2026 Notes"). Interest will accrue from January 26, 2021 and will be payable twice a year with the first payment due on July 15, 2021. The Company used $25.5 million of the net proceeds from the sale of the 2026 Notes to pay the cost of the capped call transactions and approximately $250.5 million to repay outstanding indebtedness under the former Credit Facility and to pay related fees and expenses. The Company intends to use the remainder of the net proceeds from the sale of the 2026 Notes for general corporate purposes, which may include funding future acquisitions. The Company may apply all or a portion of the net proceeds for the acquisition of businesses, software solutions, and technologies that the Company believes are complementary to its own, although the Company has no agreements, commitments, or understandings with respect to any specific material acquisition at this time. The Company has not allocated any specific portion of the net proceeds to any particular purpose and its management will have the discretion to allocate the proceeds as it determines. The Company incurred $18.0 million of expenses in connection with the 2026 Notes offering consisting of the payment of underwriting discounts and commissions, professional fees, and other expenses.

2021 Financial Outlook

The Company is providing the following outlook for the year ending December 31, 2021. The 2021 guidance herein is premised on COVID-19 pandemic-related business impacts generally abating

gradually by year end, however, the ultimate impacts of COVID-19 on the Company's financial outlook remain uncertain.

- *Total revenues* in the range of $895 million to $920 million, representing growth of 11.7% to 14.8%;

- *Constant currency ARR growth rate* of 8% to 10%;

- *Adjusted EBITDA* in the range of $285 million to $295 million, representing growth of 7.1% to 10.8%, and *Adjusted EBITDA margin* of approximately 32%;

- Its effective tax rate to be approximately 20%.

The Company does not provide quarterly guidance, but will update its full-year financial outlook when announcing quarterly operating results during 2021 to the extent expectations materially change.

The 2021 outlook information provided above includes *Constant currency ARR growth rate, Adjusted EBITDA*, and *Adjusted EBITDA margin* guidance, which are non-GAAP financial measures management uses in measuring performance. The Company is unable to reconcile these forward-looking non-GAAP measures to GAAP without unreasonable efforts because it is not possible to predict with a reasonable degree of certainty the actual impact of certain items and unanticipated events, including stock-based compensation charges, depreciation and amortization of capitalized software costs and of acquired intangible assets, realignment expenses, and other items, which would be included in GAAP results. The impact of such items and unanticipated events could be potentially significant.

The 2021 outlook is forward-looking, subject to significant business, economic, regulatory, and competitive uncertainties and contingencies, many of which are beyond the control of the Company and its management, and based upon assumptions with respect to future decisions, which are subject to change. Actual results may vary and those variations may be material. As such, the Company's results may not fall within the ranges contained in its outlook. The Company uses these forward-looking measures to evaluate its ongoing operations and for internal planning and forecasting purposes.

Earnings Call Details

Bentley Systems will host a live Zoom Video Webinar on March 2, 2021 at 8:30 a.m. Eastern Time to discuss financial and operating results for its fourth quarter and full year ended December 31, 2020, and 2021 financial outlook. The event can be accessed from the Events & Presentations page on Bentley Systems' Investor Relations website. Presentation materials will be posted prior to the webinar on Bentley Systems' Investor Relations website. In addition, a replay and transcript will be available after the conclusion of the live event on Bentley Systems' Investor Relations website for one year.

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Stratasys Releases Fourth Quarter and Full Year 2020 Financial Results
1 March 2021

Stratasys Ltd. announced financial results for the fourth quarter and full year 2020.

Fourth Quarter 2020 Financial Results Summary Compared to Fourth Quarter 2019:

- Revenue was $142.4 million, compared to $160.2 million.

- GAAP gross margin was 46.4%, compared to 49.1%.

- Non-GAAP gross margin was 49.5%, compared to 52.4%.

- GAAP operating loss was $2.5 million, compared to an operating loss of $3.3 million.

- Non-GAAP operating income was $8.3 million, compared to $10.2 million.

- GAAP net income was $11.0 million, or $0.20 per diluted share, compared to a net loss of $2.8 million, or $(0.05) per diluted share.

- Non-GAAP net income was $7.0 million, or $0.13 per diluted share, compared to $10.0 million, or $0.18 per diluted share.

- Adjusted EBITDA was $14.6 million, compared to $16.6 million.

- Generated $23.7 million of cash from operations.

Dr. Yoav Zeif, Chief Executive Officer of Stratasys, commenting on the results, stated, "Our results reflect the resilience and diversification of our business model. We delivered sequential revenue growth in the back half of the year and this quarter produced the highest operating cash flow in almost three years. We believe both our industry and company are starting to enter a meaningful, sustained trajectory of unprecedented growth and are excited to capitalize on the opportunities ahead."

Dr. Zeif continued, "In 2020, we implemented a new strategy to be the first choice for polymer 3D printing, with a specific focus on expanding into fast-growing manufacturing applications. We rightsized the company and enhanced our operating model to be application-centric, allowing our team to better leverage synergies. Stratasys is well-positioned to grow, armed with a strong balance sheet with no debt. This year we will add three new technology platforms and will continue to prudently execute on our capital allocation strategy to meaningfully accelerate revenue, earnings and cash flow as our investments begin to contribute in the years ahead and, in turn, drive value for our shareholders."

2020 Financial Results Summary Compared to 2019:

- Revenue for 2020 was $520.8 million compared to $636.1 million.

- GAAP gross margin in 2020 was 42.1%, compared to 49.3%.

- Non-GAAP gross margin in 2020 was 47.6%, compared to 52.3%.

- GAAP operating loss for 2020 was $456.0 million, primarily due to $386.2 million goodwill impairment in the third quarter, compared to $11.7 million operating loss.

- Non-GAAP operating loss for 2020 was $9.1 million, compared to $34.1 million operating income.

- Adjusted EBITDA in 2020 was $16.0 million, compared to $60.0 million.

- GAAP net loss for 2020 was $443.7 million, or ($8.08) per diluted share, primarily due to a $386.2 million goodwill impairment in the third quarter, compared to a loss of $10.8 million, or ($0.20) per diluted share.

- Non-GAAP net loss for 2020 was $13.9 million, or $(0.25) per diluted share, compared to non-GAAP net income of $30.5 million, or $0.56 per diluted share.

- Generated $27.8 million in cash from operations in 2020 compared to $11.2 million used.

Financial Outlook:

Given the dynamic and evolving impact of the pandemic on the Company's operations, and uncertainty around the timing and extent of an anticipated recovery, the Company is providing the following information based on its pipeline, current market and industry conditions, and previously communicated information:

- First quarter 2021 revenue is anticipated to track relatively similar to the first quarter of 2020.

- Second quarter 2021 revenue should approximate mid-teens percentage growth year-over-year, assuming current consumption trends and the impact of the pandemic persist.

- Full year operating expense is expected to increase over 2020 by approximately $25 million primarily due to the return from a four-day to a five-day work week as of January 1st, 2021, as well as the impact of recent acquisitions. Longer term, the Company expects to realize significant leverage benefits from its investments as revenue growth accelerates in 2022 and beyond.

- Capital expenditures are anticipated to range from $24 million to $30 million.

Stratasys Ltd. Fourth Quarter 2020 Webcast and Conference Call Details

The Company plans to webcast its conference call to discuss its fourth quarter and full year 2020 financial results on Monday, March 1, 2021 at 8:30 a.m. (ET).

The investor conference call will be available via live webcast on the Stratasys web site.

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

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Implementation Investments

Altair and Gruppo Cimbali Use Digital Twin to Boost Barista Business
1 March 2021

Altair, a global technology company providing solutions in simulation, high-performance computing (HPC), and artificial intelligence (AI) is collaborating with Gruppo Cimbali, one of Italy's leading industrial coffee machine manufacturers, to put data, simulation, and the Internet of Things (IoT) at the core of its innovation efforts by establishing a digital twin-driven development process. Altair's platform blends physics- and data-driven twins to support optimization throughout the lifecycle of Gruppo Cimbali coffee machines. This holistic simulation approach reduces the need for physical tests, shortens time-to-market, and increases the energy efficiency of the machines.

As products become increasingly complex, connected, and smarter, and the industrial equipment market more demanding, development processes must evolve to include machine learning (ML). Gruppo Cimbali has a long tradition of including cutting-edge technologies in its operations and has fully embraced the digital transformation of its development processes by utilizing digital twins – powered by Altair Activate® – to take the company's connected coffee machines to the next level.

