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CIMdata News

CIMdata Announces eBook on Collaborative Research on the Benefits and Challenges of Cloud/SaaS PLM Adoption

6 May 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the publication of a new eBook that summarizes the results of a multi-sponsor collaborative research program focused on the business benefits and challenges offered by the adoption of a Software as a Service (SaaS) PLM delivery model. Partners in this research effort included Dassault Systèmes and three other leading PLM solution providers.

In many leading companies, legacy PLM implementations have often been installed on-site and often experience implementation delays due to complex installation requirements. Over time, heavy customizations can also be challenging to maintain and adapt to changing business requirements. In smaller companies, PLM is often ad-hoc, primarily using Microsoft Excel and shared file services in support of product development. For both, the product development processes are found lacking, unable to support the agility requirements of business today.

This collaborative research program focused on helping answer vital questions about industrial companies' ongoing and planned Cloud/SaaS-related PLM efforts. The eBook highlights the issues faced by industrial companies looking to make this move and includes sponsor information about how they address these issues, including customer vignettes and links to more information.

According to Mr. Stan Przybylinski, CIMdata's Vice President and leader of CIMdata's research program, "In our 2017 cloud study, about one-third of the participants believed they would move to the cloud in the next two years. If our respondents to this new survey are representative of the broader population, nearly 30% have already made the move, and 86% of our respondents either already moved, plan to move in the near future, or have strongly investigated their options. This result agrees with our work with our industrial consulting clients and in our interactions with the leading PLM solution and service providers who claim a huge increase in interest and growing adoption. This is great news for the PLM Economy."

Mr. Vincent Frerebeau, Director of Dassault Systèmes Cloud Worldwide, agrees about the increasing demand for cloud solutions and cites the growing needs of manufacturers: "Today's complex product development process requires more than just design data management. The 3DEXPERIENCE platform, along with specialized, process-based solutions for product lifecycle management (PLM) and design collaboration, can help completely reimagine how products are developed and projects managed."

To get your copy of the Dassault Systèmes eBook, please use this link: <https://discover.3ds.com/leveraging-cloud-global-market-success>.

CIMdata Publishes eBook: "PLM Upgrade Study"

5 May 2021

CIMdata, Inc., the leading global PLM strategic consulting and research firm, released a new eBook reviewing the results of an industrial PLM user study focused on quantifying the impact of PLM upgrades. The study was based on a data-gathering survey executed in Q1 2021 to get input from a wide variety of industrial companies using a variety of PLM solutions.

The results presented in this eBook leverage knowledge and key conclusions from earlier CIMdata research on product innovation platforms, PLM solution obsolescence, and the PLM Value Gap. The

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eBook compares how often the participating industrial companies upgrade their PLM solution, the cost of the upgrades, how long they take, and how customizations impact upgrades. A qualitative measure of upgrade difficulty ranging from very difficult to very easy was also captured and reported.

According to Mr. Tom Gill, PLM Enterprise Value & Integration Knowledge Council Manager, “Keeping a PLM platform up to date is critical in today’s fast-paced world as solution providers are continually releasing new and innovative capabilities. We were thrilled to get the opportunity to quantify the state of PLM upgrades in industrial companies. While we had a sense of the impacts of upgrades from our consulting work with industrial clients, it was interesting to see the data quantified.”

To learn more about the PLM Upgrade Study and how mindshare leaders scored, please download and read the complete eBook at <https://www.cimdata.com/en/resources/complimentary-reports-research/white-papers>.

CIMdata Releases eBook on Accelerating Digital Transformation with the Vertex Platform

6 May 2021

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the release of an eBook “Accelerating Digital Transformation with the Vertex Platform,” focused on how Vertex Software’s platform enables business units throughout manufacturing companies to bring 3D data into their enterprise systems.

With the Vertex Platform, manufacturers can build and deploy purpose-built, 3D digital twin applications with extremely low ownership cost in under 30 days. Vertex provides a 3D cloud-native visualization platform that allows any team in the extended enterprise to build and deploy applications that provide instant access and interaction with real-time 3D product data of any size, on any device, for multiple use cases. Companies can integrate the Vertex visualization engine directly into their existing interface, applications, and systems.

According to Ken Versprille, Ph.D., Executive Consultant, CIMdata, “Downstream applications are undergoing a renaissance with their focus on the digital twin. At the center of this revitalization is 3D product model visualization. The Vertex Platform is positioned to meet the challenges of leveraging 3D data. As a cloud-based, 3D visualization solution that provides instant access and collaboration on any 3D product data on any device, Vertex offers companies an outstanding instrument to accelerate their journey toward realizing and leveraging their product’s digital twin.”

To download the eBook, visit <https://www.cimdata.com/en/resources/complimentary-reports-research/white-papers>.

For more information, please contact CIMdata at info@cimdata.com.

Acquisitions

3D Systems Announces Two Strategic Growth Acquisitions

6 May 2021

3D Systems announced targeted investments to *address rapidly expanding application opportunities for additive manufacturing (AM) in medical and high-reliability industrial applications*. These investments are another important step in the company’s aggressive, four-phase initiative to reorganize, restructure, divest non-core assets, and invest for accelerated growth, which was announced in August of 2020.

Investment for Growth in Regenerative Medicine through Acquisition of Allevi

In January of this year, following three years of intense development efforts, 3D Systems **announced a**

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significant breakthrough in its regenerative medicine program, targeted toward the printing of solid human organs (e.g., lungs) through a partnership with United Therapeutics. Referencing this progress, the company also announced plans to expand its regenerative medicine efforts to capitalize on this breakthrough technology, applying it in parallel to nearer-term, non-organ human applications.

With the company's continuing progress toward in vivo regenerative medicine applications, there exists a further opportunity to extend this technology to meet the growing near-term demand for **advanced bioprinting solutions** in medical and pharmaceutical research & development laboratories. These labs increasingly use 3D bioprinting to create three-dimensional cellular structures that imitate natural tissues, bones, and blood vessels in the body, facilitating the in vitro study of regenerative medicine and the development of new drug therapies. To accelerate this laboratory focus, the company is pleased to announce the acquisition of Allevi, a Philadelphia, Pennsylvania-based developer of bioprinting solutions, comprising 3D bioprinters, biomaterials (also known as bioinks), and specialized laboratory software. Founded in 2014, Allevi has established a strong technology base, brand, and distribution network for this rapidly emerging market, with a presence today in over 380 medical and pharmaceutical laboratories in more than 40 countries. As a complete solutions provider, Allevi's business model aligns well with 3D Systems, and they are well-positioned to leverage the technology that the company has developed for in vivo applications to meet laboratory needs on an expanded scale.

This acquisition positions 3D Systems to effectively address a broad spectrum of applications in the rapidly evolving field of regenerative medicine which is projected to grow by more than 15% per year by multiple research houses, including Medgadget, Research and Markets, and Allied Market Research, and could surpass \$18 billion by 2025. Through the addition of Allevi's technologies and expertise, 3D Systems plans to develop laboratory and human applications in the near-term and medium-term, and enable the development of human organs in the long term. With these building blocks in place, and the pace of development activities toward specific, high-impact applications rapidly accelerating, the company is uniquely positioned to be a leader in this emerging medical market.

Accelerating the Adoption of Industrial-Scale Additive Manufacturing through the Acquisition of Additive Works

Industrialization of additive manufacturing has been enabled by the maturing of metal and polymer printing technologies, and the rapid expansion of printable materials that are well suited for use in industrial equipment and high-reliability systems, as well as the human body. Moving forward, a pacing item for AM growth is software that can support widespread industrial adoption by those that are generalists in manufacturing. For these individuals, software that is easy to use and can rapidly optimize the printing process for new component designs is central to increasing productivity and improving the as-printed product yield and performance.

As a pioneer in the industry and a leader in the industrialization of additive manufacturing, 3D Systems introduced **3DXpert®** in 2016. This market-leading software package addresses each step of the AM workflow from part design to post-process finishing. In subsequent releases, 3DXpert has refined each step of the process to both optimize workflows and encompass more sophisticated printing technology and materials systems. Building upon this software foundation, 3D Systems is pleased to announce it has signed an agreement to acquire Additive Works, subject to regulatory approval. Since its founding in 2015, this Bremen, Germany-based software company has focused upon simulation-based optimization and automation of the AM print preparation and workflow. Using sophisticated algorithms, accessed through a user-friendly interface, Additive Works' software allows a manufacturing engineer to rapidly determine optimum print set up, such as part orientation and support structures as well as directly adapt the process set up for effective thermal management and distortion compensation. This highly automated

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simulation software, which interfaces seamlessly with leading CAD systems as well as 3DXpert and other print platforms, increases productivity by reducing set-up time while improving product yield, throughput, and component performance. The result is a faster, more reliable manufacturing process, reduced part cost, and improved component performance.

Integrating Additive Works' simulation expertise into 3D Systems' software team will enhance the company's AM software portfolio and innovation capacity, driving accelerated additive manufacturing adoption across the industrial and healthcare markets that the company serves. This includes Additive Works' Amphyon for experts as well as the Amphyon plugin for CAD users – both of which will continue to be sold and supported to customers as a standalone offering.

Commenting on these two acquisitions, 3D Systems' President and CEO, Dr. Jeffrey Graves stated, "We continue to deliver on our four-phase plan with an increasing focus on investing for accelerated growth and profitability. I'm excited by the expertise, capabilities and technologies we are adding to the 3D Systems portfolio with Allevi and Additive Works. Through these investments, we are enriching our solutions portfolio to address a much broader healthcare market, including the extremely exciting market for regenerative medicine, while accelerating the adoption rate for AM across industrial applications. These investments will bring added value to our customers, open new markets for our technology, and result in accelerated growth and profitability that will allow 3D Systems to thrive in the exciting years ahead."

3D Systems will comment further on these and other recently announced growth investments in its upcoming earnings call, scheduled for Tuesday, May 11, 2021, at 8:30 a.m. Eastern Daylight Time.

Accenture Acquires Electro 80 to Help Resources Companies Modernise Operations and Become More Efficient

3 May 2021

Accenture has acquired Electro 80, a leading provider of operational technology (OT) for resources clients in Australia, including mining, energy, engineering, construction and utilities companies. The acquisition expands Accenture's local digital OT capabilities, which help asset-intensive companies make manufacturing and production operations safer and more efficient. The acquisition also strengthens Accenture's local capabilities for Industry X, which helps clients digitise their manufacturing, operations and engineering.

The acquisition comes at a time when Australia's resources industries are looking to undertake significant transformation following the operational disruption caused by the pandemic.

Founded in 1987, and headquartered in Perth, with offices in Brisbane and Melbourne, Electro 80 provides automation, electrical, instrumentation, safety, networking and industrial IT services, as well as turnkey solutions encompassing the design and support of equipment, installation and commissioning, through to operations support and client training. Electro 80 brings more than 100 employees with longstanding OT experience to Accenture.

"Resources and asset-intensive companies are increasingly looking for ways to deliver more with less and, at the same time, in a more sustainable way," said Tara Brady, market unit lead for Accenture in Australia and New Zealand. "Digital and automation technologies will be fundamental in delivering these outcomes and we are delighted to have Electro 80 on board."

Sergej Divkovi, Electro 80's managing director said, "Combining our team's deep digital and OT expertise with Accenture's end-to-end capabilities presents immense opportunities for our employees and clients. As part of Accenture, we will bring integrated solutions at scale that transform the way

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capital projects are planned, managed and executed. These can help new and existing clients drive new revenue and growth.”

“We are thrilled to welcome the Electro 80 team into our resources practice, which helps clients digitise and optimise their operations at scale,” said Glenn Heppell, Accenture’s resources lead for Australia and New Zealand. “Electro 80 brings to Accenture a strong industry footprint with clients in priority industries. By working together with Electro 80, we can ensure our resources clients can better detect and address quality issues, more accurately prevent machine failure in their operations, and most importantly, innovate for the future.”

Accenture’s acquisition of Electro 80 follows other investments across Australia and New Zealand in the past 18 months, including supply chain and logistics consulting firm GRA, cloud-native solutions provider Olikka, SAP and cloud solutions technology firm Zag, data analytics and supply chain management company Icon Integration, business strategy and econometrics firm AlphaBeta and specialist government consultancy Apis Group.

Electro 80 is also the latest acquisition Accenture has made to strengthen its Industry X capabilities globally, following, for example, industrial robotics and automation service provider Pollux (Brazil), operations consultancy Myrtle (US) and technology consultancy SALT Solutions (Germany).

Terms of the transaction are not being disclosed.

Accenture Boosts Digital Platform Deployment Capabilities with Acquisition of Assets from ThinkTank

4 May 2021

Accenture announced that it is acquiring assets from ThinkTank, a Denver-based digital engagement technology company. ThinkTank’s cloud-based, intelligent stakeholder engagement platform assets and team will join Accenture’s Intelligent Platform Services group, strengthening Accenture’s capabilities and resources to help clients quickly and effectively deploy and adopt enterprise software applications. Terms of the transaction are not being disclosed.

ThinkTank’s Engage platform is used to guide teams through complex planning and transformation programs with clear alignment and better decision-making. This evolves business transformation from a fragmented, risky process to a strategic priority for ensuring mission-critical projects are delivered on time, on budget, in-scope and are well-adopted. The Engage platform can reduce implementation costs by up to 20%, speed design phases by 40%, and increase rate of adoption by users by 50%.

The Engage platform will be integrated with Accenture myConcerto® for a single, proprietary platform that simplifies and accelerates technology-led business transformation. The new functionality will improve collaboration and workflow across teams, with better visibility into requirements, program progress and deadlines, enabling better engagement and prioritization. ThinkTank will also extend myConcerto’s intelligent automation capabilities and provisioning of industry-specific business process templates for agile, continuous delivery. Accenture myConcerto is currently available for multiple platform partners, including Adobe, Microsoft, Oracle, Salesforce, SAP and Workday.

“Intelligent platforms can generate new value by amplifying the power of data and technology. However, planning and design processes can be complex if all stakeholders aren’t engaged or collaborating on decisions,” said Emma McGuigan, global lead, Accenture Intelligent Platform Services. “ThinkTank Engage will be a natural extension of myConcerto, helping clients to better engage across stakeholder groups and digitize design and agile planning programs. The platform will empower clients to more easily create a personalized business case, roadmap and solution prototype, then integrating and

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automating processes for faster deployment and time to value.”

“After working with Accenture for years, we’re thrilled to be joining the company and helping change the way enterprises define, deliver, and maintain the strategic software that runs their business,” said Nick Parnaby, CEO, ThinkTank. “The ThinkTank Engage platform spurs better alignment and decision-making during complex enterprise business and technology transformations. Combining these capabilities with myConcerto and Accenture’s expertise, the result is a platform that seamlessly connects the people who define and operate essential business processes to the software that enables them, building truly agile enterprises.”

ThinkTank is a cloud-enabled SaaS business based in Denver, Colorado. The Accenture Intelligent Platform Services group works with leading platform providers to help clients leverage new platform technologies and ways of working to generate the most value.

Accenture Invests in Cybersecurity Startup Prevailion to Give Clients Advanced Warning of Breaches

4 May 2021

Accenture has made a strategic investment, through Accenture Ventures, in Prevailion, a next-generation cyber intelligence company that provides clients with expansive visibility into malware across their organization and supply chains with early detection of advanced threats through adversary counterintelligence.

The investment will enhance Accenture’s ability to provide clients with advanced indications and warnings of cyber threats through actionable evidence of malware that has potentially compromised their systems and third-party ecosystems, which are increasingly prime targets for cybercriminal and espionage actors. Accenture’s Cyber Investigations & Forensic Response team saw an almost 200% increase in third-party and supply chain intrusions during 2020 — with no signs of letting up in 2021.

“Prevailion’s innovative approach in exposing emerging adversaries, especially when paired with our best-in-class cyber intelligence team, will enable our clients to face the next generation of threats with confidence,” said Josh Ray, who leads Accenture Security’s cyber defense practice globally.

“Prevailion’s multi-industry reach will enhance our cyber insurance services, including those geared toward mergers and acquisitions, and enable our team to proactively detect and mitigate threats targeting our clients.”

Prevailion transforms the way organizations approach risk mitigation and business decision-making through its Compromise Intelligence™ solutions that go beyond traditional indicators of compromise to deliver hard evidence of compromise, which comprises a collection of forensic data that points to a confirmed malicious attack on a commercial, industrial or government network. The solution gives clients a full view of actual threats to their organizations and those of their ecosystem partners early in the overall attack chain.

“This investment from Accenture is exciting and supports our mission to deliver tailored intelligence that empowers risk-based decisions on a global scale,” said Karim Hijazi, Prevailion’s founder and CEO. “Accenture’s reputation and top-tier client base will enable us to make a greater impact on securing the corporate world from devastating cyberattacks.”

Prevailion is now a part of Accenture Ventures’ Project Spotlight, an engagement and investment program that connects emerging technology software startups with the Global 2000 to fill strategic innovation gaps. Project Spotlight offers extensive access to Accenture’s domain expertise and its enterprise clients, helping startups harness human creativity and deliver on the promise of their technology.

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“Accenture Ventures’ investment in Prevailion aligns with our commitment to identify emerging technologies that can meet our clients’ business needs and address their priorities,” said Tom Lounibos, managing director of Accenture Ventures. “Armed with compromise intelligence from Prevailion, we can proactively provide clients with global evidence of active breaches and emerging risks to their supply chains, enabling them to make smarter decisions and mitigate high-priority security risks preemptively.”

Accenture’s backing of Prevailion follows several other investments that Accenture has made in cybersecurity and intelligence companies, including Quantexa, Team 8, Endgame and Claroty.

Terms of the investment were not disclosed.

Accenture to Strengthen Oracle Capabilities in the Middle East with AppsPro Acquisition

3 May 2021

Accenture has entered into an agreement to acquire AppsPro in Saudi Arabia, one of the leading Oracle Cloud implementation service providers in the region. The acquisition further bolsters Accenture’s robust Oracle Cloud capabilities globally, with the aim of delivering additional value to clients in the Middle East on their journeys to the cloud. The financial terms of the acquisition were not disclosed.

Headquartered in Riyadh, Saudi Arabia, AppsPro is a Platinum Oracle Partner with extensive experience in both the public and private sectors in Saudi Arabia. AppsPro’s more than 240 professionals will join Accenture’s Oracle Business Group, combining Accenture and AppsPro’s deep industry knowledge in cloud and digital transformation to help Middle Eastern clients unlock greater value as they transform their businesses.

