PLM Weekly Summary

Editor: CIMdata News Team

17 April 2020

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CIMdata News

CIMdata Announces a Successful 2020 PLM Market & Industry Forum Series

15 April 2020

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces the successful completion of its 2020 PLM Market & Industry Forum—a series of five global events. For 2020 the Forums were held in March and April as a series of virtual events. Over 430 people registered, representing 120 companies. Virtual sessions were held for the PLM community in North America, EMEA, India, China, and Japan.

CIMdata's PLM Market & Industry Forums represent the world's premier event for software and service providers focused on the PLM market and the issues concerning its development and growth. Participants gathered on-line to hear CIMdata's perspective on the state and trends of the PLM market, as well as a detailed discussion of CIMdata's research and viewpoints on the 2019 PLM market results. CIMdata's extensive analysis and forecasts regarding market growth across PLM domains, industries, and regions, and the performance (revenue and market share analysis) of leading PLM software and service providers were shared. The theme for 2020 was "Products, Smartly Connected."

In addition to the state of the industry, trends, and the market numbers, the program included presentations on:

Synching Siloed Development

xBOM Management Across the Lifecycle

Closed-Loop Product Development

Multiple View Bill of Materials Solution Evaluation Benchmarks

Agile Methodologies & PLM

Closing the Smart, Connected Lifecycle Loop with IoT

Commenting on the PLM market, Stan Przybylinski, CIMdata's Vice President, stated that, "The PLM market, as measured by CIMdata, grew by 7.6% in the calendar year 2019, slightly below our forecast of 8.9%. Growth was experienced in all of the segments reviewed by CIMdata. Autodesk's significant year-on-year revenue increase due to their license model transition drove well-above-average growth in the architecture, engineering, and construction (AEC) segments. Computer-aided manufacturing (CAM), which most years grows in the 5-7% range, came in at 4.5%. Simulation & Analysis had another solid year, with 9.5% growth for the year. Smart connected products and the move to address Industry 4.0 drove above-forecasted growth in the software development tools at 11.2%. Digital transformation is closely related to Industry 4.0 and is spreading across multiple industries. The Digital Manufacturing segment had another strong year, with growth estimated at 8.6%. While we think that the growth drivers

for the PLM Economy suggest the market has room to run, the COVID-19 pandemic has put the global economy in a deep freeze. CIMdata reduced our forecast for 2020 and the succeeding years for the Forum series. Still, the situation is fluid, and CIMdata will be revisiting these low growth estimates in the coming week. On the plus side, CIMdata believes that the on-going COVID-19 pandemic will drive future investments in smart manufacturing to make onshoring more economically viable. The crisis has also forced increased reliance on virtual collaboration, another trend that can have positive impacts in the PLM market."

The PLM Market & Industry Forums provide the first look at CIMdata's PLM market estimates. The full analysis will be released in the CIMdata PLM Market Analysis Report Series. For more information, please see www.CIMdata.com.

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CIMdata Announces New PLM Leadership Course

16 April 2020

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that it has added a new Virtual-Live Certificate Program to its world-class PLM Leadership education and training offerings. The first virtual-live classes will take place during the week of June 15-19 with offerings for attendees in the North American and European time zones.

The new "PLM Core Virtual-Live" PLM Certificate Program has been created to provide a way for the broader PLM community to experience CIMdata's world-class PLM education program without leaving the home, office, or plant. The PLM Core Virtual-Live PLM Certificate Program comprises two modules. The first module is a self-paced e-learning module, PLM Basics. This module is a three-part online e-learning educational program. The second module, PLM Core Concepts, is comprised of five half-day virtual-live sessions that take place over five consecutive workdays. The successful completion of the course and their associated assessments leads to a Core Certificate of PLM Leadership.

Commenting on the addition of this new program to the CIMdata PLM Leadership education and training offerings, CIMdata's president and CEO, Peter Bilello, said that, "It has long been CIMdata's desire to expand our education and training offerings to a virtual-live platform. This new program will make PLM education and training available to a wider group of PLM professionals, those often limited from taking training and education classes due to restrictions on travel. Our first course in June will help meet this challenge at a time when many of us are unable to leave home, while at the same time further enhancing our goal of providing high quality, non-biased education for today's PLM professionals." Mr. Bilello also stated that "CIMdata has been working with the PLM industry for more than 35 years. Our consulting services and research expertise are known and respected around the world for their best practice-based content. CIMdata's educational offering draws on this vast knowledge and experience. Our new Virtual-Live course leverages CIMdata's internationally recognized five-day PLM Certificate Program for Industrial Organizations and PLM Solution Providers."

