![CIMdata logo]

PLM Weekly Summary

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CIMdata News

3DEXPERIENCE WORLD 2021: The SOLIDWORKS Virtual Event – a CIMdata Commentary
25 February 2021

Key takeaways:

- Beginning May 2021 students can obtain **3D**EXPERIENCE SOLIDWORKS for $60/year including SOLIDWORKS Premium and SOLIDWORKS 3D Creator. Students will also be provided membership in a cloud job listing community sponsored by Dassault Systèmes.

- Similarly beginning in the second half of 2021, Makers can purchase **3D**EXPERIENCE SOLIDWORKS for $9.99/month or $99/year. The solution includes SOLIDWORKS Premium, SOLIDWORKS 3D Creator, and SOLIDWORKS 3D Sculptor. They also gain membership in a cloud Makers community.

- Mr. Bernard Charlès indicated that over 60% of Pharma companies are using Dassault Systèmes' Medidata for critical clinical trials.

Dassault Systèmes hosted their virtual conference, **3D**EXPERIENCE WORLD, February 8-11, 2021 for designers, engineers, manufacturers, entrepreneurs, and business leaders. Ever since Dassault Systèmes adopted a "platform" strategy they have joined it together with SOLIDWORKS promoting the collaborative 3D experience. Since 2020, the SOLIDWORKS World conference has been called **3D**EXPERIENCE WORLD.

In addition to the daily General Sessions, the event presented over 320 break-out sessions centered on products and a multitude of topics covering various technologies, such as the cloud and simulation, as well as numerous "how to" scenarios.

Day 1: Opening General Session

Mr. Gian Paolo Bassi, SOLIDWORKS CEO, opened the virtual event with a flurry of impressive, high-tech, computer-generated imagery as is often seen at such events. The theme was "The Freedom to Create." Mr. Bassi emphasized the Dassault Systèmes mantra of "From Product to Platform" explaining that the **3D**EXPERIENCE platform connects people, applications, and information in a single cloud environment. He tied it to the corporate vision of leading an industry renaissance uniting "Product, Life, and Nature." With that message, he introduced Mr. Bernard Charlès, Vice Chairman of the Board & CEO, Dassault Systèmes.

Mr. Charlès immediately took the opportunity to tout that one year ago he invested $6 billion to revolutionize the way clinical trials are run by acquiring Medidata and to affect the way pharma companies run trials in this year of the pandemic. He explained that by leveraging the collaborative **3D**EXPERIENCE platform companies were able to reduce the time to analyze the virus and test vaccines.

Mr. Bassi again took center stage to announce an important opportunity for students and makers to obtain SOLIDWORKS. Beginning in May 2021, students can obtain **3D**EXPERIENCE SOLIDWORKS for $60/year. The package includes SOLIDWORKS Premium and SOLIDWORKS 3D Creator. In addition, students will be provided membership in a cloud job listing community sponsored by Dassault Systèmes. Beginning in the second half of 2021, Makers can purchase **3D**EXPERIENCE

SOLIDWORKS for $9.99/month or $99/year. Their offering includes SOLIDWORKS Premium, SOLIDWORKS 3D Creator, and SOLIDWORKS 3D Sculptor. Additionally, they gain membership in a cloud Makers community to share experiences and opportunities. CIMdata views these offerings as excellent opportunities for students and Makers to gain access to a successful, commercial CAD tool suite for their work.

Client testimonies completed the General Session with speakers from IKEA describing their product assembly documentation, and OffWorld AI (Figure 1) promoting their automated robots for heavy construction such as mining. Mr. Duncan Wardle, Former Head of Innovation & Creativity, Disney concluded the session with a spirited discussion of how to inspire creativity.

Figure 1—OffWorld AI Robots (Courtesy of OffWorld AI)

Day 2: General Session

Ms. Florence Hu-Aubigny, Executive Vice-President Research & Development, Dassault Systèmes opened the second day's General Session. Ms. Hu-Aubigny's presentation focused on the Dassault Systèmes theme "From Product to Experience." She spoke of how the **3D**EXPERIENCE Platform delivers memorable experiences of a product using the product's digital twin—its virtual counterpart. By adding product behaviors using theoretical, mathematical, and physical models the user is able to visualize, simulate, and optimize in a multi-discipline world. CIMdata supports her statement that "In order to perfectly match the real world, the virtual world has to be continuously improved and calibrated by learning from the real world." CIMdata understands this to be a strong underpinning for the need of Industrial Internet of Things (IIoT) to have the physical world feed the virtual.

Figure 2—Skinny Guy Camper (Courtesy of Skinny Guy Campers)

Ms. Hu-Aubigny handed the podium over to Mr. Manish Kumar, SOLIDWORKS Research & Development Vice President, Dassault Systèmes who presented a number of clients' successes in using SOLIDWORKS **3D**EXPERIENCE. Included was Mr. Jason Bontrager, Founder and CEO, of startup Skinny Guy Campers and Mr. Rob Miles, the company's Engineering Design & Technical Documentation Lead. See Figure 2.

Mr. Miles discussed how the **3D**EXPERIENCE Platform helped unite their geographically dispersed workforce by providing cloud access to their SOLIDWORKS design models. Additionally, Mr. Will O'Halloran, Co-Founder, Square Robot, spoke of their intention to become the leader of above-ground storage tank inspection. They design, build, and operate autonomous robots that can inspect an oil storage tank while it is still filled with oil, dramatically changing the way industry currently operates. They rely on SOLIDWORKS **3D**EXPERIENCE to store and manage revision-controlled CAD data in the cloud.

The day's session concluded with a presentation from Mr. Frank Stephenson, Design Director, Frank Stephenson Design. Mr. Stephenson brings three decades of experience in automotive design at companies such as McLaren, Ferrari, and Maserati. The premise of his talk was to highlight three aspects of design:

- The growing need to reduce delivery timescales.
- Creating new and evolving current design tools.
- Improving the warmth of connection between designer, product, and client.

CIMdata sees these as important lessons both solution providers and the users of those solution should keep in mind as design evolves.

Day 3: General Session

The third and final day of the conference centered on the topic of "From Connections to Relationships." Mr. Suchit Jain, Vice President of Strategy & Business Development, Dassault Systèmes, took center stage. He emphasized how advanced technologies, such as robotics, Internet of Things, electrical vehicles, artificial intelligence, additive manufacturing, and virtual reality, coupled with cloud technology were digitalizing experiences. He positioned the **3D**EXPERIENCE platform as supporting these efforts. He spent the remaining portion of the session introducing a range of SOLIDWORKS users and the paths they were taking with their products. CIMdata believes these examples of clients using SOLIDWORKS **3D**EXPERIENCE were a strong testimony to the capabilities of the solution.

Summary

Once again Dassault Systèmes and their colleagues at SOLIDWORKS staged an impressive conference with **3D**EXPERIENCE WORLD 2021. CIMdata concurs, even as a virtual event, that the many general session speakers and breakout sessions offered SOLIDWORKS users both educational and inspiring experiences worthy of the goals of their **3D**EXPERIENCE Platform.

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Acquisitions

Altair Acquires Flow Simulator; an Integrated Flow, Heat Transfer, and Combustion Design Software, from GE Aviation, to Expand into New Industries

24 February 2021

Altair, a global technology company providing software and cloud solutions in the areas of simulation, high-performance computing (HPC), and artificial intelligence (AI), today announced that it has acquired Flow Simulator from GE Aviation. Flow Simulator is an integrated flow, heat transfer, and combustion design software, which enables mixed fidelity simulations to optimize machine and systems design.

As part of the acquisition, Altair and GE Aviation have signed a memo of understanding (MOU) to facilitate a higher level of collaboration and establish a long-term strategic partnership. The relationship will include Altair's continuous development of Flow Simulator; granting GE Aviation access to Altair's complete software suite to explore enhanced functionality aligned to real-world use cases and workflows; and ongoing executive engagement between both parties to establish deeper strategic alignment and pursue new ventures.

"We successfully collaborated with GE Aviation for many years on several initiatives including rotor dynamics using Altair OptiStruct, which opened doors for new opportunities to work together. We value our strong relationship with GE Aviation as we join forces to drive innovation for aircraft engines and beyond," said James R. Scapa, founder and chief executive officer, Altair. "Utilizing Altair's simulation and AI-driven approach to innovation, there is great potential to expand Flow Simulator's capabilities and make it available to new industries focused on simulating systems models including automotive, electromobility, battery, defense, and renewable energy."

"Altair will bring Flow Simulator's capability to simplify the modeling of complex thermal systems to new industries. This will expand global technical capabilities," explains Arjan Hegeman, senior executive – Technology, GE Aviation. "Concurrently, GE Aviation and Altair will continue

developing Flow Simulator together, with even more advanced simulation technologies and design tools that will continue to expand its capabilities for a broader base of users."

System-level design has become increasingly critical as organizations are tasked with simulating complex duty cycles. Fast software solutions like Flow Simulator are needed to model an entire system, including rapid iteration concept modeling and understanding of system simulation and system behavior in applications such as rotating machinery design, electromobility, wind turbines, heat exchangers, and virtually anything that encompasses thermal management.

GE Aviation developed Flow Simulator to serve as a fast flow network simulator for aircraft engines – simulating how an entire flight cycle would behave in the real world, from runway and take off to flight and landing. Since its inception, it has been used to simplify modeling for a variety of complex thermal systems applications, including healthcare, locomotives, and renewable energy. Prior to acquiring the technology, Altair was a commercial distributor of Flow Simulator, which was available through the Altair Partner Alliance (APA).

Key features of Flow Simulator include:

- *Fully-coupled flow/thermal network modeling* – An extended library of preconfigured elements and components leveraging a large set of publicly-available experimental data for pressure drop and heat transfer characteristics.
- *Control system module* – Proportional integral derivative (PID) controllers, feedforward, and missions can be integrated with flow/heat transfer models to optimize the simulated-machine operation during cycle/mission analysis.
- *Optimization module* – Monte Carlo, Optimal Latin Hypercube, and N-factorial analyses quickly explore the entire design space of a 3D modeling environment. An analytical model can be parametrized based on flow configuration, shape, dimension, and thermal characteristics to achieve an optimal cost-benefit design.
- *User-defined elements* – Ability to integrate a customer's own IP and element formulations using UDE creator supported in flexible python scripting as well as with Fortran language. APIs are provided an option to connect Flow Simulator with external software for multidisciplinary analyses.
- *Intuitive interface* – A modern interface for pre, post, solve, and optimization. The three-dimensional design environment gives users the ability to overlay/integrate the network model with 3D computer-aided design (CAD) while integrating a customer's IP and element formulations seamlessly.

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Atos completes the acquisition of leading cybersecurity services company Motiv
24February 2021

Atos announced that it has completed the acquisition of Motiv ICT Security, the largest independent Managed Security Services (MSS) provider in the Netherlands.

This move reinforces Atos's position as the 3rd worldwide Managed Security Services provider[1] by strengthening the Group's local capabilities and bringing its recent investment in the Managed Detection and Response (MDR) platform, AIsaac, to Dutch customers. In addition, Motiv's sovereign Security

Operations Center (SOC), independently certified at the highest levels of maturity, further expands Atos's extensive network of global SOCs, a pivotal component of the Atos Prescriptive Security approach.

This cybersecurity acquisition joins those of Paladion, digital.security, SEC Consult and more recently In Fidem that were made over the past few months in various countries. These acquisitions strengthen Atos's position as the key trusted cybersecurity partner for global organizations on their digital journey.

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Atos grows its Salesforce capabilities and completes the acquisition of Profit4SF

22 February 2021

Atos announced that it has completed the acquisition of Profit4SF, a Dutch-based technology and management consulting company specializing in Salesforce enterprise implementations for its customers across the Netherlands. With this transaction, Atos re-affirms its ambitions to grow its expertise on Salesforce technologies across the globe, following the acquisitions of Eagle Creek and Edifixio in 2020.

On an operational level, the acquisition will enhance Atos' Salesforce offering by bringing experienced consultants to the Atos team and strengthening the Salesforce Global Practice created by Atos to bring customers the full benefits of the world's first customer relationship management platform. Founded in 2013 and headquartered in Utrecht, Profit4SF has more than 30 employees, who collectively own more than 160 Salesforce certifications. Recognized as a Platinum Salesforce Partner in the Netherlands, the company has a proven track-record of successfully implementing Salesforce projects for its customers, leveraging its wide portfolio of services from consulting to development, integration and support.

"I am delighted to welcome Profit4SF into the Atos group. It fits perfectly with our acquisition strategy and strengthens our position in Salesforce expertise both in the Dutch region and globally. Combining Atos' leadership and comprehensive portfolio with Profit4SF's strong mid-market experience and solid customer base in the Netherlands will bring immediate value to our customers, partners and teams", said **Peter 't Jong, Head of Atos in The Netherlands**

Profit4SF CEO and Co-Founder Leo Leijenaar explains: *"This operation opens a new chapter in Profit4SF's history. Over the past 7 years, we've worked to become one of the leading Salesforce partners in the Dutch market and built a solid reputation of being a highly valued partner, based on more than 350 successful Multi-Cloud projects. By joining Atos, we can support our national and international customers on their digital journey by strengthening their organizations through data-driven trading and providing a superior customer experience."*

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Autodesk to Acquire Innovyze, Inc. for $1 Billion; Provider of Smart Water Infrastructure Modeling and Simulation Technology

24 February 2021

Autodesk, Inc. announced it has signed a definitive agreement to acquire Portland, Oregon-based Innovyze, Inc., a global leader in water infrastructure software, for $1 billion net of cash subject to working capital and tax closing adjustments. The acquisition positions Autodesk as a technology leader

in end-to-end water infrastructure solutions from design to operations, accelerates Autodesk's digital twin strategy, and creates a clearer path to a more sustainable and digitized water industry.

Innovyze's modeling, simulation, and predictive analyses solutions enable more cost-effective and sustainably designed water distribution networks, water collection systems, water and wastewater treatment plants, and flood protection systems. Further, Innovyze's solutions centralize infrastructure asset visibility to optimize capital and operational expenses. Combining Innovyze's portfolio with the power of Autodesk's design and analysis solutions, including Autodesk Civil 3D, Autodesk InfraWorks, and the Autodesk Construction Cloud, offers civil engineers, water utility companies and water experts the ability to better respond to issues and to improve planning.