“Cloud technologies are a crucial stop on the digital transformation highway and businesses with a strong digital foundation are better able to scale, operate at speed, and outmaneuver uncertainty,” said David Deschamps, Accenture Technology lead in the Middle East. “Joining forces with AppsPro will expand our established global credentials across the Oracle Cloud portfolio, while helping our clients in the Middle East accelerate their path to value and emerge as leaders in the next waves of technology disruption.”

Abdulaziz Al-Salloum, CEO of AppsPro, added, “With Accenture’s in-depth capabilities and global scale, we are confident that AppsPro will reach new heights and deliver substantial value through cloud transformation to its clients.”

Accenture has unmatched global expertise across a full range of Oracle Solutions with thousands of Oracle-skilled consultants worldwide who help accelerate digital transformation by implementing Oracle-based business solutions and new business processes that develop and evolve as their digital business grows. Accenture has teamed with Oracle for over 30 years and is a Global Cloud Elite-level member in Oracle PartnerNetwork.

Completion of the acquisition is subject to customary closing conditions.

Synopsys Completes Acquisition of MorethanIP

4 May 2021

Synopsys, Inc. announced it has completed its acquisition of MorethanIP, a provider of Ethernet Digital Controller IP supporting data rates from 10G to 800G. This acquisition expands Synopsys' DesignWare® Ethernet Controller IP portfolio with the addition of MAC and PCS for 200G/400G and 800G Ethernet, providing customers with a complete low-latency, high-performance Ethernet IP

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solution for networking, AI, and cloud computing SoCs. The acquired MAC and PCS IP complements Synopsys' existing 112G Ethernet PHY IP solution. The acquisition also adds a team of experienced R&D engineers with extensive domain knowledge who have led the development of the high-speed Ethernet specifications.

The terms of the deal, which are not material to Synopsys financials, are not being disclosed.

Synopsys' broad DesignWare IP portfolio includes logic libraries, embedded memories, IOs, PVT sensors, embedded test, analog IP, interface IP, security IP, embedded processors, and subsystems. To accelerate prototyping, software development and integration of IP into SoCs, Synopsys' IP Accelerated initiative offers IP prototyping kits, IP software development kits and IP subsystems. Our extensive investment in IP quality and comprehensive technical support enable designers to reduce integration risk and accelerate time-to-market.

Company News

3D Systems Announces Expansion Plans to Address Rising Demand for New Healthcare and Industrial Applications

4 May 2021

3D Systems announced it will increase its presence in Denver, Colorado to support its fast-growing healthcare solutions business, and expand industrial application development capabilities for its **Application Innovation Group** (AIG). This activity is a continuation of the investment phase of the company's plan to focus on its strategic purpose as the leaders in enabling additive manufacturing solutions for applications in growing markets that demand high-reliability products.

Patient-specific Solutions Transform How Healthcare is Delivered

For more than a decade, 3D Systems has delivered a portfolio of industry-leading healthcare solutions, including patient-specific surgical instruments and implants manufactured at its FDA-registered and ISO 13485-certified location in Denver. The company has supported customers of all sizes, ranging from industry leaders to innovative startups, in developing a diverse portfolio of groundbreaking precision healthcare applications and new medical technology. 3D Systems has manufactured more than two million medical device implants, collaborated with surgeons to plan and guide more than 140,000 patient-specific procedures, and supported 100+ CE-marked and FDA-cleared products. Through this next phase of investment, the company will be able to accelerate time-to-market, expand its offerings, and better support the needs of its rapidly growing customer base. This positions 3D Systems to continue its strong growth trajectory for patient-specific craniomaxillofacial applications through expanded production capacity and ongoing product innovations. It will also enable the company to aggressively increase its participation in the larger patient-specific orthopedics market through the development and deployment of new joint replacement solutions.

Accelerating Innovation for Industrial Applications

The services provided by 3D Systems' Application Innovation Group are critical to accelerating the journey from proof-of-concept for new customer applications to full-scale workflow definition and initial production. This team employs their experience and expertise to understand the customer's need and jointly innovate potential application solutions that are subsequently developed into full manufacturing workflows. From there, the AIG experts validate - and where necessary - support obtaining certification and regulatory approvals which are critical to accelerating time to product launch

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in highly regulated markets. With this complete, the parts are then ready for production either at a 3D Systems manufacturing facility or the customer's site. Additionally, through this infrastructure investment, the company will add expertise and the most advanced polymer and metal additive manufacturing technologies to address new, more complex industrial applications such as those for aerospace.

“The combination of maturing industrial-scale metal and polymer printing technology and advanced material solutions, with a customer base that increasingly seeks the performance, flexibility and cost benefits of large-scale additive manufacturing, is driving significantly increased demand for our products and services,” said Dr. Jeffrey Graves, president and CEO, 3D Systems. “Our Application Innovation Group has demonstrated tremendous benefits for enabling the adoption of complex applications for customers across our healthcare and industrial businesses. We pursue a consultative approach with our customers that starts with understanding their unique application performance and cost needs and develop a custom solution to address that need. It's about bringing to life a customer's understanding of what is possible with additive manufacturing, then producing the parts, scaling the initial production volumes, demonstrating the economics, and ultimately enabling them to continue high-volume production in the future. From joint application development to qualifying and validating parts and processes, manufacturing, and then installing a complete solution at the customer site – we partner with customers to solve their most difficult design and production challenges and empower them to maintain that momentum. This is the heart of our growth engine for the future.”

This expansion will increase 3D Systems' Denver, Colorado footprint by over 50% and the company anticipates it will be completed in the second quarter of 2022. In addition to providing critical working and collaboration space for the growing teams, the expansion will enable the addition of multiple 3D printers – including forthcoming products - and large scale post-processing equipment that will automate key aspects of the production workflow for parts as large as those of the DMP Factory 500 (i.e., 500mm³). This will enable the company to both develop and demonstrate the technical and economic viability of a greater range of additive solutions for both healthcare and industrial market segments.

Accelerating Robot-Assisted Industrial Additive Manufacturing

6 May 2021

ModuleWorks, supplier of CAD/CAM software components, and Robotized, supplier of bespoke CNC and robotic manufacturing solutions, have extended their partnership to offer customized, automated solutions that accelerate robot-assisted additive manufacturing, including CMT (Cold Metal Transfer).

Robotized and ModuleWorks already supply customers with tailor-made solutions for subtractive and additive manufacturing. The two companies are now extending and intensifying this cooperation to help manufacturers digitalize their existing workflows and transfer to automated and highly efficient robot-driven production for CMT and other additive processes.

“There is a lot of potential for automating and accelerating additive manufacturing, especially CMT manufacturing. Robotized are recognized experts for robot-assisted welding and buildup welding applications, and together we want to digitalize existing processes and use intelligent toolpath planning to deliver efficient, automated solutions that enable manufacturers to remain competitive and productive.”

Lothar Glasmacher, Head of Additive & Process Technologies at ModuleWorks

The cooperation combines Robotized process optimization for robotic and machine kinematics with the latest ModuleWorks toolpath algorithms for additive manufacturing. The ModuleWorks algorithms

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generate high-performance, collision-free toolpaths with minimal operator intervention for highly automated and efficient workflows that speed up the manufacturing process. As part of the collaboration ModuleWorks is developing new algorithms for fast CMT manufacturing. This will enable the partners to offer robot-assisted CMT solutions alongside wire-arc additive manufacturing (WAAM), laser cladding and material extrusion.

“We have been working successfully with ModuleWorks on CAM customer projects for many years. The ModuleWorks components enable us to implement powerful, individualized customer solutions in a very short time. We’re excited about the extended partnership and look forward to offering our customers the latest automation technology.”

Norbert Krach, Managing Director of Robotized

Accenture Appoints Jill Kramer as Chief Marketing & Communications Officer as of June 1, 2021

4 May 2021

Accenture announced that Amy Fuller, chief marketing & communications officer, will retire from the company at the end of the fiscal year, Aug. 31, 2021. Jill Kramer, currently global head of brand, will succeed Fuller effective June 1, 2021, and will become a member of the company’s Global Management Committee.

Kramer brings more than 20 years of leadership in advertising and marketing. Since joining Accenture, Kramer has driven significant change, expansion, and reinvention of Accenture’s advertising and brand which has led to record increases in the quality and efficiency of Accenture’s marketing programs.

“I am delighted that Jill Kramer will be stepping into this role,” said Julie Sweet, Accenture’s chief executive officer. “She has been pivotal in driving the success of our brand launch. I know her unique ability to focus on what is most needed to drive our business forward and support our people will take our marketing and communications to the next level of growth and performance.”

Under Fuller’s leadership, the Accenture brand achieved historic levels of strength, becoming the most valuable brand in IT services. She led numerous innovations including a full transformation of the marketing and communications function — from new approaches to integrated planning through data and analytics. Fuller will remain at Accenture until the end of FY21 to help with the transition.

“In these last almost two years as CEO, I have been privileged to work side by side with Amy Fuller on some of our most strategic moves. She led the team, which included our own creative agency Droga5, to create our new purpose, develop our new brand, and help to articulate our new strategy for a unique simultaneous launch of all three,” said Sweet. “Our ‘Let there be change’ brand campaign, our biggest brand move in more than a decade, has exceeded all of our expectations and benchmarks. I could not be happier for Amy and her family as she retires.”

“It is an honor and a privilege to lead our creative, innovative and dedicated team of marketing and communication professionals as we bring the best of Accenture to our clients every day,” said Jill Kramer. “I look forward to the role that marketing and communications will play as we continue to drive change and transformation across Accenture and with our clients, partners and communities.”

Aspen Technology Partners with Larsen & Toubro Infotech to Accelerate Adoption of Cloud Services in Oil & Gas and Chemicals Industries

6 May 2021

Aspen Technology, Inc., a global leader in asset optimization software, announced that it has partnered with Larsen & Toubro Infotech (LTI) to deliver AspenTech solutions through LTI managed cloud

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services, which will accelerate the digitalization journey for capital-intensive industries.

The partnership enables LTI to deliver AspenTech's performance engineering desktop solutions, such as Aspen HYSYS® and Aspen Plus®, as well as AspenTech's manufacturing supply chain solutions, including Aspen Unified™, Aspen PIMS-AO™ and Aspen Petroleum Scheduler™, through the cloud. This alliance allows industrial organizations to “bring their own license” to gain high-fidelity remote access to their mission-critical applications, increase compute flexibility and performance gains for more accurate, faster decision-making and accelerate time-to-value from new product innovations. Supported offerings are detailed here.

“Our partnership with AspenTech, as both a Managed Hosting and Implementation Services Provider, will unlock tremendous value for our joint customers looking to enhance operational agility and thrive in the face of changing conditions,” said **Sanjay Jalona, CEO and Managing Director, LTI**. “We are excited to combine our expertise in cloud infrastructure and managed hosting services with AspenTech's world-class asset optimization solutions to enable enterprises to embrace disruption.”

Antonio Pietri, President & CEO, Aspen Technology, said, “The process manufacturing industry is undergoing a significant change in how it conducts business, and the cloud is one of the enabling factors for that shift. Our partnership with LTI provides our customers with solutions that will accelerate their digitalization journey and significantly scale-up the overall capabilities. We're very excited for this partnership, not only for what it means for LTI and AspenTech, but also for how we will work together to benefit customers.”

AVEVA and Maire Tecnimont Group Strategically Partner to Take Industrial Digital Transformation to the Next Level

4 May 2021

AVEVA, a global leader in industrial software, driving digital transformation and sustainability, has signed a memorandum of understanding (MoU) with engineering, procurement and construction (EPC) contractor Tecnimont, a subsidiary of the Maire Tecnimont Group, a leader in the global natural resource processing industry, to create new digital predictive and prescriptive maintenance services that drive enhanced business outcomes.

This partnership will extend usage of AVEVA's Asset Performance Management (APM) solutions across the Maire Tecnimont Group, globally, enhancing plant operability and lowering maintenance costs. This will in turn deliver increased information availability empowering better, more informed decision-making, and ultimately improving overall business performance. As part of the agreement, the two companies will work together over a twelve-month period on a defined number of customer projects to promote the application of predictive maintenance technology for critical plant assets.

“Digital transformation is one of the technology drivers most needed to give our industry a much-needed boost. This MoU with AVEVA aligns seamlessly with Maire Tecnimont's strategy for digital transformation: it complements our value proposition which focuses on NextPlant, our new digital services and solutions portfolio that has been designed to fully meet customer's needs, while simultaneously improving our operational model through the creation of digital enablers,” commented Pierroberto Folgiero, CEO Maire Tecnimont Group.

“AVEVA's Asset Performance Management suite is well positioned to advance industrial operations of the future. By enabling companies to predict failures before they occur, we are helping to reduce unplanned downtime as well as drive efficiency and safety throughout plant operations. We are excited about the partnership with Maire Tecnimont and look forward to supporting our joint customers in

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overcoming today's industrial challenges by leveraging human experience with artificial intelligence.” commented Kim Custeau, Vice President, Asset Performance Management, AVEVA.

As an EPC contractor and global leader in the transformation of natural resources, Maire Tecnimont will leverage its unique process, automation, and maintenance competencies to supply plant owners with perfectly customized digital products and solutions that are tailor-made for their maintenance needs. The combination of Maire Tecnimont's proven market experience and AVEVA's leadership as an industrial technology provider will deliver improved analytics which in turn will help to reduce inefficiencies, optimize operations, and improve our customer's profitability. With this MoU, Maire Tecnimont Group has reached a new milestone in its digital transformation journey, with the activation of a new technology-enabled value stream which is a crucial part of its roadmap. To achieve its drive to become the 'contractor of the future', Maire Tecnimont is enhancing overall value for plant owners through a suite of advanced digital products and services geared towards EPC customers.

Bentley Systems Announces New Bentley Education Program, Putting Students on the Path to Infrastructure Careers

3 May 2021

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced the Bentley Education program, which encourages the development of future infrastructure professionals for careers in engineering, design, and architecture. The Bentley Education program is initially available in the United Kingdom, Australia, Singapore, Ireland, and Lithuania, with plans to expand to the United States, Canada, Mexico, Latin America, and India by mid-summer. The program's student and educator entitlements allow no-cost learning licenses for Bentley infrastructure engineering applications and proven learnings through the new Bentley Education portal. Students and educators from around the globe can register on the Education portal and connect to infrastructure organizations and resources to prepare for and to recruit for infrastructure engineering careers. Bentley also announced the *Future Infrastructure Star Challenge 2021*.

The Bentley Education portal provides a single source for an on-demand, frictionless, and fun experience for students as they build and enhance their digital design skills. Students and educators have access to comprehensive resources, including:

- insights from leading AEC professionals, sharing what the industry has to offer students and what skills are in high demand;
- the latest news and emerging trends in architecture, engineering, and construction; and
- firsthand perspective of current engineering students, mentors, and women in infrastructure engineering.

The program offers full access to learning licenses of over 40 of Bentley's most popular applications used by infrastructure professionals around the globe, including *ContextCapture*, *MicroStation*, *OpenRoads Designer*, *STAAD.Pro*, and *SYNCHRO*.

The Bentley Education program is open to students and educators at community colleges, technical institutes, polytechnics, universities, secondary schools, and homeschooled students. The program is designed to create world-class talent that can rise to the challenge of improving quality of life and positively changing the world using Bentley infrastructure engineering software, applications, and proven learnings. The Bentley Education program will also help students develop digital skills, which are critical for a qualified talent pipeline to support infrastructure growth and resilience worldwide.

The Bentley Education program uses a role-based learning approach, allowing future infrastructure

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professionals to focus on specific capabilities needed for specific professions. Students can go beyond mere product proficiency and develop a comprehensive understanding of skillsets required to excel in various roles in infrastructure engineering.

“With many nations and institutions committing to infrastructure and digital education initiatives as top priorities for a post-pandemic world, we are excited to launch this much-requested and responsive program now,” said Katriona Lord-Levins, chief success officer, Bentley Systems. “We want to inspire and encourage students to learn about infrastructure engineering as a possible career path, and to introduce these young minds to the vast opportunities that lie ahead, with infrastructure going digital.”

The Bentley Education portal also serves as a gateway for individual students or teams of two to submit their innovative concepts for Bentley’s *Future Infrastructure Star Challenge 2021*. The global competition is open to students from community colleges, polytechnics institutes, and universities. Students advancing in the Challenge, based on their ideas that improve quality of life, will work on modeling, simulation, and visualization to develop a design model. The winner of the *Future Infrastructure Star Challenge* will be announced during the *Going Digital Awards* at the *Year in Infrastructure 2021* Conference.

The inaugural *Future Infrastructure Star Challenge* is divided into Stage 1 (Conceptualization), and Stage 2 (Design and Visualization). In Stage 1 (Conceptualization), students are invited to submit their ideas for “a next big infrastructure project” in any of the following categories: road and rail, building and facilities, water and wastewater, cities and mapping, and power generation. While conceptualizing their idea, students should focus on an environmental challenge that affects or is affected by infrastructure development, consider applying the Internet of Things, and emphasize the project’s contribution to the world’s health and welfare.

The top 20 judged projects from Stage 1 (Conceptualization) will each win USD 500, with the top 10 projects moving on to Stage 2 (Design and Visualization). Here, each such entry may take advantage of opportunities to work with infrastructure professionals, and/or to attend masterclasses with Bentley experts, to bring their ideas to life using Bentley applications. In addition to being announced and introduced at the *Year in Infrastructure 2021* Conference, the winner of the *Future Infrastructure Star Challenge 2010* will receive a cash prize of USD 5,000 and recognition in Bentley’s *2021 Infrastructure Yearbook*.

Vinayak Trivedi, vice president of Bentley Education, said, “We want to make the Bentley Education portal the place where students can go to learn about and become inspired to make infrastructure engineering their career choice. The goal of the program is to help students who are passionate about infrastructure to get a jump-start on a fulfilling career. The *Future Infrastructure Star Challenge 2021* provides an opportunity for them to be creative and innovative in project designs for improving the quality of life and positively changing the world.”

BigLever Leads ISO Initiative to Define a New Standard for Feature-based Product Line Engineering

27 April 2021

BigLever Software, the long-standing leader in Product Line Engineering (PLE), announced that, under its guidance, a new industry standard for Feature-based Product Line Engineering has been published by the ISO (International Organization for Standardization) and IEC (International Electrotechnical Commission) subcommittee for software and systems engineering. This new standard, available as ISO/IEC 26580, “Methods and tools for the feature-based approach to software and systems product

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line engineering,” defines Feature-based PLE according to proven and repeatable best commercial practices, tools and methods.