"As an organization whose technologies blend simulation with artificial intelligence and HPC, we are excited to be part of Gruppo Cimbali's digital transformation," said James Scapa, founder and chief executive officer, Altair. "Our goal is to help our customers become increasingly more innovative by allowing them to make better decisions faster and create world-class products. As the world of product development evolves, going beyond mechanical, thermodynamics, and aesthetics, taking a holistic development approach utilizing Altair's electronics and system design capabilities will help Gruppo

Cimbali propel its product innovations to new heights."

"Our commitment to always deliver the best products has made innovation a key element in our philosophy," said Maurizio Tursini, chief productsand technologies officer, Gruppo Cimbali Spa. "The continuous investments in research and development of high-performance machines, and the Group's efforts to fully embrace digital transformation brought into existence the digital twin project with Altair."

Gruppo Cimbali is one of the first companies in the sector to expand into telemetry and offer innovative management, display, and data representation systems for WiFi-connected machines. The traditional, fully automatic professional espresso coffee machines are created based on IoT functionalities, where information about each drink crafted is added to a database along with insights about drink quality to ultimately improve daily management.

Gruppo Cimbali's high technology and innovation standards will support the R&D and engineering teams in their quest to develop the best coffee equipment with the goal to optimize performance and energy efficiency, all while reducing development time and physical prototypes.

On April 14, 2021 Altair will host its virtual ATCx Industrial Machinery event featuring a virtual coffee break with Gruppo Cimbali.

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Camatic Seating Taps Infor for Asian Expansion

5 March 2021

Infor announced that Camatic Seating, a global manufacturer of stadium, cinema and theatre seats, has selected Infor's cloud ERP software Infor LN to power its new, complex manufacturing facility in Selangor, Malaysia.

Infor's cloud solution will enable Camatic to run its business in an integrated, multi-site manner as well as manage several technology challenges, including:

- eliminate hardware upgrade cycles and associated costs
- eliminate business risks associated with in-house IT infrastructure
- shorten upgrade cycles for patches and new functionality
- improve accessibility for staff working in remote offices and from home

An existing Infor customer, Melbourne-headquartered Camatic has clients that span the globe, from the North Queensland Country Bank Stadium to the Atlanta Hawks' State Farm Arena. Other notable Camatic projects include the Sydney Opera House refurbishment, Hoyts Cinemas, Event Cinemas and Melbourne Cricket Ground in Australia, and the high-tech Mercedes-Benz Stadium in Atlanta, which hosted the 2019 Super Bowl.

"Being a global business, that makes what we do quite complex. With different time zones to manage, it's crucial that we have access to data every minute of the day from any location," says Camatic planning and production control manager Jamarl Scase.

Scase said despite the COVID-19 pandemic, Camatic is on track with plans to expand in 2021, and Infor is the ideal partner to help achieve its goals. "In our line of business, even the smallest mistake can be costly. We make thousands of seats in one go and a single error would have a big impact. We need a solution we can rely on, and our experience with Infor and Infor LN has shown that we've partnered

with the best in the industry. Infor's deep industry expertise is what we value most, as we know that each solution is purpose-built for a particular industry."

"We're thrilled that a global Aussie icon like Camatic has again chosen Infor, and this time to underpin its manufacturing operations in Malaysia," Infor ANZ managing director Jarrod Kinchington said. "The strengthening of our relationship is a result of the immense value our team and solutions have been able to deliver to Camatic over the years. We look forward to helping Camatic advance its global footprint in the cloud."

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Capgemini Invent awarded contract to continue developing the European Data Portal

1 March 2021

Capgemini Invent announced that it has been awarded by the Publications Office of the European Union a six-year framework contract to continue the development of the European Data Portal into a new service: Data.Europa.EU, along with related consultancy and research work. The new service will combine the two current European data portals, and their efforts towards facilitating open data publication and re-use across Europe.

The new Data.Europa.EU, to be launched in spring of 2021, will integrate the pre-existing European Data Portal and European Union Open Data Portal into a single, coherent core component of the public sector data infrastructure that has been set up by the European Union, its institutions and Member States. Like its predecessors, it will offer three key pillars:

- Access to public data resources across Europe via the single point of contact, which is the portal itself, offering over 1 million datasets across 36 countries, 6 EU institutions and 79 other EU bodies and agencies

- Support to EU institutions and Member States via the set-up of communities of practice of national open data portal and policy owners, training and consultancy to improve, sustain and document data publishing practices

- Evidence of the socio-economic benefits of re-using public data resources and various stimuli to foster and showcase uptake and value creation.

The goal of Data.Europa.EU is to leverage this three-pillar approach to support the creation and improvement of processes, products and services re-using public data resources to create economical, societal, political, and environmental impact. The more this impact is documented and understood, the further access, discoverability and data uptake will increase. The latest Capgemini Invent study published in 2020 as part of the European Data Portal project estimated a value between 199 and 334 billion euro in market size for open data in Europe in 2025.

"Since the original PSI Directive in 2003, European Institutions and countries started making data resources available to the public, accelerating the open data movement. Today, the maturity and the expectations around data quality, interoperability and impact creation have evolved. Over the next six years, we will enable a new leap forward, taking down barriers and increasing value creation through open data in Europe," says Volkmar Varnhagen, Managing Director for Capgemini Invent, Northern and Central Europe and North America.

Beyond delivering improvements to the pre-existing two services, the agreement will continue including the measurement of open data maturity in Europe and the socio-economic impact of open and shared

data in Europe in light of the current and planned developments. Assistance will be given equally to European countries where specific attention should be paid to improving the discoverability of data and improving data portals, to foster re-use of public data resources within each respective country and community.

Capgemini Invent leads the project's Consortium, in partnership with INTRASOFT International, including Fraunhofer FOKUS, OMMAX, con terra, 52°North, Agiledrop, Timelex, the Lisbon Council and Universidad Politécnica de Madrid.

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Duck Creek Technologies and Capgemini provide RSA with new self-serve platform for personal lines products

3 March 2021

Duck Creek Technologies and Capgemini have worked with RSA Group to implement a transformation program in the UK, delivering self-service insurance channels to the insurer's personal lines customers and partners, including some of the UK's largest building societies. Powered by Duck Creek Technologies and designed and implemented by Capgemini, it has been rolled out to RSA's MORE THAN Motor products as well as to Nationwide Building Society and Yorkshire Building Society.

At its heart, the Unity Program is a platform that empowers RSA Group to deliver flexible policies, where customers can tailor their level of coverage and pay for what they need. It is backed by simplicity to create an excellent experience throughout the customer journey, which begins at buying a policy right through to making a claim.

David Germain, Chief Information Officer at RSA Group, said, *"The successful delivery of the Unity Program reaffirms RSA's position as the preferred insurance partner of some of the best-known brands in the UK. Yorkshire Building Society's decision to become the latest brand to deploy RSA's self-service insurance functionality is further testament to this. We're pleased to have been able to support partners with the functionality to design and offer innovative, relevant and competitive insurance products to their customer base, complemented by first class service."*

"This is a milestone moment for insurance affinity propositions in the UK, and evidence of the true collaborative team effort between Capgemini, RSA and Duck Creek Technologies," said Bart Patrick, Managing Director of Duck Creek Technologies in Europe. *"Teaming with Capgemini has been transformative in driving the successful delivery of the Unity Program at RSA, and proof of the power of successful enterprise-wide digital modernization programs made on Duck Creek. Now, issues like maintaining and upgrading this market-leading digital insurance channel are the responsibility of the technology providers, leaving RSA and its affinity brand partners empowered with the evergreen technology they need to get down to the business of selling relevant insurance products."*

"It is hugely satisfying to have successfully delivered self-service and launched Yorkshire Building Society on the Unity program's platform," said James Kruger, UK Head of Insurance for Capgemini's Financial Services. *"This success was made possible through the unique combination of RSA's market-leading vision for its products and services, the core strength of the Duck Creek platform to deliver flexible, innovative products, and Capgemini's digital, Duck Creek and integration expertise to implement that vision."*

Join RSA Group UKI CIO David Germain, Capgemini Delivery Partner Wendy Williamson, and Bart

Patrick, MD of Duck Creek Technologies in Europe, LIVE on March 11, 2021 at 10 am ET/3 pm GMT to learn more about RSA's ground-breaking 'Unity' self-service platform for personal lines products.

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FROGG TOGGS ANNOUNCES STRATEGIC PARTNERSHIP WITH DESL TO DELIVER PLM SOLUTION

2 March 2021

Frogg Toggs® has selected Discover e-Solutions (DeSL) to deliver Product Lifecycle Management (PLM) software technology. DeSL is a market leader in digital transformation solutions including integrated end-to-end PLM software for the fashion, apparel, textile, footwear, and retail sectors.