For more information on CIMdata's PLM Core Virtual-Life Course, visit https://www.cimdata.com/en/education/plm-core-virtual-live-plm-certificate-program

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CIMdata Highlight: Upchain Supports Working from Home

14 April 2020

According to the famous Greek philosopher Heraclitus, "The only constant in life is change." Oh, how true, given the current global pandemic. Who would have thought that the global economies of the world would have been shut down overnight, resulting in millions of people being out of work with the snap of a finger? Many millions more are now working from home—all needing access to product lifecycle related tools and data, remotely and securely like never before.[1]

It is in times like these when leaders emerge, who proactively define the path forward and to prepare for the future. These true leaders also seek out and deliver value without expecting immediate return. Upchain is one such leader in the global PLM ecosystem. Their recent announcement by Mr. John Laslavic, Upchain's CEO, illustrates how they have stepped up to help not only their current customers, but also future potential ones. The flexibility and designed robustness of Upchain's quick-start implementation program, Connect the Chain (CtC), is helping organizations overcome today's rapidly evolving challenges, like those mentioned above, quickly and effectively using modern PLM-enabling technology. Besides showing how CtC can be successfully used in these challenging times, Upchain also recently announced that they have enhanced the program so that it better supports and enables current work-from-home policies of many of its customers by extending one month of free subscriptions for any additional users that are added to the system. CIMdata applauds Upchain's proactive leadership stance taken to support its customers and organizations' changing needs during these challenging times.

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CIMdata to Host a Free Webinar on the Potential Impacts of COVID-19 on the PLM Economy

15 April 2020

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, "Potential Impacts of COVID-19 on the Global PLM Market." The webinar will take place on Tuesday, 21 April 2020, at 11:00 a.m. (EDT) and will last for 45-minutes.

The world is battling its worst health crisis since the 1918 influenza pandemic. While the Coronavirus first emerged in China, geographic boundaries are unable to contain it. Cases of the virus are in many countries, and many national health systems are straining to serve their citizens best. Overnight the world changed. With factories and businesses shuttered, unemployment rolls are growing, and government-supported efforts proliferate countries around the world. Many more people are working at home than ever before.

The global PLM Economy, the community of software and service providers that power the PLM strategies of companies around the world, will undoubtedly share the pain. This webinar will consider the impact of COVID-19 on this market. The preliminary PLM market results for the calendar year 2019 and CIMdata's initial forecasts for growth in the coming years, which reflect the potential impact of COVID-19, will be shared. The webinar will also consider the historical data from the Great Recession, which offers some guidance and will highlight some fundamental differences in the PLM market and global industry, and possible responses.

Attendees at this webinar will:

Gain awareness about how the COVID-19 pandemic could impact the PLM market.

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[1] Research for this highlight was partially supported by Upchain.

Learn how CIMdata measures the global PLM market, with a focus on 2019 results and forecasts, and how it views the impact of COVID-19 on those results.

Learn about CIMdata's outlook for 2020 and beyond, and what is needed to support the "new normal" for the PLM Economy.

Learn how the Great Recession of 2008 impacted the PLM Economy and the key industrial segments that invest heavily in PLM software and services and what that might mean relative to COVID-19.

Find out how the PLM Economy can be ready to help product companies emerge from the impact of COVID-19 in the strongest possible position.

Understand the opportunities that will be available post-COVID-19.

According to Stan Przybylinski, CIMdata's Vice President, and the host for this webinar, "COVID-19 has put the global economy into a deep freeze. Public companies in the PLM Economy have started to rethink their guidance from just a few months ago. While the Great Recession provides some insights that are useful for understanding how this might impact 2020 and beyond, some major differences could change how the PLM Economy might recover."

Mr. Przybylinski has over 30 years of experience in the development of business-enabling IT solutions for research, engineering, and manufacturing organizations worldwide. He has worked in R&D, marketing, and communications with both Fortune 100 companies and small organizations. Stan is responsible for CIMdata's research agenda, including the CIMdata PLM Market Analysis Report series. He has been directly involved with the selection, consulting, integration, and implementation of large-scale PLM solutions. He has also worked on projects for both PLM solution providers and end-user organizations in the automotive, aerospace, consumer packaged goods, high-tech, and medical devices industries. He has spoken on PLM-related topics in Europe, North America, and Asia.

This webinar will be of interest to product planners and managers, product portfolio managers, PLM team leaders, PLM team members, PLM users, product managers, IT leadership, solution providers, and anyone else who wants to learn about how the PLM Economy will be affected by the COVID-19 pandemic.

To find out more, visit: https://www.cimdata.com/en/education/educational-webinars/potential-impacts-of-covid-19-on-the-global-plm-market. To register for this webinar, please visit: https://register.gotowebinar.com/register/8447166711822177550.

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CIMdata to Present at the PLM Innovation Forum Virtual Experience
14 April 2020

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that it will be participating in the upcoming PLM Innovation Forum Virtual Experience. CIMdata President & CEO, Peter Bilello, and Practice Director, Aerospace & Defense, James Roche, will be featured on the agenda.

Mr. Bilello will present on "*Leading PLM Trends & Potential Disruptors,*" and Mr. Roche will share information on "Making Multi-view BOM a Reality." The PLM Innovation Forum is a virtual conference experience that will take place live for two days on 28th & 29th April.