Throughout its history, BigLever has been a pioneer for the modern Feature-based approach to PLE. Feature-based PLE is now being widely adopted into commercial practice by organizations that engineer and deliver complex system families with variations in features and functions in automotive, aeronautics, medical devices, defense, computer systems and more. Feature-based PLE is a means to dramatically eliminate low-value engineering effort across a system family, so engineers can focus their time and effort on high-value innovative work that advances product and business objectives, which often leads to significant competitive advantage.

“We are thrilled to finally have Feature-based PLE in an internationally recognized standard from ISO and IEC,” said Dr. Charles Krueger, BigLever CEO. “This reinforces the approach as a valuable, critical and industry-proven solution. ISO/IEC 26580 provides clear industry-validated guidance that will lower the risk of adoption and enable more engineering organizations to confidently make Feature-based PLE a critical part of their success.”

Krueger was the lead editor and architect for this new standard. He is a key member of the INCOSE liaison group to ISO and the INCOSE Product Line Engineering International Working Group, which sponsored his participation in the standard development.

ISO has designated that this new standard contributes to the Sustainable Development Goals of ISO and the United Nations.

Cadence Wins Four 2020 Samsung Foundry SAFE EDA Awards

4 May 2021

Cadence Design Systems, Inc. announced that it has received four 2020 SAFE EDA awards from Samsung Foundry. Cadence garnered a best technical support award for a 3nm test vehicle tapeout for Samsung Foundry’s next-generation gate-all-around (GAA) technology as well as a best innovation award for Samsung Foundry’s 5nm/7nm full-chip design certification of the Cadence® Pegasus™ Verification System. In addition, Cadence won two awards for best collaboration—one for its role in the Samsung Foundry advanced-node analog/mixed-signal (AMS) ecosystem, which is dedicated to 3nm advancement, and the other for delivering a newly enhanced automotive reference flow for functional safety and reliability.

These awards were given to Cadence based on the following work that has been delivered:

- **3nm test vehicle tapeout for next-generation GAA technology:** The Cadence full digital tool suite was used to implement and sign off timing on a 3nm test chip tapeout, demonstrating real silicon data as a proof of concept for advanced-node customers.
- **Pegasus Verification System 5nm/7nm certification:** The Cadence Pegasus Verification System, certified for Samsung Foundry’s 5nm and 7nm process technologies, has been optimized to enable advanced-node customers to reach signoff accuracy and runtime goals in a variety of market areas, including the mobile and hyperscale markets.
- **3nm AMS enablement:** The Cadence custom and AMS IC design flow achieved certification for Samsung Foundry’s 3nm GAA technology, providing mutual customers with access to a highly automated circuit design, layout, integrated signoff and verification flow with unique in-design electrically driven, EM-aware place-and-route custom automation capabilities to efficiently design products for automotive, mobile, data center, artificial intelligence (AI) and other emerging applications. Tools in the flow included the Virtuoso® custom IC design

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platform, the Spectre[®] Simulation Platform and the Innovus[™] Implementation System.

- **Automotive reference flow enablement:** Cadence optimized its digital full flow for Samsung Foundry's 14LPU process technology using the Cadence Tensilica[®] ConnX B10 DSP, enabling automotive designers to quickly deliver accurate first-time silicon, achieve power, performance and area (PPA) goals, and meet functional safety and quality/reliability targets.

"We've worked with Cadence to ensure our mutual customers have access to our latest technologies so they can achieve the best possible design results and get to market faster," said Jaehong Park, executive vice president of Foundry Design Platform Development at Samsung Electronics. "Cadence delivered exemplary innovations last year, and the Samsung Foundry SAFE EDA awards were certainly well deserved."

"Enabling our customers to achieve design excellence is our top priority, and these awards from Samsung Foundry are indicative of our commitment to working closely with customers to reach their goals," said Michael Jackson, corporate vice president, R&D in the Digital & Signoff Group at Cadence. "Through our continued collaboration with Samsung Foundry, we've successfully delivered new technologies so that customers can create products across a variety of emerging areas, including the automotive, mobile and hyperscale markets."

Cadence tools and flows are part of the company's Intelligent System Design[™] strategy, which enables SoC design excellence.

DAC and Hexagon work together to enable the 'Smart Factory Valley'

3 May 2021

The Campania aerospace industry is working to become the most digitised in Italy. It is using the period of economic crisis generated by the pandemic to invest in growth and new skills. It is doing so through a collaboration between DAC, the Campania Aerospace District, and Hexagon's Manufacturing Intelligence division, a world leader in the sector of sensors, software for smarter manufacturing.

The collaboration aims to offer aerospace Small to Medium sized Enterprises (SMEs) in the DAC new opportunities and competences. The DAC leadership team and Hexagon's Manufacturing Intelligence division are working together to support SMEs in using this pandemic period for active resilience by optimising manufacturing processes with digitisation and staff training, so that when the crisis generated by the pandemic is behind them and production and employment resume, Campania will have the most digitised supply chain in Italy to respond quickly and efficiently to the needs of the global aerospace market.

The news emerged during a visit by the president of the DAC, Luigi Carrino, to the Hexagon's Manufacturing Intelligence division Italian headquarters in Pomigliano D'arco in the province of Naples. During the morning the president of the District and a delegation from the DAC attended several demonstrations of the innovative technologies, machines and sensors that Hexagon has been producing for 200 years with a constant drive towards innovation in manufacturing.

"Hexagon is capable of innovation and progress that is extraordinary, attractive and stimulates growth and competitiveness," said Luigi Carrino, president of the DAC. "The fact that Hexagon has decided to set up in our region a technical and application centre organized to demonstrate how Hexagon can provide their customers and prospects a comprehensive solution across the whole production process means that Campania is leading the industry, and structuring it in the form of an industry district facilitates strong relations between companies and technology transfer.

"We have signed an agreement to make the Campania aerospace supply chain the most digitised in Italy

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so that it can use the crisis as an opportunity to relaunch itself," continued Carrino. "Hexagon's headquarters is a valuable place to see for yourself the advantage that using these technologies can bring to make companies more competitive. To be successful, supply chain projects must involve SMEs and I am proud that this Hexagon centre was born in Campania. We are happy to help populate it with entrepreneurs, business technicians and all those who can use these technologies to grow".

"The idea is to create in Campania a 'Smart Factory Valley'", said Armando Mete Senior Regional Sales Manager of Hexagon's Manufacturing Intelligence division, during the visit - every company in Campania that joins the Factory system will enjoy new opportunities, will be a step ahead in digitalisation, and will have more opportunities and competitive offerings in the international market by presenting itself within a strongly innovative network."

Global IT Alliance welcomes Dynacons in India

5 May 2021

First initiated by Bechtle AG in 2013, the Global IT Alliance (GITA) is now extending its partner network into India with Dynacons Systems & Solutions Ltd. The company has been an active player in the Indian market for 25 years and now represents the latest pin on GITA's global map. The alliance is thus able to cater to customers in this fast-growing market through a very experienced partner. Based in Mumbai, Dynacons employs over 1,000 people at more than 250 sites across India.

GITA is a global alliance of validated IT companies united by their shared goal of offering customers consistent and exceptional service quality in their cross-border projects. The Global IT Alliance is comprised of six core partners with over 130 sites spread across 24 countries on five continents, namely Agilant (USA), Bechtle (Europe), Compucentro (Mexico), Data#3 (Australia), HKBN JOS (Hong Kong, China, Macau, Malaysia, Singapore and other parts of Asia), as well as Microware (Brazil and other countries in Latin America). Each GITA partner delivers market-leading solutions and services to customers in their respective region, while also being able to leverage a broader portfolio of capabilities through the international network.

The newest member of the alliance, Dynacons undertakes all activities related to IT infrastructure including design and consulting services, turnkey systems integration and large network and data centre infrastructure deployments. Its portfolio also spans hyper converged infrastructure (HCI) solutions, private and public cloud deployments, software-defined network (SD-WAN) and software-defined storage (SDS) solutions, as well as on-site and remote managed services. Dynacons also offers as-a-service models such as IaaS (Infrastructure as a Service), PaaS (Platform as a Service) and SaaS (Software as a Service). The company boasts all major industry certifications, including ISO 9001, ISO 20000 and ISO 27000.

Shared values and standards

"We continue to expand our global reach, now in India with Dynacons, we can address so many global customers in one of the most significant tech hubs of the world. The exceptional team at Dynacons, their service, solutions and innovation, mirrors perfectly with all of other GITA members," says Emery Geosits, GITA Executive Director.

"We are very excited to be part of the GITA network. This helps us serve customers on a global landscape, simplifying IT deployments and offering a consistent experience," says Dharmesh Anjaria, Executive Director at Dynacons.

James Napp, Managing Director of Bechtle direct UK and Bechtle's ambassador to the Global IT

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Alliance: “India is a key growth market for global companies and the demand for multi-territory IT provision continues to increase. We view this expansion into India as a highly significant development as the GITA network matures and it will greatly benefit our customers at Bechtle.”

Inceptra Earns Dassault Systèmes Gold Certified Education Partner Status for 9th Consecutive Year

28 April 2021

Inceptra LLC, a leading Product Lifecycle Management (PLM) and Manufacturing System solutions provider, has maintained its Gold Certified status in Dassault Systèmes’ Education Partner Program, also earning the distinction of being the only North American education partner to be Gold Certified 9 years in a row. Gold Certified Education Partners (GCEP) are companies that have achieved the highest certification level in PLM education. GCEPs have the size, reach, and knowledge investment that enable them to engineer and deploy comprehensive education programs.

Only Dassault Systèmes education partners have access to the official, always up-to-date software training materials developed by Dassault Systèmes to enable them to provide “best-in-class” education solutions to their customers. Once a year, education partners are evaluated and granted one of the three available tiers – Authorized Education Provider (AEP), Certified Education Partner (CEP), or Gold Certified Education Partner (GCEP). The designation is based on testing and certification of their instructors to validate their Dassault Systèmes product knowledge and skills, as well as the breadth of their education offerings to support comprehensive and scalable training.

“An important part of Inceptra helping manufacturing and engineering companies maximize their investment in Dassault Systèmes PLM software is delivering training programs that provide intelligent, insightful instruction in a learning format best suited to their needs,” said Tim Peterson, CEO, Inceptra. He continued, “our GCEP status reflects our commitment to effective certified instructor-led trainings and blended learning solutions of live instruction and self-paced online learning, delivered across a wide range of course offerings and custom solutions. Instructor-led classes are held online, in one of our classrooms, or onsite, and we’re glad our interactive online classes allowed us to seamlessly carry on helping users increase their skills in a safe way throughout the pandemic”.

Infosys to Create 1,000 Digital Jobs in the UK to Fuel Post-Pandemic Growth

4 May 2021

Infosys, a global leader in next-generation digital services and consulting, reinforced its commitment to supporting UK’s economic recovery and growth by announcing plans to hire 1,000 workers in the country over the next three years.

New hires will be working at the cutting edge of innovation in the digital space, including cloud computing, data and analytics, artificial intelligence, open source technologies and enterprise services to support some of the world’s largest organizations navigate their digital journeys. The company will provide critical training and mentoring opportunities for the fresh hires.

Recognized as a Top Employer globally and ranked among the top five employers in the UK for 2021, the new team members will join a world-class workforce spanning Infosys’ design studio in Shoreditch, its innovation center in Canary Wharf and proximity centres in Nottingham and other client locations across the UK.

To ensure a diverse talent pool and support the upskilling of the industry’s future leaders, a large proportion of the workforce will be hired from recently graduated students from leading colleges and universities in the UK. The company will also hire experienced professionals from technology and

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consulting with deep sector expertise who will be able to support local businesses in their digital journeys and lead a robust workforce for the future.

Salil Parekh, CEO, Infosys, said, “While the talent gap has been looming, the events of the past year have exacerbated the need for vital digital skills as businesses have rapidly accelerated their digital transformation. Bridging the digital divide and making quality digital education accessible to every citizen are vital to the establishment of a robust future workforce, and the UK’s economic recovery. Our commitment to the UK is to support both recovery and growth through digital acceleration, hiring new talent, and supporting the development and reskilling of existing talent to meet evolving economic demands. We continue to partner with universities across the UK to nurture the next generation of digital leaders and continually strive to close the skills gap, investing in a brighter future for everyone.”

Boris Johnson, UK Prime Minister, said, “This investment from Infosys is a vote of confidence in the UK and its technology sector and will help that sector scale new heights – creating the jobs of the future. We need more firms like Infosys with a commitment to investing in people to help the UK build back better.”

myMedidata Wins "Best Patient Portal" Award in 2021 MedTech Breakthrough Awards Program

6 May 2021

Medidata, a Dassault Systèmes company, the global leader in creating end-to-end solutions supporting the entire clinical trial process, today announced that its myMedidata solution has been selected as the winner of the ‘Best Patient Portal’ award in the fifth annual MedTech Breakthrough Awards program conducted by MedTech Breakthrough, an independent market intelligence organization that recognizes the top companies, technologies and products in the global health and medical technology market.

Medidata’s myMedidata is one of the industry’s first patient portals to enable remote recruitment and virtual participation in clinical trials through a single web-based login, accessible on any device. myMedidata delivers a streamlined experience for patients and hospitals through one intuitive platform, expanding access to all of Medidata’s Patient Cloud solutions.

By providing a better overall study experience, patients are more likely to actively participate in and remain on their clinical trial. myMedidata was built using input from the company’s Patient Insights group, where patient advocates regularly engage as a part of the Medidata software design and development life cycle.

“New drugs and treatments cannot be brought to market without the most important component – the patient and their ability to participate in clinical trials. Making research more patient-centric by giving patients the ability to virtually access and actively engage in their own treatments and health decisions will lead to faster and more effective drug development,” said Anthony Costello, President of Patient Cloud at Medidata. “We are honored that MedTech Breakthrough has recognized myMedidata for this award and we look forward to working with more and more of our customers who are actively rolling out decentralized trials programs with our technology.”

The mission of the MedTech Breakthrough Awards is to honor excellence and recognize the innovation, hard work and success in a range of health and medical technology categories, including Robotics, Clinical Administration, Telehealth, Patient Engagement, Electronic Health Records (EHR), mHealth, Medical Devices, Medical Data and many more. This year’s program attracted more than 3,850 nominations from over 17 different countries throughout the world.

“By creating a unified patient portal, patients can access all of their trial needs in one location, providing patients with the opportunity to view their own clinical data and increases their engagement with the

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study team, tracking progress and allowing for continued support throughout the study,” said James Johnson, Managing Director, MedTech Breakthrough. “This is a true breakthrough for an aspect of medicine and healthcare that is so incredibly important today and in the future. Congratulations to Medidata for winning our ‘Best Patient Portal’ award this year.”

myMedidata provides the industry’s single most comprehensive, integrated tool set for all aspects of patient-centered research, including electronic consent (eConsent) and clinical outcomes assessment (eCOA), wearable sensors, myMedidata LIVE (a web-based, live video conferencing capability), and patient recruitment/engagement through myMedidata Registries (coming early summer 2021). myMedidata also includes a research-based COVID-19 Symptom Tracker, designed to support research studies and advance scientific understanding of the virus.

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.

NTT DATA Group Companies, everis and itelligence, Integrated into the NTT DATA Brand

30 April 2021

NTT DATA, a leading digital business and IT services provider, has integrated its group companies everis and itelligence, into the NTT DATA brand. The change is aimed at enhancing the presence of NTT DATA as a trusted brand in global markets.

Background and Overview

NTT DATA began actively expanding its business operations globally in 2005, and through a program of M&A has continued to broaden the coverage and scale of its business worldwide. Currently, more than 40% of the revenue is derived from sales outside Japan with operations in 53 markets worldwide.

NTT DATA has set a goal to be one of the top five companies in the global IT services market by 2025, and considers the current period crucial for establishing a position as a trusted brand in global markets.

Group companies, everis and itelligence, conducted business under their own brand names, focusing on building trust in their respective markets. The two company brands are being integrated into the NTT DATA brand in April 2021.

About everis and itelligence

everis

An NTT DATA Group company since 2014, everis provides a wide range of IT services, from consulting and system engineering to outsourcing, for major corporations in Spain and Central/South America, including financial institutions, telecommunications firms, government agencies, utility companies, and global manufacturers.

itelligence

An NTT DATA Group company since 2008, itelligence provides SAP-related consulting, system engineering, and software development, as well as licensing, outsourcing, and hosting services.

Outlook

Through this brand integration, NTT DATA will accelerate the One NTT DATA initiative in markets worldwide, aiming to provide customers with higher value services as a highly trusted IT services company.

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NTT DATA to launch New website to introduce NTT DATA's capability and thought leadership in Insurance

7 May 2021

NTT DATA, a global digital business and IT services leader with more than 130,000 employees globally, announced our new website for the insurance industry, which provides users with NTT DATA's full information capabilities and thought leadership as ONE NTT DATA globally.

Our aim is to provide clients with an integrated explanation of how we can help them. The new website, now available globally, delivers the following content:

- Offerings & Success Stories – As part of NTT DATA, we have a large team of professionals (+11,000) who have made us a Trusted Global Innovator partner for our insurance clients. Our company delivers global solutions for over 300 insurers. Here we introduce our main offerings and a selection of our global projects.
- Insurance 2022 Vision – NTT DATA suggests 10 key actions for insurers in the insurance ecosystem, taking into consideration the global digital trends affecting all industries, and challenges specific to insurance.
- Thought Leadership – NTT DATA's business and technology leaders provide featured insights to help discover the challenges, trends and opportunities in insurance, and suggest solutions for commercial and technological needs of our insurance clients.

Samir Seksaria Takes Over as CFO of TCS Effective May 1

30 April 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting, and business solutions organization, announced that Samir Seksaria will take over as the company's Chief Financial Officer on May 1, 2021. He replaces V Ramakrishnan ('Ramki') who will be retiring from the services of the company effective today i.e. April 30, 2021.

The Board of Directors, at its meeting held on April 12, 2021, had appointed Samir Seksaria as Chief Financial Officer. He started his career in TCS in 1999 and spent his early years in consulting assignments involving regulatory compliance and M&A spin-offs, amongst others. He moved to Corporate Finance in 2004 and played a critical role in the company's IPO. Prior to being appointed as CFO, he was heading the financial analytics, planning and business finance functions.