For 35-years, Innovyze has been building innovative software for the water industry and is trusted by approximately 3,000 customers worldwide, including utility companies in many of the most populous cities across five continents, a majority of ENR's top design firms, and leading environmental and engineering consultancies.

Today, more than two billion people lack access to safe drinking water at home, and by 2025 more than two-thirds of the world's population will reside in water-stressed areas.

"We can achieve a more sustainable planet, but we can't do it without responsibly managing our use of water and securing its future," said Andrew Anagnost, Autodesk president and CEO. "An estimated \$1.9 trillion is required to address global water infrastructure needs by 2030, and by fundamentally changing the way systems are designed, constructed, and operated, we are best positioned to overcome this challenge and realize the better world we've imagined."

"Nearly nine trillion gallons of water are lost each year worldwide due to prolonged leaks and pipe breaks, but we cannot manage or fix what we cannot see," said Amy Bunszel, Executive Vice President, AEC Design Solutions at Autodesk. "Innovyze's portfolio of operational analytics, distribution modeling, and asset management solutions provides the insight needed to identify this and other potential problems before they become a crisis."

"For thirty-five years Innovyze has been a hidden part of the daily lives of millions of people around the world, helping to deliver fresh, clean water, managing sewage and flooding in our communities, and turning wastewater into safe water," said Colby Manwaring, CEO of Innovyze. "Similarly, if you look at the built world around us, Autodesk's design DNA is found in just about every structure you see above ground and below, so it makes strategic sense to bring together our complementary organizations critical to much of the world's population. We look forward to completing the acquisition and getting to work, together."

The transaction is subject to customary closing conditions and is expected to close during Autodesk's first quarter of Fiscal Year 2022, ending April 30, 2021.

Bentley Systems Acquires Australian Civil Construction Software Leader E7

25 February 2021

Bentley Systems, Incorporated, the *infrastructure engineering software* company, announced the acquisition of E7 Pty Ltd, a Brisbane, Australia-based leader in field-based construction delivery software for heavy civil construction. The acquisition adds capabilities to Bentley's comprehensive project delivery solution that helps civil contractors meet the schedule and budget requirements of

infrastructure investment programs.

E7 helps organizations achieve greater resource utilization and field productivity through mobile and web interfaces that transform manual, field-based tasks into digital workflows. It includes capabilities specifically designed for heavy civil construction, including daily diaries, unplanned event tracking, timesheets, dockets, daily costs, and quantity progress measurement, which enable supervisors to produce daily progress measurement reports simply and quickly.

E7's flexible daily cost capture methods will extend Bentley's SYNCHRO construction modeling, project management and reporting, task management, voice-based field data capture, and automation capabilities to create a comprehensive 4D construction digital twin solution. The combined capabilities enable heavy civil construction contractors to effectively optimize the utilization of field resources to stay on schedule and on budget.

"Visibility into field resource utilization is key to project profitability," said Dustin Parkman, vice president, project delivery, Bentley Systems. "The addition of E7 to Bentley's SYNCHRO digital construction delivery solution complements our industry-leading 4D construction modeling with field-based resource management tools that are essential for heavy civil contractors. This new combination makes possible a truly comprehensive digital construction delivery solution for heavy civil contractors everywhere."

E7 has been deployed on over 350 projects valued at more than AUD 50 billion. On the Caloundra Road to Sunshine Motorway (CR2SM) AUD 812 million Bruce Highway Upgrade project, the Fulton Hogan Seymour Whyte joint venture uses E7 to deliver daily productivity insights and optimize resource deployment to drive better cost and schedule outcomes. E7 ensures that data from 115 subcontractors is efficiently captured and can be used with confidence for productivity tracking, progress measurement, and payment of invoices. Brad Thompson, CR2SM project director, said, "Managing a large project of this nature requires failsafe systems that ensure large volumes of information can be processed accurately and fast. The efficiency of E7 has saved our project time and money, as it minimizes errors and maximizes productivity."

Hugh Hofmeister, E7's chief executive officer, and Adrian Smith, E7's chief technology officer, join Bentley as director of product management and director of product development, respectively. Hofmeister said, "After more than 10 years of working, first as Envision and then as E7, to develop the leading field-based construction delivery solution for Australian and now global projects, Adrian and I and our colleagues are excited to be joining Bentley. There is already great alignment between E7 and Bentley's SYNCHRO team. Our shared vision will accelerate the adoption of 4D construction digital twins that will significantly benefit our users in driving more profitable and predictable project outcomes."

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Cadence Completes Acquisition of NUMECA

24 February 2021

Cadence Design Systems, Inc. announced that it has completed the acquisition of NUMECA International. The addition of NUMECA's technologies and talent supports the Cadence® Intelligent System Design™ strategy and broadens its system analysis portfolio with computational fluid dynamics (CFD) solutions. These products will contribute to the best-in-class Cadence system analysis solutions for integrated circuits (ICs), electronic subsystems and full system designs. NUMECA's proven

technologies serve several industries including aerospace, automotive, industrial and marine, and have been adopted by industry leaders such as NASA, ArianeGroup, Honda and Ford.

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Company News

Ansys Collaborates with Keysight Technologies to Help Engineers Tackle Significant System Design Challenges with Best-In-Class Digital Workflow

22 February 2021

Ansys and Keysight Technologies, Inc. are working together to integrate component-level designs into mission modeling environments with an enhanced, automated DME workflow. This enables joint customers to eliminate the time-consuming bottleneck of manually coupling design tools for rapidly innovating aerospace and defense applications and soon for 5G communications, autonomous vehicles and electrification. Ansys' collaboration with Keysight continues a longstanding relationship that began with AGI, before the company was acquired by Ansys last year.

To solve challenging development issues, engineering teams have been forced to manually connect design tools with custom integrations and purpose-built scripting mechanisms. Additionally, engineers face increasingly difficult design hurdles, tasked to achieve more with less resources. Ansys and Keysight's streamlined, interoperable and cohesive workflow combines best-in-class tools, empowering engineers to accelerate the product lifecycle, harness critical insights to improve decision-making, greatly reduce human error and create advanced, higher fidelity designs.

The cutting-edge automated workflow directly connects AGI's multi-domain mission analysis software, Systems Tool Kit with Keysight's high-fidelity RF systems modeling tool, PathWave System Design (SystemVue). This enables engineering teams to seamlessly join mission-level modeling with component-level system design throughout the product lifecycle, providing a pervasive digital thread that links design processes, requirements and validation through proven digital simulation techniques. As a result, engineers can quickly arrive at critical system designs and immediately confirm performance within a mission context.

"Keysight and Ansys are each playing central roles in helping our customers shift their real-world challenges into digital twin simulations. By working together, we can accelerate this transformation, which is enabling our customers to innovate and get to market faster than ever before," said Tom Lillig, general manager of PathWave Software Solutions at Keysight. "In particular, Keysight's PathWave System Design software is a powerful bridge between the worlds of virtual simulation and physical test."

"Ansys is building on the relationship with Keysight that AGI began, which successfully incorporated DME into design processes, supporting customers in satellite communications, radar and electronic warfare sectors," said Shane Emswiler, senior vice president at Ansys. "Together, Keysight and Ansys will continue to increase the integration of our tools and explore ways for providing additional modeling capabilities to engineers developing innovations in 5G, aerospace/defense and automotive industries."

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Atos and HDF energy to develop the first green hydrogen datacenter

25 February 2021

Atos and HDF Energy announce their plan to develop a complete end-to-end long-term solution to supply datacenters with green hydrogen generated by renewable energy. The new solution by Atos and HDF will be the first available on the market for datacenters with heavy power consuming workloads, with the aim to demonstrate, in 2023, a first full production center operated using green hydrogen.

Atos will provide a complete end-to-end green datacenter solution by designing and providing the hardware, software and integration services that make it possible to exploit the electricity produced by green hydrogen so that it can be used in datacenters. This includes using the most advanced Artificial Intelligence (AI) technologies to optimize energy consumption. HDF Energy will supply a power plant, which will provide predictable and firm electricity thanks to its high-powered fuel cells. These cells will be powered by green hydrogen derived from photovoltaic or wind farms.

A major technological challenge

Datacenters have high energy needs, operate 24/7, 365 days a year, and cannot experience the slightest energy flaw. Therefore, the approach taken by Atos and HDF is particularly ambitious, as by its very nature, solar or wind energy is clean but intermittent, variable in its production and unpredictable, making it an unstable energy.

At a time when datacenter energy consumption is becoming a key issue and it is essential to consider new energy models, this new solution from Atos and HDF will enable datacenter operators and cloud operators to anticipate potential future constraints set by regulation authorities and offer a sustainable but reliable solution to their customers, with no compromise on their business.

Combining expertise to reduce the carbon footprint

Atos' solution includes a software layer to predict the datacenter's power consumption needs and adapt the resource (green hydrogen) accordingly. This complex process is not only based on the datacenter's activity and size but also takes into account external data from the environment, such as weather forecasting. To this, Atos brings its HPC expertise – an area in which it, as the leading supercomputer manufacturer in Europe, has several groundbreaking innovations which limit the energy consumption of its systems.

Thanks to its expertise in high-power hydrogen technologies, HDF has developed a new type of power plant which is totally stable, non-polluting and competitive, compared to fossil fuel generators. The availability constraints of the datacenter will be incorporated in the design of Renewstable® and will enable HDF to offer the highest level of service for the most demanding consumers.

"We are constantly seeking to develop solutions to leverage our own sustainable journey towards decarbonization and to support our clients in theirs. In this perspective, the solution to be developed by Atos and HDF will be the first solution available on the market that will enable a full production datacenter with very demanding workloads to be operated using green hydrogen. This meets the expectations not only of operators, but also of the market and public authorities." says **Arnaud Bertrand, SVP, Head of Strategy and Innovation for Big Data & Security at Atos**.

"We are very excited to develop the first-of-its-kind green datacenter with Atos. HDF is a pioneer in hydrogen-energy and it is very important for us to demonstrate that our Hydrogen-to-Power solutions are suitable for customers with a strategic need for a reliable electricity supply. This further

development into the digital industry, where energy consumption is increasing every day, opens up a considerable worldwide market for us. The HDF-Atos partnership offers the first unique and sustainable infrastructure for this huge market." says **Damien Havard, CEO at HDF**.

This initiative represents a new and major milestone in Atos' Net Zero 2028 decarbonization ambition. In 2020, Atos has already accelerated its datacenter decarbonization program with encouraging progress in **energy efficiency**, which has materialized into a 15% decrease of global energy consumption of Atos datacenters versus 2019. In addition, **carbon-free and renewable energy** now power 55% of all of Atos datacenters (versus 32% in 2019). Additionally, since 2014, Atos has been providing carbon neutral hosting services to its clients by offsetting 100% of its datacenters' emissions. Atos also recently signed the Climate Neutral Datacenter Pact together with 35 other companies and associations from across Europe, emphasizing the industry's contribution to the 'European Green Deal'.

Autodesk Announces Executive Leadership Team Hires

25 February 2021

Autodesk, Inc. announced the hiring of Debbie Clifford as chief financial officer, effective March 8, 2021, and Raji Arasu as chief technology officer, effective April 19, 2021.

"We are thrilled to welcome both Debbie and Raji – two dynamic and accomplished executives – to Autodesk," said Andrew Anagnost, CEO and president of Autodesk. "Debbie and Raji bring deep leadership experience and a passion for customer success. Their addition to our executive leadership team – along with Diana Colella, who was recently appointed to lead our Media & Entertainment group – will inject fresh perspectives into our company and towards our goal of delivering the world's leading design and make platform."

Clifford, who currently serves as chief financial officer at SurveyMonkey, returns to Autodesk – where she spent 13 years in various financial leadership roles – and brings with her expanded financial, strategic and operational experience. She will oversee all aspects of Autodesk's finance, accounting, tax, treasury, operations and investor relations teams. Clifford serves on the board of Harmonic, a video technology and services company, and holds a Bachelor of Arts in Political Science from the University of California Los Angeles, and a Master's in Business Administration from Stanford Graduate School of Business.

"Accepting the CFO position at Autodesk is like coming home," said Clifford. "I'm excited to reconnect with the exceptionally talented finance organization and help accelerate the next phase of Autodesk's growth. Autodesk's leadership in design and make and its incredible culture positions the company well for continued success. I am thrilled to be back and can't wait to get started."

Arasu will join Autodesk from Intuit, where she serves as senior vice president of platform engineering. She will oversee and be responsible for Autodesk's technology strategy and ensure alignment against long-term innovation priorities and short-term technology imperatives. Arasu will replace current Autodesk CTO Scott Borduin, who announced his intent to retire last year.

Raji Arasu is a technology executive with over 25 years of experience focused primarily on eCommerce, marketplaces, payments, and fintech systems. She specializes in leading through transformative change across people, product, platform and process to accelerate customer benefits and revenue growth. At Intuit, Arasu helped shape the platform strategy and technology culture, led its cloud journey and

expanded foundational core capabilities that amplified the pace of innovation for Intuit's customers. Prior to Intuit, Arasu served as Chief Technology Officer for StubHub and held leadership roles at eBay.

Arasu has received public recognition for technology leadership, promoting diversity, and mentoring women to be successful leaders in technology. She serves on the board of directors for NIC Inc. and MediaAlpha Inc.

"Autodesk has long been one of the world's most innovative companies and I'm thrilled for the challenge and opportunity to lead a world-class team of technologists," said Arasu. "It's an exciting time to join the company as we seek to deliver solutions that enable our customers to make an impact and achieve better outcomes for their products, their businesses, and the world."

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DyFlex Solutions and LTI join forces to provide rapid ERP implementations

25 February 2021

DyFlex Solutions announced a strategic partnership with LTI, a global technology consulting and digital solutions company, to provide EC&O companies with a tailored and enhanced Enterprise Resource Planning (ERP) solution that can be implemented quickly and cost effectively.