CIMdata is also sponsoring the PLM Innovation Forum Virtual Experience, and members of the CIMdata team will be on hand to meet with attendees. To arrange a meeting with the CIMdata team

contact info@CIMdata.com or click here, or stop by the CIMdata booth.

For more information about the conference, please visit https://www.cimdata.com/en/events/cimdata-supported-events/event/532-plm-innovation-forum-virtual-experience.

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Company News

ACCENTURE: People + Work Connect Brings Together Leading Companies to Keep People Employed During COVID-19 Crisis
14 April 2020

As unemployment surpasses record highs due to COVID-19, a group of leading companies from multiple industries has formed People + Work Connect, an employer-to-employer initiative that brings together companies laying off or furloughing people with those companies in urgent need of workers. There is no cost for employers to join and participate.

People + Work Connect was designed by CHROs from Accenture, Lincoln Financial Group, ServiceNow and Verizon — and Accenture built the platform. From idea to launch in just 14 business days, the initiative is rapidly attracting a range of companies.

To date, participating companies include ADM, Baxter, Blue Apron, Cargill, Frito-Lay, Lincoln Financial Group, Marriott, Mondelēz International, Nordstrom, ServiceNow, Walmart and Zenefits. Additionally, more than 250 companies are expected to onboard over the next week, and the platform will soon add public sector jobs.

People + Work has been able to quickly scale the participation of companies due to the invaluable support and commitment to help put people back to work from Business Roundtable, Center for Advanced Human Resource Studies in the ILR School at Cornell University, Center for Executive Succession at the Darla Moore School of Business, Gallup and the CHRO Roundtable, HR Policy Association, Institute for Corporate Productivity, National Academy of Human Resources, Society for Human Resource Management and World50.

The business-to-business platform enables companies that are best positioned to rapidly share the experience and skills of their laid-off or furloughed workforces to connect at no cost with other companies on the platform that are seeking workers. The platform is global and cross-industry to maximize the ability to deploy people with similar skills in one industry into other industries where jobs are being created. Ultimately, this will shorten the complex, often lengthy cycle of unemployment for people. The analytics-driven platform pools non-confidential and aggregated workforce information by categories such as location and experience.

The CHROs who are leading People + Work Connect came together to create a collaborative, inclusive community to help put people back to work quickly in areas of new opportunity.

"By providing real-time visibility into which companies need people and where, People + Work Connect is designed to lessen the economic and societal impacts of the virus and help us work together to make a difference in the lives of hundreds of thousands of people," said Ellyn Shook, Accenture's chief leadership and human resources officer.

"Life is filled with many moments that matter, including some that are tougher than others. People remember who shows up during those tough times to help them through," said Lisa M. Buckingham, executive vice president and chief people, place and brand officer for Lincoln Financial Group. "A small group of CHROs came together because we share a passion for making sure that we—and the companies we represent — are remembered for addressing this tough moment with compassion and a sense of responsibility that transcends the business we do every day."

Pat Wadors, chief talent officer at ServiceNow, said, "This crisis has created massive job loss and people need help finding work. By connecting companies that are hiring with a talented and available workforce, technology is truly acting in service of people. Working together, we can quickly make a meaningful impact on the people who need it most."

"While the current pandemic has been the impetus for People + Work Connect, we expect this type of collaboration to become the norm going forward," said Christy Pambianchi, executive vice president and chief human resources officer, Verizon. "Now is the time to build a more resilient workforce — for today and tomorrow."

For more information, visit: https://peopleworkconnect.accenture.com/welcome

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Atos AI experts take part in global challenge to study Covid-19 behavior

17 April 2020

Atos is taking part in the 'Covid-19 Dataset Challenge', an international competition hosted on online community Kaggle asking AI researchers to apply machine learning tools and techniques to help provide answers to key questions about the virus. Atos is deeply involved with a team of 10 experts working on the project, using their AI and automation skills to digest scientific articles and help the medical community to keep up to date with the latest publications on Covid-19.

Literature reviews are essential to the research process. They aim to compare and contrast the thinking, ideologies and concepts on a particular subject area. In the specific context of Covid-19, they are essential to the research process as they provide deeper insights, leading to quicker discovery of any gaps in research. They serve as a stepping-stone towards developing empirically grounded hypotheses but are very time-consuming.

For several weeks, Atos experts have been focusing on processing thousands of articles. These are part of an overall dataset of machine-readable coronavirus literature for data and text mining. It includes over 47,000 articles was released by researchers from several organizations at the request of the White House Office of Science and Technology Policy. The Atos team is currently focusing on the topic of extracting and classifying opinions to quickly get reliable information. Atos hopes its contribution will help scientists get a better understanding of the virus faster and will lead to quicker treatment discovery.