As the world leader in waterproof outerwear, hunting and fishing wadewear, performance footwear, cooling products, and accessories, Frogg Toggs is challenged to remain flexible, responsive, and agile in all aspects of product creation and management. From concept to delivery, Frogg Toggs is focused on being the most dependable source to customers.

"*With so many channels, markets, and SKU's, product management has always been a challenge and a segment that consumes considerable resources. We are excited to implement this resource saving technology into our product management strategy*," attests Will Fowler, President and Director of Marketing at Frogg Toggs. Fowler listed several key factors that led Frogg Toggs to the selection of DeSL as their PLM provider.

- Simple and complete integration of technical, development, and design data onto a single, centralized digital platform
- Low storage-impact, cloud-based software solution provides data access flexibility from multiple locations and platforms
- Improve resource performance by providing streamlined processes, procedures, operational responsibility, workflows, and reduced redundancy between departments
- Allows all resources to access real-time data, communications, and progress during the product life cycle, allowing each department to plan for and complete product assignments more efficiently
- Facilitates operational efficiency, internal cost-savings, resource reallocation, and a more effective overall business model

With the signing now complete, DeSL is ready to begin the implementation process with Frogg Toggs' team. DeSL looks forward to the continuous long-term partnership with Frogg Toggs and is committed to supporting the brand's ongoing technology improvements.

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GERMAN CAR MANUFACTURER RELIES ON FASTSUITE E2

3 March 2021

CENIT's software FASTSUITE E2 demonstrates its capabilities in programming of CNC and robot laser cutting cells for high-pressure deformation.

Increasing efficiency in the engineering process: Since December 2019, CENIT's high-performance 3D simulation suite FASTSUITE E2 has been in use at the BMW Group Dingolfing, where it is deployed for programming fully automated cutting machines for high-pressure deformation of components – and it's delivering optimal results.

FASTSUITE E2 offers users a uniform, standardized interface and consistent programming methodology. The software's openness for a wide range of data formats and its easy adaptability to specific technologies were the deciding factors in BMW's testing. At the company's Dingolfing factory, two 5-axis CNC facilities, with infeed axis as well, and two 6-axis robot laser facilities are deployed for tooling of high pressure-deformed components. To increase efficiency and resource utilization within the cells, simulation and offline programming of the two different machine types can be managed by just one software solution.

 "This really enhanced the level of control over the programming process. The software's functionality for downloading and uploading the CNC and robot programs from and to each machine also satisfies the client's demands for high-performing cross-kinematic simulation and programming", says Thomas Flaig, Senior Account Manager, Digital Factory Solutions at CENIT in explaining the arguments in favor of the CENIT software. "Because FASTSUITE E2 enables standardized programming of both facility variants via an identical user interface and consistent algorithms for path optimization, the software helps reduce startup risks while ensuring maximum-quality cutting programs and a clear boost in programming efficiency", adds the CENIT expert.

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Lockheed Martin & NEC Put AI To Work on Programs Like NASA's Artemis Mission

2 March 2021

Lockheed Martin and NEC Corporation have signed a joint collaboration agreement to extend their partnership utilizing NEC's System Invariant Analysis Technology (SIAT). The companies are also finalizing a licensing agreement with a multi-year option.

With a focus on driving speed and efficiency of system diagnostics, this partnership will continue to provide proven artificial intelligence (AI) and machine learning (ML) capabilities across product lifecycles. This positively impacts design and production phases of spacecraft development, including applications on NASA's Orion vehicle for the Artemis mission.

"The power of AI is leveraged across our entire enterprise, and with a trusted partner like NEC, we gain the resources to expand its abilities at scale across our internal operations," said Rick Ambrose, executive vice president of Lockheed Martin Space. "By proactively analyzing telemetry data we are able to deliver our systems even faster and streamline the work that our employees do every day."

For several years, Lockheed Martin and NEC have been working together to evaluate the effectiveness of SIAT for early production testing and operational scenarios. As a result, Lockheed Martin has

integrated SIAT into the Technology for Telemetry Analytics for Universal Artificial Intelligence (T-TAURI) AI service. This allows the organization to drive proactive anomaly detection during the design, development, production and test phase of spacecraft development - even before applications in mission operations.

NEC's SIAT advanced analytics engine uses data collected from sensors to learn the behavior of systems, including computer systems, power plants, factories and buildings, enabling the system itself to automatically detect inconsistencies and prescribe resolutions. By integrating within Lockheed Martin's T-TAURI platform, a comprehensive time series analysis framework, the team can gain an exhaustive, holistic understanding of a system, creating a foundational system for other advanced technologies like system-level digital twins. Since the initial partnership between NEC and Lockheed Martin, the teams have already seen applications for early pathfinding to detect production anomalies and software regression testing.

"We're thrilled that the innovative SIAT developed by NEC provides value to Lockheed Martin as it addresses not only the development of complex stems, but also the uniqueness of deep space exploration," said Motoo Nishihara, executive vice president, CTO and Member of the Board, NEC Corporation. "Together, we are committed to strengthening our solution and finding new ways to apply this technology."

Proven AI Results

Lockheed Martin has already successfully applied this technology on several operations to date. For example, the team used it to analyze the unprecedented amount of data that was produced by the Orion vehicle during testing. Within a four-hour period, T-TAURI and SIAT built a model of the vehicle's normal operations from nearly 150,000 sensors to establish over 22 billion logical relationships for analysis. The resulting models can be used to monitor all future tests of subsequent vehicles to compare expected and irregular behavior to analyze consistency and aid in regression analysis. Without these advanced AI and ML tools, it would be impossible for a single engineer to analyze massive amounts of data manually at the speed needed to analyze the data in its entirety.

Going forward, AI will continue to be applied on future missions in several ways, including future ground station support for customer satellite operations as well as expanding the application for human-rated systems to demonstrate an increase in speed of anomaly detection and root cause analysis on mission.

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Phillips Lytle LLP Transforms eDiscovery Practices with OpenText
4 March 2021

OpenText™ announced that Phillips Lytle LLP has chosen the OpenText Axcelerate™ eDiscovery Cloud Platform to standardize the full-service law firm's eDiscovery process. With cloud-based hosting and OpenText cloud services support, Phillips Lytle has reduced infrastructure costs, while improving security, reliability, accessibility, and the ability to scale. Cutting-edge analytics and machine learning capabilities from OpenText also help dramatically reduce the time required to review and analyze large digital datasets, providing a significant competitive advantage.

"Prior to using OpenText, we had an on-premise solution hosted by our own servers, and also used external platforms, all of which were at varying levels of sophistication," said Phillips Lytle LLP

Partner, and Leader of the firm's Data Security & Privacy and E-Discovery & Digital Forensics Practice Teams, Anna Mercado Clark. "We recognized the limitations of hosting data on our own servers in terms of accessibility, productivity and scale, as well as the expense commitment of the law firm to maintain the infrastructure. Similar challenges existed when using a variety of different platforms. Standardizing eDiscovery operations on OpenText Axcelerate helped us address these issues."

In addition to standardizing eDiscovery operations, OpenText also dramatically reduced the cost-of-ownership for Phillips Lytle and ensures availability by hosting Axcelerate in the AWS cloud. With a cloud offering, Phillips Lytle attorneys securely log in to Axcelerate remotely, ensuring that business can operate, even as attorneys continue to work from home. With managed services support, OpenText also maintains and optimizes the platform, further simplifying operations and reducing Phillips Lytle's costs.

"It is more important than ever that legal teams can reliably and securely access critical data whenever and wherever they need to", said OpenText Chief Product Officer Muhi Majzoub. "With OpenText Axcelerate customers can take advantage of the efficiency, security, reliability, and scale of the cloud. Advanced AI and ML features also help make investigations more efficient and effective." Phillips Lytle's top priority is always client service excellence. The firm identified that manual processes and non-uniform, and at times less sophisticated, eDiscovery technology were reducing the competitive advantage of their attorneys and staff. OpenText Axcelerate provides an industry-leading toolset, including multiple forms of supervised and unsupervised machine learning integrated directly into the platform, to turn eDiscovery into a competitive advantage. Phillips Lytle attorneys and staff can now complete document review and investigations more quickly and efficiently, delivering top-tier results for their clients at a lower cost.

"The Axcelerate solution combined with our expertise has given us an edge on other firms," stated Mercado Clark. "The more we standardize the eDiscovery practice, the greater the expertise level of our attorneys, and the better we can deliver our services to the client."

OpenText recognizes the long history of innovation at Phillips Lytle, and in 2020, was pleased to name Anna Mercado Clark as an OpenText Top Voyager Champion.

STAY Builds for Growth with Infor
3 March 2021

Infor announced that luxury serviced apartments provider STAY has deployed Infor HMS property management system for its 169 apartment properties in Camden, London. The application will help deliver customer service excellence and provide a platform for new processes including flexible, contactless check-in.