Building on many years of experience and a mutual commitment to provide world class solutions, this strategic partnership between DyFlex and LTI provides companies of all sizes with a full suite business solution to manage all aspects of their operation efficiently.

"Today's EC&O market is competitive, and businesses need enterprise-wide solutions that not only optimise operations but also provide rapid visibility and transparency of all aspects of their project portfolio," said Peter Lander, Managing Director of DyFlex Solutions. "Tighter margins and cashflow pressures, combined with project risk and skilled labour shortages, require accurate levels of planning and forecasting like we've never seen before. "LTI's technology combined with DyFlex Solutions' many years of experience working with organisations focused on projects and assets is a perfect combination that presents great value to the EC&O sector."

Commenting on the news, Deepak Khosla, Chief Business Officer – Emerging Markets, LTI, said, "LTI is excited to partner with DyFlex Solutions to deliver digital transformation programs for our joint EC&O customers and support their digital transformation journey. DyFlex has consistently delivered high-quality outcomes, and we see them as the perfect partner in Australia. LTI derives deep expertise in the EC&O sector from its long-standing history and relationship with the L&T Group. DyFlex and LTI will together solve complex industry challenges by combining industry expertise and digital capabilities with a strong SAP partnership."

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Infor Alliance with Midport Scandinavia to Bring Best-in-Class Capabilities to Nordic Project-Centric Enterprises

22 February 2021

Infor announced a strategic alliance with Midport Scandinavia, a leading software and services company in the Nordics. The alliance will see Infor's industry-specific cloud capabilities and Midport's local

service delivery come together to help make digitalization a reality for project-centric enterprises in the Nordics.

Midport is a long-term Infor partner focusing on Infor CloudSuites (based on Infor LN) for discrete manufacturing and maintenance, repair and overhaul (MRO) industries. "We are helping our customers through the whole lifecycle of digitalization projects from evaluation, activation and continuous support for Infor LN-based CloudSuite solutions," says Niels Mejer, CEO at Midport. "We see customers wanting more out of their solution landscapes and data. Infor is providing the industry-specific solutions, and we at Midport have capabilities and expertise to activate the processes to our customers' purposes."

The partnership will extend Infor's commitment to the Nordic market, bringing its enterprise applications to manufacturers, project industries and MRO companies across the region.

"Midport convinced us with their business consulting competence," comments Jukka Rantanen, program director for VR FleetCare, which is working with Midport to deploy an Infor CloudSuite. "In this kind of business transformation program, the ERP is, of course, one important cornerstone. But most important is to find processes and methods that will fulfill business requirements and provide a solid platform for future development. Also, we are really excited about the Infor application platform and to get to the state-of-the-art cloud platform even on ERP! We will always have the latest releases available and ready for production after critical integrations are tested."

"Both Infor and Midport have strong credentials in the Nordic project-centric sector," comments Johan Made, Infor EVP and GM for EMEA North, West & East. "Midport has a reputation for excellence in service delivery, while Infor's micro-vertical multi-tenant cloud strategy is second to none. By joining forces, we are looking forward to maximizing our proposition and helping our customers obtain the necessary data insights to boost performance even further."

Infosys Expands Pennsylvania-based Retirement Services Center of Excellence; Commits to Adding 300 New Jobs

25 February 2021

Infosys, a global leader in next-generation digital services and consulting, announced its commitment to add 300 American workers in Pennsylvania in continuation of its overall hiring plan in the U.S. The company, known for building leading-edge digital capabilities and training the next generation of global talent, will recruit for a range of opportunities across technology and digital services, client administration, and operations as it expands its new Retirement Services Center of Excellence (the Center).

"My administration welcomes Infosys to Pennsylvania, and looks forward to the growth and success of its new Retirement Services Center of Excellence in Chester County," said **Pennsylvania Governor Tom Wolf**. "Our commonwealth is known worldwide for its leadership in technology and innovation, and Infosys's expansion is a testament and welcome addition to that legacy. The company's commitment to supporting the local workforce will provide new opportunities to the region, and we are proud that this international company has selected Pennsylvania as a place to settle, grow, and expand."

"We are committed to growing Infosys' footprint in the financial services space in the U.S. Our Retirement Services Center in Pennsylvania is one example of how we realize this aspiration," said **Mohit Joshi, President at Infosys**. "This Center will focus on technology and innovation that will

enable the retirement industry to navigate its way to lower costs, enhanced experiences, and better outcomes for retirement savers."

The Center will develop technology solutions and services to help firms capitalize on the opportunities emerging at the intersection of employee benefits, wealth management, and digital transformation, beginning with a focus on the employee-sponsored retirement plan experience. The Center was conceived last year following the partnership forged with Pennsylvania-based investment management firm Vanguard.

Infosys helps financial institutions, the world over, stay a step ahead of digital disruption by embracing rapid technology transformation. The firm serves half of the top 20 retirement service firms in the U.S., helping them manage risk, improve their participants' experience, and deliver better outcomes with leverage from digital solutions.

"Our business model is about finding the best workforce, training the best workforce, and deploying the best workforce to enable our clients to thrive," said Martha King, Executive Vice President and Chief Client Officer at Infosys. "Southeastern Pennsylvania, so well-known for its talent, innovation, and successful enterprise, offers the opportunity for us to strengthen our workforce on behalf of our clients here in the region and beyond."

A global organization with nearly 250,000 employees worldwide, Infosys has rapidly been expanding its hiring of U.S. workers. In September 2020, the company announced its commitment to hire an additional 12,000 American workers bringing its total hiring commitment in the U.S. to 25,000 workers by 2022. In addition, the firm aims to play a crucial role in building pathways to employment for American workers, particularly those who have been negatively impacted by the economic downturn brought about by the COVID-19 pandemic.

Intellegens and Ansys to empower Additive Manufacturing with Material Intelligence through machine learning

17 February 2021

Machine learning specialist Intellegens and engineering simulation leader Ansys have announced a collaboration to integrate machine learning methods into Additive Manufacturing (AM) workflows, accelerating the development of reliable and repeatable AM processes. The combination of the two companies' technologies will make it quick and easy for AM project teams to analyse data from experiment, simulation, or production generating models that capture vital insights. These models are used to optimise process parameters and powders, improving the quality of AM parts while cutting time to market.

The agreement will embed Intellegens' machine learning technology, Alchemite™, within the Ansys materials data management platform, Granta MI™. Alchemite™ deep learning algorithms very rapidly find relationships within complex datasets, even when that data is 'sparse' (i.e., has many empty values). This makes Alchemite™ ideal for AM teams seeking to exploit data brought together from multiple sources. It extracts all possible knowledge from the data to identify the critical combinations of factors that ultimately control the performance of AM parts. Alchemite™ needs no prior knowledge of which parameters are likely to be important – a significant advantage in this emerging technology area. Applications throughout the AM workflow include:

- Process parameter optimisation for AM processes

- Computational design of AM materials

- Failure analysis and quality control

- Data validation and gap-filling

- Assisted Design of Experiments (DoE) for AM.

Granta MI™ is the de facto standard for materials data management in engineering enterprises and is applied in AM applications to capture, in a single place, all of a company's AM data. This includes data on the properties of powders and raw materials, machine build parameters, post-build processing data, test results for AM parts, and simulation data from the Ansys AM simulation suite. Integrating Alchemite™ into this holistic system will make it straightforward to analyse the full range of this data in the search for key process/property relationships and to continuously improve models as the data is updated.

"Intellegens' machine learning technology offers a ready-made solution to key data analysis challenges faced by our Additive Manufacturing customers," commented Rob Davis, Director of Product Management, at Ansys. "Integration with Ansys Granta MI™ creates a unified workflow for capturing and applying results from AM testing, simulation, and production."

"Merging the data management capabilities of Ansys' Granta MI™ with the machine learning prowess of Alchemite™ is a perfect fit, promising to deliver deep insights to Additive Manufacturing workflows," said Dr. Gareth Conduit, CTO at Intellegens. "We look forward to working with the global Ansys network to deliver the benefits of machine learning to many more AM project teams."

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Jim Bailey joins Capgemini as CEO of the Americas Strategic Business Unit
22 February 2021

Capgemini announces the appointment of Jim Bailey as CEO of the Americas Strategic Business Unit and Group Executive Board Member. In his new role Jim will focus on achieving Capgemini's growth ambition across the region and consolidating its position as a strategic partner to CxOs in the key markets of North America and Latin America.

"Jim brings to Capgemini a breadth of leadership experience in digital services across many industries, including management of strategic partnerships and large accounts. His impressive track record will strengthen our senior client relationships and accelerate the development of the Group's business across the Americas," comments Aiman Ezzat, CEO of the Capgemini Group. *"Jim joins Capgemini at an exciting time to drive the expansion of our footprint in this very large and critical market for the Group. I am delighted to welcome Jim to Capgemini and the Group Executive Board."*

"I am delighted to join Capgemini's senior leadership team, taking the helm of the Americas Strategic Business Unit," said Jim Bailey. *"I believe that Capgemini's extensive global presence combined with its deep functional, technical and industry expertise position it extremely well for even greater success in the Americas. The company's full range of business transformation services are highly differentiated and drive powerful outcomes in the market. I am really looking forward to playing my part in advancing these services and growing Capgemini's presence across the Americas."*

Jim will report to Olivier Sevillia, Chief Operating Officer of the Capgemini Group. He joined

Capgemini on February 22 and will spend the coming weeks onboarding prior to assuming his role formally on April 1, 2021.

Biography: Jim Bailey

Jim Bailey comes to Capgemini from a thirty-year career at Accenture, where he was a Senior Managing Director and a founding member of the Accenture Digital leadership team. In this capacity, he was responsible for its mobility and internet-of-things practices globally, leading a team providing digital strategy, application services and embedded software, as well as digital platforms and industry vertical offerings. During this tenure, Jim was responsible for relationships with Apple, GE, Google, Intel and Microsoft. He was also a member of Accenture's Global Leadership Council providing overall senior leadership for the firm.

Prior to this position, Jim held a number of roles leading global, national and regional client teams. He has led complex client accounts and engagements in strategy, management consulting, technology consulting, application services and business process outsourcing across many industries. As a former Diamond Client Account Lead, Jim led client teams in the Banking, Communications, Insurance, Retail, Automotive and Travel industries. In addition to those industries, Jim also has deep client delivery experience in the Capital Markets, Consumer Goods and Manufacturing sectors. Jim also helped establish Accenture's Commercial Director function globally, leading corporate functions in finance, legal, human resources and account management.

Jim is a graduate of Princeton University and lives in Atlanta. He has been a leadership volunteer with the Atlanta Metro Chamber of Commerce, Atlanta Symphony and Woodruff Arts Center.

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Mastercam Reports on Success in Manufacturing Through Tough 2020 Environment

23 February 2021

CNC Software, Inc., developer of Mastercam, the world's leading CAD/CAM software platform, is acknowledging many positive results of hard work and perseverance through the challenges of a global pandemic. 2020 was a difficult year in which the manufacturing community made tremendous sacrifices to serve the needs of people, supply chains, and economies the world over. For the twenty-sixth year in a row, Mastercam had strong results and continued to be the world's most widely used CAM software.

President and CEO of CNC Software Inc., Meghan West shared, "This past year was a reminder of the role that manufacturing plays in the global community. Even when the world stops, manufacturing does not. Even when we see disruptions of such great magnitude, our employees, our Resellers, and our customers continue to forge on to produce the items that the world relies on. It is an honor to be a small part of empowering that process. Mastercam's mission is to solve the world's manufacturing challenges, and this past year was a testament to that commitment."

Manufacturing, and the Mastercam community in particular, showed resilience through nimble shifts in organization and production strategies. Through challenges and uncertainty, Mastercam's suite of solutions empowered manufacturers to improve productivity and mitigate costs in an increasingly competitive global environment.

To keep employees safe during the COVID-19 pandemic, CNC Software successfully shifted its workforce to 100 percent remote and released Mastercam 2021 on schedule. Also, many training and educational programs related to the software release were shifted to digital platforms, with great success.

The company beat 2019 revenue and filled several key strategic roles to bring even greater support and security to the business, development cycle, and Mastercam community-at-large.

Such rapid response to the challenges of a global pandemic enabled CNC Software to provide steadfast support for a network of Mastercam Resellers that made accommodations and swift changes themselves to support manufacturing enterprises around the globe. As Mastercam drives improved automation, productivity, and cost savings for shops, Mastercam Resellers empower the implementation of modern manufacturing into production processes that were especially vital in 2020 as part of the collective response to the pandemic-relief effort.

In May, Mastercam released a video expressing gratitude to the manufacturing community, in honor of the many companies and employees that ramped up production or shifted gear as needed to keep communities stocked with PPE and household necessities. Many Mastercam Resellers and users were among those answering this call. Here are a few highlights:

- Bittersweet Update from Purdue University Formula SAE Team
- New York Reseller Teams Up to Provide PPE
- Mastercam Reseller Cimquest Responds to the Pandemic
- IME Attacks COVID-19 on Multiple Fronts
- Mastercam Reseller OptiPro Makes Face Shields for Nursing Homes
- Manufacturing is Strong in the Fight against COVID-19

Mastercam took many steps to provide increased value to its user community throughout 2020. A commitment to local and global initiatives included Workshops for Warriors, WorldSkills, TITANS of CNC | Academy, Manufacturing Day, Big Brothers Big Sisters, and more.

The company also remained steadfast in supporting numerous educational programs and competitions, many of which had challenges in the face of distance learning and social distancing protocols. Free Mastercam University courses were delivered to over 20,000 people to learn or improve CAD/CAM skills, as well as a free Mastercam Dynamic Thinking series of content. This series included webinars—recorded and made available as videos—blogs, and more.

Partnerships with leading machine tool and tooling manufacturers expanded, new post processors were developed, an improved Mastercam Swiss solution was released, software licensing launched around the world, and efforts to improve the usability and functionality of Mastercam carried on seamlessly. As the future of manufacturing is considered, Mastercam continues to assess, refine, and expand on behalf of a worldwide user base.