"With machine learning techniques like natural language processing, we get relevant data into the right hands more quickly. We need to come together as companies, scientists and government, and work to

automate all tasks that can be automated – so that we make sure the Covid-19 researchers are spending a maximum of time on innovation." says Kaoutar Sghiouer, Chief Data Science at Atos, who put together the Atos team for this Challenge."The Atos team is composed of 10 experts from different countries, who comes from either R&D or Operations. We are all fully committed to giving the best of ourselves to help the community."

The Atos team uses its internal computing and storage capacity and also benefits from free credit from its partner Google Cloud.

Submissions to the 'Covid-19 Dataset Challenge' will be evaluated in 2 rounds, ending respectively on April 16 and June 16, 2020.

More information about the COVID-19 dataset challenge: https://www.kaggle.com/allen-institute-for-ai/CORD-19-research-challenge

More information about Atos' AI solutions and expertise: https://atos.net/en/solutions/codex-ai-suite

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Bentley Systems Opens Up Full Access to ProjectWise 365 and Waives Subscription Fees through September 30

16 April 2020

Bentley Systems, Incorporated announced it has opened up its ProjectWise 365 cloud service, including waiving subscription fees through September 30, 2020, to virtually connect infrastructure project participants forced to work from home.

ProjectWise 365, leveraging Microsoft 365 technology and office productivity tools, extends the reach and accessibility of BIM and infrastructure engineering data to facilitate collaboration and design review across the ecosystem of project stakeholders. As an "instant-on" cloud service accessed through a web browser to simplify design review, transmittals, RFIs, information sharing, and issues resolution, ProjectWise 365 is perfectly suited for quick adoption while working from home, eliminating the need for error-prone combinations of generic technologies such as "drop boxes" and PDF.

Microsoft cited Bentley as one of the top 25 companies in terms of Azure usage globally. In the development of ProjectWise 365, extending infrastructure engineering workflows to all users of Microsoft's Office 365 cloud services, Bentley leveraged its market-leading experience in meeting the collaboration and work-sharing challenges of distributed project delivery teams.

"The enterprises using ProjectWise Design Integration for work sharing, which include 74 of the ENR Top 100 Design Firms, have been telling us that they credit ProjectWise for sustaining their project productivity over the forced transition to work from home," said Dustin Parkman, VP, Project Delivery for Bentley. "Now, by broadly and immediately opening up access to our new simplified ProjectWise 365 cloud service, we're extending ProjectWise advantages in collaboration and design review to infrastructure engineering project teams at every scale. By fully 'digitally' enabling every infrastructure professional, we hope to support their resilience in surmounting this crisis."

Gregory J. Ellwanger, P.E., Project Engineer for BLA, Inc. said, "The present work-from-home conditions and coordination with multiple parties highlight how critical it is to our business and our role as prime consultant on projects, that our project teams always stay connected and productive.

ProjectWise 365 cloud services enable us to rapidly deploy a common BIM collaboration environment that avoids the data silos, coordination delays, and the other limitations we've experienced while using network drives, file-sharing services, and email. ProjectWise 365 allows us to coordinate designs more quickly and reduce risk in contractual exchanges, regardless of the location of project participants, adding resilience to our design practice and increasing our ability to deliver high-quality projects on schedule."

Please visit ProjectWise 365 to learn more about the product and visit ProjectWise 365 Offer to learn about this work-from-home offer.

ProjectWise 365 is part of Bentley's comprehensive effort to help both user organizations and end users to work remotely, providing tools, information, and resources including FAQs, videos, webinars and other technical assets. For more about Bentley's response to the challenges of working from home, please visit www.bentley.com/en/workingfromhome.

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Dassault 3DEXPERIENCE Lab OPEN COVID-19 Community Uses Sneeze Simulation to Support PPE Design

13 April 2020

Dassault Systèmes is using scientific simulation of the human sneeze to support the development of personal protective equipment (PPE) projects in the 3DEXPERIENCE Lab OPEN COVID-19 online community, as part of collaborative efforts to quickly answer unmet urgent needs during the COVID-19 pandemic. Sneezing is one way that pathogens, including COVID-19, spread. The simulations are used to demonstrate what happens when a person sneezes, to better understand the effectiveness of different PPE being developed and deployed, and to aid in improving their design.

Dassault Systèmes used its SIMULIA PowerFLOW simulation applications to develop a computational simulation of a sneeze to provide insight into the flow physics of sneezes. SIMULIA is already widely used in the aerospace and automotive industries to generate a dynamic simulation of fluid and air flow.

The scientific simulation of a sneeze using SIMULIA is based on published data including gas velocity as a function of time exiting the mouth, as well as droplet particle size and distribution. The result is a realistic model of a sneeze, demonstrated in a video that shows the trajectory of the various mucus particles emitted through the air while sneezing, and where the particles are deposited on the surfaces of a shielded individual, as well as small particles that are entrained behind a shield and come into close proximity of the shielded individual. The simulations are computationally efficient allowing for rapid exploration of design space that could include shield length, width, and the distance between individuals.