Following a thorough review of the market, Infor was chosen based on specific invoicing capabilities for the extended stay sector, deep domain expertise within the hospitality industry (including references with Fraser Suites) and the ease of integration with other systems.

"We recorded a healthy 55 percent occupancy over the first three months of lockdown and since August, our occupancy has grown to 90 percent," said Sam Ghosh, vice-president of operations for STAY. "This level of activity, along with our plans to scale our operations aggressively over the coming 12 to 18 months, including a new hotel in the UK and apartments in Spain, demands software that is closely

aligned to our operations but flexible enough to grow with our business."

"The serviced apartment and extended stay market has bucked the downward trend of the hospitality industry under COVID," said Calum McIndoe, Infor Hospitality. "Our proven ability to deliver large projects remotely has allowed STAY to capitalise on this ongoing demand and deliver a premium accommodation experience in the heart of London."

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Stellar Value Chain Solutions Takes Tech-Driven Operations to Next Level, Rolls Out Infor Cloud-Based Supply Chain Solution

26 February 2021

Infor announced that Stellar Value Chain Solutions, one of the largest tech-driven consumer supply chain companies in India, has selected Infor WMS warehouse management systems to launch a minimally-configurable, digitalized supply chain service as part of streamlining its warehouse management.

Available across all distribution centres of the company, the digitalised supply chain service will offer clients enhanced transparency, visibility, cost efficiency, accelerate go-to-market strategy and leverage data analytics to identify new market opportunities.

 "At Stellar Value Chain Solutions, we have successfully initiated a tech-driven supply chain transformation across the country by setting up modern distribution centres following global best practices. Leveraging Infor's supply chain management excellence and futuristic warehouse management solutions, we have taken the transformation to the next level by rolling out a cloud-based enterprise-class Infor Warehouse Management Systems in India. This cutting-edge supply chain solution is scalable and flexible, which requires minimal reconfiguration to integrate with the clients' tech platform. It helps us offer our diversified clientele superior real-time visibility, customised services and data-driven consumer insights. Our world-class tech-enabled supply chain solution will help our clients achieve incremental growth," said Anshuman Singh, Stellar Value Chain Solutions chairman and managing director.

"Digitization is a fundamental reality for businesses today. Infor is proud to be a strategic partner of Stellar Value Chain Solution's business transformation journey to help bring disruptive change to the Indian supply chain landscape. We have the deep industry experience to understand the complexities and unique technology requirements of this dynamic and fast-evolving industry," said Ranga Pothula, Infor general manager of India business unit and senior vice president of global delivery services. "Infor's purpose-built industry-specific solutions in the cloud will deliver to businesses unprecedented visibility into inventory, orders, equipment, and people to enrich service levels, increase product velocity and ensure support for multichannel operations."

Infor WMS is purpose-built for industry, and combines advanced warehousing with highly configurable rules, built-in labour and inventory management, automated third-party logistics (3PL) billing and warehouse planning within a single, synchronized solution. This equips logistics players with enhanced operational visibility across their entire value chain, empowering them to better anticipate change and disruption, and mitigate risks where necessary.

The advanced cloud-based service powered by Infor helps Stellar Value Chain Solutions build a centralised system to manage infrastructure, equipment and labour efficiently. It facilitates uniformity in

supply chain service offerings to all industry verticals the company caters to such as fashion, lifestyle and retail, fast-moving consumer goods (FMCG), consumer durables, automotive, to name a few.

"The enterprise-class solution is adaptive to industry-specific functionalities. Infor ION offers a flexible and easy interface between clients' tech platforms and our cloud-based supply chain service. The best part of the cloud-based technology is that the majority of the process can be implemented remotely. The tech-enabled system makes scaling up the operations as per the demand growth easier," added Singh.

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TCS to Help VodafoneZiggo Accelerate its B2B Fixed Fiber Network Rollout Using AI
4 March 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has expanded its strategic partnership with VodafoneZiggo B.V. Netherlands to help the latter speed up its fixed fiber network roll out, enabling superior connectivity for subscribers and faster launch of new services.

As part of the partnership, TCS will deploy AI and machine learning technology as well as TCS TwinX™, its digital twin solution for enterprises. TCS' TwinX digital twin model will help VodafoneZiggo gain a deeper understanding of its existing network infrastructure and embrace a data-driven roadmap for the rollout of its B2B fixed fiber network.

With the power of predictive analytics, the telco will be able to identify early on, where network upgrades are needed and prioritize investment to achieve its strategic 'Go Digital' vision, which focuses on customer centricity, data-driven, digital first and agile ways of working. For instance, VodafoneZiggo will be able to model different construction scenarios, understand how quickly new networks can be built and foresee the likelihood of roadblocks that can impact this process. This will help improve investment decision making, accelerate the roll out and enhance customer experience.

"*As a people-focused business, we are fully committed to bringing valuable connections to our customers through technology innovations and providing best in class services and products*," said **Marielle Weijters, Operations Director, Technology Build – Fixed Network, VodafoneZiggo**. "*As we move to the next chapter in our partnership, TCS' deep domain knowledge of this industry and advanced technology will enable us to achieve our vision of becoming a digital telco, as well as move further along our digital transformation journey*."

"*To remain competitive in today's rapidly changing business environment, CSPs need to quickly scale up their infrastructure and innovate to launch new digital services that create more value for customers. By leveraging TCS TwinX, VodafoneZiggo will gain a better understanding of its business environment, enabling it to rapidly deploy new technologies, deliver better business outcomes and accelerate the momentum of its digital transformation journey*," said **Kamal Bhadada, Business Group Head, Communication, Media & Information Services, TCS**.

Present in the Netherlands since 1992, TCS currently partners with over 50 Dutch customers across the telecom, media and entertainment, financial services and manufacturing sectors, in their growth and transformation journeys. Earlier this year, TCS was ranked #1 in customer satisfaction in the Netherlands based on the largest independent survey of CxOs of the top IT spending organizations in Europe, conducted by Whitelane Research.

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Vinythai Public Company Limited Selects Aspen Technology Software to Accelerate Digital Transformation, Reduce Failure and Improve Reliability

1 March 2021

Aspen Technology, Inc., a global leader in asset optimization software, announced that Vinythai Public Company Limited (Vinythai), a petrochemical company based in Thailand, has selected Aspen Mtell® software to achieve business sustainability via embedded artificial intelligence. The company plans to deploy the predictive and prescriptive maintenance software at its petrochemical plants in Rayong, Thailand to reduce failure and improve reliability.

Khun Apichart Kijjaroenvisal, Plant Manager, Vinythai, said: "In conjunction with Vinythai's SMART factory, the company plans to deploy Aspen Mtell software to achieve operational excellence by saving cost and time. Aspen Mtell software will enable two of the company's petrochemical plants, producing Polyvinyl Chloride (PVC) and Vinyl Chloride Monomer (VCM), to capitalize on embedded artificial intelligence and achieve greater productivity."

Pramodkumar Lakhmapure, Area Sales Director, Aspen Technology, added: "In a fast-changing and volatile economy, businesses need to remain agile and operationally efficient. Customers need to accelerate their efforts in digital transformation by adopting the latest innovation. We are pleased that Vinythai has decided to partner AspenTech in their journey to be a more sustainable business by pursuing efficiency and productivity."

Aspen Mtell mines historical and real-time operational and maintenance data to discover the precise failure signatures that precede asset degradation and breakdowns, predict future failures and prescribe detailed actions to mitigate or solve problems via predictive and prescriptive maintenance.

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Vostok-Service Elevates Efficiency with Centric PLM

2 March 2021

Vostok-Service, the largest developer, manufacturer and supplier of workwear, footwear and personal protective equipment (PPE) across Russia and Europe, has selected Centric Software's Product Lifecycle Management (PLM), to track and improve product development and manufacturing. Centric Software provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury, home décor and consumer goods companies to achieve strategic and operational digital transformation goals.

Vostok-Service Group of Companies supplies both traditional and specialized labor protection equipment for various industries, such as: workwear and safety footwear, PPE, tools and related products.

In order to guarantee the maximum level of safety for industrial workers using its workwear and PPE, Vostok-Service must ensure that the materials selected to make each of its products meet the required protective properties, and comply with strict quality control procedures.

However, employees who wear the clothing increasingly want to look stylish, so for the past decade, Vostok-Service has taken inspiration from fashion trends to enable the creation of protective clothing that is not only durable and comfortable, but unique and well-designed.