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Pivot to Remote Learning Allows TCS' Ignite My Future in School Program to Reach 1 Million U.S. K-12 Students

25 February 2021

Tata Consultancy Services (TCS) a leading global IT services, consulting and business solutions organization, announced that its Ignite My Future in School (IMFIS) STEM/computer science education program — which was created in partnership with Discovery Education, the global leader in K-12 digital resources and professional learning — surpassed its five year goal of reaching one million U.S. K-12 students, a full year ahead of schedule. The pioneering program empowers educators to teach

computational thinking, which are the critical skills that help students solve real-life problems and challenges by expressing them in a way that computers can solve.

In the wake of COVID-19, TCS moved the IMFIS program to a 100 percent virtual format, helping improve equity and access to high-quality digital content for educators and students, specifically those from under resourced communities. TCS will continue growing its investment to bring IMFIS to every student and educator in the U.S. and abroad, while focusing on supporting disconnected and marginalized student populations and empowering girls in STEM. Beyond the U.S., the virtual program is now enabled to be rapidly adopted by educators in more than 70 countries in response to the growing global interest in computational thinking resources to engage students.

Launched in September 2017, the program has now empowered nearly 20,000 teachers and 1.1 million students across 353 school districts, across all 50 U.S. states. The top 10 states for classroom adoption are California, Texas, New York, Virginia, Florida, North Carolina, Georgia, Illinois, Pennsylvania, and New Jersey. Educators across core subjects use lessons such as *Build a movement,* where students learn how data and algorithms impact something that 'goes viral'; *Outbreak,* where students analyze how a virus spreads and can be contained*; and *Emoji Essay,* where students use abstraction to explore language and communication.

"*As a purpose-driven enterprise, at TCS we believe that it is our responsibility to make a lasting societal impact in local communities where we work and live*," said **Surya Kant, Chairman of North America, TCS.** "*We are grateful to educators across the country for their efforts to adopt this new approach to teaching and learning. As we rebuild for a post-COVID-19 economy, these million young Americans and more will apply computational thinking skills to chart a new course for our nation and society.*"

"*Ignite My Future in School impacted students in my classrooms by providing authentic learning experiences that challenged my students to use computational thinking skills to solve real world problems,*" said **Jenna Rosienski, Assistant Principal – Franklin Middle School, Janesville, WS. "***The program helps my district by bringing teachers together to engage transdisciplinary lessons for our students and evaluate their current content and practices to ultimately change how and what we teach and learn with students through the hands on and engaging lessons that IMFIS provides.*"

While computational thinking has been core to the advancement of computing in the 20th century, visionaries like Seymour Papert (1980) and more recently Jeanette Wing (2006) have illustrated the need for broader adoption as a foundational skill for all students. TCS envisioned the first-of-its-kind STEM/computer science education program with a mission to make computational thinking accessible to every student and educator. Ignite My Future brought this vision to life by adopting a transdisciplinary approach and integrating computational thinking concepts into all core subjects, including math, science, language arts, and social studies.

Computing occupations make up 67 percent of all projected new jobs in STEM fields and there are more than 500,000 open computing jobs in the U.S., according to the Bureau of Labor Statistics employment projections. However, the 2020 State of Computer Science Education: Illuminating Disparities study found that only 45 percent of high schools in the U.S. currently teach computer science.

Ignite My Future combines the best of digital content, lesson plans, career vignettes, and professional learning to help teachers prepare students for future careers. The program offers educators instructional resources and year-round curriculum support to help students obtain the necessary skills required for 21st century careers across all industries. A core part of the program are the 246 educators in the U.S. and globally who have joined hands to create the IMFIS Learning Leaders Network, a free teacher driven community of like-minded individuals who share resources to improve everyday student

experiences.

Furthermore, the IMFIS annual Ignite Innovation Student Challenge has seen students innovate to solve community problems such as early wildfire detection, early diagnosis of opioid addiction, food security, accessibility, personal health, and digital mentoring. There is now a rising trend of mainstream adoption of computational thinking, with institutions such as the National Science Foundation, International Society for Technology in Education, and the Association of Computing Machinery leading the way.

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PlanHub Construction Software Announces Chad Perry as New Vice President of Market Development

23 February 2021

PlanHub, a leading pre-construction bidding marketplace for general contractors, subcontractors, and suppliers, is pleased to announce that Chad Perry has joined the company as the new Vice President of Market Development. In this role, Chad is responsible for leading the development and expansion of PlanHub's marketplace through increased participation by both subcontractors and general contractors.

With over 15 years of expertise, Chad brings deep experience in growing a SaaS business and delivering world-class customer experiences. Before joining PlanHub, Chad served as the Vice President of Strategic Operations at DealerSocket, a leading global automotive technology platform. There, he led the strategic direction and execution of initiatives through multiple business units. Prior to his time as a VP, Chad led and oversaw the success of several product lines, nationwide teams, and the application of various processes as the Senior Director of Operations. Chad has his B.A. in Business Administrations and Marketing from Eastern Oregon University.

"Chad's ability to develop and execute high-impact growth strategies will help PlanHub achieve its vision of being the premier pre-construction marketplace -- where every project should begin," says Cameron Darby, CGO at PlanHub.

Chad's extensive background and business development skills will help Planhub strengthen its nationwide market presence and develop a top-tier customer experience for its users.

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PROLIM ranked "Top 100 Fastest growing companies in North Texas"

23 February 2021

PROLIM, a leading provider of end-to-end IoT, IT and PLM solutions, was ranked in the "Top 100 Fastest growing companies in North Texas" by the Caruth Institute for Entrepreneurship at Southern Methodist University's Cox School of Business.

The Dallas 100 annually gauges the fastest-growing privately held companies in North Texas.

The annual award ranks the area's top 100 entrepreneurial companies based on percentage growth and absolute dollar growth over the previous three years. The Institute, working with the accounting firm BKD LLP CPAs and Advisors, examined sales from hundreds of companies for 2017 to 2019, and selected the winners!

"We have an exciting year," says Prabhu Patil, CEO of PROLIM. "We are very excited and honored to

be the fastest-growing company in North Texas. This growth is only possible because of our great team members and our valued customers. Given PROLIM's focus on enabling innovation through IT, IoT and PLM technology with high-performing deep industry knowledgeable PLM software teams, we are able to consistently help our clients quickly scale their PLM needs reducing their time-to-market"

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Shreekanth Moorthy Joins Vertex Software as Senior Vice President of Digital Transformation Strategy

23 February 2021

Vertex Software announced an important addition to their leadership team. Shreekanth (Shree) Moorthy was named the company's Senior Vice President of Digital Transformation Strategy, overseeing digital transformation and business development efforts across strategic accounts and partners. Moorthy brings over 27 years of experience in software product and business transformation strategy within discrete manufacturing. Most recently, Moorthy served as both the CIO and the Global Vice President of PLM for Tata Technologies, where he built a global services business line to solve challenges for manufacturing customers—boosting market share and driving company growth. His experiences in the last two decades have made him passionate about the factory of the future, digital manufacturing, and other emerging technologies that push the envelope in manufacturing.

"Shree has a proven track record of scaling sales and partner organizations for the world's leading industrial software and service providers," says Dan Murray, Vertex Software Founder & CEO. "His consultative approach aligns perfectly with our culture of collaboration and innovation to deliver the best possible outcomes for our customers. We are extremely excited to have a leader of his caliber join the Vertex team."

"I consider myself an evangelist for new technologies that push the envelope and deliver exponential value to manufacturing," says Moorthy. "What got me excited is clearly the technology. It is quite remarkable what Vertex has been able to achieve in 3D visualization. Vertex is also consistently proving that they can deliver on their promises around digital transformation and the digital twin. I am honored to be part of the team."

Prior to serving as CIO and Global VP of PLM at Tata Technologies for twelve years, Moorthy spent eleven years at Siemens PLM Software (Engineering Animation / UGS / EDS PLM) where he ran the Digital Factory products line.

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Siemens and EOS North America Partner to Improve AM Efficiency and Profitability

23 February 2021

Siemens Digital Industries Software and EOS North America announced an expansion of their partnership, which can help improve efficiency and profitability and increase the adoption of industrialized additive manufacturing. Through this agreement, EOS North America, the leading technology provider for industrial 3D printing of metal and polymer, will be able to resell Siemens' software solutions for Additive Manufacturing (AM) with its machines. This can provide customers with build preparation and build optimization, as well as connectivity to critical upstream design and

downstream production processes.

"The ability to offer our customers a combination of Siemens' AM software with EOS machines is an important step toward industrializing additive manufacturing for larger-scale production," said Andrew Snow, senior vice president of EOS North America. "We want to ensure that our customers can be as successful printing their first part today as they will their ten-thousandth part tomorrow, which means our machines must go beyond build preparation to connect to the entire end-to-end AM process. This new agreement with Siemens will help accomplish this and we're excited to partner with Siemens as a reseller of their AM solutions."

In addition to integrating EOS' job and process management software EOSPRINT 2 with Siemens' NX™ software, EOS will begin to resell NX AM build preparation and its AM Build Optimizer software for part orientation and support structure optimization to metal additive customers. The combined capabilities of these solutions can give EOS customers greater confidence that they've prepared their 3D printed parts to best accomplish their goals of first-time-right printing. In addition, the combination of EOS and Siemens solutions will allow EOS customers to leverage other Siemens capabilities across the AM digital thread, including design for additive, topology optimization, build process simulation, materials engineering and durability analysis, design validation, scheduling and execution, process automation, performance monitoring and product lifecycle management.

Siemens and EOS have a longstanding partnership in advancing industrialized additive manufacturing, which began in 2016, when EOS integrated its EOSPRINT software into Siemens' NX software, and was extended in 2018, when Siemens provided automation and drive technology for the new EOS M 300 Series and EOS P 500 Series machines. This new agreement further expands this partnership by enabling EOS North America to resell products in Siemens' end-to-end solution for industrialized additive manufacturing as part of its Xcelerator™ portfolio of software and services.

"With this agreement, EOS and Siemens can greatly improve the efficiency and profitability of the AM factory," added Aaron Frankel, Vice President of the AM Program for Siemens Digital Industries Software. "Instead of only providing the build preparation for a single machine, customers can now leverage a unified process upstream to transform design, and downstream to realize high-volume AM factory production. This unified process is critical for industrialized AM."

The difference between Siemens' end-to-end additive design-through-manufacturing environment and point solution alternatives is that every phase of the AM development is connected via a single, associative digital thread. "Point solutions introduce time-consuming, error-prone inefficiencies into the AM workflow," said Frankel. "Customers often have to interrupt their process to convert data for different software environments. And the problems with this approach are compounded with every change that's required."

Sintavia LLC, a designer and additive manufacturer of critical thermal components for the aerospace, defense, and space industry, has been building an end-to-end additive manufacturing workflow leveraging the NX AM Print Driver for EOSPRINT and NX AM Build Preparation and AM Build Optimizer. They also recently purchased two M4K-4 printers which are stretched versions of the EOS M400-4 printer. "This move by EOS North America to more tightly integrate Siemens AM software into its 3D printing systems perfectly aligns with our goal to create a seamless automated AM digital thread from design through production," said Brian Neff, CEO of Sintavia. "If we're going to make additive manufacturing a truly industrialized process, we need to ensure that the entire workflow is as efficient as possible. A strong technical integration between EOS and Siemens software not only helps with build preparation, optimization and 3D printing, but it enables tighter connection to every other phase across the AM value chain."

As part of the reseller agreement, Siemens Digital Industries Software will train the EOS Additive Minds technical consulting team on NX AM and AM Build Optimizer software. Additive Minds, in turn, will train EOS customers on the use of Siemens' AM solutions. The two organizations have also agreed on an extensive framework for providing in-depth technical support.

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Wipro appoints Graziella Neuvéglise as Regional Head and Managing Director, Southern Europe
24 February 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced the appointment of Graziella Neuvéglise as Regional Head & Managing Director, Southern Europe.

Graziella will oversee operations in France, Spain, Portugal and Italy. She is a leader with proven experience in driving transformation and creating profitable, sustainable, agile and growing organizations that operate with best-in-class standards. Graziella has a successful track record in guiding digital transformations that makes her well positioned to lead Wipro's business in this region.

"Southern Europe has emerged as a significant market in recent years, with a growing demand for digital transformation as companies expand their offerings. I am confident that Graziella will be able to leverage her leadership experience and understanding of this sector to help clients find success today and lay the groundwork for future growth. Her addition to our capable team will equip Wipro to better address the requirements of clients in real-time," said **Pierre Bruno, CEO- Europe, Wipro Limited.**

"I am deeply honored to be chosen to lead Wipro in Southern Europe and I look forward to working with teams across the globe. Our strategy, focused on profitable and sustainable growth, mixing organic and inorganic initiatives, is based on operational excellence, talent development, social impact and financial strength," said **Graziella Neuvéglise.**

Prior to joining Wipro, Graziella served in leadership roles with CGI, Accenture & Capgemini. She holds a postgraduate degree in Finance as well as a Masters in Mathematics and Econometrics from Université de Rennes in France. Graziella is an active volunteer, assisting non-profit campaigns in education and animal protection.

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Wipro marks 25 years of partnership with Cisco; launches Cisco Business Unit
25 February 2021

Wipro Limited, a leading global information technology, consulting, and business process services company is celebrating the 25th anniversary of its business partnership with Cisco, a worldwide leader in technology that powers the Internet. To commemorate this milestone, Wipro is launching the Cisco Business Unit that will focus on the development and adoption of end-to-end digital transformation solutions leveraging Cisco technologies for customers. This strategic initiative demonstrates Wipro's commitment to its business relationship with Cisco. Also, it is a growth accelerator for the successful and well-established 360-degree partnership of several years.

Over the course of 25 years, Wipro has focused on delivering its transformative service capabilities

across Digital, Cloud, Security, and Engineering, which are aligned with Cisco's operational priorities. Wipro and Cisco co-develop communications, infrastructure, and security solutions that combine Cisco's industry-leading network and security products with Wipro's global system integration, IT consulting, and industry domain expertise. The synergy of this partnership has made Wipro one of the most preferred digital transformation partners for customers across the globe. Wipro, a gold-certified Cisco partner, is among the top 10 GSI partners of Cisco.