Dassault Systèmes' 3DEXPERIENCE Lab has launched multiple initiatives that leverage collaborative, collective intelligence from designers, engineers, scientists, makers and others – including simulation specialists – on the 3DEXPERIENCE platform to rapidly source, qualify, design, engineer and manufacture solutions that can solve issues and benefit local hospitals during the pandemic.

For more information on the scientific simulation results of a sneeze with different PPE in the OPEN COVID-19 community: https://go.3ds.com/opencovid19

Dassault Previews the "Museum of Innovation," a 3D Experience in Virtual Reality

14 April 2020

Dassault Systèmes has unveiled the "Museum of Innovation," a scientific and technological virtual reality experience to showcase innovations from around the world that are positively impacting society, at the Atelier des Lumières digital art center in Paris. From solar autonomous drones and sustainable energy production to 3D-printed organs and virtual surgery, this new 3D experience offers an immersive way for anyone to discover disruptive projects addressing some of the world's major challenges in health, well-being, energy, farming, mobility and other areas.

The projects, from Europe, Asia, India and the U.S, are being nurtured by Dassault Systèmes' 3DEXPERIENCE Lab open innovation laboratory and accelerator program. Each project leverages collective intelligence and open innovation, as well as design, simulation and data sciences applications powered by the 3DEXPERIENCE platform, to accelerate their development and deployment.

While visitors walk through the "Museum of Innovation," different spaces featuring Life Sciences, City and Lifestyle exhibits enable anyone – no matter their level of knowledge on the subjects – to focus on a particular theme and, at their own rhythm, virtually explore projects and startups taking innovative approaches to propose personalized health solutions, create more sustainable cities, or design more environmentally-friendly consumer goods.

Individual pods showcase each project in an interactive, real-time 3D experience, including new projects as they are added. Throughout this learning expedition, visitors can gain insight into a project's background, understand how it contributes toward advancing the United Nations' Sustainable Development Goals, and listen to the startup's CEO, then delve further into the story by virtually experiencing simulations and interacting with a digital twin of the project alongside its physical prototype. The digital twin, which is created directly from a 3D digital mock up engineered by a project's team, enables a life-like scientific experience with full-scale immersion for real sensations.

As this VR experience is available in a digital environment on the cloud, it is scalable and quickly deployable. Following this preview, Dassault Systèmes expects to extend access to the virtual museum to other countries where it is located, and partner with science museums to share the experience with the public.

ESI Group participates in the fight against COVID-19 with Folding@Home

15 April 2020

ESI Group is joining Folding@Home project in the United States, making the computing power of its servers available to accelerate research on the prevention and treatment of COVID-19.

Launched 20 years ago at Stanford University, Folding@Home (FaH) is a distributed computing project for performing molecular dynamics simulations of protein dynamics. Its initial focus was on protein folding but has shifted to more biomedical problems, such as Alzheimer's disease, cancer, COVID-19, and Ebola.

Folding@Home uses computer simulation to predict the dynamics of diseases like COVID-19 and understand the proteins' moving parts thanks to 3D modeling. Watching how the atoms in a protein

related to the virus move relative to one another is important because it captures valuable information that is inaccessible by any other means.

This project runs on the unused computing power of computers, phones and formerly PS3s from thousands of thousands of volunteers, both individuals and corporates.

ESI Group joined in March 2020 the fight to defeat COVID-19, combining their high-performance CPU and Graphics computing power with the Folding@Home network which is now pushing out an impressive 470 PetaFLOPS of raw compute power. Contributing to this project has provided an amazing look at the power of collaboration since the Folding@Home overall computational power now dwarfs the IBM SUMMIT supercomputer, considered as the fastest in the world, capable of 200 petaFLOPS, i.e. 1.88 billion calculations per second.

Taking the experimental structures as starting points, scientists and engineers can simulate how all the atoms in the protein move, effectively filling in the rest of the game that experiments miss. This can reveal new opportunities – new ways to render the virus ineffective and powerless against human immune systems.

One solution can be used to increase and accelerate simulations: multiply the computing power by using thousands of computers around the world. ESI Group is actively involved in this dynamic. Folding@Home reports that it has seen a 1,200% increase in contributors, with Bitcoin miners also joining the fight, and over 400,000 new volunteers joining over the last two weeks.

James Hartley, North America IT Manager underlines: "We have truly embodied the values within ESI's culture of passion, social responsibility and energy to bring this initiative to fruition, working together with our team in France to realign and support the efforts"

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Gerber Partners with 3DLOOK to Offer Unique Digital Customer Experience
15 April 2020

Gerber Technology and 3DLOOK, The Body Data Platform are proud to announce their partnership and integration to offer a fully-connected, digital remote supply chain experience. In a retail world in which fit is essential and working remotely due to the COVID-19 situation is the new normal, this partnership will facilitate consumers receiving personalized, high-quality garments by leveraging a fully connected, on-demand workflow.