"Due to the expanding production capacity of the company and the increase in the volume of products, we needed a modern IT solution to optimize and track production processes at all stages – from idea to production," explains Aleksey Suzdalev, Director of Production Division at Vostok-Service. "We selected Centric PLM after a serious evaluation of competitive solutions available to the market and our final choice of vendor was very deliberate. Centric PLM has wide and varied functionalities that will help us track and improve product development and manufacturing, and Centric PLM incorporates worldwide best practices."

Over five PLM vendors were considered by Vostok-Service, however, Centric's clear understanding of apparel, its approach to innovation and track record set it apart from its competitors. In addition, the success and 100% go-live rate of Centric's Agile Deployment[SM] methodology were strong differentiators.

"With the introduction of Centric PLM, we plan to reduce labor costs for product development, increase the speed of new models released and increase labor productivity," comments Suzdalev. "The creation of a 'digital twin' and a common space where specialists can communicate will drastically increase the efficiency of our work."

"We are delighted to be working with Vostok-Service to help the company grow and develop in-line with its present and future objectives, and we look forward to a long-term and successful partnership," says Chris Groves, President and CEO of Centric Software.

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Product News

3D CAD configurator for Thomson ball screws streamlines online product selection
2 March 2021

Thomson Industries, Inc., a leading manufacturer of linear motion control solutions, has announced the launch of an online selector tool that streamlines the purchasing experience for its precision ball screws. The tool helps design engineers zero in on the right part quickly, access a 3D model with just a click, view pricing and lead times, easily share orderable product specifications and take advantage of direct online orders.

"With multiple, ongoing machine design projects and frequent impending deadlines, motion systems design teams cannot afford to spend unnecessary time searching for the ideal ball screw for their applications," said Denise Goldman, Global Product Line Manager – Ball Screws at Thomson. "We are focused on enhancing user experience and ensuring that they can swiftly identify the right ball screw in the least amount of time. This new tool enables them to complete the selection process in only a few minutes."

Find the ideal ball screw with just a few clicks

To find the ideal ball screw for their application, users start by conducting their search through an intuitive, visual-based menu. They enter their application requirements and can narrow down their options to an optimal choice in just a few clicks. Further enhancements include real-time adjustments with defined filter parameters, and up-front pricing and delivery lead times. Another unique feature are

product recommendations from Thomson engineers.

Additionally, the user can access new, verified 3D models, including ball screw assemblies; catalog links; and product details, all with a single click on the results page. The streamlined process not only takes significantly less time than traditional approaches, but it also yields better results.

Ball screws, which are compact, quiet and cost effective, provide a low-friction, highly efficient technology for translating rotational motion to linear motion in many applications, including those involving high loads and close tolerances. A key offering in the Thomson portfolio of linear motion components, ball screws are available in metric, inch and miniature versions and can be configured as an assembly, which consists of a ball screw and ball nut with recirculating ball bearings. These assemblies are also featured in the ball screw selector tool.

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AMC Bridge Explores Immersive Experiences in AR with the CAD-to-AR Mobile Technology Demonstration

1 March 2021

Tailoring its technologies to meet the challenges of a fast-changing AR market, AMC Bridge releases CAD-to-AR Mobile, a new technology demonstration of having a CAD-centered augmented reality app in a smartphone.

With CAD-to-AR Mobile, a user can upload a 3D model from either local storage or external cloud storage, set up base point settings, and view the model in AR using a QR code. Moreover, the technology demonstration allows interacting with several 3D models and QR codes to capture content all in one.

To ensure a high-quality immersive experience, CAD-to-AR Mobile collaborates with the Unity® game engine and the EasyAR™ augmented reality engine.

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Enventive licenses Datakit technology for 3D CAD data import

3 March 2021

Datakit, a leading CAD Data Exchange Company, announces that **Enventive has licensed Datakit's 3D CATIA V5 import technology for use in Enventive 3D&T**, an innovative 3D tolerancing software.

Enventive 3D&T gives immediate answers on how design, datum, and tolerance choices impact functional reliability, to achieve desired quality levels. Enventive 3D&T is an **innovative 3D CAE solution** for performing mid- to late-stage tolerance analysis and variation optimization on CAD solid models. Easy to use by any product designer or engineer, Enventive 3D&T keeps analysis in the hands of those who know the design best.

"*We did an extensive evaluation. Datakit was the hands-down winner. We're pleased to be adding the capability to read native CAD files,*" says Ralph Gifford, CEO of Enventive. "*Working with Datakit through their business partner intrinSIM was a straightforward process to meet our technology and business needs.*"

"*We are excited that Enventive has chosen CrossCad/Ware as their 3D import tool for Enventive*

3D&T." Says Olivier Rigollet, of Datakit, "*Datakit has a strong history of working with a broad range of engineering applications.*"

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HCL SOFTWARE'S CLOUD-NATIVE DIGITAL EXPERIENCE AND UNICA MARKETING PLATFORMS NOW ON GOOGLE CLOUD

2 March 2021

HCL Technologies (HCL), a leading global technology company, and Google Cloud announced the expansion of their strategic partnership to bring HCL Software's Digital Experience (DX) and Unica Marketing cloud-native platforms to Google Cloud. The announcement follows the success of the initial Google and HCL Software Commerce partnership announced in June 2020.

The Google Cloud offering provides customers a cost effective and highly scalable, secure and elastic cloud deployment option with global coverage that can support deployment of HCL's DX, Unica and Commerce cloud-native platforms. DX's cloud-native capabilities allow customers to deploy world-class, business-critical solutions significantly faster than before. Organizations with the most complex customer marketing data depend on HCL's integrated cloud-native Unica marketing platform to support their precision marketing at scale. The HCL Commerce cloud-native platform delivers innovative and engaging customer experiences that go beyond the transaction.

"The collaboration between HCL Software and Google Cloud will deliver significant value for customers who want to deploy DX, Unica and Commerce from Google Cloud," said Darren Oberst, Corporate Vice President and Head of HCL Software. "With the support of our global implementation business partners, we can quickly deliver comprehensive experiences to any audience, putting our clients in the best position to deploy and scale with Google's Cloud and HCL's cloud-native solutions."

HCL DX is used by a wide range of organizations, including financial services firms, healthcare providers and government agencies, to provide a secure and personalized business-critical digital experience that is built cloud-native at scale across their multiple channels both internally and externally. Users of HCL DX on Google Cloud can take advantage of the all-new Digital Asset Manager (DAM) and developer toolkits to drastically improve productivity. When integrated with Google's Data Cloud and proven artificial intelligence (AI) capabilities, DX solutions provide actionable insights to help organizations deliver more relevant customer experiences.

HCL Unica is used by many of the world's most recognized financial services firms, healthcare providers, retail, telecom, and government agencies to provide secure and personalized business-critical multi-channel experiences. Point-and-click integrations from Unica Link and over 780 APIs simplify even the most challenging integrations, driving business results quickly when run on Google Cloud. The Unica product roadmap includes integration to many of Google's market-leading tools.

"Businesses across industries, from healthcare to banking to retail, work with HCL DX and Unica to create stronger online experiences for their customers, employees, and partners," said Avanish Sahai, Vice President, ISV and Application Partners at Google Cloud. "By bringing DX and Unica to Google Cloud, HCL Software can enrich these solutions with capabilities in AI, ML and analytics, and extend DX and Unica globally on our network. We're excited to further expand our strategic partnership with HCL and look forward to supporting DX and Unica customers."

This latest announcement from HCL and Google Cloud expands on a deep partnership between the two

companies to help organizations digitally transform. There are now three HCL customer experience products employing Google Cloud as a preferred cloud platform. HCL Commerce has seen solid success through this collaboration since its partnership with Google Cloud was announced in June 2020. Since then, several HCL Commerce customers from around the world have migrated to Google Cloud. With the addition of DX and Unica, HCL Software's financial services, healthcare and government customers and agencies have the option to move to Google Cloud. In 2019, HCL and Google Cloud announced the launch of HCL's Google Cloud Business Unit to accelerate enterprise cloud adoption worldwide. To support customers, HCL has established three dedicated Google Cloud Native Labs in New York, London and the New Delhi area. These labs provide business-focused design workshops to engage customers and develop IP and MVPs on Google Cloud across industries effectively and efficiently.

"The HCL Google Cloud Ecosystem enables product collaboration across HCL Software and Google Cloud," said Sanjay Singh, SVP & Global Head, HCL Google Ecosystem, HCL Technologies. "With the launch of HCL Digital Experience and Unica on Google Cloud, we continue to build on our portfolio of joint offerings to accelerate our customers' digital transformation and drive a superior customer experience,"

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Injecting Hope: TCS Debuts a People-Centric Solution for COVID-19 Testing and Vaccine Management

4 March 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has announced the launch of the TCS COVID-19 Testing and Vaccine Management Suite. This suite of modular, easy-to-deploy solutions streamlines every stage of the end-to-end testing and vaccination journeys, enabling more individuals to get tested and vaccinated faster and return to normal life experiences.