The Cisco Business Unit will provide a full stack of industry offerings aligned to customers' needs. Key solutions and digital accelerators include Intent-Based Networking, Digital Workplace Virtualization, Hybrid Cloud, Application Transformation, Security and Enterprise 5G.

Oliver Tuszik, Senior Vice President, Global Strategic Partner Organization, Cisco said, "As a key partner, Wipro has consistently innovated its business model by leveraging its diverse Cisco capabilities to deliver end-to-end digital solutions that enable customers' business outcomes. Wipro has also pioneered the adoption of Cisco's critical software and digital solutions—not just for its global customers' usage but to enhance its internal IT architecture as well. With today's current global challenges and rapidly evolving customer needs, the launch of Wipro's Cisco Business Unit will ensure that the best of Cisco and Wipro are available to our customers through innovative joint solutions and consumption-based business models."

Kiran Desai, Senior Vice President and Global Head, Cloud and Infrastructure Services, Wipro Limited said, "Our strategic partnership with Cisco is built on a strong foundation of mutual trust, governance and joint investments in next-generation industry solutions. The Cisco Business Unit, is a step forward in our relationship with Cisco. It will help our customers overcome disruptions in their operations, scale rapidly and transform their IT environments for greater business outcomes. Through our shared vision for delivering best-in-class customer experience, our integrated offerings with Cisco enable an end-to-end solution for digital business."

Wipro's Cisco Business Unit will help customers adopt digitization, improve time to market, drive customer experience and realize business benefits by rapidly bringing down operational costs. The new unit has a competitive workforce trained through Cisco professional certifications. By committing its best resources through this dedicated business unit, Wipro will ensure the success of Cisco's strategic programs. Wipro and Cisco have also invested in innovation centres and labs across all major geographies to develop solution use-cases and deliver projects for customers.

Srini Pallia, CEO – Americas, Wipro Limited said, "Our 25 years of partnership with Cisco is a testimony to Wipro's ability to keep pace with changes in the business and technology worlds, and the launch of the Cisco Business Unit reinforces that proficiency. With a focus on driving go-to-market in all our major strategic geographies, Wipro will invest in developing end-to-end platform-as-a-service solutions utilizing the full-stack of Cisco's industry-leading technologies to accelerate the digital journey of our customers from planning to execution."

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Wipro Names René Mulder as Country Head and Managing Director, Switzerland

24 February 2021

Wipro Limited, a leading global information technology, consulting and business process services company, announced the appointment of René Mulder as Country Head and Managing Director, Switzerland.

René has proven experience in leading large organizations and has a successful track record of driving growth, building profitable businesses and creating sustainable and successful relationships with customers, partners and local authorities. He will leverage his broad experience to guide Wipro's clients through their digital transformation journeys.

"Switzerland is an important market for Wipro, with a solid customer base and growing demand for digital transformation as companies expand their offerings. I welcome René to Wipro and am confident his depth of knowledge and breadth of experience will bring immense value to the team and expand our presence in the country," said **Pierre Bruno, CEO – Europe, Wipro Limited**.

"I am excited to be a part of the leadership team at Wipro. I look forward to leveraging my industry experience to help further our clients' digital agenda and strengthen Wipro's footprint in Switzerland," said **René Mulder**.

Prior to joining Wipro, René served in leadership roles with Siemens, Swisscom, T-Systems and DXC Technology in Switzerland as well as in countries like Germany, The Netherlands, Poland and the Czech Republic. He holds a postgraduate degree in General Management from the University of Sankt Gallen (HSG) in Switzerland.

Wipro Partners with Uptake to Provide Advanced Analytics for the Heavy Processing and Energy Industries

23 February 2021

Uptake announced that it has signed a partnership agreement with Wipro Limited, a leading global information technology, consulting and business process company, to deliver industrial intelligence for the utilities, chemical processing, and oil and gas industries. The partnership merges Uptake's advanced analytics software with Wipro's consulting and implementation services to equip asset-intensive operators with the digital tools for optimized maintenance and predictive analytics.

"Integrating multiple data sources and generating actionable insights are essential for businesses to grow and become intelligent enterprises. By combining Wipro's experience in reliability-centered maintenance (RCM) and asset performance management (APM) with Uptake's proprietary Asset Strategy Library® (ASL®), we will help heavy processing and energy customers optimize their inspection and maintenance processes. We look forward to working with our joint customers to realize improvements in safety, asset reliability, risk mitigation and reduce overall cost," said Arnab Sarkar, Global Head, Energy Manufacturing Practice, Wipro Limited.

The Asset Strategy Library (ASL), the world's largest source of asset failure modes and maintenance strategies, covers 800+ of the most common critical assets with 58,000+ universal failure modes and 178,000+ as-found reportable conditions. The ASL delivers insights into how and why critical assets and their components fail, and the preventative maintenance (PM) strategies to prevent failures. The ASL, and its associated equipment strategies generated through Uptake PM Strategy Explorer, give operators access to expert-curated recommendations and best practices. Both components, in turn, power the maintenance strategy engine, Uptake Compass, which automatically cleans work order data to optimize maintenance programs.

"Asset-heavy companies are facing complex challenges in legacy OT & IT systems, sustainability issues, and skill shortages that can be managed with predictive maintenance," said Andrew Soignier,

Vice President of Product Development at Uptake. "Uptake's partnership with Wipro will facilitate the easeful adoption and use of our advanced analytics products by corporations around the world."

Uptake's partnership with Wipro comes as the Industrial AI company recently announced its acquisition of ShookIOT, a leader in cloud-native data integration and integrity, as well as its partnership with Reliability Center, Inc. (RCI), a provider of root cause analysis investigation software.

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Event News

Bentley Systems to Present at the Berenberg Design Software Conference
24 February 2021

Bentley Systems, Incorporated, the *infrastructure engineering software company*, announced that Greg Bentley, Bentley Systems' chief executive officer, will present virtually at the Berenberg Design Software Conference on Thursday, March 11, 2021 at approximately 11:00 a.m. Eastern time.

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iBASEt Hosts 5th Webinar Presented by the MOM Institute: Pick the Right Metrics for MES Success
25 February 2021

WHAT: This webinar examines what metrics should be considered as part of implementing and maintaining a Manufacturing Execution System, or MES. Different metrics should be identified, depending upon the lifecycle stage of your deployment. Pick the right metrics for MES success to gain stakeholder acceptance and justify future investment to gain the full scope of possible performance improvements.

WHO: Jan Snoeij, President and Sr. Business Consultant at the Manufacturing Operations Management Institute (MOMi), will lead the discussion on this topic. Drawing upon his many years of experience, he will provide thoughtful insights on how and what to measure as part of evaluating the success of a Manufacturing Execution (MES), Quality Management (QMS) or Maintenance, Repair & Overhaul (MRO) System in the context of a digitalization transformation strategy. Jan is actively involved in MESA International as a member of the International Board and various working groups.

WHERE: Register here: https://info.ibaset.com/webinar-pick-the-right-metrics-for-mes-success

WHEN: Live 30-minute broadcast will occur on Wednesday, March 10 from 8:00 a.m. – 8:30 a.m. PDT / 11:00 – 11:30 EDT.

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PROS Announces Virtual Investment Conference Schedule for March 2021
22 February 2021

PROS Holdings, Inc., a provider of AI-powered solutions that optimize selling in the digital economy, announced that company management will participate virtually in the following investment conferences

in March.

JMP Securities Technology Conference
Stefan Schulz, CFO and Belinda Overdeput, Senior Manager, Investor Relations
Monday, March 1, 2021 | Virtual Fireside Chat 1:30 PM - 1:55 PM EST and Investor Meetings

Morgan Stanley Technology, Media and Telecom Conference
Andres Reiner, President & CEO, Alex Harrington, Vice President of Finance, and Belinda Overdeput,
Senior Manager, Investor Relations
Wednesday, March 3, 2021 | Virtual Fireside Chat 10:15 AM - 10:45 AM EST and Investor Meetings

The fireside chats will be webcast live and available by visiting the Investor Relations section of the company's website. The replay of the webcast will be archived on the company's website.

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Synopsys Co-CEO Aart de Geus to Speak at Virtual Morgan Stanley Technology, Media & Telecom Conference

23 February 2021

Synopsys, Inc. announced that Aart de Geus, chairman and co-CEO, will speak at the 2021 Virtual Morgan Stanley Technology, Media and Telecom Conference on March 2, 2021.

This event will be broadcast live on the Internet via the Synopsys corporate website on Tuesday, March 2, 2021, at 9:30 a.m. PT (12:30 p.m. ET). The webcast replay of the presentation will be available at the Synopsys corporate website approximately one hour following the conclusion of the live event, and remain available for six months.

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Financial News

Altair Announces Fourth Quarter 2020 Financial Results

25 February 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 fourth quarter and full year ended December 31, 2020.

"Altair had an excellent fourth quarter and full year 2020," said James Scapa, Founder, Chairman and Chief Executive Officer of Altair. "In a year of business disruptions and personal challenges, Altair brought to market broad and deep additions and enhancements to our product portfolio while delivering solid financial performance. I am proud of our global team, and excited about 2021 as we will continue delivering industry-leading technology and expertise aligned with our vision for the convergence of simulation, high-performance computing, and artificial intelligence."

"Software product revenue increased over 12% from the fourth quarter of 2019 to 85% of total revenue, which drove year over year improvement in gross margin of over 500 basis points for the quarter, while our recurring software license rate rose to 92% for the year," said Howard Morof, Chief Financial Officer of Altair. "The top line performance coupled with continued discipline managing operating

expenses had a very positive impact on our profitability in the quarter."

Fourth Quarter 2020 Financial Highlights

- Software product revenue was $113.6 million compared to $101.2 million for the fourth quarter of 2019.

- Total revenue was $133.4 million compared to $123.9 million for the fourth quarter of 2019.

- Net income was $2.2 million compared to net loss of $(1.5) million for the fourth quarter of 2019. Diluted net income per share was $0.03 based on 78.5 million diluted weighted average common shares outstanding, compared to diluted net loss per share of $(0.02) for the fourth quarter of 2019, based on 72.2 million diluted weighted average common shares outstanding.

- Adjusted EBITDA was $21.7 million, compared to $12.7 million for the fourth quarter of 2019.

- Non-GAAP net income was $14.1 million, compared to Non-GAAP net income of $5.3 million for the fourth quarter of 2019. Non-GAAP diluted net income per share was $0.17 based on 83.0 million non-GAAP diluted common shares outstanding, compared to Non-GAAP diluted net income per share of $0.07 for the fourth quarter of 2019, based on 78.0 million non-GAAP diluted common shares outstanding.

- Free cash flow was $3.4 million, compared to $(0.2) million for the fourth quarter of 2019.

Full Year 2020 Financial Highlights

- Software product revenue was $391.7 million compared to $366.7 million for the full year of 2019.

- Total revenue was $469.9 million compared to $458.9 million for the full year of 2019.

- Net loss was $(10.5) million compared to net loss of $(7.5) million for the full year of 2019. Diluted net loss per share was $(0.14) based on 73.2 million diluted weighted average common shares outstanding, compared to diluted net loss per share of $(0.11) for the full year of 2019, based on 71.5 million diluted weighted average common shares outstanding.

- Adjusted EBITDA was $57.3 million, compared to $39.5 million for the full year of 2019.

- Non-GAAP net income was $25.5 million, compared to Non-GAAP net income of $16.4 million for the full year of 2019. Non-GAAP diluted net income per share was $0.31 based on 83.0 million non-GAAP diluted common shares outstanding, compared to Non-GAAP diluted net income per share of $0.21 for the full year of 2019, based on 78.0 million non-GAAP diluted common shares outstanding.

- Free cash flow was $26.8 million, compared to $21.7 million for the full year of 2019.

Business Outlook

Based on information available as of today, Altair is issuing guidance for the first quarter and full year 2021.

(in millions)	First Quarter 2021		Full Year 2021	
Software Product Revenue	$ 118.0	to $ 120.0	$ 423.0	to $ 431.0
Total Revenue	$ 138.0	$ 140.0	$ 502.0	$ 510.0

Net Loss	$ (5.4)	$ (4.5)	$ (44.0)	$ (38.3)
Non-GAAP Net Income	$ 16.3	$ 17.8	$ 36.9	$ 42.8
Adjusted EBITDA	$ 24.0	$ 26.0	$ 58.0	$ 66.0

Conference Call Information

What: Altair's Fourth Quarter and Full Year 2020 Financial Results Conference Call

When: Friday, February 26, 2021

Time: 8:30 a.m. ET

Live Call: (866) 754-5204, Domestic
(636) 812-6621, International

Replay: (855) 859-2056, Conference ID 3056322, Domestic
(404) 537-3406, Conference ID 3056322, International

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

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Autodesk, Inc. Announces Fiscal 2021 Fourth Quarter And Full-Year Results
25 February 2021

Autodesk, Inc. reported financial results for the fourth quarter of fiscal 2021.

All growth rates are compared to the fourth quarter of fiscal 2020 unless otherwise noted. A reconciliation of GAAP to non-GAAP results is provided in the accompanying tables. For definitions, please view the Glossary of Terms later in this document.

Fourth Quarter Fiscal 2021 Financial Highlights

- Total revenue increased 16 percent to $1.04 billion;
- GAAP operating margin was 18 percent, up 3 percentage points;
- Non-GAAP operating margin was 30 percent, up 1 percentage point;
- GAAP diluted EPS was $4.10, in part reflecting a $679 million deferred tax asset valuation allowance release; non-GAAP diluted EPS was $1.18;
- Cash flow from operating activities was $658 million; free cash flow was $634 million.

"Our strong fiscal 2021 results reflect the increasing importance of a cloud-based platform to our customers and the resilience of our subscription business model," said Andrew Anagnost, Autodesk president and CEO. "With a record number of enterprise agreements in the fourth quarter and recently announced intention to acquire Innovyze, we are looking to the future with optimism and remain confident in our fiscal 2023 targets and double-digit growth thereafter."