To support demand from smaller, made-to-measure companies whose businesses have relied on the traditional way of measuring customers in person, 3DLOOK has developed a special package with very quick and easy integration. The goal of the integration is to give small businesses the digital tools they need to operate online and meet customer demand, all while remaining digitally competitive and forward-thinking in an era that requires constant technological evolution, regardless of business size.

"We are incredibly proud to partner with 3DLOOK to offer worldwide brands and retailers a fresh, digitally innovative way to collaborate," said Ketty Pillet, VP of Marketing at Gerber Technology. "For companies to truly offer their customers the best quality products, they need to ensure that their clothes fit perfectly."

The Body Data Platform maps body data to product data, transactional data, and product return data to deliver analytics related to measurement, shape, 3D model accuracy, and fit, as well as customer profile insights through a dynamic dashboard. Customers take two photos while fully clothed, and a computer vision algorithm then detects the human body and renders 3D models and body profiles. The algorithm

measures the 3D models to compute 65 ISO-compliant measurements. By using 3DLOOK's platform, customers can easily understand how the garment will fit on their unique body shape.

"We see this partnership as the first step towards providing brands, manufacturers, and retailers with the digital tools needed to support a full end-to-end customization platform which meets the needs of customers increasingly focused on products personalized to their fit and preference and who also care about supporting more sustainable supply chains and business models," said Whitney Cathcart, CSO & co-founder of 3DLOOK. "By integrating our widget into Gerber's "Made For You By You" flow we are enabling a simple way to digitize measurement capture and automate the workflow process."

For many consumers, fit is a deciding factor in choosing which brands to buy from. In fact, according to Mintel, 81% of consumers who buy clothes that fit right are much more likely to buy from that brand again. It is critical for today's fashion companies to prioritize fit in their design process to eliminate guesswork for their customer and reduce the number of returns. 3DLOOK's Body Data Platform provides the insights and analytics to help brands optimize their fit and grading systems from broad segmentation based on historical surveys to real-time segmentation focused on their unique customers.

Thanks to the newly-added 3DLook integration, visitors to the virtual Gerber Innovation Center can access Gerber's YOU website from anywhere in the world to customize garments to their individual fit preferences and measurements. These virtually customized garments can then be digitally brought to life -- incorporating the customer's preferences -- through Gerber's fully-connected microfactory, giving them a fully-realized, production-ready garment. Gerber's partnership with 3DLOOK will enhance the overall fit of the final garment, offering customers an even more personalized digital experience.

Lantek: 5 Questions Surrounding Manufacturing Processes for Economies of Customization
17 April 2020

Humans have been manufacturing goods for centuries. What began as people making tools for personal survival has turned into highly automated processes producing consumer goods on a global scale. Now that we've become efficient in manufacturing at scale, the market is demanding customized products. This changes the way we think about processes throughout the manufacturing facility and leads to tremendous innovations in manufacturing technology. Here are some questions and answers surrounding the advantages of such technologies.

How did we get here?

As communities grew and technology advanced, we began manufacturing goods at a greater scale but still at a high cost. After the inception of the assembly line, producing large quantities at affordable prices took off. As production prices dropped, the global economy expanded, opening new markets. This required more efficient processes and more robust logistical systems. Today, manufacturers use robotics on the shop floor, manufacturing software, and data collecting sensors to better understand their capabilities for meeting demand.

What's the driving force?

Simply put globalization through technology. Large tech companies, like Amazon, have reinvented the way we shop by creating advanced systems for inventory control, logistical scheduling, and data analysis. This technology makes their system more transparent, enabling them to ship an online order

within minutes, depending on the product and stock levels. Beyond Amazon, metal manufacturers are beginning to employ these methods to meet demand.

Why should metal manufacturers care?

Do you know the true cost of a part or a job? What about the true profitability? With dated, disconnected systems it's tough for manufacturers to know their true numbers. If you're using outdated pricing for materials or machine costs, your quotes could be miscalculated, costing you money.

Sometimes it's best to turn a job down because the cost outweighs your target profit margin. Other times you may be able to extend a discount to win a job, while retaining a healthy margin. With connected systems your company will experience benefits beyond customers ordering online; the main benefit being data-driven decision-making.

Do we need to revamp for custom production?

This is a question a company needs to analyze with stakeholders. Generally, if you're a contract manufacturer dealing with large volume, low mix, long term contracts it may not be the best move. If you're a job shop dealing with low-to-mid volume, mid-to-high mix, and short turn around this should be on your radar for short-term investment. Maybe you're a contract manufacturer looking to expand your operations because you have open time on your machines. Looking into producing custom work, like home décor, could be highly profitable, if you have the systems in place to automate as much as possible.

How do we prepare for more custom production?

Your first step in any project should be setting a goal. From there research best practices within the manufacturing sector. Next, find a trusted solution provider who can understand your unique needs. They will walk you through how to use technology to achieve your goal.