Behind every vaccination or test for COVID-19 is the highly complex orchestration of multiple stakeholders – from manufacturing to transportation, allocation to storage, distribution to scheduling, and reporting to monitoring. There is an opportunity to provide a seamless process across the entire value chain to prevent issues that could slow down testing and vaccinations.

In designing its new solution suite, TCS emulated the example of successful retailers and other consumer-centric enterprises and adopted their proven, people-centric approach to optimizing the testing and vaccination ecosystems. Further, given the urgency of the problem, re-purposing proven use cases from other consumer-facing industries helped speed up the design of an end-to-end solution.

"_The pandemic is changing our world in many ways, driving stakeholder collaboration across industries that share a commitment to getting testing and vaccines to everyone,_" said **Debashis Ghosh, Business Group Head – Life Sciences, Healthcare and Public Sector, TCS**. "_TCS' suite of COVID-19 Testing and Vaccine Management solutions is built to enable transparency, ease of access, and equity that will collectively accelerate a return to normalcy._"

The TCS COVID-19 Testing and Vaccine Management Suite leverages AI, robotics, blockchain and the Internet of Things (IoT), as well as TCS' extensive network of leading technology partners. This suite transforms all five stages of the testing and vaccination journeys: research & manufacture, allocate & transport, store & distribute, schedule & administer, and monitor & re-open. It enables ecosystem participants at each of these stages to seamlessly share critical information among themselves while

complying with privacy and consent regulations, and to scale up their operations so communities receive the required quantities of tests and vaccines. The suite includes the following key capabilities:

Research & Manufacture: A drug development platform for life sciences companies that provides faster access to new vaccines. The platform is powered by TCS' cognitive AI engine, data driven smart analytics and IoT to make clinical trials more agile and safe.

Allocate & Transport: Ensures secure transfer of controlled pharmaceuticals with real-time track and trace, and temperature monitoring through IoT and blockchain technology that integrates with ERP systems, and machine learning to monitor and optimize vaccine shipments**.**

Store & Distribute: Addresses challenges with the vaccine supply chain, including demand planning, supply visibility, and cold-storage handling. Enables digital ecosystems to provide faster access to vaccines.

Schedule & Administer: Improves customer engagement and provides transparency to vaccine administration and scheduling. Supports transportation coordination, contactless experiences, and patient surveys.

Monitor & Re-open: Offers an interoperable analytics platform that provides a view of patients and their vaccinations. In addition, the platform facilitates seamless travel, public gatherings, and safe office environments via secure orchestration of mandatory testing and inoculation data across stakeholders.

The COVID-19 Testing and Vaccine Management Suite is powered by TCS PACE^{TM}, which brings together the best of TCS' innovation assets and practices.

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Mastercam Mill Developments Target a Streamlined Manufacturing Process
2 March 2021

Mastercam Mill offers expanded machining flexibility and an increased emphasis on speed and automation. Multiaxis features, 3D enhancements, and 2D high speed toolpaths combine with dozens of additional new enhancements in a software package intended to improve shop floor productivity.

Here are some of the significant highlights and new functionality in Mastercam Mill:

Multiaxis Improvements
Maintaining climb and conventional machining is crucial for surface finish and tool life. Controlling Climb and Conventional Cutting for Morph, Parallel, Unified, Project Curve, and Flow toolpaths now provide constant control of climb or conventional cutting even while in complex areas that would require use of both sides of the tool.

The new 3+2 Automatic Roughing toolpath automatically makes multiplane 3-axis toolpaths for roughing. Mastercam analyzes the model and stock, and then creates a roughing toolpath. Mastercam calculates the remaining stock and computes a new toolpath. This continues until only a defined amount of stock remains, and results are all contained within one toolpath.

Multiaxis Roughing has been enhanced and renamed to Multiaxis Pocketing and includes new options such as undercut roughing, wall finishing, and floor finishing. Multiaxis Pocketing provides greater control of the tool contract point and machining angle when using Accelerated Finishing® tools and ensures that you get the best possible motion.

The new Unified Multiaxis toolpath allows you to select multiple pieces of input geometry to generate

the toolpath pattern. Then, using those geometry choices, the toolpath picks the best algorithm to calculate the path.

3D Enhancements

Mastercam's 3D High Speed Blend toolpath includes many enhancements including the ability to keep created passes equidistant in 3D by adding cuts in steep areas, the capability to set the exact number of cutting passes, reverse cutting direction, confining curves to Tool tip or Tool contact point, as well as two new methods in the Cut method options. By applying Automatic and Custom Angles to Raster Toolpaths, Mastercam now automatically sets different angles to maximize the length of the cut pattern and/or minimize the connecting moves.

2D Enhancements

Advanced Drill, a new toolpath, is a customizable multi-segment drill cycle that is useful for spot drilling, deep hole drilling, and back spot facing. Each segment of the drill cycle can be defined in a table, and for each segment, you can customize any or all conditions. The new Chamfer drill uses tools with a tip angle and chamfers holes after calculating the correct depth based on the desired width or depth. It also allows you to select holes of different diameters or sizes—or that lie in different planes—and machine them in a single operation with a single tool.

Additional Improvements in Mastercam Mill that benefit efficiency include:

- Improved toolpath processing time and surface accuracy for many Multiaxis toolpaths.
- Toolpath Hole Definition has multiple new enhancements.
- A new function, Check Tool Reach, can check your tool and holder against selected model geometry to view where the tool can and cannot reach.
- In 2D Dynamic Mill, users are now able to skip pockets based on tool diameter or pocket size.
- Contour enhancements such as additional Spring pass improvements and Profile ramping for Lead In/Out moves.
- Setting separate feed rates for Entry and Exit linking moves.
- And much more.

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Materialise Adds LAAO Capabilities to Mimics Enlight Cardiovascular Planning Software Suite
2 March 2021

Materialise, a global leader in medical 3D printing and planning solutions, has added new technology to support left atrium appendage occlusion (LAAO) procedures to its Mimics Enlight cardiovascular planning software suite. Making it possible to leverage the Mimics Enlight 3D planning technology for this procedure to mitigate risk and improve efficiency.

LAAO is a last resort procedure for atrial fibrillation (AFib) patients, in which the cardiologist inserts a device into the heart to prevent stroke when in AFib. The device shuts off and regulates blood flow from the heart's ill-performing appendage, and can reduce the risk of an AFib-related stroke by up to 70 percent.

Each LAAO procedure is unique to the patient's individual anatomy, making procedural planning crucial to the successful implantation of LAAO devices. Accurate measurements during planning are vital for a successful procedure, due to the patients' increased risk for stroke following the initial

clotting in the heart's appendage. Mimics Enlight's 3D visualization give physicians an advantage by allowing them to easily and accurately measure the appendage depth and position the closure device. The 3D visualization can give a better appreciation of device position and delivery compared to 2D imaging alone.

Mimics Enlight is based on the strengths of Materialise's Mimics Innovation Suite, which has helped clinicians produce patient-specific 3D models for more than 20 years. Created in collaboration with Henry Ford Health System in Detroit with Dr. Dee Dee Wang, MD, FACC, Director of Structural Heart Imaging, and leveraging the Henry Ford Innovation Institute's patented workflow, Mimics Enlight is intended to support patient selection and planning for structural heart and vascular therapy. The software is the first of its kind to include consistent methods of taking critical measurements and enables clinicians to reliably plan and screen patients for cardiovascular procedures. 3D printed models and on-screen 3D planning tools are increasingly used in the procedural suite. Pre-procedural planning is essential to increase speed and accuracy during these critical procedures.

"While Materialise Mimics Enlight is not the only structural heart planner on the market for this procedure, we are unique in offering 3D planning technology,"

said Janelle Schrot, Market Manager Cardiovascular of Materialise Medical. "We give physicians the advantage of working on segmented 3D models rather than relying on 2D images and volume rendering alone. These 3D models provide unique insights into patient anatomy and challenges that the anatomy may present during the procedure. They are a key to success in creating a fast, repeatable process to planning challenging left atrial appendage closures. This combines with our online case sharing portal to improve physician communication and enable even higher utility of the case plan."

This is the second cardiovascular solution within the Mimics Enlight software suite. In 2019, Materialise launched Mimics Enlight with software supporting complex transcatheter mitral valve replacement (TMVR) procedures.