Fourth Quarter Fiscal 2021 Additional Financial Details

- Total billings decreased 1 percent to $1.47 billion.
- Total revenue was $1.04 billion, an increase of 16 percent as reported and on a constant currency

basis. Recurring revenue represents 94 percent of total.

- Design revenue was $899 million, an increase of 13 percent as reported, and 14 percent on a constant currency basis. On a sequential basis, Design revenue increased 6 percent as reported and on a constant currency basis.

- Make revenue was $82 million, an increase of 28 percent as reported, and 27 percent on a constant currency basis. On a sequential basis, Make revenue increased 7 percent as reported, and 6 percent on a constant currency basis.

- Subscription plan revenue was $950 million, an increase of 22 percent as reported and on a constant currency basis. On a sequential basis, subscription plan revenue increased 7 percent as reported and on a constant currency basis.

- Maintenance plan revenue was $30 million, a decrease of 62 percent as reported, and 61 percent on a constant currency basis. On a sequential basis, maintenance plan revenue decreased 24 percent as reported, and 22 percent on a constant currency basis.

- Net revenue retention rate was within the range of 100 to 110 percent.

- GAAP operating income was $184 million, compared to $134 million in the fourth quarter last year. GAAP operating margin was 18 percent, up 3 percentage points.

- Total non-GAAP operating income was $315 million, compared to $259 million in the fourth quarter last year. Non-GAAP operating margin was 30 percent, up 1 percentage point.

- GAAP diluted net income per share was $4.10, compared to $0.59 in the fourth quarter last year, in part reflecting a $679 million deferred tax asset valuation allowance release.

- Non-GAAP diluted net income per share was $1.18, compared to $0.92 in the fourth quarter last year.

- Deferred revenue increased 12 percent to $3.36 billion. Unbilled deferred revenue was $881 million, an increase of $331 million compared to the fourth quarter of last year. Remaining performance obligations (RPO) increased 19 percent to $4.24 billion. Current RPO increased 16 percent to $2.74 billion.

- Cash flow from operating activities was $658 million, a decrease of $41 million compared to the fourth quarter last year. Free cash flow was $634 million, a decrease of $50 million compared to the fourth quarter last year.

Fiscal 2021 Financial Highlights

- Total billings decreased 1 percent to $4.14 billion.

- Total revenue was $3.79 billion, an increase of 16 percent as reported, and 17 percent on a constant currency basis. Recurring revenue represents 97 percent of total.

- Design revenue was $3.37 billion, an increase of 15 percent as reported, and 16 percent on a constant currency basis.

- Make revenue was $296 million, an increase of 36 percent as reported and on a constant currency basis.

- Subscription plan revenue was $3.48 billion, an increase of 26 percent as reported, and 27 percent on a constant currency basis.

- Maintenance plan revenue was $183 million, a decrease of 53 percent as reported, and 51 percent

on a constant currency basis.

- Total subscriptions increased approximately 404,000 from fiscal 2020 to 5.27 million at the end of fiscal 2021. Total subscriptions adjusted for the multi-user trade-in increased approximately 186,000 from fiscal 2020 to 5.06 million.

- Subscription plan subscriptions increased 679,000 from the end of fiscal 2020 to 5.15 million at the end of fiscal 2021.

- GAAP operating income was $629 million compared to $343 million last year. GAAP operating margin was 17 percent, up 6 percentage points.

- Total non-GAAP operating income was $1.11 billion compared to $803 million last year. Non-GAAP operating margin was 29 percent, up 5 percentage points.

- GAAP diluted net income per share was $5.44, compared to $0.96 last year, in part reflecting a $679 million deferred tax asset valuation allowance release.

- Non-GAAP diluted net income per share was $4.05, compared to $2.79 last year.

- Cash flow from operating activities increased to $1.44 billion, compared to $1.42 billion in fiscal 2020. Free cash flow decreased to $1.35 billion, compared to $1.36 billion in fiscal 2020.

Cadence Reports Fourth Quarter and Fiscal Year 2020 Financial Results

22 February 2021

Cadence Design Systems, Inc. announced results for the fourth quarter and fiscal year 2020.

Cadence reported 2020 revenue of $2.683 billion, compared to revenue of $2.336 billion for 2019. On a GAAP basis, Cadence achieved operating margin of 24 percent and recognized net income of $591 million, or $2.11 per share on a diluted basis, in 2020, compared to operating margin of 21 percent and net income of $989 million, or $3.53 per share on a diluted basis for 2019. Revenue for the fourth quarter of 2020 totaled $760 million, compared to revenue of $600 million for the same period in 2019. Cadence achieved operating margin of 24 percent and recognized net income of $174 million, or $0.62 per share on a diluted basis, in the fourth quarter of 2020, compared to operating margin of 18 percent and net income of $660 million, or $2.36 per share on a diluted basis, for the same period in 2019. GAAP net income for the fourth quarter of 2019 and fiscal 2019 included a one-time non-cash tax benefit of $576 million related to intercompany transfers of certain intellectual property rights to Cadence's Irish subsidiary.

Using the non-GAAP measure defined below, operating margin for 2020 was 35 percent and net income was $782 million, or $2.80 per share on a diluted basis, compared to operating margin of 32 percent and net income of $618 million, or $2.20 per share on a diluted basis, for 2019. For the fourth quarter of 2020, operating margin was 37 percent and net income was $234 million, or $0.83 per share on a diluted basis, compared to operating margin of 31 percent and net income of $152 million, or $0.54 per share on a diluted basis, for the same period in 2019.

"I am very pleased that against the backdrop of an unprecedented year, Cadence delivered outstanding results for 2020, driven by our highly innovative solutions and strong execution," said Lip-Bu Tan, chief executive officer. "Generational industry drivers continue to fuel robust design activity and I am especially excited by the momentum in our system design and analysis segment as we further our

Intelligent System Design strategy with the pending acquisition of NUMECA."

"Many unique factors contributed to Cadence's solid 2020 results of 15% revenue growth, 35% non-GAAP operating margin and over $900 million of operating cash flow. I am pleased that we can follow-up on 2020 with a strong outlook for 2021," said John Wall, senior vice president and chief financial officer.

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In a year of recession, Lantek closes 2020 with record sales figures and customer numbers
25 February 2021

In a year marked by the impact of COVID-19, which triggered harsh restrictive measures that slowed and paralyzed activity in the metal industry, Lantek has achieved record revenue. In 2020, sales reached 21.3 million euros, slightly higher than the previous year.

The company also achieved a record number of active users. In 2020, the company gained 2,247 new customers, bringing the total to 25,747 distributed across more than a hundred countries.

As a result, the Spanish multinational, leader in software development and Digital Factory solutions and pioneer in the digital transformation of the metal and sheet metal sector, has consolidated its leadership in the international market.

Lantek USA achieved nearly 9% growth in revenue in 2020. Over half of new U.S. customer revenue was from Smart Factory solutions (MES & ERP). More than 150% revenue growth was realized through their Distributor/OEM channels, compared to 2019.

The efforts of more than 220 Lantek employees worldwide in adapting to the new context, and the confidence of customers have both contributed to the increase in revenues at the end of the year, showing a **clear upward trend for 2021**.

During the toughest quarter of the year, with confinement measures affecting many of its international offices, the company suffered a contraction in sales of -10.4%, only to rebound as measures eased and sales returned to pre-pandemic levels. In the last quarter, Lantek achieved a 6% increase in revenue. In December 2020, the company billed 2.1 million euros, an increase of 9.9% compared to December 2019, a very positive year-end.

The company also achieved a record number of active users. In 2020, the company gained 2,247 new customers, bringing the total to 25,747 distributed across more than a hundred countries.

The overseas market continues to increase its significant share of global sales and now accounts for 88% of revenues. By region, the impact of the pandemic was felt more in Europe, where the mobility restrictions imposed by governments have been more severe. As a result, Europe is slowing down its progress. However, in recent months Western Europe has regained some traction with increases of over 10% in Turkey and close to 10% growth in Italy, one of the countries most impacted by COVID-19.

Other continents are showing robust growth, such as Asia, with South Korea growing by more than 25% and China by nearly 20%; and the Americas, where the USA is up about 9% after winning new customers with major solutions and projects.

"We've closed a really complex year, but we've been able to adapt, respond and mitigate it. Our activity has not stopped, and productivity has increased. Already in the last part of the year our strong order book and maintenance contracts have helped us decisively recover lost ground and end 2020 with a

turnover above that of 2019. The figures demonstrate our collective effort to recover from this shock, both on the part of employees and partners, and our great ability to adapt to changing and uncertain environments to continue assisting our customers on their path to digital transformation," says Alberto Lopez de Biñaspre, CEO of Lantek.

2021 Outlook

The second half of last year marked a turning point, with Lantek resuming its upward trend between October and December. The growth includes the addition of more professionals into the technical teams of Lantek's MES, CAD/CAM and Cloud solutions areas. "We start this new year prepared and confident. Our teams are ready to take on the challenge, to continue to grow and implement the solutions that the industry needs," says Lantek's CEO.

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Tecsys Reports Financial Results for the Third Quarter of Fiscal 2021

24 February 2021

Tecsys Inc., an industry-leading supply chain management SaaS company, announced its results for the third quarter of fiscal year 2021, ended January 31, 2021. All dollar amounts are expressed in Canadian currency and are prepared in accordance with International Financial Reporting Standards (IFRS).

Third Quarter Highlights:

- SaaS revenue increased by 89% to $4.7 million in Q3 2021, up from $2.5 million in Q3 2020.

- Cloud, maintenance and subscription revenue increased 26% year-over-year to $13.4 million in Q3 2021, up from $10.6 million in Q3 2020. The performance was primarily driven by SaaS.

- Annual Recurring Revenue (ARR[i]) at January 31, 2021 was up 20% to $50.8 million compared to $42.5 million at January 31, 2020 and up 3% sequentially from October 31, 2020 on a constant currency basis.

- During Q3 2021, SaaS subscription bookings[i] (measured on an ARR[i] basis) were $1.0 million, down 49% compared to $2.0 million in the third quarter of 2020, while YTD bookings were up 29% compared to last year.

- Professional services revenue was up 24% to $12.3 million in Q3 2021 compared to $9.9 million in Q3 2020. Professional services bookings[i] were down 19% to $10.5 million in the third quarter of fiscal 2021 compared to $12.9 million in the same period last year, while YTD bookings were up 20% compared to last year.

- Total revenue was a record $31.9 million, 19% higher than $26.8 million reported for Q3 2020.

- Gross margin was 48% compared to 48% in the prior year quarter. Total gross profit increased to $15.4 million, up 20% from $12.8 million in Q3 2020.

- Operating expenses increased to $12.8 million, higher by $1.3 million or 12% compared to $11.4 million in Q3 fiscal 2020 with continuing investment in sales and marketing as well as research and development.

- Profit from operations in Q3 2021 was $2.6 million, up 89% from $1.4 million in Q3 2020.

- Net profit was $1.8 million or $0.12 per share on a fully diluted basis in Q3 2021 compared to a net profit of $0.8 million or $0.06 per share for the same period in fiscal 2020.

- Adjusted EBITDA[ii] was $4.0 million in Q3 2021, up 50% compared to $2.6 million reported in Q3 2020.

"Our performance for the third quarter of fiscal 2021 continues to reflect momentum in the market for Tecsys solutions," said Peter Brereton, president and CEO of Tecsys Inc. "This is our eighth straight quarter reporting record revenue. The second major COVID wave delayed some deals into our fourth quarter resulting in a significant new business pipeline for the last quarter of our fiscal year. As that wave subsides, these deals are coming in. We were delighted to sign six new accounts in the quarter, three of which were major accounts that signed small initial orders with some significant growth to come. Our developing partner ecosystem continues to have a solid impact on our pipeline and deal flow."

Mark Bentler, chief financial officer of Tecsys Inc., added, "We expect to see our SaaS revenue continue on its growth trend and we expect this to come from both expansion and migrations of our base customers as well as from new customer wins. With regard to new customer wins, we are pleased with the addition of two new hospital networks during the quarter."

Year-to-date performance for first nine months of fiscal 2021 ended January 31, 2021

Highlights:

- SaaS revenue for the nine-month period increased 116% to $13.7 million, up from $6.3 million in the first nine months of fiscal 2020.

- Cloud, maintenance and subscription revenue increased 28% year-over-year to $39.0 million in the first nine months of fiscal 2021, up from $30.4 million in the prior year, driven primarily by SaaS revenue.

- SaaS subscription bookings[i] increased 29% to $6.1 million in the first nine months of fiscal 2021 compared to $4.7 million in the prior year period.

- Professional services revenue was up 18% to $35.3 million in the first nine months of fiscal 2021 compared to $29.8 million in the prior year period. Professional services bookings were up 20% to $36.1 million in the first nine months of fiscal 2021 compared to $30.0 million in the same period last year.

- Revenue for the first nine months of fiscal 2021 was $90.7 million, up 18% from $77.1 million reported in the previous fiscal year period.

- Total gross profit increased to $44.9 million, up $7.5 million or 20% in the first nine months of fiscal 2021 compared to $37.4 million in the same prior year period.

- Total gross profit margin remained flat at 49% compared to the first nine months of fiscal 2020.

- Net profit for the first nine months of fiscal 2021 was $5.2 million, or $0.35 per diluted share, compared to a profit $2.0 million or $0.15 per share, for the same period in fiscal 2020.

- Adjusted EBITDA[ii] for the first nine months of fiscal 2021 was $12.3 million, up 48% compared to $8.3 million reported for the same period in fiscal 2020.

On February 24, 2021, the Company declared a quarterly dividend of $0.065 per share payable on April 8, 2021 to shareholders of record at the close of business on March 18, 2021.