"I am pleased to welcome Samir in his new role. During the past two decades, Samir has played an exemplary role in the company's financial transformation journey involving simplification, cash management, planning and forecasting, and contract structuring," said **Rajesh Gopinathan, CEO & MD, TCS**. *"We thank Ramki for his invaluable contributions to the organization, and wish him well for the future."*

"I am truly honored to be offered the role of Chief Financial Officer. I am thankful to the Board and the management for giving me this position of responsibility. I look forward to working closely with our clients, partners, business units and associates towards creating value for all our stakeholders as TCS powers ahead in its journey of transformative growth," said **Samir Seksaria**.

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Schneider Electric and AVEVA Partner with Obeikan Digital Solutions to Deliver Industry 4.0 Technologies

6 May 2021

Schneider Electric and AVEVA have signed an Alliance Partner agreement with Obeikan Digital Solutions (ODS). The partnership will support Saudi Arabia's industrial sector, and the three companies will collaborate to help the Kingdom's factories on their path to Industry 4.0 through digital transformation.

Part of the Obeikan Group, ODS offers case-tailored consultancy services and industrial apps for logistics, utility reliability, compliance management, spare part management, organizational optimization and audit management. The company has worked to transform dozens of manufacturers across Saudi Arabia through digital technologies.

The three companies will collaborate to roll out proof-of-concept projects; Schneider Electric's and AVEVA's Internet-of-Things hardware and cloud-based software will be complemented by local expertise from ODS.

"Obeikan and ODS have a vision of transforming Saudi Arabia's manufacturing capabilities through technology and digitalization," said Abdallah Obeikan, ODS. "Schneider Electric and AVEVA share this belief in how technologies such as the Internet-of-Things and cloud computing can make plants smarter, more efficient, and more sustainable. We want to accelerate the nation's manufacturing sector through technology, and we're excited about this partnership.

Smart manufacturing technologies have the potential to reshape how factories operate. Concepts such as 5G, the Industrial Internet of Things (IIoT) and artificial intelligence (AI) can drastically decrease equipment downtime by as much as 50% and increase overall equipment effectiveness by a double-digit percentage.

"The next generation of manufacturing will use digital technologies to connect every machine on the plant floor, collect data streams and analyze that information in real time to improve efficiency, increase safety, and reduce energy and water usage," said Oseid Faqih, Industrial Automation VP, Schneider Electric. "Obeikan is a leader in this space, and ODS is a highly respected name thanks to the number of digital transformation projects they've undertaken. This partnership will hasten the Kingdom's growth into a manufacturing hub for the entire region."

"Digital technologies will account for a significant portion of economic value over the next decade, a fact recognized by policies such as the UAE's Operation 300bn and the second phase of Saudi Arabia's Vision 2030, which was initiated in 2020. The force multiplier effect of AI, IIoT and cloud computing is already beginning to pay productivity and financial dividends for the industrial sector and AVEVA's partnership with Obeikan Digital Solutions will elevate these efficiencies for sustainable and equitable growth across the region by synergizing digital solutions from AVEVA's portfolio with the advanced skills of implementation available with ODS inside Saudi Arabia and the wider Middle East," said Dr Tariq Aslam, Head of MEA, AVEVA.

Wipro announces opening of Innovation Centre in London

4 May 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced the setting up of an Innovation Centre in Holborn, London.

Wipro will invest £16million over the next four years in the 20,000 sq. ft. Innovation Centre which will

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serve as Wipro's flagship centre in the United Kingdom and offer technology expertise to companies in the UK and globally. It will be integral to providing advanced digital, cyber security and cloud expertise to both established and upcoming enterprises, taking the lead on digital transformation in one of Europe's biggest technology markets.

This year marks Wipro's 75th global anniversary, and 25 years in the UK, where it employs over 4000 highly talented technology, digital consulting & business management professionals. The IT services provider has hired over 500 new employees in the UK in the past 12 months and, with the announcement of the Innovation Centre, expects its talent base to increase further over the coming years.

The opening of the Centre acts as the next critical step in serving businesses with world class consultancy on digital, business and IT transformation, and follows the recent announcement of Wipro's acquisition of UK-based Capco for \$1.45 billion. This acquisition will add 1300 employees in the UK and will make Wipro one of the largest end-to-end global consulting, technology and transformation service providers to the banking and financial services industry.

UK Prime Minister Boris Johnson said, "Trade and investment between the UK and India is creating good jobs and sustaining livelihoods in both of our countries. I'm very pleased that Wipro has decided to join the legions of Indian companies investing in the UK, boosting our technology sector and driving economic growth."

UK Minister for Investment Gerry Grimstone said, "The UK is an important global base for digital business solutions and London continues to be a leading hub for both business and tech innovation. It's great to see Wipro taking advantage of this and open their Innovation Centre in London – a further commitment to their 25 years in the UK and a boost for the vibrant and growing tech scene that will support our economic recovery."

Thierry Delaporte, Chief Executive Officer and Managing Director, Wipro Limited said, "We are proud to announce a new step on our continued investment in the UK with a new Innovation Centre in London. This enhances our already powerful presence in the region across ten offices and over 4000 employees and will act as an important engine in our drive to boost digital transformation in Europe."

"The pandemic has disrupted lives and businesses everywhere. There is a positive role for technology to play as we rebuild. At Wipro, we believe in technology's ability to support communities everywhere and drive the sustainability agenda."

Pierre Bruno, Chief Executive Officer - Europe, Wipro Limited said, "London is a hub of digital excellence. Our new Innovation Centre will draw on the immense talent, digital expertise and innovative potential available here. We are continually impressed by the drive of the UK's digital economy. Digital transformation is no longer an option. As we have seen, digitalisation of businesses has rapidly accelerated and it's those businesses who can adapt and in-build resilience who will succeed. In addition to the digital transformation solutions we offer now – from cloud-first solutions to cybersecurity and 5G services – our new Innovation Centre will help us to continue to develop solutions for the future including galvanizing the adoption of new skills and technologies by companies to innovate and re-imagine their products and services, improve operational efficiencies, and drive customer and employee delight, thereby transforming their ability to compete and thrive in the market."

Wipro has established a powerful presence in the United Kingdom in recent years, boasting ten offices across the region, including a Cloud studio in London and a Cyber Defense Centre in Reading.

Event News

Michelangelo's David Twin re-produced with the use of Hexagon scanning technology unveiled in Dubai

4 May 2021

A 3D printed replica of Michelangelo's famous David sculpture, re-produced with the use of scanning technology by Hexagon, was unveiled this week during a ceremony at the Italy Pavilion at Expo 2020 Dubai.

The event was attended by the Italian Minister of Foreign Affairs and International Cooperation, Luigi Di Maio, the United Arab Emirates' Minister of State for Tolerance, Ahayan Mabarak Al Nahayan, the Minister of State for International Cooperation and Managing Director for Expo 2020 Dubai Reem Al Hashimy, and the Minister for Culture and Youth, Noura Al Kaabi. The so-called David Twin will be the centrepiece of the Pavilion's Theatre of Memory.

The project to create the replica posed numerous challenges, not least due to the scale of the original, which stands at over seven metres tall and weighs more than five tons. Scanning this iconic sculpture took two people 10 days to complete. Two Hexagon technologies, an AICON StereoScan neo structured light scanner and a Leica Absolute Tracker with handheld scanner, were used to ensure optimum accuracy while managing the scale of the challenge. The mix of these two technologies was critical to achieve the best result; the laser tracker, which is typically used to measure precision aerospace components, is able to give high accuracy across large areas and the structured light scanner is able to achieve even higher resolution when focused on small areas. This instrument was used for the particularly detailed elements of the sculpture such as the face and hands. By combining these technologies, the team was able to achieve the optimum compromise of scale and resolution.

Nevertheless, there were a number of additional challenges to overcome. For example, an 80cm distance was required between the scanner and the statue to achieve optimum detail. This was particularly tricky when trying to capture intricate parts. Additionally, given the height of the David the scanners had to be mounted on a stair and raised, after which the team would analyse the picture to check for resolutions and accuracy, and repeat if necessary.

Following David's appearance at the Expo, the digital twin created by the scanning process will be analysed to derive additional learnings. The extraordinary detail of the data reveals, for example, the effects of acid rain, dust, and even traces of the different tools used to create it. This information can be used by experts and restorers to preserve the David, and other iconic art pieces, by anticipating and preventing degradation.

It's also recognised that there may be opportunities for future, more accurate scans of the David and other iconic art pieces. This latest project follows a similar one completed by Stanford University in 1999, which took one month and 22 people to achieve a lower resolution scan. As technology advances it's hoped that an even higher level of detail can be achieved.

"Scanning the David presented a number of challenges," says Cesare Cassani, Automation Technologies & Portable Systems Manager, Hexagon's Manufacturing Intelligence division. "Not only was the scale enormous, but the time constraints were also tight, and we had to overcome a number of obstacles as we went along. Specific parts such as the inside of the hands, and underneath the bent arm, for example, proved particularly challenging, as well as capturing all the dents and imperfections that the David has incurred over the years."

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“The opportunity of being part of the team who has worked at this project is not only a high recognition of Hexagon’s technology and expertise in digital transformation, it is also for us a matter of pride in contributing to the scientific research and to the disclosure of culture and art throughout the world” says Levio Valetti, Marketing and Communications Manager, Hexagon Commercial Operations Italy.

The re-production of Michelangelo’s David is a project jointly promoted by the Italian General Commissioner’s Office for Expo 2020 Dubai, the Galleria dell’Accademia Museum of Florence and the Ministry of Culture in partnership with the Department of Civil and Environmental Engineering at the University of Florence.

Synopsys to Showcase New Application Security Orchestration Solution at RSA Conference

4 May 2021

Synopsys, Inc. announced it will showcase the Software Integrity Group's new Intelligent Orchestration solution at RSA Conference on May 17th - 20th. Intelligent Orchestration is a dedicated application security automation pipeline, optimized for speed and efficiency, that ensures the right security tests are performed at the right time. Intelligent Orchestration, which runs in parallel to build and release pipelines, utilizes innovative technology to automatically determine and initiate the most appropriate security tests, including static (SAST), dynamic (DAST), interactive (IAST), and software composition analysis (SCA), based on pre-defined risk policies and changes made to an application.

As the pace and complexity of software development increases, security and development teams in all industries have recognized that integrating and automating security testing within their development toolchains and workflows is essential. However, they often find that doing this can slow development pipelines and overwhelm development teams with large volumes of testing results, many of which do not require immediate attention.

The concepts and technology behind Intelligent Orchestration were developed and refined through years of experience helping customers navigate these challenges, including a Fortune 500 financial services company undergoing a significant digital transformation effort:

"Testing your business-critical applications for security vulnerabilities is essential, but when it comes to producing actionable results and earning developers' trust in a DevOps environment, the tests you don't run can be equally as important as the tests you do run," said the director of application security for the financial services client. "Avoiding extraneous testing cycles and prioritizing the critical vulnerabilities that present the most risk to your organization is key to embracing the benefits of DevSecOps. We worked closely with Synopsys as they developed their Intelligent Orchestration solution to address the DevSecOps bottlenecks we were grappling with."

Intelligent Orchestration provides the following capabilities and benefits:

- **Dedicated "continuous security" pipeline**
Intelligent Orchestration is a dedicated continuous integration (CI) pipeline that runs in parallel to build and release pipelines to perform necessary application security tests.
- **Seamless integration with existing pipelines and development toolchains**
Intelligent Orchestration does not require build and release pipelines to be reimplemented. Instead, it easily integrates with CI pipelines via simple API calls. In addition, extensible DevOps integrations enable teams to incorporate application security tests performed by Synopsys tools as well as open source and third-party tools, and deliver results via the development, risk management, and issue tracking tools they already use.
- **Ensures the right tests are run at the right time**

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Teams can define their application security policies as code, specifying rules for security analysis, notification, and remediation. Using innovative technology, Intelligent Orchestration then uses that policy to evaluate code changes and other SDLC events to intelligently trigger the appropriate security tests, maximizing velocity by performing only the tests that are needed when they are needed.

- **Delivers the right information to the right teams**

Intelligent Orchestration optimizes and standardizes application security reporting across the gamut of security testing tools. Results are automatically filtered and prioritized based on risk and delivered directly within the development and defect tracking tools development teams already use, preventing "vulnerability overload" and enabling teams to achieve the maximum risk impact at minimum cost.

- **Automates the workflow for manual or out-of-band testing activities**

Intelligent Orchestration policies can also trigger manual security activities such as penetration tests, through defect tracking systems and communication channels, enabling security teams to coordinate security compliance with development workflows.

"Every organization embracing DevOps encounters friction when they integrate and automate security testing into their DevOps environments," said Jason Schmitt, general manager of the Synopsys Software Integrity Group. "Automating the enforcement of application security policies across your portfolio and managing high volumes of security testing results, while trying to keep pace with the accelerating speed of development, can be a daunting task. These challenges are precisely what Intelligent Orchestration is designed to address. Through policy-driven intelligence, automation, and extensive integrations, Intelligent Orchestration streamlines security testing programs based on risk and continuous iteration."

To learn more or to schedule a demo, visit the Intelligent Orchestration webpage, read the blog post, or register for the webinar on May 26, 2021.

Financial News

Altair Announces First Quarter 2021 Financial Results

6 May 2021

Altair, a global technology company providing software and cloud solutions in the areas of simulation, high-performance computing, data analytics and artificial intelligence today released its financial results for the first quarter ended March 31, 2021.

"Altair had an excellent first quarter 2021, due in large measure to the strength of our constantly evolving software portfolio," said James Scapa, Founder, Chairman and Chief Executive Officer of Altair. "Our vision of the convergence of simulation, HPC, and AI driving enterprise decisions is emerging as a clear imperative embraced by customers. This technical direction, which we identified early on and have invested in significantly, is important and manifest in all the markets we serve. We look forward to sharing our longer-term vision and strategy for the company at our virtual Investor Day on May 27."

"I'm pleased to report our second consecutive quarter of record software revenue and total revenue, which far exceeded our expectations, led by strong renewal business and expansion in software," said Matt Brown, Chief Financial Officer of Altair. "We're executing on our mission to transform enterprise decision making, while driving top line revenue growth and maintaining a disciplined approach to spending to expand our profitability."

CIMdata PLM Industry Summary

First Quarter 2021 Financial Highlights

- Software product revenue was \$129.5 million compared to \$108.4 million for the first quarter of 2020, an increase of 19.5%
- Total revenue was \$150.2 million compared to \$131.5 million for the first quarter of 2020, an increase of 14.2%
- Net income was \$14.4 million compared to \$6.0 million for the first quarter of 2020, an increase of 138%. Diluted net income per share was \$0.18 based on 79.3 million diluted weighted average common shares outstanding, compared to diluted net income per share of \$0.08 for the first quarter of 2020, based on 77.0 million diluted weighted average common shares outstanding
- Adjusted EBITDA was \$37.0 million compared to \$21.7 million for the first quarter of 2020, an increase of 70.5%. Adjusted EBITDA margin was 24.6% compared to 16.5% for the first quarter of 2020.
- Non-GAAP net income was \$26.0 million, compared to Non-GAAP net income of \$15.1 million for the first quarter of 2020, an increase of 72.4%. Non-GAAP diluted net income per share was \$0.31 based on 83.4 million non-GAAP diluted common shares outstanding, compared to Non-GAAP diluted net income per share of \$0.19 for the first quarter of 2020, based on 78.4 million non-GAAP diluted common shares outstanding
- Free cash flow was \$33.5 million, compared to \$26.4 million for the first quarter of 2020, an increase of 27.1%

Business Outlook

Based on information available, Altair is issuing guidance for the second quarter and full year 2021.

<i>(in millions)</i>	Second Quarter 2021		Full Year 2021	
<i>Software Product Revenue</i>	\$ 92.0	to \$ 95.0	\$ 425.0	to \$ 433.0
<i>Total Revenue</i>	\$ 111.0	\$ 114.0	\$ 504.0	\$ 512.0
<i>Net Loss</i>	\$ (23.7)	\$ (21.8)	\$ (37.6)	\$ (29.8)
<i>Non-GAAP Net Income</i>	\$ 0.1	\$ 1.6	\$ 38.0	\$ 44.0
<i>Adjusted EBITDA</i>	\$ 2.0	\$ 4.0	\$ 59.0	\$ 67.0

Conference Call Information

What: Altair's First Quarter 2021 Financial Results Conference Call
When: Thursday, May 6, 2021
Time: 5:00 p.m. ET
Live Call: (866) 754-5204, Domestic
(636) 812-6621, International
Replay: (855) 859-2056, Conference ID 5262418, Domestic
(404) 537-3406, Conference ID 5262418, International

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Webcast:

<http://investor.altair.com> (live & replay)

Ansys Announces Financial Results With Record Q1 ACV, Revenue and Operating Cash Flow

5 May 2021

ANSYS, Inc. reported first quarter 2021 GAAP and non-GAAP revenue growth of 19% and 20% in reported currency, respectively, or 16% and 17% in constant currency, respectively, when compared to the first quarter of 2020. For the first quarter of 2021, the Company reported diluted earnings per share of \$0.82 and \$1.12 on a GAAP and non-GAAP basis, respectively, compared to \$0.53 and \$0.83 on a GAAP and non-GAAP basis, respectively, for the first quarter of 2020.

“Ansys achieved excellent results for the first quarter, delivering double-digit revenue and earnings growth. The underlying strength in our business, coupled with the strategic role we play in enabling and advancing our customers’ digital transformation, gives us continued confidence in our ability to execute against our goals,” said Ajei Gopal, Ansys President and CEO.

Nicole Anasenes, Ansys CFO, stated, “Our first quarter results represent a strong start to the year, continuing the outstanding performance from Q4 of last year. We saw strong channel and small- and medium-sized account performance for the second quarter in a row, contributing to both ACV and revenue growth. We are optimistic about the positive indicators we saw in Q1 and the strength of our current pipeline. We are raising our full year 2021 guidance across all guidance metrics: ACV, revenue, EPS and operating cash flow.”

/ Financial Results

Ansys' first quarter 2021 and 2020 financial results are presented below. The 2021 and 2020 non-GAAP results exclude the income statement effects of the acquisition accounting adjustments to deferred revenue, stock-based compensation, amortization of acquired intangible assets, and transaction expenses related to business combinations.

GAAP and non-GAAP results are as follows:

<i>(in millions, except percentages and per share data)</i>	GAAP			Non-GAAP			
	Q1 2021	Q1 2020	% Change	Q1 2021	Q1 2020	% Change	
Revenue	\$363.2	\$305.0	19	% \$372.1	\$308.9	20	%
Net income	\$72.4	\$46.1	57	% \$98.9	\$72.3	37	%
Diluted earnings per share	\$0.82	\$0.53	55	% \$1.12	\$0.83	35	%
Operating profit margin	13.8	% 11.2	%	33.5	% 29.3	%	

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 months ended March 31, 2021 and 2020, and for the 2021 financial outlook, can be found in the condensed financial information included in this release.