Materialise, a leader in medical software solutions and 3D printing services, helps medical professionals improve procedural planning and communications through innovative 3D solutions. With Mimics Enlight, clinicians and hospitals will be able to scale their 3D modeling solutions for cardiovascular procedures, knowing they are working with a trusted partner in the medical device field.

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MODELON IMPACT 2021.0 RELEASE HIGHLIGHTS

26 February 2021

Modelon is pleased to announce the release of Modelon Impact 2021.0. This release delivers significant improvements and critical features that are accessible to current and new subscribers.

VEHICLE DYNAMICS LIBRARY NOW AVAILABLE

Modelon's Vehicle Dynamics Library is seamlessly integrated and accessible in Modelon Impact 2021.0. Now, users will be able to access Modelon's world-class comprehensive library of predefined vehicle components, related to mechanical design and control design. Learn more about Vehicle Dynamics Library.

AIRCRAFT DYNAMICS LIBRARY NOW AVAILABLE

Modelon's Aircraft Dynamics Library is seamlessly integrated and accessible with Modelon Impact

2021.0. Now, users can use the extensive library of pre-defined components to design and assess the entire aircraft package – hybrid-electric propulsion concepts, flight dynamics, detailed landing gear design and analysis, and performance of complex aircraft systems. Learn more about Aircraft Dynamics Library.

SUPPORTING LARGE SCALE PARAMETER SWEEPS

Modelon Impact's new micro-service architecture enables users to distribute compilation and simulation jobs on a cluster – executing larger simulations faster. Users will benefit from:

- Creating experiments – define the sequence, manage experiments, and save back to the model.
- Filter results – filter with a view or text pattern to control the size of the result.

MODELON IMPACT API ACCESS SUPPORT

Users can now connect and programmatically interact with Modelon Impact using the Python Client Library. By installing the Modelon Impact Python package users can create and automate custom workflows.

ADDED FEATURES AND ENHANCEMENTS

- Improved Performance
  - Fast user-interface – open large models quickly, enabled by the new architecture design
  - Faster compilation – a more efficient compiler
  - Faster simulation – more efficient code generation
- Model Utilization Support
  - Dynamic optimization toolchain upgraded to Python 3
  - Dynamic optimization toolchain support of encrypted libraries
  - Scripting support of FMU save state
- Improved Plotting Functionality
  - Explore cause and effect, using xy plot
  - Compare results between models, using pin plot concept
- Improved Usability
  - Parameter dialog – support for modifying parameter types
  - Improved version management – switch between library versions using a drop-down menu
  - Support for Imperial units – larger set of units to choose from
  - Support for templates – configure templates for a more efficient workflow
  - Export an FMU from the user-interface
  - New icon editor – create icons for your models – draw or import your own image
  - New documentation editor – write and embed documentation in your model

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OpenText Delivers Endpoint Detection and Response in the Cloud

3 March 2021

OpenText™ announced OpenText™ EnCase Endpoint Security is now certified on Microsoft Azure. With OpenText endpoint detection and response (EDR) capability in the cloud, security professionals can identify, investigate, and remediate threats faster.

"As organizations shift operations to the cloud, security and investigative teams must keep pace," said OpenText Chief Product Officer Muhi Majzoub. "With EnCase Endpoint Security on Microsoft Azure, organizations can comprehensively detect and respond to insider and external threats in the cloud or on premises."

To effectively, monitor, investigate and respond to threats in the cloud, security technology must have brokered access directly with the cloud provider. With OpenText EnCase Endpoint Security on Azure, security teams can:

- Identify threats more quickly – With the ability to monitor user and application interactions and identify suspicious behaviors on cloud endpoints, security teams can detect signs of malicious activity more quickly using detection rules aligned to the MITRE ATT&CK Framework.

- Complete full incident investigations in the cloud – Complex cyber responses often involve detailed investigations as part of a comprehensive recovery. With EnCase Endpoint security, security teams can more fully investigate evidence of compromise in cloud repositories like file storage and sharing systems.

- Respond more completely – Compromised endpoints in the cloud require proper remediation. EnCase Endpoint Security helps organizations to fully reveal and remediate all aspects of a threat to resume operations quickly.

"In today's environment, endpoint and cloud security are a top priority for Microsoft and for the enterprise," said Kirk Arthur, Senior Director, Business Development, Worldwide Public Safety & Justice at Microsoft. "As more and more customers are accessing and reviewing digital forensic data in the cloud, having tools like OpenText's EnCase Endpoint Security on Azure provide not only an extra layer of protection to safely and securely do their investigations, but also a means to expedite criminal investigations."

OpenText will showcase the new offering this week during Microsoft Ignite. With the addition of EnCase Endpoint Security, the full suite of OpenText EnCase products is now available on the Azure marketplace for enterprise security, digital investigations, and law enforcement customers.

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Optimize or Transform? TCS' New Digital Suite Empowers Germany's Mittelstand to Accomplish Both

3 March 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, has launched the TCS Mittelstand Enterprise Suite, a ready-to-deploy, modular set of services and solutions, designed specifically for German medium-sized and family-owned companies in

the manufacturing industry.

The TCS Mittelstand Enterprise Suite includes services and solutions for IT infrastructure transformation, application management, digital workplace, business processes as well as strategic industry solutions for supply chain management, employee safety and the Industrial Internet of Things.

The pre-configured modules can be customized, easily integrated into existing IT systems and are scalable. The suite helps enterprises gain faster and superior business outcomes, build operational resilience, accelerate innovation, embrace new business models and drive growth.

The new suite will be delivered with the same proven shared services model that TCS' larger enterprise customers have benefitted from, using TCS' teams of Mittelstand and digital experts at global and regional delivery centers, such as in Düsseldorf. Additionally, TCS offers a comprehensive portfolio of cloud solutions leveraging its own data center in Frankfurt, as well as partnerships with all the major public cloud and software providers.

"TCS' new Mittelstand Enterprise Suite helps medium-sized companies simultaneously address the twin imperatives of cost optimization and digital transformation for future growth. Customers will get the full benefit of our deep domain knowledge in manufacturing and our investments in a comprehensive portfolio of industry-leading solutions," said Santu Mandal, Head, Manufacturing Business Unit, TCS Germany. "Our shared values around entrepreneurialism, innovation, customer-centricity and social responsibility make TCS the ideal long-term partner for the Mittelstand in their growth and transformation journeys."

Present in Germany since 1991, TCS currently partners with over 100 leading German corporations in their growth and transformation journeys. TCS was ranked as the number one IT services provider in Germany for customer satisfaction in an independent survey of CXOs by Whitelane Research. TCS was also recognized as a Top Employer in Germany by the Top Employers Institute.

Medium-sized and family-owned companies make up over 99 percent of all the companies in Germany. The Mittelstand, often described as the heart of Germany's economy, accounts for about 35 percent of the total turnover and almost 60 percent of all employees.

PROS Dynamic Offers Liberates Airlines From Legacy Barriers to Accelerate Airline Retailing
2 March 2021

PROS®, a provider of AI-powered solutions that optimize selling in the digital economy, today launched PROS Dynamic Offers, a complete offer management solution giving airlines full ownership and control to offer science-based products and services to passengers across all digital and direct channels. With PROS Dynamic Offers, airlines break down legacy barriers to end-to-end offer creation and static class-based pricing, delivering the most relevant offers across seat, fare and ancillaries to travelers, with a solution designed to increase conversion rates and drive greater revenue.

In the wake of 2020, airlines are seeking to grow by 2.8 billion passengers in 2021[1] and carriers do not want to miss out on the pent-up demand for travel experiences. Innovative airlines continue to invest in digital solutions to be more agile and engaging with prospective passengers, with a sharp focus on delivering highly personalized offers that drive conversion, regardless of channel.

"Airlines need to embrace omnichannel retailing to be best positioned to serve a changing customer landscape," said PROS Principal Surain Adyanthaya. "By bringing together the power of revenue management, offer creation and distribution – powered by PROS dynamic pricing – airlines can deliver a frictionless, revenue optimal shopping experience for customers, meeting their expectations today, while building greater brand loyalty over time."

PROS Dynamic Offers is an integrated best-in-class offer management solution that brings PROS state-of-the-art AI to shopping, pricing, and merchandising capabilities so airlines can:

- **Build Optimal Products and Bundles** – increase customer conversions with a simplified offer creation process that provides the most personalized and relevant product and service offerings for each customer

- **Generate Prices Dynamically**– maximize revenues with science-powered dynamic pricing to deliver the most relevant offers that meet customers' willingness-to-pay

- **Scale and Optimize Distribution**– optimize distribution cost and increase look-to-book conversions with scaled distribution across digital and direct connect channels

"Dynamic offers will be critical, especially in the context of NDC and ONE Order, to drive retail transformation in the airline industry," said IATA Head of Dynamic Offers Sebastien Touraine. "As airlines are able to move to true offer and order management solutions, they will have access to the flexibility and control they need to dynamically bundle products and services in real time, which will in turn drive more passenger conversions."