Third Quarter Fiscal 2021 Results Conference Call

Date: February 25, 2021

Time: 8:30am EST

Phone number: (800) 698-1231 or (416) 981-0147

The call can be replayed until March 4, 2021 by calling:
(800) 558-5253 or (416) 626-4100 (access code: 21991616)

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Implementation Investments

Capgemini supports GEFCO in its public cloud migration strategy and infrastructure modernization
24 February 2021

GEFCO, a global expert in supply chain solutions and leading provider of automotive logistics in Europe, has renewed its contract with Capgemini incorporating a new project dedicated to its infrastructure modernization. The multi-cloud approach will increase operational efficiency and agility, reduce technical obsolescence and optimize the cost of recurring services.

Thanks to its deep expertise and GEFCO's long term trust in its infrastructure management, since 2013, Capgemini has been able to modernize GEFCO's Information Systems across the globe. Looking ahead, in addition to the integration of new services, the infrastructure's transformation into a public multi-cloud approach will provide GEFCO with greater flexibility and the ability to optimize its resource consumption. In these turbulent times with strong variations in business activity, the possibility to adjust the resources allocated in the cloud is crucial. Capgemini will also help to transform the GEFCO IT department's operating model, with a digital workstation management service for 8,500 users, including a new "service desk" featuring a chat bot and automated AI features.

"*GEFCO is taking an important step in its transformation process; the modernization of our information system is key for our employees and our customers. We are delighted to strengthen our partnership with the Capgemini teams who are working alongside us to make our IT systems more robust,*" said Sophie Baudoux, Information Systems Executive Vice President at GEFCO.

"*Capgemini has been supporting GEFCO in its digital projects since 2013. We are very pleased that GEFCO is confirming its confidence in the team with this new contract. Our expertise and know-how, reinforced by the contribution of our Cloud Center of Excellence and the support of our key partners in the public cloud, have enabled us to stand out from the crowd and provide GEFCO with the trusted digital services to continue its transformation journey,*" said Olivier Tarrit, Executive Director of Cloud Infrastructure Services at Capgemini in France.

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Gymshark Stays Ahead of the Competition with Centric PLM
22 February 2021

Leading UK fitness apparel and accessories brand Gymshark successfully implemented Centric Software®'s Product Lifestyle Management (PLM) system 100% remotely during a national lockdown. Centric Software provides the most innovative enterprise solutions to plan, design, develop, source and sell products such as apparel, footwear, sporting goods, furniture, home décor, cosmetics, food & beverage and luxury to achieve strategic and operational digital transformation goals.

Founded in Birmingham in 2012 by then-teenager Ben Francis and a group of his high-school friends, Gymshark has developed from a small screen-printing operation, to one of the fastest-growing and most recognisable brands in fitness. Selling directly to customers via 15 international online stores, the company currently has over 4 million customers in over 180 countries, and its social media content reaches an audience of over 12.5M.

Named the UK's fastest growing company 2016 in The Sunday Times Fast Track 100, Gymshark's product team scaled up massively from 44 to 125 people across the UK, Hong Kong and Mauritius in just two years. As such, the company began to struggle with managing complex product data, and was at risk of delays and errors due to multiple working documents being used simultaneously across teams.

Gymshark started its Global Analysis with Centric Software in January 2020, with the UK then going into lockdown in March just as PLM workshops had commenced. Consequently, all training, testing and implementation of Phase 1 working was 100% remote.

Justine McCarthy, Development Director at Gymshark comments on how PLM technology helps the business to react to marketplace challenges, "If we enter into another lockdown, and need to work remotely – our PLM will definitely facilitate the ease in which we share information. In this early stage, we are seeing huge benefits in our Materials process, with an estimated 30% increase in productivity. Admin and communication between teams is seamless, and human error has been greatly reduced. We are able to create more accurate Tech Packs, in a much more efficient way."

Gymshark's Head of Development and Primary Superuser, Annalisa Savio, reflects on how her teams found 'comfort' out of PLM in pandemic times.

"They all found it useful to work on the same platform while working from home," she says. "Our first 'Go Live' was in May 2020, in line with our Critical Path. It was tight, and we never expected to be able to do all of this remotely – but the huge commitment and motivation from the whole team made it happen. The thought of another season with multiple Excel docs was just too painful!"

According to Justine, what set Centric apart from other vendors was its "real understanding of Gymshark's business challenges, its sensible best practice solutions and its support at every step."

Annalisa also explains how Centric's 'out of the box' features provided Gymshark with an excellent foundation to build from, with the exciting prospect of combining the ambition of a young business with the depth of experience that Centric could offer.

"We are very successful, yet still only 10 years old. We felt being able to lean on the experience of Centric would set our young company on a better path."

"We are delighted to be supporting Gymshark with its digital transformation goals," comments Chris Groves, President and CEO of Centric Software. "The partnership has already achieved remarkable results and we are excited to continue this exciting journey with such a dynamic, innovative company."

L&T TECHNOLOGY SERVICES SELECTED BY AIRBUS FOR SKYWISE PARTNER PROGRAMME

25 February 2021

L&T Technology Services, a leading global pure-play engineering services company, announced that it has been selected by Airbus to provide technology and digital engineering solutions for Airbus' Skywise platform as part of the 'Skywise Partner Programme'.

With more than 130 airlines around the world already connected to Skywise, the platform is playing a very important part in enabling and accelerating digital transformation of the aviation sector as a whole. LTTS will support the airlines in the development of complex workflows, creation of new interfaces between their existing information systems and Skywise and also provide assistance in their digital transformation with Skywise.

LTTS has a set of highly experienced engineers and data scientists who will work exclusively on the Skywise platform and build solutions to address the digital transformation needs of airlines and the fast-expanding Skywise ecosystem. LTTS' demonstrated experiencein building digital engineering platforms based on strong domain knowledge help strengthen the interdependencies these digital technologies are enabling.

Abhishek Sinha, Chief Operating Officer and Member of the Board,L&T Technology Services commented, "Airbus is one of our valued customers in the aerospace domain, a sector which offers tremendous potential for disruptive business opportunities. We are delighted to be selected as a partner for Airbus Skywise programme, a true reflection of our long-standing partnership with an important market leader like Airbus and our deep understanding of Airbus' product development and customer needs".

LTTS has a track record of serving the aerospace landscape for over a decade, helping airlines and aerospace manufacturers maximize their Return on Investments (RoI) and increase quality and output. Having forged strategic alliances with several Fortune 500 companies, LTTS has the strong technical knowledge, aerospace engineering expertise and skilled resources to drive innovation for aerospace and defense customers across the globe.

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Levoni Group Chooses Infor for Digital Transformation

24 February 2021

Infor announced that Gruppo Levoni, a historic Italian company specializing in cured meats production, has chosen to implement Infor CloudSuite Food & Beverage, an enterprise software solution designed specifically for the food sector. The Infor solution based on Infor M3 enterprise resource planning and Infor OS operating system will help create a digital transformation path for Levoni. The project will be entirely managed by Infor Gold partner Atlantic Technologies.

Founded in 1911, Levoni is synonymous with high-quality cured meats. Quality comes from selected Italian raw materials and craftsmanship that is perfectly integrated with the guarantees and safety standards of industrial systems. Levoni distributes its 100% Italian products to more than 10,000 delicatessens in Italy and to 50 countries around the world. With 700 employees, Levoni is a group now in its fourth generation that has made excellence a distinctive character.

The strong evolution and competitiveness of the market and the need to satisfy consumers who are increasingly attentive to quality, transparency and sustainability, accentuated even more by the pandemic, have led Levoni to digitize production processes, responding to the new habits of buyers and new consumer trends, while ensuring a high level of efficiency.

Following a careful evaluation of the solutions available on the market, Levoni found Infor CloudSuite Food & Beverage the ideal platform to manage the complex processes of the food industry and respond to the needs of the group. Infor CloudSuite Food & Beverage is based on Infor M3, an international ERP

system with industry-specific capabilities and predefined best practices to achieve results faster. The solution allows users to more accurately plan for demand and respond faster to changing demand throughout a global supply chain and in the factory. It provides operational excellence functions designed for the food and beverage industry, supporting the ever-increasing transparency, traceability, food safety and waste reduction requirements. Thanks to the solution, Levoni will be able to manage both the slaughterhouse and the cured meat production, which are very different processes, with a single tool that provides full traceability from farm to fork.

According to Levoni, the Infor Implementation Accelerator for Food & Beverage makes the solution unique by offering predefined and preconfigured processes based on high-value international experiences in the food and beverage industry. Infor Implementation Accelerator will allow Levoni to create new processes and modify existing ones, starting from worldwide proven industry best practices, providing the agility to respond immediately to the increasingly frequent changes in the market.

The implementation will allow Levoni to embrace the logic of an integrated ecosystem connected with employees, suppliers and collaborators, capable of managing the various aspects of demand from an increasingly aware and demanding consumer. Thanks to the technology roadmap drawn by Atlantic Technologies, Levoni has laid out the foundations for effective process management and systems integration aimed at creating synergy between the different areas and insights of value for its business. The solution will be used by about 230 users, distributed between the Italian and American offices, and will allow the company to rely on a single system to manage all the group's activities and provide a holistic view of the business.

The implementation of the new ERP solution represents the first step in the transformation of the group's application landscape. In the future, the analysis of the various integrations with the production lines of the group sites and the specific issues of the new product development process are planned, as well as the choice of an enterprise asset management solution that meets the business needs.

"We believe the Infor M3 solution with the Implementation Accelerator for Food & Beverage will allow us to achieve our project goals. The choice of an enterprise solution will allow us to manage all the companies of the group with the same tool, and with the Implementation Accelerator, we will approach the analysis phase of the project starting from the best practices relating to the processes of our sector, and not from the typical 'blank sheet,' with the specific aim of maintaining the solution as standard as possible," stated Roberto Pigni, Levoni Group's information systems director.

"The Infor OS platform seemed to us a very powerful tool that will allow us to manage both the interfaces with other business applications and the automation of business processes. We also greatly appreciate the expandability of the Infor M3 application ecosystem, which contains product lifecycle management (PLM) capabilities dedicated to the food sector and a solution for enterprise asset management," concludes Pigni.

"Supporting a prestigious company such as Levoni, which represents 'Made in Italy' internationally, is a source of great pride for us," said Bruno Pagani, Infor sales director for Italy. "The food and beverage sector must adapt more and more to rapid changes in demand, and to respond to new customer requests, flexibility, agility, high safety and compliance with regulations are required. I am sure that our specific technology for the meat processing sector together with the great expertise of Atlantic Technologies will accelerate the innovation process of the Levoni Group, supporting its growth."

"We are very proud to collaborate with Levoni and lead its innovation process," declared Angela Colucci, Atlantic Technologies' business development director. "Atlantic has a consolidated experience with companies in the food sector all over the world, helping them to keep up with the evolution of

demand and to satisfy the demands of a consumer increasingly attentive to the authenticity of the product. Thanks to the innovative technology of Infor and the specialized consultancy of Atlantic Technologies, Levoni will be able to manage the complex challenges of the sector and ensure profitability and resilience."

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Northwell Health Uses Oracle Cloud to Help Manage COVID-19 Healthcare Crisis and Onboard 700 Temporary Workers

23 February 2021

Oracle announced that Northwell Health, one of the largest health systems in New York, turned to Oracle Analytics Cloud, built on the highly secure, scalable Oracle Cloud Infrastructure, and Oracle Autonomous Data Warehouse to optimize patient care during the COVID-19 pandemic. With Oracle, Northwell Health is able to monitor available nursing resources, predict upcoming staffing needs and accommodate a continually shifting patient load.

Northwell Health operates 23 hospitals with a combined 74,000 employees across New York and treats millions of patients annually. In the fight against COVID-19, every minute counts and having quick access to astronomical amounts of data combined with powerful analytics to enable visibility into rapidly changing patient loads and staffing requirements has given Northwell Health the necessary speed to optimize patient care. In order to not be overburdened with an influx of infected patients, Northwell Health quickly consolidates disparate data sources from Oracle and non-Oracle applications to automate fundamental administrative processes and prepare the organization for a possible future resurgence of COVID-19 cases.

"We realized we needed a better way to calculate staffing needs and manage our search for staff so we could maximize patient safety," said Elina Petrillo, Assistant Vice President, HR Technology, Northwell Health. "We were able to quickly—in less than a month—create an analytics dashboard with Oracle Analytics Cloud. Our dashboard for staffing is an actionable dashboard providing automated insight into our staffing picture during times of crisis and beyond. With a real-time-staffing dashboard we were able to more efficiently deploy over 700 agency nurses to sites where they are most needed."

"We're proud to be supporting Northwell Health in the fight against COVID-19," said T.K. Anand, Senior Vice President, Oracle Analytics. "Being able to quickly extract critical insights from your data, especially for organizations on the frontlines, is paramount— you can't be worried about stitching together spreadsheets when lives are at stake. Having a single platform with accessible and dependable augmented analytics means Northwell doesn't have to do manual data integration or jump between applications, increasing productivity across the board, especially for clinical staff delivering patient care."

Northwell Health also had the foresight to jump straight to Oracle Cloud HCM, rolling out payroll, core HR, benefits, recruitment, compensation, talent management, learning and helpdesk modules to enable one system of truth for Northwell's HR leaders. Now more than ever, the automation and ability to collaborate across hospitals has helped Northwell better connect and serve its workforce. Centralizing data into a unified platform has not only created immense value for HR, nursing leadership, and front-line managers but also helped Northwell's internal agency manage agency nurses and control spending.

Before implementing Oracle Analytics Cloud, Northwell Health's data was decentralized and managed by individual hospitals. Analysts used spreadsheets to crunch data and help administrators understand

staffing shortages at each hospital and unit. Using Oracle Analytics Cloud and Oracle Autonomous Data Warehouse, Northwell is able to automate the process of pulling data from their scheduling platform and marry staffing scheduling data with data about the number of patients at their hospitals. Through an HR dashboard, chief nursing officers and HR leaders can stay up to date on patient inflows, recruitment and resource requirements, and clinical leaders can use the data to deploy additional staff for optimized patient care.

To further increase their productivity levels, Northwell Health also uses Oracle's mobile capabilities to extend secure access to employees via their smart phones and tablets. This is especially important to help ensure that additional critical care nurses and respiratory therapists are available and on the floor for each shift as planned.

Northwell Health selected Oracle in FY18Q3.