/ Other Performance Metrics

<i>(in millions, except</i>	Q1 2021	Q1 2020	% Change	% Change in
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<i>percentages)</i>	Constant Currency				
ACV	\$319.4	\$301.1	6	% 3	%
Operating cash flows	\$171.1	\$147.4	16	%	

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 second 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.

/ Second Quarter 2021 Guidance

The Company currently expects the following for the quarter ending June 30, 2021:

<i>(in millions, except per share data)</i>	GAAP	Non-GAAP
Revenue	\$409.7 - \$439.7	\$415.0 - \$445.0
Diluted earnings per share	\$0.82 - \$1.10	\$1.43 - \$1.67

/ Fiscal Year 2021 Guidance

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

<i>(in millions, except per share data)</i>	GAAP	Non-GAAP
Revenue	\$1,790.7 - \$1,855.7	\$1,810.0 - \$1,875.0
Diluted earnings per share	\$4.62 - \$5.16	\$6.69 - \$7.10

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 \$5.3 million for the second quarter and \$19.3 million for FY 2021.

The FY 2021 revenue and ACV guidance assumes an incremental headwind of approximately

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\$14 million from currency relative to our guidance initiated in February. This currency headwind had an approximately \$0.06 per share impact on FY 2021 earnings per share guidance and an approximately \$5 million impact on FY 2021 operating cash flow guidance.

The Q2 and FY 2021 earnings per share guidance includes a gain of approximately \$15.1 million, or \$0.14 per share, related to a change in the value of an equity investment. This gain will not affect the Company's revenue, operating income or cash flows.

<i>(in millions)</i>	Other Financial Metrics
ACV	\$1,760.0 - \$1,825.0
Operating cash flows	\$480.0 - \$520.0

/ Conference Call Information

Ansys will hold a conference call at **8:30 a.m. Eastern Time** on May 6, 2021 to discuss first quarter 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.

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 10154664.

L&T TECHNOLOGY SERVICES REPORTS A RESILIENT Q4FY21 TO CLOSE FY21 WITH STRONG EXECUTION

3 May 2021

L&T Technology Services Limited, India's leading pure-play engineering services company, announced its results for the fourth quarter and full year ended March 31, 2021.

Highlights for Q4FY21 include:

- Revenue at ₹14,405 million; growth of 2.8% QoQ
- USD Revenue at \$197.5 million; growth of 3.9% QoQ
- EBIT margin at 16.6%; up 140 bps QoQ
- Net profit at ₹1,945 million; growth of 4.5% QoQ

Highlights for FY21 include:

- Revenue at ₹54,497 million; decline of 3%
- USD Revenue at \$737 million; decline of 6.3%
- EBIT margin at 14.5%
- Net profit at ₹6,633 million; decline of 19%
- Board has recommended a final dividend of ₹14.50 per share

During the quarter, LTTS won 6 deals with TCV of USD10 million plus, which includes 2 USD25 million plus deals. Revenues from digital and leading-edge technologies stood at 52% during the quarter.

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“We are exiting FY21 on an optimistic note post three consecutive quarters of strong deal wins and sequential revenue and operating margin improvement. The annual free cash flow generation at ₹1,252 crores was at a record high. I am happy to note that in Q4, our revenue is back on the positive year-over-year growth path.

We are seeing healthy deal win closures and pipeline build up as customers look for innovation and digital led transformation to strengthen their market positioning. Across all our five segments, we are investing in disruptive technologies and design labs to further the growth.

As we continue to execute in an environment made difficult by Covid uncertainties, I would like to thank our employees for their commitment, customer focus and resilience that has helped us deepen strategic relationships”, said Amit Chadha, CEO & Managing Director, L&T Technology Services Limited.

Industry Recognitions:

- LTTS has been recognized as a ‘Leader’ for Development and Verification & Validation services in Industry 4.0 by Everest Group
- ISG Group rated LTTS as ‘Leader’ in Smart Manufacturing Services for Automotive and Hi-Tech
- LTTS won the 2021 Big Innovation Awards, USA for Chest rAI™ and i-BEMS™.
- For its Solar Electrification tribal village project, LTTS was conferred with the Mahatma Award for CSR Excellence.

Patents

At the end of the fourth quarter, the patents portfolio of L&T Technology Services stood at 650, out of which 485 are co-authored with its customers and the remaining 165 have been filed by LTTS.

Human Resources

At the end of Q4FY21, LTTS’ employee strength stood at 16,452.

LECTRA: Q1 2021: strong improvement in earnings

29 April 2021

Lectra’s Board of Directors, chaired by Daniel Harari, reviewed the unaudited consolidated financial statements for the first quarter of 2021.

(Detailed comparisons between 2021 and 2020 are like-for-like, unless otherwise stated.)

Strong rebound in orders

After the year 2020 that was broadly affected by the COVID-19 crisis, Q1 2021 confirmed the improvement observed at the end of 2020, despite the persistent consequences of the health crisis, particularly in Europe.

This was shown in orders for perpetual software licenses, equipment and accompanying software, and non-recurring services (25.9 million euros), which were up 40% compared to Q1 2020, which had suffered from the initial impacts of the containment measures put in place by China and then by many other countries. As for the annual value of new software subscription orders (0.8 million euros), it increased by 25%.

Geographically, the improvement in business activity was contrasted across regions: orders for perpetual software licenses, equipment and accompanying software, and non-recurring services were 115% higher in Asia-Pacific, 43% higher in the Americas, but only 6% higher in Europe.

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Growth in revenues, doubling of income from operations before non-recurring items

Revenues (66.7 million euros) were up 9% compared to Q1 2020 (+5% at actual exchange rates).

Revenues from perpetual software licenses, equipment and accompanying software, and non-recurring services (25.1 million euros) increased by 19%, those from recurring contracts (24.7 million euros) by 3% and those from consumables and parts (16.8 million euros) by 7%.

Income from operations before non-recurring items (8.5 million euros) was up 100% (+66% at actual exchange rates). The operating margin before non-recurring items (12.7%) increased by 6.6 percentage points like-for-like (+4.7 percentage points at actual exchange rates). After a non-recurring charge of 1 million euros recognized in Q1 2021 for fees and other costs relating to the proposed acquisition of the company Gerber Technology, income from operations came to 7.4 million euros.

The EBITDA before non-recurring items totaled 11.4 million euros, up 64% (+42% at actual exchange rates). The EBITDA margin before non-recurring items was 17% (12.6% in Q1 2020).

Net income (6 million euros) increased by 77% at actual exchange rates.

Strong growth in free cash flow – a particularly robust balance sheet

Free cash flow before non-recurring items totaled 9.8 million euros (3.7 million euros for Q1 2020).

After disbursement of 0.4 million euros in respect of fees and other related expenses in connection with the proposed acquisition of the company Gerber Technology, free cash-flow came to 9.5 million euros.

Consolidated shareholders' equity amounted to 199.9 million euros and cash and cash equivalents, as well as net cash position, totaled 145.4 million euros.

Proposed acquisition of Gerber Technology

On February 8, 2021, Lectra announced having entered into a Memorandum of Understanding to acquire the entire capital and voting rights of the US-based company Gerber Technology. It then announced, on March 25, 2021, having entered into an acquisition agreement and plan of merger with AIPCF VI LG Funding LP ("AIPCF VI LG"), an affiliate of American Industrial Partners (AIP), for the transfer of ownership of Gerber Technology to Lectra. Subject to regulatory approval in the United States, Lectra shareholders will be invited to vote to approve the transaction and the issuance of 5 million new Lectra shares reserved for AIPCF VI LG at an Extraordinary Shareholders' Meeting, which will be held on June 1, 2021.

Business trends and outlook

In its 2019 Financial Report, published February 11, 2020, Lectra had reported its long-term vision and its new strategic roadmap for the 2020-2022 period. While the COVID-19 epidemic and its consequences had a very significant impact in 2020, most of the objectives of this 2020-2022 strategic roadmap remain valid, and particularly the acceleration towards Industry 4.0.

Financial objectives for 2022

Following the February 8, 2021 announcement of Lectra's proposal to acquire Gerber Technology, the Group reported on the 2022 financial objectives for the combined entity.

To provide a better indicator for measuring the results of the Group following this acquisition, Lectra has decided to employ EBITDA before non-recurring items to measure its operational performance.

Lectra has set itself the 2022 objective of returning to the level of combined revenue achieved by the two groups in 2019, which came to 482 million euros, and generating an EBITDA margin before non-recurring items of between 17% and 20% by adding the synergies expected from this acquisition to the operational performance of the two groups.

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2021 outlook and financial objectives

The uncertainty surrounding the evolution of the pandemic and its consequences on the macroeconomic environment, together with the degraded financial situation of the Group's customers continues to weigh on customers' investment decisions. The continuation of this situation could postpone or constrain the rebound in orders for new systems. The results of the first quarter of 2021 show that this continues to be the case notably in Europe.

The Group reported its 2021 objectives before taking into account the acquisition of Gerber Technology, namely, to achieve revenues in the range of 250 to 268 million euros (+9% to +17% like-for-like) and income from operations before non-recurring items in the range of 27 to 34 million euros (+27% to +60% like-for-like). These scenarios for 2021 have been prepared on the basis of the closing rates on December 31, 2020, and particularly \$1.23/€1 (compared to the average rate of \$1.14/€1 in 2020).

The results at March 31, 2021 are in line with plans.

Revised 2021 objectives that take into account the acquisition of Gerber Technology, which is expected to be finalized on June 1, 2021, will be reported on July 29 with the release of the financial statements for the second quarter and first half of 2021.

The 2020 Financial Report, as well as the Management Discussion and analysis of financial conditions and results of operations and the financial statements for Q1 2021 are available on lectra.com. The Combined Shareholders' Meeting will be held on April 30, 2021, without the physical presence of shareholders. It will be broadcasted live and a replay will subsequently be available in French on the Company's website. Q2 and H1 2021 earnings will be published on July 29, 2021, after the close of trading on Euronext Paris.

Materialise Reports First Quarter 2021 Results

29 April 2021

Materialise NV, a leading provider of additive manufacturing and medical software and of sophisticated 3D printing services, announced its financial results for the first quarter ended March 31, 2021.

Highlights – First Quarter 2021

- Total revenue was 45,554 kEUR for the first quarter of 2021, compared to 46,245 kEUR for the 2020 period.
- Total deferred revenues from annual software sales and maintenance fees increased 1,888 kEUR to 32,130 kEUR compared to December 31, 2020.
- Adjusted EBITDA was 5,341 kEUR for the first quarter of 2021 compared to 3,603 kEUR for the 2020 period.
- Net loss for the first quarter of 2021 was (3,667) kEUR, or (0.07) EUR per diluted share, compared to (2,899) kEUR, or (0.05) EUR per diluted share, for the 2020 period.
- Total cash was 107,568 kEUR at the end of the quarter; net debt was 2,960 kEUR, an improvement of 612 kEUR compared to December 31, 2020.

Executive Chairman Peter Leys commented, “While the global economy was still significantly impacted by the COVID-19 pandemic, Materialise performed well. We continued to bounce back, and our revenue came close to the level of the first quarter of 2020, which predated the pandemic. We are particularly encouraged by the fact that, alongside the revenue growth of Materialise Medical, which has

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been performing very strongly since Q3 2020, Materialise Software also posted growth this quarter. Our Adjusted EBITDA was a solid 5,341 kEUR, a 48.2% increase compared to the same period last year. In addition to our good financial performance during the past quarter, we took an important step to secure our growth in the longer term through the acquisition of an option to buy Link3D, a developer of AM manufacturing execution systems.”

First Quarter 2021 Results

Total revenue for the first quarter of 2021 was 45,554 kEUR, a decrease of 1.5% compared to 46,245 kEUR for the first quarter of 2020. Adjusted EBITDA increased 48.2% to 5,341 kEUR from 3,603 kEUR. The Adjusted EBITDA margin (Adjusted EBITDA divided by total revenue) for the first quarter of 2021 increased to 11.7% from 7.8% for the first quarter of 2020.

Revenue from our Materialise Software segment increased 4.1% to 10,219 kEUR for the first quarter of 2021 from 9,821 kEUR for the same quarter last year. Segment EBITDA increased 29.6% to 3,429 kEUR from 2,645 kEUR while the segment EBITDA margin increased to 33.6% from 26.9% for the prior-year period.

Revenue from our Materialise Medical segment increased 3.7% to 16,231 kEUR for the first quarter of 2021 compared to 15,645 kEUR for the same period in 2020. Segment EBITDA increased 85.0% to 4,541 kEUR compared to 2,455 kEUR while the segment EBITDA margin increased to 28.0% from 15.7% for the first quarter of 2020.

Revenue from our Materialise Manufacturing segment was 19,114 kEUR for the first quarter of 2021, a decrease of 8.2% from 20,815 kEUR for the first quarter of 2020. Segment EBITDA decreased to (144) kEUR from 1,118 kEUR while the segment EBITDA margin was (0.8)% compared to 5.4% for the first quarter of 2020.

Gross profit remained stable at 24,568 kEUR compared to 24,585 kEUR for the same period last year, while the gross profit margin increased to 53.9% of total revenue from 53.2% for the first quarter of 2020.

Research and development (“R&D”), sales and marketing (“S&M”) and general and administrative (“G&A”) expenses decreased, in the aggregate, 3.6% to 25,398 kEUR for the first quarter of 2021 from 26,351 kEUR for the first quarter of 2020.

Net other operating income was 1,120 kEUR compared to 683 kEUR for the first quarter of 2020.

Operating result increased to 290 kEUR from (1,084) kEUR for the first quarter of 2020.

Net financial result was (4,112) kEUR compared to (1,321) kEUR for the first quarter of 2020.

Excluding the impairment of our loan position in Ditto for an amount of (3,201) kEUR, net financial result was (911) kEUR.

The first quarter of 2021 contained income tax expenses of 155 kEUR, compared to (457) kEUR in the first quarter of 2020.

As a result of the above, net loss for the first quarter of 2021 was (3,667) kEUR, compared to (2,899) kEUR for the same period in 2020. Total comprehensive income for the first quarter of 2021, which includes exchange differences on translation of foreign operations, was (6,996) kEUR compared to 284 kEUR for the 2020 period.

At March 31, 2021, we had cash and cash equivalents of 107,568 kEUR compared to 111,538 kEUR at December 31, 2020. Gross debt amounted to 110,527 kEUR, compared to 115,110 kEUR at December 31, 2020. As a result, our net debt position (gross debt less cash and cash equivalents) was (2,960)

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kEUR, an improvement of 612 kEUR compared to December 31, 2020.

Cash flow from operating activities for the first quarter of 2021 was 4,231 kEUR compared to 7,273 kEUR for the same period in 2020.

Total capital expenditures for the first quarter of 2021 amounted to 2,011 kEUR.

Net shareholders' equity at March 31, 2021 was 129,961 kEUR compared to 133,104 kEUR at December 31, 2020

2021 Guidance

Mr. Leys concluded, "In the second quarter of 2021, we currently expect that our consolidated revenues will continue to grow sequentially, with the potential to be up to 10% higher than in this year's first quarter. As our business gradually recovers from the crisis, we also intend to gradually increase expenditures in our growth initiatives, which will also impact our Adjusted EBITDA. We are cautiously optimistic that the positive trend we have been seeing in the first months of the year will continue throughout the rest of 2021, but in view of the unpredictability of the COVID-19 crisis, our visibility remains too uncertain to provide quantitative guidance for the full year of 2021."

Non-IFRS Measures

Materialise uses EBITDA and Adjusted EBITDA as supplemental financial measures of its financial performance. EBITDA is calculated as net profit plus income taxes, financial expenses (less financial income), shares of profit or loss in a joint venture and depreciation and amortization. Adjusted EBITDA is determined by adding share-based compensation expenses, acquisition-related expenses of business combinations, impairments and revaluation of fair value due to business combinations to EBITDA. Management believes these nonIFRS measures to be important measures as they exclude the effects of items which primarily reflect the impact of long-term investment and financing decisions, rather than the performance of the company's day-to-day operations. As compared to net profit, these measures are limited in that they do not reflect the periodic costs of certain capitalized tangible and intangible assets used in generating revenues in the company's business, or the charges associated with impairments. Management evaluates such items through other financial measures such as capital expenditures and cash flow provided by operating activities. The company believes that these measurements are useful to measure a company's ability to grow or as a valuation measurement. The company's calculation of EBITDA and Adjusted EBITDA may not be comparable to similarly titled measures reported by other companies. EBITDA and Adjusted EBITDA should not be considered as alternatives to net profit or any other performance measure derived in accordance with IFRS. The company's presentation of EBITDA and Adjusted EBITDA should not be construed to imply that its future results will be unaffected by unusual or non-recurring items.

Exchange Rate

This document contains translations of certain euro amounts into U.S. dollars at specified rates solely for the convenience of readers. Unless otherwise noted, all translations from euros to U.S. dollars in this document were made at a rate of EUR 1.00 to USD 1.1725, the reference rate of the European Central Bank on March 31, 2021.

Conference Call and Webcast

Materialise will hold a conference call and simultaneous webcast to discuss its financial results for the first quarter of 2021 on Thursday, April 29, 2021, at 8:30 a.m. ET/2:30 p.m. CET. Company participants on the call will include Wilfried Vancraen, Founder and Chief Executive Officer; Peter Leys, Executive Chairman; and Johan Albrecht, Chief Financial Officer. A question-and-answer session will follow

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management's remarks.

- To access the conference call, please dial 844-469-2530 (U.S.) or 765-507-2679 (international), passcode 6683847#.

The conference call will also be broadcast live over the Internet with an accompanying slide presentation, which can be accessed on the company's website at <http://investors.materialise.com>. A webcast of the conference call will be archived on the company's website for one year.

(1) Share-based compensation expenses represent the cost of equity-settled and cash-settled share-based payments to employees.

(2) Acquisition-related expenses of business combinations represent expenses incurred in connection with the acquisition of our option to buy Link3D.

*The quarter ended March 31, 2020 has been restated to reflect the final accounting of the business combination with Engimplan. Impact on operating result of (47) kEUR

Pros Holdings, Inc. Reports First Quarter 2021 Financial Results

4 May 2021

PROS Holdings, Inc., a provider of AI-powered solutions that optimize selling in the digital economy, today announced financial results for the first quarter ended March 31, 2021.