You'll want to make sure your current systems can connect with the new systems. These include your CAD/CAM software, manufacturing execution system, and enterprise resource planning software. Once these are implemented, you can explore launching an online shop. This allows a customer to upload a geometry file and have a quote generated almost instantly. In the background your systems will calculate the cost of production, verify delivery dates according to real-time machine capacity, and generate an accurate quote.

In conclusion, we've become so efficient in manufacturing processes for products at scale that the market is demanding customized goods. If we can order a stocked product online and have it shipped in a day, then why can't we order a custom product, and have it shipped in a day?

Contact us today and learn how to make this a reality: info@lantek.com

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Minerva offers free Minerva PLM with built-in design specifications for the Medtronic PB560 ventilator

17 April 2020

In Minerva, we want to support Medtronic's initiative get more ventilators to the market. We are supporting the production of additional ventilators by providing our product documentation management

software free of charge to manufacturers.

We have uploaded the design specifications for the Medtronic PB560 ventilator to our cloud-based Minerva PLM with CAD design specifications, provided by our partner Essig.

Our software application provides users to better manage the entire design- and production process and provides an overview on the vast amount of product documentation, including components and parts as well as collaboration tools to help assist manufacturers to access the ventilator design data. Lastly, it ensures that regulatory restrictions are being adhered to.

By providing our software free of charge, we enable manufacturers to understand the vast amount of documentation faster, manage the production process more efficient and thus helping them to produce more ventilators faster.

To get your free version of Minerva PLM, you must be:

Employee at a manufacturer, component supplier, at a research facility or either a student or employed at an accredited educational institution.

Be willing to provide contact information, e.g. work e-mail, for your company or educational institution.

Upon approval, you will receive full access to the cloud-based Minerva PLM in a ready-to-use format with built-in ventilator design specifications.

Let's work together in the fight against COVID-19. Sign up here to get approved for your Minerva PLM instance to support your production environment.

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OPEN TEXT: Cyber Report Highlights Need for Cyber Resilience and Security Education
16 April 2020

OpenText released Webroot's fourth annual report on consumer security behavior across the U.S. The report, "A Look at 2020's Most (And Least) Cyber-Secure States" sheds light on the continued need for greater security awareness education nationwide.

"The global COVID-19 pandemic has increased the importance of good cyber resilience habits," said Mark J. Barrenechea, OpenText CEO & CTO. "Our threat Intelligence platform has tracked cybercriminals that create malicious websites mentioning COVID and coronavirus, insert malware into popular video conferencing tools and test users every day with phishing attacks. Both businesses and individuals need to learn about these threats, work with their technology partners and take steps to increase their cyber resilience."

At a time when more people are working remotely than ever before, the report highlights the need to adopt cybersecurity best practices. While most citizens believe they are taking appropriate steps to protect themselves online, almost half (49%) of Americans still use the same password across multiple accounts and only 37% keep their social medial accounts private.

"This is the fourth consecutive year we've seen the same high levels of consumer misunderstanding and general overconfidence when it comes to cybersecurity practices and safety," said Webroot security analyst Tyler Moffitt. "In fact, only 11% of Americans scored an 'A' grade on our index, and no state scored above a 'D'. The need for better cyber hygiene and security education is clear, especially as more Americans work from home."

In order to stay cyber resilient during the pandemic, there are some basic guidelines to follow:

Protect devices with antivirus and a VPN

Keep antivirus software and other apps up to date

Use a secure backup program

Create strong, unique passwords (and don't share them) or use a password manager

Be extra cautious with links – hover over them to check the full URL or type the website directly into the browser

Notable Report Findings:

Almost all (89%) Americans say they're taking appropriate steps to protect themselves online, but there is a general lack of understanding when it comes to cybersecurity.

Few Americans practice all key benchmark metrics (including using anti-virus software, backing up data and keeping social media profiles private) needed to protect themselves from cyberattacks – the average American scored a 58% on our index (an "F" grade) and only 11% scored 90% or higher (an "A" grade).

A majority of Americans say they are familiar with malware (78%) and phishing scams (68%), but only about a third feel confident they can explain what malware or phishing is.

83% of Americans use anti-virus software and regularly back up their data (80%), but only half know if their backup is encrypted and only 18% back up their data online and offline.

Almost half (49%) of Americans use the same password across multiple accounts and only 37% keep their social medial accounts private.

Over three-quarters (78%) of Americans who have had their identity stolen have made changes to their online behavior as a result.
Those who have had their identity stolen are more likely than those who have not to:

Regularly monitor bank accounts (31% vs. 22%)

Regularly monitor credit card statements (26% vs. 16%)

Keep software up to date (26% vs. 16%)

Regularly check credit reports (25% vs. 15%).

73% of employed Americans who have had their identity stolen have looked into the security of their work devices, while 59% of those who have not say the same thing.

Over half (55%) of Americans routinely use their employer-provided work device for personal use.