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responsAbility Renewable Energy Holding (rAREH) Commences Digital Transformation Journey
23 February 2021

Infor announced that Africa-focused responsAbility Renewable Energy Holding (rAREH) has begun its digital transformation journey with Infor Gold partner TouchstoneEnergy. rAREH has selected Infor SunSystems Financial Management Systems as its replacement accounting system to support the continuing growth of its business in Sub-Saharan Africa.

rAREH invests in developing, constructing and operating renewable energy infrastructure across Sub-Saharan Africa, with a particular focus in the development phase. The company's mandate is to invest in all forms of renewable energy sources (wind, solar, biomass, hydro and geothermal) and currently has a portfolio of 41.4 megawatts (MW) under operation, 28.8 MW under construction and 398 MW under development across 11 countries.

TouchstoneEnergy's focus is on the energy sector, and was chosen to supply Infor SunSystems FMS above a selection of competing systems that rAREH evaluated. Infor SunSystems will replace the existing QuickBooks accounting software as this project gains momentum.

Key to rAREH's decision was the future scale and investment Infor has committed to development of its ERP software.

"Our business has grown significantly over the past three years, with more and more projects transitioning to construction and operations in different parts of Sub-Saharan Africa," comments Solomon Njonjo, responsAbility Renewable Energy Holding's finance director. "This growth creates a necessity to have robust reporting and analysis systems for the company and other business stakeholders. The implementation of Infor's financial management system will resolve multiple business challenges, including reporting compliances required for different countries and accounting jurisdictions. The need for strong multi-currency, multi-dimensional reporting and analysis is business critical to our success."

Njonjo says the new system, along with its ability to scale to include Infor EAM (Enterprise Asset Management) and Infor d/EPM (Dynamic Enterprise Performance Management) will enable rAREH to efficiently and effectively maintain and grow its infrastructure portfolio, and also accurately report across the entire business, enabling the company to better understand its financial commitments.

rAREH chose to partner with TouchstoneEnergy because it was able to demonstrate both its deep

knowledge of the industry and its experience with implementations in Kenya, Nigeria, Gabon and other African nations.

As part of the digital transformation journey, rAREH will see the expanded use of Infor products within Touchstone's own cloud environment. This will provide a stable environment and overcome many of the challenges faced in Africa with instability of a continuous power supply.

Infor EAM will feature in Phase II of this implementation project, and will enable execution of purchase orders, work orders, routine and reactive plant maintenance. Using Infor EAM's mobile applications will also enable field service staff to remain connected with their operational office while they are on field locations.

 "After a full and engaging evaluation process, we are delighted to have been chosen by responsAbility RE as their preferred solution partner," comments Peter Davis, head of TouchstoneEnergy's business unit. "This is an important project for both organisations, and we are excited about getting started. We believe this is the beginning of a long-term partnership as rAREH invests in systems that will meet and exceed its business growth and support the energy demands of African nations."

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Walkinshaw Andretti United Partners with Proven 3D Printing Technology Ready for 2021 Supercar Championship

25 February 2021

From the Sandown 500 and Bathurst 1000 to the Supercars Championship, the Walkinshaw Andretti United (WAU) Racing team has stood on the podium every season since their debut, the team continues to seek ways to improve both on-track and off-track. And it is with such determination to excel, that today, Walkinshaw Andretti United, together with TCL Hofmann and Stratasys Ltd., jointly announced a partnership agreement to bring the latest 3D printing solution and all the benefits of the cutting-edge technology into the WAU racing team for the 2021 Supercar Championship Season.

The WAU team will leverage Stratasys FDM Printers to produce prototypes of customized parts on the Supercars, as well as tooling and fixtures for production within the Walkinshaw Group who are a global leader in the design, engineering, development, and marketing of performance vehicles, and has significant motor sport interests in Australia and the UK. The systems are installed at the Walkinshaw Group facility at Clayton, Victoria. Stratasys and TCL Hofmann also support the team with regular training and technical support services.

"To be partnering with TCL Hofmann and Stratasys to advance our manufacturing process is an extremely exciting opportunity for Walkinshaw Andretti United," said Walkinshaw Andretti United Team Principal, Bruce Stewart.

"3D printing technology is essential in the way we build and manufacture development parts for both our Supercars, so to have the opportunity to do it with undoubtedly the best available puts us in a fantastic position for the 2021 Supercars Championship," Stewart added.

"Supercars is a highly competitive industry where precision matters, we are chasing milliseconds over the course of a race weekend, so our entire team is excited to have the right tools at hand to be able to chase the ultimate glory."

A global leader and founder of the FDM 3D printing technology, Stratasys brings over 30 years of knowledge in additive manufacturing or 3D printing technology and the company's technologies are

used to create prototypes, manufacturing tools, and production parts across industries including aerospace, automotive, healthcare, consumer products and education.

TCL Hofmann joined the Stratasys channel network since 2019 and has supplied leading-edge technologies to manufacturing companies and organizations, helping them upscale businesses and optimize results. With strong teams in Melbourne and Sydney, and sister company TCL Hunt in New Zealand's major cities, TCL Hofmann's success has developed from the broad supply of quality products to a range of industry through to the highest levels of service and advisory, pre and post-sale support and servicing.

"The best for the best, we are excited for this partnership and look forward to seeing the WAU team reap the benefits of 3D printing to push more limits," said Joseph Hancock, TCL Hofmann Managing Director. "And of course, we are a phone call away as time is of essence especially in the racing industry."

"We understand the fierce competition and that every second counts in auto racing," said Ben Darling, Stratasys Senior Territory Manager of Australia and New Zealand Region. "And that is why Stratasys invested in over 1,000 hours testing key build attributes of the printer, so that our customers can get it right first time and every time."

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Product News

Chaos Launches New Free 3D Content Collection for Architects and Designers
23 February 2021

Chaos (formerly Chaos Group) launches Chaos Cosmos, a new 3D content system that reduces the process of staging interiors and environments to a few clicks. Highly curated, the library launches with over 650 free models and HDRIs that will address the most common use cases found in architecture and design, including furniture, trees, cars and people. Architects and designers can now test ideas more freely as they cycle between real-time visualization and photorealistic rendering.

"Unlike other content, Cosmos assets are designed to work across the Chaos ecosystem, giving users a central way to add context and realism to any 3D visualization," said Phillip Miller, VP of product management at Chaos. "For years, we've been working to connect our tools so visualization feels accessible at every stage of the design process. Now, that same interconnected system has render-ready assets on tap, making it even easier to bring rich details to a project, whether you're working through initial concepts or finalizing the big reveal."

Cosmos assets can be found online or via a new button within V-Ray 5 for Revit, 3ds Max, SketchUp and Rhino. They are also optimized for Chaos' real-time tools including Chaos Vantage and V-Ray Vision, so users can quickly assess scenes with high-quality entourage. Because of these optimizations, the assets naturally adapt to any tool they are in, increasing viewport speed without the need for setup.

The initial batch of essential assets will always be free and were created with the help of industry-leading content creators like:

- Design Connected – A leading provider of furniture and accessories for interior design
- Hum3D – An expert vehicle maker

- Maxtree – Famous for their plants, trees, vegetation and foliage

- NoEmotion – Creator of high-quality HDR skies and environments

- Renderpeople – The world's largest library of scanned 3D people

- VIZPARK – High-quality trees and plants

Chaos Cosmos will continue to grow, incorporating a mix of Chaos and partner-driven assets to give architects and designers everything they need to quickly shape a design. Cosmos support is also planned for other V-Ray integrations, to be announced in the coming months.

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Computer Guidance Corporation Releases eCMS v.4.2 Construction Cloud ERP

23 February 2021

Computer Guidance Corporation, a leading developer of cloud-based ERP solutions for the construction industry, announced today the release of eCMS v.4.2.

The latest generation of eCMS builds upon a solid foundation of decades of construction-specific enterprise resource planning software that has already revolutionized the productivity and efficiency of contractors across the industry. eCMS v.4.2 will continue to deliver a robust, single-database solution that leverages cloud-based scalability and flexibility to meet unique contractor and customer needs alike. Now, eCMS v.4.2 brings to market the most advanced UI technology available along with integrated applications, dynamic data mining and reporting, true mobility and content management capabilities to seamlessly connect the field and office around every project, timeline, budget and customer need.

Built upon the already powerful and reliable eCMS platform, eCMS v.4.2 highlights include:

- Refreshed, intuitive user interface

- Enhanced financial reporting

- Cutting-edge business intelligence and analytics

- Data-enabled searching

- Expanded mobility

- New eCMS Field browser-agnostic and device-independent user platform

- Advanced Payroll and HR functions

"With the release of eCMS v.4.2, we continue on our mission to be the premier provider of construction-specific ERP solutions and services, adapting swiftly to meet the needs and challenges of our contractors and their customers," said Michael Bihlmeier, President, Computer Guidance Corporation. "eCMS v.4.2 will deliver integrated data directly and immediately into the hands of all key stakeholders so they can proactively act, make fact-based decisions, and forecast future outcomes. Our ability to automate, streamline and standardize construction business processes means that every keystroke, screen tap or click is focused on the contractor's business, not on software."

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Optimo Medical AG and Ansys Transform Eye Surgery to Better Treat Astigmatism

23 February 2021

To perform patient-specific eye surgery planning, dramatically improve vision and treat astigmatism, Optimo Medical AG and Ansys are incorporating high-fidelity structural simulations with cutting-edge digital twin technology into next-generation surgery preparation. Delivering a solution that powers surgical precision to maximize patient outcomes, the collaboration also drives in silico clinical trials of new eye products — significantly reducing development time and cost.

Providing care for 15 million low-cylinder astigmatism patients each year has traditionally forced ophthalmologists to plan eye surgeries with largely run-of-the-mill statistical models. This has often caused suboptimal incision placement and imperfections in patient vision correction, requiring multiple operations to solve issues. By integrating Ansys® Mechanical™ with Optimo Medical AG's Optimeyes™ digital twin technology, ophthalmologists are creating identical digital copies of patient corneas to test surgical strategies for individual patients that substantially improve results.

"Before I started using Optimeyes, like all ophthalmologists, I was forced to work with one-size-fits-all statistical models, which frequently lead to overcorrections. With Optimeyes, I'm now able to work on a patient-specific approach," said Dr. Johan Blanckaert, ophthalmologist at Oculus Clinic. "Since then, I deliver superior results, which means a spectacle-free life for my patients. Hence, I consider the usage of Optimeyes in surgery planning to be a real game changer within the industry."

Integrating Mechanical with Optimeyes empowers ophthalmologists to perform virtual keratotomy astigmatism surgeries for enhancing individual patients' incision parameters. Additionally, it equips surgeons with a state-of-the-art planning tool for addressing low-cylinder astigmatisms during cataract surgeries and predicting operation outcomes. Optimeyes also facilitates in silico clinical trials based on Mechanical — enabling engineers to simulate new products, identify design flaws and save millions of dollars in development costs."

"In eye surgery, microns make the difference between a successful operation and disappointing results. Optimeyes uses Mechanical to guide eye surgery treatment planning, simulate the effects of physical interferences and enhance patient outcomes," said Harald Studer, CEO, Optimo Medical AG. "Together with Ansys, we are paving the way towards large-scale adoption of engineering simulation within the eye care industry and swiftly treating astigmatism for millions of patients worldwide."

"As the ophthalmology community exploits simulation to deliver personalized treatment, it is crucial to provide clinicians with simplified tools that speak their language," said Prith Banerjee, chief technology officer, Ansys. "Integrating Optimeyes with Mechanical delivers a next-gen solution for ophthalmologists to effectively battle cataracts and low-cylinder astigmatism. This enables first-time right surgeries, helping those suffering from vision impairment to regain a higher quality of life faster than ever."

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Release Announcement of CADfeature 16.0 M2

25 February 2021

Elysium has released CADfeature 16.0 M2.

Key Enhancement

Support New CAD Version

CAD	Versions added in 16.0 M2	Supported Versions
NX	NX 1953 Series	NX 12 – NX 1953 Series

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Samsung Foundry Certifies Synopsys IC Validator for 5nm and 4nm Advanced Process Technologies

22 February 2021

Synopsys, Inc. announced that its IC Validator physical verification solution has been certified by Samsung Foundry for its most advanced 5-nanometer (nm) and 4nm process technologies. IC Validator, an integral part of the Synopsys Fusion Design Platform™ and Custom Design Platform™, has enabled multiple customers to achieve successful chip tapeouts for graphics, augmented virtual reality, automotive and high-performance computing applications.

As customers target designs at 5nm and below technology nodes, the physical verification complexity drastically increases, including tens of thousands of design rules and hundreds of thousands of operations. IC Validator accelerates the physical verification closure, drastically increasing productivity with the highest accuracy on Samsung advanced process nodes.

"As the design complexity increases at the lower process nodes, we are resolved to support our customers' needs with innovative technologies for advanced chip designs. Synopsys IC Validator provides a best-in-class, differentiated solution that is certified on our production-ready, 5nm and 4nm technologies," said Jongwook Kye, vice president of Design Enablement Team at Samsung Foundry. "IC Validator's innovative capabilities and predictive results, combined with Samsung Foundry's advanced process technology, enable our mutual customers to achieve silicon success for their most demanding next-generation applications."

As a key part of both the Synopsys Fusion Design Platform and Custom Design Platform, IC Validator offers designs teams a comprehensive physical verification solution that includes fast DRC checking, programmable electrical rule checks, dummy metal fill, and design-for-manufacturability enhancement capabilities and signoff accurate StarRC™ integration to accelerate convergence. IC Validator's live DRC technology provides on-demand verification for immediate DRC feedback in Synopsys' Custom Design Platform.

"Leading-edge customers have already deployed Synopsys IC Validator to gain a competitive edge, achieve a faster physical signoff and deliver repeated successes for their products," said Raja Tabet,

senior vice president of Engineering, Custom Physical Group at Synopsys. "All designers can now rapidly and confidently adopt Samsung Foundry's 5nm and 4nm processes and use the innovative technologies in Synopsys IC Validator to gain time-to-results advantages and design the most differentiated products."

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