"I'm incredibly proud of how our team executed in the first quarter," stated CEO Andres Reiner. "We exceeded the high end of our guidance range across all metrics and welcomed some amazing new customers to the PROS family. We're confident in our business and the momentum we're seeing, and as a result, we're happy to be able to provide annual guidance once again."

First Quarter 2021 Financial Highlights

Key financial results for the first quarter 2021 are shown below. Throughout this press release, all dollar figures are in millions, except net loss per share. Unless otherwise noted, all results are on a reported basis and are compared with the prior-year period.

	GAAP			Non-GAAP		
	Q1 2021	Q1 2020	Change	Q1 2021	Q1 2020	Change
Revenue:						
Total Revenue	\$61.4	\$66.3	(7)%	n/a	n/a	n/a
Subscription Revenue	\$42.6	\$43.2	(1)%	n/a	n/a	n/a
Subscription and Maintenance Revenue	\$52.3	\$55.7	(6)%	n/a	n/a	n/a
Profitability:						
Gross Profit	\$34.9	\$37.6	(7)%	\$36.1	\$39.1	(8)%
Operating Loss	\$(20.6)	\$(21.4)	\$0.8	\$(11.6)	\$(13.1)	\$1.5
Net Loss	\$(22.0)	\$(22.7)	\$0.7	\$(9.7)	\$(9.8)	\$0.1
Net Loss Per Share	\$(0.50)	\$(0.53)	\$0.03	\$(0.22)	\$(0.23)	\$0.01
Adjusted EBITDA	n/a	n/a	n/a	\$(9.4)	\$(11.4)	\$2.1

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Cash:

Net Cash Used in Operating Activities	\$(4.4)	\$(24.2)	\$19.7	n/a	n/a	n/a
Free Cash Flow	n/a	n/a	n/a	\$(4.6)	\$(25.5)	\$20.9

The attached table provides a summary of PROS results for the period, including a reconciliation of GAAP to non-GAAP metrics.

Recent Business Highlights

- Welcomed new customers that are adopting our digital selling technology such as Dedalus, Deluxe, Florida Water Products, and United Airlines, among others.
- Designated as one of the 2021 Best Workplaces in Texas by Great Place to Work, in recognition of PROS people first culture and commitment to creating an inclusive environment where employees can bring their authentic selves to work.
- Named inaugural winner of the 2021 Artificial Intelligence Excellence Award for Machine Learning, in recognition of our market-leading AI-powered digital selling innovations.
- Named a Microsoft Top 350 U.S. Partner by Redmond Channel Partner, placing PROS in the top 1% of Microsoft partners, continued proof of our successful partnership.
- Appointed Katrina Klier as Chief Marketing Officer to lead PROS global marketing strategy, responsible for fueling revenue growth by optimizing demand generation, increasing engagement, and amplifying brand visibility.

Financial Outlook

PROS currently anticipates the following based on an estimated 44.3 million basic weighted average shares outstanding for the second quarter of 2021 and a 22% non-GAAP estimated tax rate for the second quarter and a full year 2021.

	Q2 2021 Guidance	v. Q2 2020 at Mid-Point	Full Year 2021 Guidance	v. Prior Year at Mid-Point
Total Revenue	\$61.0 to \$62.0	(4)%	\$250.5 to \$253.5	—%
Subscription Revenue	\$43.0 to \$43.5	2%	\$176.5 to \$179.5	4%
ARR	n/a	n/a	\$211.0 to \$216.0	2%
Non-GAAP Loss Per Share	\$(0.23) to \$(0.21)	\$(0.08)	n/a	n/a
Adjusted EBITDA	\$(10.0) to \$(9.0)	\$(3.8)	\$(36.0) to \$(33.0)	\$(6.9)
Free Cash Flow	n/a	n/a	\$(39.0) to \$(35.0)	\$16.3

Conference Call

In conjunction with this announcement, PROS Holdings, Inc. will host a conference call on Thursday, May 4, 2021, at 4:45 p.m. ET to discuss the Company's financial results and business outlook. To access this call, dial 1-877-407-9039 (toll-free) or 1-201-689-8470. The live and archived webcasts of this call can be accessed under the "Investor Relations" section of the Company's website.

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A telephone replay will be available until Tuesday, May 18, 2021, at 1-844-512-2921 (toll-free) or 1-412-317-6671 using the pass code 13718107.

Stratasys Releases First Quarter 2021 Financial Results

5 May 2021

Stratasys Ltd. announced financial results for the first quarter of 2021.

First Quarter 2021 Financial Results Summary Compared to First Quarter 2020:

- Revenue of \$134.2 million compared to \$132.9 million.
- GAAP gross margin was 41.4%, compared to 45.0%.
- Non-GAAP gross margin was 46.7%, compared to 48.4%.
- GAAP operating loss was \$18.4 million, compared to an operating loss of \$19.9 million.
- Non-GAAP operating loss was \$2.6 million, compared to an operating loss of \$8.4 million.
- GAAP net loss was \$18.9 million, or \$0.32 per diluted share, compared to a net loss of \$21.7 million, or \$0.40 per diluted share.
- Non-GAAP net loss was \$3.8 million, or \$0.06 per diluted share, compared to a net loss of \$10.6 million, or \$0.19 per diluted share.
- Adjusted EBITDA was \$3.5 million, compared to \$(2.1) million.
- Cash from operations of \$22.8 million, compared to \$11.3 million.

“I am pleased with our performance in the first quarter that drove 41% growth in system revenues. Thanks to our team’s dedication and successful execution, Stratasys delivered solid results and is well-positioned at the forefront of our industry, as end markets continue to recover and 3D printing industry growth accelerates,” stated Dr. Yoav Zeif, Chief Executive Officer of Stratasys.

Dr. Zeif continued, “3D printing is migrating from being primarily a prototyping tool to providing full-scale, digital manufacturing platforms at mass production levels. With our focused business model, we continue to make progress on our strategy to grow our manufacturing applications, which will solidify our position as the first choice in polymer 3D printing. We recently hosted an unprecedented online event for over 4,500 customers, resellers and partners, where we introduced three next-generation manufacturing systems that address a large portion of the multibillion-dollar market opportunity in additive manufacturing of end-use parts and will play an integral role in positioning the business for future growth. Looking to the rest of 2021, we will continue to prioritize strategic investments that we expect to yield significant returns and sustained profitability in the years to come. With a fortress balance sheet and multiple growth opportunities in front of us, we are poised to build incremental value for our shareholders,” concluded Dr. Zeif.

Financial Outlook:

The Company is reiterating and updating its outlook as follows:

- Second quarter 2021 revenue of mid-teens percentage growth year-over-year.
- Full year operating expenses expected to rise approximately \$25 million to \$30 million compared to 2020, likely closer to the high end of the range, primarily due to the return of employees to a full-time schedule starting January 1, 2021, as well as the impact of recent acquisitions.
- Full year capital expenditures anticipated range from \$24 million to \$30 million.

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- Longer term, the Company continues to expect significant leverage benefit from its investments as revenue growth should accelerate in 2022 and beyond.

Stratasys Ltd. First Quarter 2021 Webcast and Conference Call Details

The Company plans to webcast its conference call to discuss its first quarter 2021 financial results on Wednesday, May 5, 2021 at 8:30 a.m. (ET).

The investor conference call will be available via live webcast on the Stratasys Web site at investors.stratasys.com.

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.

Trimble Reports First Quarter 2021 Results and Increases Full Year Guidance

5 May 2021

Trimble Inc. announced financial results for the first quarter of 2021.

First Quarter 2021 Financial Highlights

- GAAP revenue of \$886.5 million, up 12 percent year over year, and non-GAAP revenue of \$886.7 million, up 12 percent year over year
- Annualized recurring revenue (ARR) was \$1.32 billion, up 9 percent year over year
- GAAP operating income was \$140.9 million and non-GAAP operating income was \$209.2 million
- GAAP net income was \$114.5 million and non-GAAP net income was \$167.0 million
- Diluted earnings per share was \$0.45 on a GAAP basis and \$0.66 on a non-GAAP basis
- Adjusted EBITDA of \$231.3 million, 26.1 percent of revenue
- Operating cash flow on a trailing twelve months basis was \$744.5 million, up 26 percent year over year

Executive Quote

"Our first quarter results exceeded expectations," said Rob Painter, Trimble's president and chief executive officer. "Growth in total revenue, annualized recurring revenue, and EBITDA reflect increasing end-market strength and execution of our Connect and Scale 2025 strategy."

Forward Looking Guidance

For the full year 2021, Trimble now expects to report GAAP revenue between \$3,399.7 million and \$3,499.7 million and GAAP earnings per share of \$1.49 to \$1.68, and non-GAAP revenue between \$3,400.0 million and \$3,500.0 million and non-GAAP earnings per share of \$2.30 and \$2.50. GAAP guidance assumes a tax rate of 18.0 to 19.0 percent and non-GAAP guidance assumes a tax rate of 17.0 to 17.5 percent. Both GAAP and non-GAAP earnings per share assume approximately 255 million shares outstanding. A reconciliation of the non-GAAP measures to the most directly comparable GAAP measures and other information relating to these non-GAAP measures are included in the supplemental reconciliation scheduled attached.

Investor Conference Call / Webcast Details

Trimble will hold a conference call on May 5, 2021 at 2:00 p.m. PT to review its first quarter 2021

results. An accompanying slide presentation will be made available on the "Investors" section of the Trimble website, www.trimble.com, under the subheading "Events & Presentations." The call will be broadcast live on the web at <http://investor.trimble.com>. Investors without internet access may dial into the call at (800) 528-9198 (U.S.) or (702) 928-6633 (international). The passcode is 1719909. The replay will also be available on the web at the address above.

Implementation Investments

Accenture Accelerates Mankind Pharma's Digital Transformation with Data-Driven Cloud Platform

3 May 2021

Mankind Pharma, the fourth largest pharmaceutical manufacturing company headquartered in India, has collaborated with Accenture to accelerate its digital transformation journey to become an intelligent enterprise, improving business agility, performance, and operational efficiency.

Accenture has redesigned the pharma major's business processes across key functions such as finance, supply chain, sales and procurement for better inventory optimisation, demand planning, workforce productivity and product availability. As part of the project, Accenture deployed a digital platform based on SAP S/4HANA®, a Microsoft Azure cloud-based data lake and Tableau dashboards, providing cloud-based analytics to help Mankind Pharma get deeper insights into its global business operations and performance. The platform integrates data in real-time from multiple sources across the supply chain, workforce and sales to provide a consolidated view of market insights. This can help the management team make informed decisions around business strategy, planning and product development.

The project was completed remotely during the ongoing pandemic with no impact on business continuity.

“At Mankind Pharma, we are committed to product innovation so we can provide high quality and affordable pharmaceutical products to people across the world,” said Arjun Juneja, chief operating officer, Mankind Pharma. “Digitally transforming our business processes with support from Accenture has been key to unlocking value trapped within the organization, accelerating real time decision making, and improving our product innovation lifecycle.”

Rishabh Bindlish, India Life Sciences and global generics lead, Accenture, added: “Digital reinvention can not only help pharma companies deliver high-quality and hyper-personalized services, but also improve business performance and build resilience against future disruptions. We are focused on helping Mankind Pharma embrace change and emerge as a data-driven enterprise to enhance its customer-centricity bringing innovative offerings to market at a faster pace and scale for patients.”

Dassault Systèmes Partners with Skidmore Group to Deliver First Implementation of “HomeByMe for Kitchen Retailers” in North America

5 May 2021

Dassault Systèmes has partnered with Canada-based Skidmore Group on the first implementation of its “HomeByMe for Kitchen Retailers” 3D kitchen planning solution in North America. When Skidmore Group launched its new kitchen retail brand, Oasis Kitchens, with the aim to simplify the consumer design process and make dream kitchens a reality, “HomeByMe for Kitchen Retailers” provided Skidmore Group with a multi-channel cloud-based 3D solution that is fast, intuitive and easy-to-use for customers.

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The first store to implement the solution was the Oasis Kitchens pilot store in Coquitlam, Canada. Oasis Kitchens has opted for a phased rollout of the solution in its Western Canadian store network and currently offers the solution on its website.

For Skidmore Group and its brand Oasis Kitchens, the solution reinforces customer qualification as customers navigate through the solution and design their kitchen based on their personal preferences. For customers, personalized design recommendations, error management, and accurate pricing based on their selections provide a unique, branded experience for a kitchen that is fully compliant with local rules and guidelines. Once customers view high quality, 3D renderings of their kitchen they designed in 10 minutes or less on a tablet or computer, they have the option of buying online in the moment or bringing their emailed renderings and sales-ready itemized price list into a store to begin the installation process.

“When it comes to the kitchen design process, customers can become confused or lost, with no clear picture of the final product,” said Rody van Vianen, Director of Digital, Oasis Kitchens. “We wanted to offer our customers the ability to take full control of their kitchen design and empower them to make personalized decisions based on their exact kitchen measurements in their homes. Through 3D technology, customers are able to design their kitchen in their own space and visualize their future kitchen with lifelike HD images, giving them a kitchen to be proud of.”

“Skidmore Group and its brand Oasis Kitchens are pioneering innovation in the North American kitchen retail market and know the value inspiration has with today’s consumer,” said Vincent Picou, CEO, 3DVIA, Dassault Systèmes. “Through this collaboration with a company that embraces the power of digital transformation, we can drive the use of 3D space planning technology in a dynamic market.”

Delta Galil Kicks off the New Year by Boosting Product Development Efficiency

3 May 2021

Delta Galil, the multinational apparel manufacturer has selected Centric Software®’s Product Lifecycle Management (PLM) solution. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Delta Galil was founded in 1975 and is headquartered in Caesarea, Israel, making apparel for men, women and children. Their design, development and manufacturing centers are located on 4 continents, employing 23,000 associates. It produces clothing for over 50 industry-leading brands like Nike, Victoria’s Secret, Calvin Klein, and more, as well as their own brands like Splendid and 7 for All Mankind.

Stephan Findikyan, VP of Business Process for Delta Galil, led the project of upgrading the PLM process. Utilizing his network of industry connections, he noticed great reviews of Centric PLM, helpful in vetting Centric’s solution. Having done PLM implementations himself, Findikyan says: “the fact that Centric was built by and for retail and fashion is a big differentiator and was a huge advantage to me”. He sums up the platform that Delta would choose: “It had to be a fashion-friendly, flexible solution.”

Centric’s flexibility and ease of use were priorities for Delta. “Looking at Centric’s customer base I felt that it was a great match, because Delta’s needs are not one size fits all. Delta Galil is a global company, which prides itself on entrepreneurial business teams. It wanted to make sure the solution addressed all of their diverse requirements” added Findikyan.

“The Centric team has been terrific to work with” Findikyan says. “They went out of their way to

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answer questions and provide me with additional information as we made our decision. We look forward to implementing and using the many functions Centric will give us”.

Chris Groves, President and CEO of Centric Software commented “We are honored to have been chosen by Delta Galil for their digital transformation journey. It is gratifying to have the trust of such a diverse and global business, and we look forward to our continued partnership.”

HCL TO BUILD A NEW DIGITAL FOUNDATION FOR HITACHI ABB POWER GRIDS

4 May 2021

HCL Technologies (HCL), a leading global technology company, announced a multi-year contract with Hitachi ABB Power Grids, the leader in sustainable, digital energy solutions, to build a new greenfield digital foundation as part of a global transformation program. Through this engagement, HCL will help Hitachi ABB Power Grids establish a new, efficient and modern independent IT organization. The engagement will support its continued business transformation by reducing dependency on the historic ABB IT services infrastructure.

Hitachi ABB Power Grids was formed in 2020 as a joint venture between Hitachi and ABB to create a new global leader in pioneering power and digital technologies. As part of the new digital foundation, HCL will provide Hybrid Cloud Services, Digital Workplace Services, Next-gen Network Services, Unified Service Management and Cybersecurity Services. Leveraging HCL’s “Cloud Smart” offerings, Hitachi ABB Power Grids will benefit from an adaptive portfolio with innovative cloud services driven by intelligent automation and a powerful partner ecosystem. These capabilities will enhance Hitachi ABB Power Grids’ operations in more than 90 countries and improve end-user experiences for its 36,000 employees worldwide. Hitachi ABB Power Grids identified that HCL was best placed to develop from scratch a new Digital Foundation that would meet its strategic objectives to drive simplicity, speed and scalability throughout its global operations. HCL will establish strategic digital platforms, global standardization of IT services and future-proof solutions to keep pace with changing business requirements and evolving technology capabilities.

“As a pioneering technology leader, we’re digitalizing the entire energy value chain to make the world’s power grids stronger, smarter and greener. It’s crucial that this transformation also includes our internal operations, as well as the solutions we create for our clients,” said Michael Loechle, CIO, Hitachi ABB Power Grids. “We knew we needed to break away from the historic IT organization we’d inherited, and HCL was the perfect strategic partner to help us create a next-generation operating model. We were particularly impressed by HCL’s ability to create high quality and end user-focused solutions for our employees and offer an end-to-end model to ensure seamless execution. HCL’s track record for bringing a culture of innovation to service delivery will ensure we are well placed to enjoy the long-term and sustainable benefits of digitalization.”

“We’re excited to work with Hitachi ABB Power Grids to build a new independent Digital IT environment. HCL will bring its well-developed expertise in executing complex carve-out programs for the new digital world,” said Pankaj Tagra, Corporate Vice President and Nordic and DACH Head, HCL Technologies. “The opportunity to build a new Digital Foundation for such a major global organization is testament to the trust that our clients have in HCL’s next-generation transformational expertise.”

Hellenic Life Puts Customer Experience First with Oracle

30 April 2021

Hellenic Life, the life insurance subsidiary of Hellenic Bank Group, one of the largest banking and financial institutions in Cyprus, has selected Oracle Financial Services solutions to help improve operational efficiency and customer experience. Running on Oracle Cloud Infrastructure (OCI), Oracle's Insurance Policy Administration (OIPA), Oracle Insurance Customer Communication Management (Documaker), and Oracle NetSuite will help give the insurer the agility to make decisions on policies more quickly and provide better visibility across its operations.

"We wanted a solution that would streamline our internal operations, as we know that's key to providing a better customer experience," said Hellenic Life General Manager Andreas Papadatos. "At the same time, we didn't want to compromise on security, as everything we do must adhere to strict European regulations. Oracle and its strategic partners helped us build the infrastructure needed to support our customers with solutions completely configured to their needs and under the required regulations."