PROS Dynamic Offers is part of the PROS Platform for Travel, which empowers airlines to create and sell the most personalized package for each traveler in an increasingly complex marketplace. With PROS, airlines can optimize every shopping and selling experience, make better business decisions, respond quicker to market changes and accelerate revenue growth while harnessing the power of digital retail.

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Shapr3D Moves From "Imagination to Production" With Drawings Feature and New Packaging
1 March 2021

Shapr3D announces the release of their highly anticipated Drawings feature as well as brand new pricing tiers. Having already shaken up the industry with their mobile-first, ultra-intuitive CAD solution, the Drawings launch positions Shapr3D as a one-stop shop solution for design focused companies who manufacture industrial goods.

With Drawings, Shapr3D now supports the full concept-to-manufacturable-drawing journey, in the same easy and mobile CAD that users around the world fell in love with for creating 3D models. This will empower many users, particularly Mechanical Engineers, Industrial Designers, and Design Project Managers to spend less time jumping back and forth between platforms and more time on work that matters, not to mention saving up to thousands of US dollars on extra tools.

Drawings will be exclusively available on Shapr3D's new Business plan — which is being unveiled today and will replace the Pro package — for $499/year or $59/month. Business users will be able to create 2D views from a 3D body and save them as DWG or DXF files. The plan also includes unlimited CAD imports/exports, designs, and workspaces — as well as seamless integration with your desktop CAD.

With its newly differentiated pricing tiers and Drawings offering, this defining moment in Shapr3D's journey promises to disrupt the way businesses use CAD the same way the company revolutionized the industry so far with its mobility and UX obsessed platform.

István Csanády, Founder and CEO of Shapr3D , confirms the company's new focus, "First, we created an unforgettable CAD design experience for CAD users. Now we're going to do the same and more for businesses." He elaborates: "Shapr3D will be the go-to app for design focused companies looking to easily envision, design, and manufacture industrial goods. Every new feature takes us one step closer to rivaling traditional CAD giants, but with our direct modeling approach and an unwavering commitment to UX that sets us miles apart."

The new pricing comes into effect on March 8th, and existing Pro users will be upgraded at no extra cost to the business package as long as their account is active. Prospective users can also take advantage of Shapr3D's special promotion in the run-up to the new release: anyone purchasing the Pro version between now until March 8 will only pay $249 and will be eligible for the automatic upgrade, too.

Alongside the business plan, Shapr3D also introduces its Hobby package, priced at $149/year or $30/month, which comes with STL export for 3D printing, 10 workspaces, and will be available for personal use.

Industry Expert Quotes:

"The addition of Drawings completes Shapr3D's design capabilities to support concept to manufacturing. Now all key roles in the design process from Product Managers, Engineering Managers, Industrial Designers, Mechanical Engineers, and Manufacturing can take full advantage of Shapr3D's intuitive user interface, with the flexibility of using any device they like," says Michelle Boucher, Vice President of Engineering Software Research at research firm, Tech-Clarity . "Plus, the tiered pricing means they can take advantage of it at a very affordable price."

"Shapr3D is developing a tool that's built from the ground up for capturing ideas and using the power of three dimensional design to progress those ideas and concepts further – on a platform and with an input method that's long underserved in the design and engineering software market. The addition of the ability to then document those ideas using the new drawing capabilities makes it even more useful," adds Al Dean, Editor in Chief, DEVELOP3D

"Shapr3D delivers a refreshing change for those frustrated by the complexities and user interface legacies of some other CAD tools. For those that love their Apple products, iPads and Macs; they'll feel particularly at home, possibly even delighted with the user interface. Their recently (and soon to be) released functionality is an intriguing evolution of the platform, aiming to be much more in tune with the needs of those involved in product design, engineering and manufacturing." Allan Behrens, Managing Director, Taxal Limited

Synopsys Announces Euclide to Accelerate Design and Verification Productivity
3 March 2021

Highlights:

- Interactive and incremental analysis enables early detection of design bugs
- Correct-by-construction coding ensures RTL compatibility for Design Compiler and ZeBu

- Real-time checks help to avoid costly testbench errors and increase VCS performance

- Integration with Verdi for seamless debug and code development

- Built-in SystemVerilog/UVM compliance assures best coding practices across verification teams

Synopsys, Inc. introduced Synopsys Euclide, the industry's next-generation hardware description language (HDL)-aware integrated development environment (IDE). Synopsys Euclide enables engineers to find bugs earlier and optimize code for design and verification flows by identifying complex design and testbench compliance checks during SystemVerilog and Universal Verification Methodology (UVM) development.

Euclide accelerates correct-by-construction code development through context specific autocompletion and content assistance that is tuned for Synopsys VCS® simulation, Verdi® debug, ZeBu® emulation, and compatible with Design Compiler® NXT synthesis solutions, helping engineers to improve code quality during the entire project development cycle.

"The on-the-fly design and testbench checks in Synopsys Euclide have helped us in unmasking critical bugs otherwise identified at late design stages," said Assaf Shacham, Senior Hardware Engineering Manager at Microsoft Corporation. "In addition, the efficiency of our experienced design and verification engineers, as well as the learning curve of new engineers has significantly improved by using the various IDE coding acceleration and code exploration features."

Ever-increasing system-on-chip complexity requires robust and error-free design and testbench code. The advanced algorithms in Synopsys Euclide enable running high performance compilation, elaboration and pseudo-synthesis that provide real-time feedback to improve design and testbench quality at the time of code development. The innovative engine architecture allows incremental analysis, error recoverability and produces advanced feedback on incomplete code. Identifying bugs early helps to avoid unnecessary simulation cycles, lengthy debug sessions and chip re-spins.

"Synopsys Euclide is a unique, innovative and highly interactive code development platform that accelerates design and testbench development for VCS users." said Sandeep Mehrotra, vice president of engineering in the Verification Group at Synopsys. "With Euclide, engineers can detect bugs early, ensure RTL code compatibility with Design Compiler and ZeBu, and optimize simulation performance with VCS."

Availability and Resources

The Synopsys Euclide on-the-fly code checking solution is available now. VCS and Verdi users can easily adopt the solution using existing project files and scripts.

Trimble Introduces Siteworks SE Starter Edition Site Positioning Software for Construction Surveying
3 March 2021

Trimble introduced the Trimble® Siteworks SE Starter Edition, an entry-level, easy-to-use construction surveying software at an affordable price point. Using a construction GNSS receiver, a supervisor, foreman, grade checker or site engineer can easily check a grade, slope or alignment and navigate the project more accurately and in less time than with traditional survey methods. Budget-conscious contractors can realize a quick return on investment by giving more personnel on the jobsite access to

survey technology, enabling more productive and efficient field crews.

Low-Cost, Scalable Construction Surveying

Trimble Siteworks SE Software is a simplified version of Trimble Siteworks Software, intended for users who do not require a full feature set and are interested in a lower-cost version to connect to GNSS only. The same colorful graphics, natural interactions and gestures, and self-discovery features found in Trimble Siteworks make the software easy to learn, so both experienced and new users can get up-to-speed quickly.

Using the same data folder structure, file formats and workflows, Trimble Siteworks SE Software is fully compatible with Trimble Siteworks Software. Contractors can easily upgrade to the full version, making Siteworks SE an ideal entry point into construction technology for surveying.

"The Trimble Siteworks SE Starter Edition is an important addition to our site positioning portfolio," said Scott Crozier, vice president of Trimble Civil Construction, "With a lower cost-of-entry, the software is scalable and makes it easy for contractors to upgrade to more advanced Trimble Siteworks Positioning Systems as soon as their needs change."

Powerful Software, Flexible Hardware

Trimble Siteworks SE Software is ideal for contractors who want to determine their location on a project, see cut/fill values to a design surface or alignment, or visualize constructible models in 3D. Users can easily measure feature (non-surface) points, lines and areas, or navigate to points, lines and alignments, and create PDF reports. In vehicle mode, users can capture high-accuracy measurements on steep slopes from a moving vehicle. Trimble Siteworks SE is compatible with a wide range of GNSS hardware configurations to meet the contractor's business needs and budget requirements.

Connected Construction

By connecting the field and the office, contractors can improve efficiency and productivity, while minimizing wasted time and expense. Trimble Siteworks SE can share up-to-date information wirelessly between the field and the office to increase operational efficiency and reduce downtime.

Availability

Trimble Siteworks SE Starter Edition Software is now available globally through the worldwide SITECH® distribution channel.