For the overall solution implementation of the project, Oracle collaborated with Newcytech Business Solutions Ltd, a member of Oracle PartnerNetwork (OPN) and a leading Systems Integrator company in Cyprus. Newcytech has also worked closely with the subject matter experts, Equisoft and Inplenion to implement Oracle Insurance Policy Administration and Documaker, and to implement Oracle NetSuite, respectively.

Oracle Insurance Policy Administration, together with Equisoft's portal, will enable customers and advisers to get to answers quickly using self-service tools. The Oracle Insurance Policy Administration integration will enable faster data processing for swifter decisions on quotes. If the customer wishes to proceed, Oracle Documaker will then dynamically create a policy for purchase. Not only can customers have a convenient, quick experience, but the customer service teams are freed up to focus on more strategic tasks or to deal with more complex customer queries.

Insurance processes such as billing, collections, and policy processing, will also be consolidated on a single platform and work in tandem with accounting functions through Oracle NetSuite. With information flowing freely between systems and tracking every transaction, Hellenic Life will be able to carry out underwriting and audits more seamlessly, significantly enhancing the insurer's ability to meet compliance requirements.

Hellenic Life selected OCI, OIPA, Oracle DocuMaker, and Oracle NetSuite in April 2020.

Infor Helps Penn Highlands Healthcare Create Clinically Connected Healthcare Operations Platform in the Cloud

6 May 2021

Infor, the industry cloud company, announced that Penn Highlands Healthcare (PHH), a six-hospital integrated health system in northwestern Pennsylvania, has selected Infor CloudSuite Healthcare and Infor Cloverleaf Cloud to move forward its future vision. Working alongside key Infor implementation partner Bails, the move to a more modern cloud architecture solution will provide PHH with a clinically-connected healthcare operations platform on which to build its patient-centered network.

"Our organization has grown and evolved throughout the years, both through a healthy pipeline of

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acquisitions and organically, and we needed to find a partner that could help us seamlessly consolidate disparate systems into one single source of truth. Infor's proven cloud-based model will be able to support our ROI goals, provide an ease of future upgrades, and keep us comprehensively current with technology,” said Heather Schneider, Penn Highlands Healthcare CFO. “Infor and its healthcare-specific solutions were the right choice for us. Now, we’ll be able to standardize and optimize across our health system to achieve our strategic business goals and vision of providing premier care to the communities we serve.”

New to the Infor family, PHH knew that Infor was the right partner to help the organization navigate this transition and get it up and running quickly on highly connected, scalable, and modern tools for analytics, cost accounting, supply chain management and human capital management. PHH will be able to consolidate information across its network and deliver financial data to decision makers that will improve budget management, cost reduction strategies and forecast accuracy. In addition, they will be able to reduce the total number of reports, interfaces, conversions, and enhancement components, which will allow their teams to be more productive and more strategic.

Infor Cloverleaf Cloud will deliver clinical integration technologies that create a foundation to manage, coordinate, and share data across the care continuum to improve quality and care outcomes. Teams at PHH have access to secure messaging, monitoring, archiving, resiliency, and cost-efficient interoperability via industry standard protocols and web services, regardless of the source system, message format, or transmission protocol. In addition, PHH will incorporate Infor HR applications designed specifically for the healthcare industry. This includes integrated and robust workforce and talent management capabilities such as enabling anywhere access via any mobile device and enabling PHH to create an HR service center. PHH will also benefit from modern staffing technology that provides nurses more control over their own schedules and work role preferences. The solution will create a culture of self service, letting staff change shifts, control hours worked, and even pick up hours.

“The influx of data isn’t slowing down anytime soon, and this rings especially true for larger healthcare organizations that need to keep track of supplies, contracts, expenses, revenues and, most importantly, its workforce. Technology is now a competitive advantage with its ability to empower teams, improve results, and remove administrative redundancies, within a single interface,” said Mike Poling, Infor Healthcare senior vice president and group manager. “Infor is able to offer agile cloud applications specific to the needs of the healthcare industry that ensure relevant information is available and easily accessible to the right people at the right time, to avoid unnecessary and costly redundancies – from actionable costing information to analytics to value-based supply chain support.”

Jaguar Land Rover Transforms Global Marketing Communications Model

6 May 2021

Jaguar Land Rover will transform its global marketing operations as part of its ongoing commitment to be the creator of the world’s most distinct luxury vehicles, delivering a more personalized customer experience, with creativity and technology at its core.

As the competitive landscape continues to evolve with increasing digital touchpoints, more connected vehicles and various ownership models, Jaguar Land Rover is making another step change in the transformation of its world-class brands with the appointment of Accenture. Accenture will join forces with Spark44, Jaguar Land Rover’s successful client-agency joint venture to create a new bespoke model.

This new approach will play a central role in Jaguar Land Rover’s move to an electric-first, modern

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luxury business. As part of the radical digitalization of the company's marketing communications, the development of connected services will create new experiences, new levels of intimacy and an enhanced ownership experience for customers.

Jaguar Land Rover will benefit from the combined capabilities of Accenture and Spark44, bringing together world-class brand creative with multi-platform, digital-first, personalized customer experiences, enhancing the purchasing and ownership experience and providing a more precise approach across all brand touchpoints.

Felix Bräutigam, chief commercial officer of Jaguar Land Rover, said: "At the heart of our Reimagine Strategy we aim to transform Jaguar Land Rover into a truly customer led modern luxury business. Therefore, having a highly engaging, personalized, connected customer journey is essential to further strengthening both Jaguar and Land Rover as unique and distinct brands. Customers expect a seamless interaction with their brand and car, their experience must fit into their lifestyle and the move towards an all-electric future. We will also see more varied ownership models and connected cars that are designed to fit with our individual ways of living. All of which requires a significant step change in our marketing approach, how we talk to our prospects and customers.

"We are excited about our new innovative model," said Bräutigam. "I am confident that this will bring creative excellence alongside digital brilliance while delivering even more amazing Jaguar and Land Rover specific brand experiences."

A global powerhouse, Accenture was chosen for its technology capabilities, data-led performance, and experience-led approach. Jaguar Land Rover will leverage the strength of Accenture Interactive—helping transform its business through the lens of experience, creative and digital capabilities—and tap into Accenture Operations' marketing delivery capabilities, with its SynOps platform enabling AI-powered insights and highly automated production around the world.

Brian Whipple, group chief executive of Accenture Interactive, said: "Jaguar Land Rover has always been upheld as a pioneer within the automotive industry. We're proud to team with these iconic brands as Jaguar Land Rover boldly transforms its business, marketing model and creates a reimaged experience for its customers."

Spark44 was established in 2011 as a pioneering global client-agency joint venture. It has worked with Jaguar Land Rover across the global breadth and depth of brand communications, delivering award-winning creative and marketing effectiveness across end-to-end customer communications. As part of the new approach, Accenture will leverage Spark44's unique knowledge of the brands and customer touchpoints with its consultancy, marketing services and automation capabilities.

Alex Buck, chief executive officer of Spark44, said: "We're delighted that Spark44 continues to be part of transforming Jaguar Land Rover's marketing model. For the last decade, Jaguar Land Rover and Spark44 have worked together to achieve strong growth and now we will be taking this to the next level by joining forces with Accenture. The future of brand communication lies in fusing together the rich online and offline data sources to provide seamless end-to-end customer experiences. Having a single customer view across all channels, globally, will enable us to deliver the personalized, connected experiences expected of both the Jaguar and Land Rover brands."

Premier League Selects Oracle Cloud Infrastructure to Power New Advanced Football Analytics

6 May 2021

The Premier League, the world's most watched football league, has chosen Oracle as its official cloud provider. In teaming with Oracle, the Premier League will increase the excitement surrounding every

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game through new in-match statistics that provide a deeper understanding of the live action on the pitch. Oracle's data and analytics and machine learning technologies will deliver these groundbreaking statistics in real-time to a global audience of billions each season.

“Match Insights – Powered by Oracle Cloud” will present advanced player performance data and statistics during global broadcast coverage, and across the Premier League's social channels, starting with the 2021/22 season. Machine learning models will be developed to generate immediate results based on live data streams, real-time tracking data, and facts collected on each of the League's players and from thousands of previous matches.

Research shows that fans are interested in the integration of match data and analysis, and these insights will help tell more stories about Premier League matches, providing fans a data-rich experience. Fans will be able to access a range of match information instantly, whether they are watching from home or checking scores on their mobile devices.

Premier League Chief Executive, Richard Masters, said: “We are always looking at new ways to bring the Premier League to life and enhance the analysis of the competition. Oracle is a global brand with a great track record of driving innovation, and we look forward to working together to bring new levels of engagement to fans around the world.”

“Match Insights – Powered by Oracle Cloud” will include:

- **Average Formation** – This tracks the positions of all players when their team is in and out of possession. The model highlights differences in how teams organize themselves when attacking and defending. During the match, fans will see how teams react to their opposition's tactics, helping viewers to understand the strategies behind different styles of play.
- **Live Win Probability** – This statistic further tells the story of a team's performance by calculating the chance of a team securing a win or draw by simulating the remainder of the match 100,000 times. The model is based on four years of match data and takes into account if a team is home or away, the current score, penalties awarded, players on the pitch, red cards and time left in the match.
- **Momentum Tracker** – This measures the likelihood of the team in possession scoring a goal in the next 10 seconds. The results are based on data from thousands of historical games and the last five events in the current possession. The model incorporates the outcomes of passes, dribbles in possession, tackles and the locations on the pitch where they take place.

“Combining Oracle's machine learning expertise with the Premier League's wealth of football data is a significant merger of technology and sport,” **said Ariel Kelman, Oracle executive vice president and chief marketing officer.** “The margins for error in the Premier League are very small, so the data is crucial to discovering the meaningful moments and stories of each match. It's those stories that unite fans and ignite their passions for the game.”

Additional Match Insights will be introduced throughout the 2021/22 Premier League season which is scheduled to start on August 14.

Storegga Selects New Financial Management Solution to Support its Growing Project Portfolio

5 May 2021

Infor, the industry cloud company, announced that Storegga has chosen a suite of Infor applications — to be implemented by Infor gold channel partner Progressive TSL — to support its development of net zero infrastructure.

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Backed by private investment, Storegga is progressing a range of multi-partner, net zero infrastructure initiatives, including as lead developer of the Acorn Carbon Capture and Storage (CCS) and Hydrogen Project in north east Scotland.

Storegga recognised that its rapidly growing portfolio required a robust solution to support its accounting, financial reporting and procurement. This includes provision of accurate, timely financial statements to its joint venture and investment partners.

Key requirements of the new financial management system include:

- Joint venture reporting
- Multi-country and multi-currency
- Automated cutback process
- Automation and administrative efficiency

Storegga selected Progressive TSL to implement the Infor SunSystems, Infor EAM and Infor OS (Operating Services) platform.

Progressive's implementation of Infor SunSystems, alongside Infor EAM, will provide Storegga with a powerful financial management and procurement solution, with Infor OS for mobile application access and financial approvals on the go. Progressive TSL can also configure Infor EAM to include other features such as Asset Maintenance as Storegga's operations develop.

"The team at Progressive TSL are excited to be contributing to these pioneering net zero projects," said Chris Walcot, Progressive TSL's CEO. "We have much experience supporting energy companies during periods of rapid growth through acquisitions and innovation, where there is need to quickly implement and consolidate subsidiary systems. We are well placed to support Storegga on this journey."

Jim Perry, financial management specialist at Infor, said, "Infor's integrated data architecture will provide Storegga with unparalleled transparency and visibility into their business operations as well as accurate and actionable financial reporting. We can support their joint venture accounting needs today, as well as other partner-oriented business models in the future."

Texelis Deploys Dassault Systèmes' 3DEXPERIENCE Platform to Digitally Develop Its Heavy-Duty Vehicles

6 May 2021

Dassault Systèmes announced that Texelis, a France-based developer and supplier of axles and powertrains for heavy-duty vehicles used in public transportation and defense, has completed the deployment of the 3DEXPERIENCE platform to improve its technological innovation and win more business in different markets with customer experiences that encompass design to service.

Texelis is using the 3DEXPERIENCE platform to digitally support its global product management. The 3DEXPERIENCE platform integrates design, engineering, simulation and manufacturing applications, and streamlines collaboration between teams, customers and suppliers. Texelis will increase its ability to develop products that can be configured and adapted for underground railways, trams, buses, cars, trucks and armored vehicles – even for prototypes or small series – and extend its product lifecycle management processes to maintenance, repairs and refurbishment services.

"We needed the agility to quickly respond to bids for different categories of products with more relevant offerings that demonstrate the added value of our services," said Charles Antoine de Barbuat, President, Texelis. "This is what the 3DEXPERIENCE platform enables. We will support our digital engineering

and manufacturing with improved collaboration and standardization. In just 7.5 months, even during the COVID-19 pandemic, we were able to migrate all our legacy data to the platform and have it fully operational for 140 employees.”

Today’s OEMs and suppliers must be able to respond rapidly to new business opportunities in a marketplace that is shifting toward demands for electric and hybrid technologies and bespoke mobility systems that can be serviced throughout their lifecycle. They must offer competitive pricing and technological innovations that meet customer requirements yet enable them to achieve profitable results.

The 3DEXPERIENCE platform enables product portfolio development planning, efficiency, quality and diversity. Texelis gains agility during the development phase to prevent risk, quickly validate and optimize new products, and deploy production suited for product variability.

“This project demonstrates that agility, innovation and fast deployment are key competitive advantages,” said Laurence Montanari, Vice President, Transportation & Mobility Industry, Dassault Systèmes. “By using the 3DEXPERIENCE platform, Texelis will share, improve and extend knowledge to design, engineer, validate, manufacture and deliver to its customers’ satisfaction.”

Product News

CADENAS 3DfindIT.com equipment models integration accelerates engineering efficiency for AVEVA E3D Design users

5 May 2021

AVEVA and CADENAS have joined forces to integrate the CADENAS technical search engine, 3DfindIT.com, into the AVEVA™ E3D Design system in the process plant and marine industries. This new, free plugin will provide users of AVEVA’s 3D design solution with the ability to select accurate equipment models from thousands of manufacturer catalogs and integrate them directly within their computer aided design (CAD) software environment, saving hours in design time and costly rework. “This partnership transforms engineering processes by accelerating the detailed design phase of industrial capital projects and the development of Engineering Digital Twins,” says Amish Sabharwal, Executive Vice President of the Engineering Business at AVEVA.

CAD models available in just a few clicks

The 3DfindIT.com plugin deploys intuitive search methods including 3D geometric similarity search, sketch search, color search, and function search, are specially tailored to the needs of CAD users. With the integration of 3DfindIT.com into AVEVA’s 3D design suite, users will no longer be required to spend hours surfing the web to find and verify the parts they need for their plant or ship design. Instead, engineers can quickly configure the desired components individually and capture the CAD & Building Information Modeling (BIM) equipment models directly into their existing designs with just a few clicks, all within a fully integrated design environment.

In alignment with AVEVA’s and CADENAS’ shared ambition to accelerate industrial digital transformation, this new offer will provide a step-change in engineering work processes by improving overall engineering efficiency and accuracy and ultimately helping the customers deliver industrial capital projects around the world on-time and on-budget.

CCE announces EnSuite-Cloud ReVue “LiveLink” for SOLIDWORKS and SketchUp

4 May 2021

CCE, a leading provider of advanced CAD interoperability technology, announced the immediate availability of its first set of CAD integrations (**ReVue LiveLink**) for EnSuite-Cloud ReVue, its flagship real-time 3D Collaboration software. Users can now securely collaborate in real-time directly from an interactive SOLIDWORKS or SketchUp session.

EnSuite-Cloud ReVue was launched last month as a first of its kind CAD collaboration product that provided users a secure platform for real-time collaboration using 3D digital assets while **maintaining complete control of their intellectual property**. Participants can use 3D multi-CAD data (parts & assemblies) from all major CAD formats like **CATIA V5, CATIA V6 (3DXML), SOLIDWORKS, NX, Creo, Autodesk Inventor, Solid Edge, JT, IFC and glTF**, among others, to conduct engineering design reviews directly in the browser.

Besides accessing EnSuite-Cloud from the browser, users can now use one of several CAD integrations (LiveLink) to start a secure collaboration session directly from the CAD system. CCE just announced **ReVue LiveLink for SketchUp** and **ReVue LiveLink for SOLIDWORKS**. Over the next few weeks, LiveLink will be available for other CAD systems like Solid Edge, Inventor, and Creo among others.

“Since emerging from beta last month, we have seen extremely encouraging response to EnSuite-Cloud ReVue. People acknowledged the need for a real-time 3D collaboration product aimed for engineering collaboration. The announcement of ReVue LiveLink for SketchUp and SOLIDWORKS and eventually for formats like Solid Edge, Inventor and Creo is a natural extension. Users can now directly start collaboration sessions from their CAD system,” said Vinay Wagle, CCE’s V.P. Sales and Marketing.

Users can download ReVue LiveLink for the CAD systems for free. However, an Organizer license is needed to access integrations. You also need a license of the CAD software for which you want to download the integration.

“CAD-integrated version of EnSuite-Cloud ReVue, ReVue LiveLink, is useful for design reviews like conceptual design or engineering changes, where the CAD model needs to be edited and the results updated in real-time with participants in the collaboration session. This one-step access saves time and makes real-time CAD collaboration natural and easy,” added Vinay.

Some of the key capabilities of EnSuite-Cloud ReVue include:

- **No software installation** or browser extensions required
- **Real-time collaboration** using 3D multi-CAD data - **no CAD licenses required**
- **No storing** of proprietary design data on any server
- **No data footprint** left after collaboration
- Integrated **conference call** facility
- Well-defined roles & privileges (Organizer, Presenter & Reviewer) for participants for **data protection**

Starting immediately, all new users can get a 15-day free trial for an Organizer license to evaluate the product.

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Coreform wins Department of Energy Phase IIB SBIR to develop an isogeometric approach to streamlining high-end structural dynamics simulation for automotive and other applications

5 May 2021

Coreform LLC, the leading developer of commercial spline-based simulation software, announces its award of a Department of Energy Phase IIB SBIR to develop an isogeometric approach to streamlining high-end structural dynamics simulation for automotive and other applications

Developers in automotive, defense, and related industries seek to run computer simulations on new designs to ensure accuracy, assess failings, and predetermine fatal and non-fatal errors; however, setting up and running these simulations is extraordinarily complex and correspondingly expensive. Even today's best methods for high-profile problems (e.g., simulating automotive crashes) require millions of dollars of effort to set up each simulation. These current methods are time-consuming, tedious, and frustrating even for seasoned veterans.

Coreform has developed an innovative technology that might solve this problem. Their patented flexible isogeometric analysis (Flex IGA) technology allows the interaction between the workflows in engineering design and analysis to be dramatically shortened, with improved accuracy. The Coreform technology will give analysts the ability to calibrate the level of accuracy given their requirements, from allowing for simulations to be run on CAD geometry with zero model simplification to detailed modeling for extreme accuracy. It also promises to accelerate high-end structural dynamics simulation times by up to 500x while returning more accurate results.

"We are very proud of the Flex IGA technology, and we are pleased that the DOE SBIR program sees this as a valuable project to pursue," says Coreform Director of Product Management Gregory Vernon. "We think this is going to change the game for high-end structural dynamics simulation applications."

This DOE Phase IIB SBIR will continue the maturation of the patented flexible isogeometric analysis (Flex IGA) technology, expand the range of physics available, and enhance the technology to leverage High-Performance Computing (HPC) fully. Customer-proposed benchmark problems will be used at all stages to verify the approach. The proposed methodology will produce a final toolset that will remove error-prone parts of the simulation workflow, improve simulation fidelity, simplify the user experience, and allow engineers of all experience levels to run high-end structural dynamics simulations for automotive other applications.

Focus PLM releases the first connector between Aras Innovator and BricsCAD®

5 May 2021

Focus PLM, the Aras Gold Partner that develops and distributes Direct PLM—a complete set of connectors between the innovative PLM platform Aras Innovator and the most popular MCAD systems on the market—has officially released a new version, 2021.1, that supports BricsCAD.

Aras provides a resilient platform for digital industrial applications. Its open, low code technology enables the rapid delivery of flexible, upgradeable solutions for the engineering, manufacturing, and maintenance of complex products. Aras' platform and product lifecycle management applications connect users in all disciplines and functions to critical product data and processes across the lifecycle and throughout the extended supply chain.

The new version of Direct PLM can now connect Aras Innovator with BricsCAD, a trusted 2D drafting and 3D modelling CAD tool used by more than 300,000 users worldwide.

"BricsCAD is a powerful and complete solution, perfectly fit both for pure 2D design and for auxiliary

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drawing generation in a multi-CAD environment,” pointed out Sergio Salsedo, CEO at Focus PLM. *“We are very pleased to provide the Aras community with a solution allowing the use of BricsCAD either as a stand-alone design tool or with other CADs”.*

Commenting on the announcement, Bricsys’ EMEA Vice President Mathieu Glas added, *“This is great news for our users that were looking for an easy way to connect BricsCAD to a powerful PLM platform. Best in Class SAAS PLM now manages the DWG files, including drawings and drawing headers, from the best in Class 2D CAD System on the market.”*

The unique architecture of Direct PLM ensures that exact same user interface is provided for every supported CAD, making daily operations and administration of the connectors in a multi-CAD scenario much easier.

Hexagon helps global manufacturers to pinpoint the root causes of quality anomalies from global production site data with new solution

5 May 2021

A new web-based dashboard enabling the rapid analysis of global quality data has been launched by Hexagon’s Manufacturing Intelligence division to help quality professionals easily identify trends in declining quality for parts and assemblies and investigate the issues relating to specific components, suppliers, projects, and locations.

As quality-control processes at separate production facilities are typically disconnected, it can be challenging for global manufacturers to achieve accurate and detailed analyses of quality issues linked to specific components, suppliers, projects, and locations. Through a highly visual, web-based quality dashboard, the new solution enables quality professionals to intuitively analyse aggregate data at a glance from any web browser and rapidly identify cases that require urgent intervention.

Manufacturers that build complex assemblies must ensure that final products can be seamlessly constructed from thousands of parts from suppliers and in-house production facilities around the world. For example, the automotive body in white (BIW) comprises rear-end panels and wheel housings made by different suppliers at different global assembly plants. While the quality of parts and assemblies can be confirmed with inspection as the BIW moves through production, many manufacturers don’t have global visibility that makes it possible to spot emerging issues linked to specific projects or locations, or to pinpoint parts from suppliers that are consistently out of tolerance. The new dashboard presents an overview of a site and project from which the user can drill down into hierarchical layers of detail about a project’s components. Powerful data aggregation capabilities make it easy to, compare design data such as the computer-aided-design (CAD) geometry of a car door with inspection data for the manufactured door and associated door components across several locations.

The new solution is underpinned by Hexagon’s vendor-agnostic Q-DAS eMMA MDM (measurement data management) software, which acquires metrology data from every production site to provide single reliable source of quality data. These data can then be interpreted by locally installed and web-based quality tools such as the new dashboard to analyse trends in dimensional accuracy and utilise quality data collected at multiple locations. The solution manages data throughout the manufacturing process, so that tools can automatically compare inspection data to design data to ensure that manufacturers adhere to original design intent parts are received, produced or assembled.

“We want to help manufacturers get the most mileage from the data that they’re already generating by removing the guesswork from assembly,” Diana Fernandez, product manager said. “The dashboard is a tool used to automatically collect, organise, and present critical data in a central location that makes the

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information easy to understand and act upon. It provides a higher level of insight and control so they can proactively mitigate issues with their plants and supply chain.”

Available from April 2021, Q-DAS eMMA Q-Board enables quality professionals to intuitively analyse aggregate data at-a-glance from any web browser. The dashboard’s interactive visualisation enables users to navigate from a CAD assembly and click through to components and their associated quality parameters including tolerance deviation, CP, CPK, the degree of fulfilment and others. Quality data is presented through colour-coded “traffic light” user interface that supports the rapid detection of cases that require urgent action trends in key performance indicators to accelerate decision making.

Dashboards can visualise data according to various aggregation criteria, such as location, project, functional group or analysis, feature, characteristic, and more. Users can also filter their view based upon factors such as tolerance parameters and build phase, providing additional levels of customization to meet the requirements of specific production environments.

iBASEt Launches Managed Services Offering

5 May 2021

iBASEt, the company that simplifies how complex products are built and maintained, announced the Solumina iSeries platform for digital operations is now available as a managed cloud service. Unlike alternatives, this offering is focused on providing customers with choices that best fit their business needs as they increasingly rely upon cloud-based services. This procurement and delivery option limits the impact of upfront hardware, software, and IT resource costs as part of a new manufacturing or sustainment solution rollout. Not only can these upfront costs be bundled as a Software as a Service (SaaS) type offering, but the resources required to manage, upgrade, and optimize such a solution can be paid for as a recurring subscription pricing model.

Manufacturing organizations looking to minimize IT resources are often challenged with how to best purchase and support an MES (Manufacturing Execution System), SQM (Supplier Quality Management), or MRO (Maintenance, Repair, and Overhaul) implementation. Much complexity surrounds all the systems integration, data management, security, and governance decisions that must be made. Upfront capital expenditures can be costly, creating further pressure to justify a very high return on investment.

As a cloud-native platform, Solumina iSeries provides customers with a choice of deployment as either on-premises, on the cloud, or as a hybrid environment. This Managed Services offering can improve IT scalability, enable greater operational flexibility, and ease functionality and technology upgrades when compared to competitive solutions. Accelerated deployment empowers customers to fully leverage iBASEt’s rich functionality solutions with greater ease and fewer resources.

“For iBASEt, part of the strategy in migrating Solumina to a cloud-native microservices architecture was to introduce innovative capabilities more frequently, faster, and with no noticeable disruption to our customers. Our entire business is designed to reduce the complexity and burden on the business owner’s shoulders and help them recognize the power of the cloud,” said Sung Kim, Chief Technology Officer, iBASEt. “A managed services environment significantly accelerates the time-to-value of a Solumina iSeries investment while gathering and providing the necessary data to make fast, accurate decisions across manufacturing operations.”

iSeries Managed Services customers can choose various options to simplify integration with existing enterprise systems and data sources.

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Introducing Medidata Adjudicate: A Unified Solution for Clinical Endpoint Adjudication

5 May 2021

Medidata, a Dassault Systèmes company, announced the launch of Medidata Adjudicate, a state-of-the-art clinical endpoint adjudication system, fully integrated with the Medidata Clinical Cloud. This addition to the industry's leading end-to-end clinical development platform reinforces Medidata's unique ability to function as a one-stop shop for all clinical trial needs.

A single solution that follows all clinical events from beginning to final outcome, Medidata Adjudicate is designed to support investigator sites, contract research organizations (CROs), adjudicators, physicians, data managers, Clinical Event Committees (CECs), and sponsors who collect, manage, organize, adjudicate, and submit clinical endpoint data by providing:

- Full visibility into all trial events and status; real-time visibility is critical to ensure clinical events are moving through the adjudication process efficiently, and that sponsors and CROs have real time access to events
- Flexible reporting that allows users to monitor turnaround times and performance
- Self-service configuration that allows customers to perform their own trial builds. Medidata Adjudicate is one of the only solutions that allows sponsors and CROs to set up their own trials, maximizing efficiency and control; most solutions on the market require the technology provider perform the build, which can extend development timeframes and increase costs

Clinical endpoint adjudication is a standardized process for assessment of safety and efficacy of pharmacologic or device therapies in clinical trials. The adjudication process is needed to ensure that study findings can be trusted when clinical endpoints are subjective, complex to assess, or the study is geographically broad, leading to communication difficulties due to differing time zones and cultural contexts. When a clinical event occurs during a trial, the on-site investigator makes a judgement as to the type and nature of that event—but, as humans with different training, backgrounds and even biases, different investigators may have varying interpretations of the event in question.

Further, traditional manual, paper-based approaches to adjudication place significant time, cost, and resource burdens on organizations—and are prone to errors, bias, and regulatory issues. Because of this potential for human error and the quality risks associated with manual adjudication processes, a centralized, digital adjudication system is key in standardizing clinical data and the interpretation of that data, making overall study results more trustworthy. Integrating Medidata Adjudicate into the Medidata Clinical Cloud, it is now possible to compile the most complete record of every endpoint process, while eliminating problematic guesswork and reducing manual burden.

“With Medidata Adjudicate, we're able to help our customers and partners bring greater efficiency, accuracy, and value to the adjudication process in ways never seen before,” said Dr. Rama Kondru, EVP, CTO and head of product at Medidata. “This technology is intentionally designed to support trial integrity and it's never been more important that sponsors, regulators, clinicians, and patients are able to trust the insights gleaned from clinical trials.”

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.

Oracle Extends Utility Outage Management Beyond the Control Room

5 May 2021

While traditionally an “in-person” business, the utility industry is revisiting where and how it deploys workers in the face of unpredictable events. The new Oracle Utilities NMS Flex Operations solution securely extends outage management and dispatch capabilities beyond the control room to any desktop device with internet access. With it, storm management personnel can efficiently work from anywhere to bolster response staff and dispatch crews, saving precious minutes, hours, or even days in restoring service to customers.

Designed to quickly scale while preserving systemwide processing speeds, Oracle Utilities NMS Flex Operations provides the core outage management functionality of the Oracle Utilities Network Management System (NMS) control room client. Leading utilities worldwide use Network Management System to improve grid operations, shorten outages, and optimize distribution.

“With extreme weather increasing in frequency and intensity, a growing number of utilities need the ability to scale their outage restoration processes and the number of connected storm dispatchers, supervisors, and coordinators,” said Dan Byrnes, SVP of product development at Oracle Utilities. “A utility using NMS Flex Operations can quickly provision and grant access to new users to manage outages and crews without needing control room client software to run on their computers. The move towards more flexible network operations will give utilities greater agility to respond to whatever Mother Nature throws their way.”

NMS Flex Operations is an essential addition to the Oracle advanced distribution management system (ADMS) suite of solutions and outage management offerings. It allows utilities to ramp up hundreds of new users and provide them with a real-time, operational view of the network from wherever they work. This capability can be crucial for improving field safety and situational awareness and for accelerating restoration times.

The solution can run inside or outside of an IT firewall, providing connection options that align with each utility’s cybersecurity requirements. Once logged in, users can efficiently work through outages from crew assignment to restoration using an intuitive interface designed for ease and efficiency for both existing and new users.

Siemens’ Simcenter portfolio expands capabilities for frontloading CFD simulation and increased productivity

30 April 2021

Siemens Digital Industries Software announced the latest version of Simcenter™ FLOEFD™ software, a powerful CAD-embedded computational fluid dynamics (CFD) tool for design engineers. Simcenter FLOEFD software helps users frontload CFD simulation early into the design process to understand the behavior of their concepts. Due to its unique technology, it can reduce the overall simulation time by as much as 75 percent and it runs seamlessly inside NX™ software, Solid Edge® software, CATIA V5 and Creo. The latest version includes significant new functionality allowing designers to take advantage of a seamless working environment, as well as enhancements that extend thermal simulation capabilities and lighting applications. Simcenter FLOEFD is part of the Simcenter™ portfolio of simulation and test solutions within Siemens’ Xcelerator™ portfolio of integrated software and services.

Simcenter FLOEFD includes key improvements within process integration, allowing design engineers to

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implement CFD solutions within their workflow without requiring process changes. Simcenter FLOEFD for NX projects and results can now be fully managed in Teamcenter® software for added efficiency. New integrations with HyperLynx™ software, a suite of analysis and verification software for PCB engineers, allow for enhanced thermal analysis and more accurate simulation of printed circuit boards (PCBs) by taking into account joule heating phenomena.

The latest version of Simcenter FLOEFD also includes expanded capabilities based on Simcenter™ MAGNET™ software technology to increase accuracy of thermal simulation by considering electromagnetic phenomena. Direct integration of structural analysis allows CAD-centric users to easily apply CFD results to perform linear structural stress analysis of complex PCBs accurately. A new interface to Simcenter™ Nastran software allows easy transfer of CFD results for more sophisticated structural analysis in Simcenter™ 3D software. In addition, new enhancements for lighting applications include pulse-width modulation of a light source and the simulation of scattering and photoluminescence of phosphor particles, which are used during the manufacture of LEDs.

TCS Launches New Consulting Framework to Help Enterprises Drive Transformation and Growth

6 May 2021

Tata Consultancy Services (TCS), a leading global IT services, consulting and business solutions organization, announced the launch of TCS Enterprise Navigator™, an integrated consulting-led framework that supports C-suite and executive leaders in realizing perpetual value from their transformation initiatives and driving business growth.

From ideation to intelligence, TCS Enterprise Navigator is a holistic and measurable approach to lead enterprise digital transformations. It is based on TCS' comprehensive suite of consulting and technology solutions and industry-recognized delivery excellence. The framework helps enterprises in design thinking to strategic value mapping, and from change management to delivery excellence.

It guides business leaders through their transformation with a clear vision, business case and roadmap to modernize business processes with industry leading practices on future-ready ERP backbone built on enterprise applications such as SAP S/4HANA, Oracle Cloud and others. By enabling enterprises to drive continuous value from their investments, TCS Enterprise Navigator ensures customers can reinvent themselves, enhance innovation, and easily adapt to changing business dynamics with a future-ready digital foundation.

Additionally, the framework addresses the critical factor of user adoption. By engaging, exciting and enabling employees, suppliers, partners and customers with new capabilities—including automation, AI and advanced analytics—their experience will lead to enhanced productivity, seamless interactions and stronger relationships that drive superior business outcomes.

“TCS Enterprise Navigator provides a comprehensive business-led framework that encompasses multiple dimensions, including functions such as finance, supply chain, HR and marketing as well as industry-specific nuances to help our customers fulfill their transformation vision and accelerate the value realization,” said **Dave Jordan, Global Head, Consulting & Services Integration, TCS**. *“By front-ending their journey with a full understanding of business challenges and opportunities, enterprises are better equipped to enhance their differentiations and address market opportunities and disruptions head on.”*

“A successful digital transformation is one that frees employees and business leaders to focus on continual innovation and growth,” explains **Akhilesh Tiwari, Global Head, Enterprise Application Services, TCS**. *“Our customers want to leverage emerging capabilities such as automation and*

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advanced analytics to accelerate innovation, quickly adapt business strategies and models and escalate time to value. We created TCS Enterprise Navigator with this premise.”

Wipro Partners with Transcell Oncologics to Transform Vaccine Safety Assessment

5 May 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced a partnership with Transcell Oncologics to transform vaccine safety assessment using augmented intelligence (AI). This partnership combines Transcell’s innovative stem cell technology with the advanced augmented intelligence capabilities of Wipro HOLMES[®] to improve the safety of global vaccine immunization programs.

By applying AI to the vaccine development process, our solution is capable of predicting adverse neurovirulent impacts resulting from vaccinations. Currently, vaccine safety assessment often includes testing on animals to measure adverse impacts. Using Wipro HOLMES[®] instead, researchers and biopharmaceutical companies have a new and fully viable solution and alternative. Wipro HOLMES[®] can also be integrated into any existing workflow, including quality control tests in vaccine production, batchwise release and other safety evaluation assays.

This partnership will also expand the Wipro HOLMES[®] solutions available to life science companies. The solution applies AI for drug repurposing and Messenger Ribonucleic Acid (mRNA) based platform for biodefense. It enables the testing of new vaccines by applying augmented intelligence to stem cell research and measuring safety and potency. This is the first in a series of next generation solutions that the partnership will offer to determine the safety and efficacy of a wide-range of products from vaccines to prescription medications, cosmetics and more.

Harmeet Chauhan, Global Head - Engineering and R&D, Wipro Limited said, “Enhancing neurovirulence safety assessment through augmented intelligence is a huge step forward in vaccine research and development. This innovative technology allows life science companies and vaccine manufacturers to develop, trial and release safer and more effective vaccines for people around the world. Our partnership with Transcell Oncologics will bring the best of AI and stem cell technology to researchers, medical professionals and ultimately patients through safe, accelerated vaccination programs.”

Dr. Subhadra Dravida, Founder CEO, Transcell said, “This exciting partnership combines the biotechnology capabilities of Transcell Oncologics’s Transtoxbio vertical with the advanced augmented intelligence capabilities of Wipro HOLMES[®]. Deriving new and advanced insights from the use of stem cells in an *in vitro* setting transforms vaccine safety assessment. This breakthrough process will lead to new medical treatments and accelerate innovation and vaccine availability that is vital to saving lives.”

In February 2021, the Transcell-Wipro HOLMES[®] solution for neurovirulence was presented with the Best IP Managed Stemcell award at the ChemTECH BioPharma World.IE Conference.