38% consider an employer-provided work device to be their "primary" device for use at home.

Almost half (48%) have never looked into the security of their work devices, and only a third have taken any steps to improve its security.

Roughly a quarter (26%) believe their personal devices are more secure than their work devices.

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Propel launches Healthcare Manufacturer Community to fight COVID-19

17 April 2020

Propel is pleased to announce the launch of the Healthcare Manufacturer Community. HMC is dedicated to the fight against COVID-19 by helping bring medical devices to market as quickly as possible. The official announcement from Ray Hein was posted to our blog, shared on LinkedIn and tweeted,

HMC launches with the full design documents, product manuals, and software code of the PB560 ventilator that Medtronic recently made available to the public. The information has been uploaded to Propel's Product Success Platform, with an easy to navigate user interface that clearly presents the information released by Medtronic. Silicon Expert, an Arrow Electronics subsidiary, has generously added detailed supplier and component information. We are inviting the public to join the community for free, access all the information, and collaborate with others to develop their own ventilator design and get it to market as quickly as possible.

Please help us promote this resource by sharing our announcement with your networks. Having more members in the community will help make it a greater success. Thank you!

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SAP - Business Agility in a Pandemic: External Workers Answer Urgent Call

17 April 2020

As companies scramble to hire the external workers they need to meet historically unpredictable demand surges, COVID-19 is redefining business agility.

Healthcare, food, manufacturing, logistics, and retail are among the hardest hit industries, struggling to find people who can quickly come up to speed. From keeping supermarket shelves stocked with food to retrofitting factories that can quickly churn out PPE equipment, the challenges are mind boggling.

To find out more, I reached out to Arun Srinivasan, general manager at SAP Fieldglass, after watching him in a virtual SAP Ariba Live event session. Srinivasan talked with customer Lisa Zak, director of Indirect Supply Management for Human Resources (HR) and Contingent Labor at Medtronic, a global medical technology company with more than 85,000 employees worldwide.

"The supply and demand equation in markets worldwide is so dynamic, and being disrupted so significantly, that practices considered the norm one week ago – in some cases, days or hours ago – are no longer valid," Srinivasan said. "Companies are adapting talent sourcing channels to quickly get the right external workers they need to the right places while also managing risk. We are seeing a tremendous uptick in SAP Fieldglass activity volume in certain sectors, including healthcare and retail."

Most urgently, hospitals are adding traveling nurses, technicians, ER-certified staff, and outpatient management staff. Food suppliers need more pickers, packers, warehouse workers, and drivers to get food to communities.

Widespread Staffing Disruption

The cascading impact of COVID-19 is causing havoc with staffing supply and demand just about everywhere. With mandatory shutdowns, remote workers need higher levels of network connectivity, more IT, and other equipment – not to mention set-up help and ongoing support while they are at home. The airline industry may be effectively shut down for fun trips, but millions of call center staffers are working remotely to help would-be travelers navigate restrictions that have left many in limbo – whether

they're stranded or at home, worrying about booked itineraries.

In certain industries, worker mobility is another huge challenge for organizations that are trying to shore up staffing levels. For example, the pandemic's impact varies across states, provinces, and countries. For all those companies looking to hire external workers, travel restrictions might force them to compete for people in smaller local talent populations. Worker health and well-being is just as important when it comes to travel.

"Our customers want to make sure they are exercising caution and appropriately tracking the movement of external workers," Srinivasan said. "Before bringing these workers on board, and as they move between worksites, organizations want to conduct health checks, protecting the health and safety of the broader workforce as well. At any point in time, it's important for companies to have a holistic view of workforce spend for faster response and accurate planning."

Communication during this crisis is also paramount. This includes contingent workers and service providers who represent 42 percent of workforce spend according to Oxford Economics research conducted before the pandemic. With more visibility into the external workforce, Srinivasan said that SAP Fieldglass customers are staying in touch with all workers as consequential health and safety notifications spike.

Pandemic Sparks External Workforce New Normal

Staffing agencies, consulting companies, freelancers, and others have long been part of the modern talent pool. In the same research from Oxford Economics, almost 60 percent of executives said the external workforce helped them compete in a digital world. In addition, 74 percent of executives reported that the external workforce was critical to operating at full capacity. One question is how COVID-19 and its aftermath will change workforce norms even more.

"Stakeholders in HR and procurement had begun to fundamentally rethink how work gets done with a combination of traditional employees and external workers," Srinivasan explained. "Now there's a greater need to build elasticity in the workforce so organizations can ramp up quickly, supplementing the existing employee base through various sources of talent when demand grows."

He added that many organizations, pressured by the pandemic, have changed how they balance control and efficiency. Some have found that it makes sense to fast-track hiring processes for external workers while following company guidelines and legal regulations.

Workforce Management in Post-Pandemic World

While it is too early to predict what will happen as COVID-19 recedes, more organizations will likely realize the strategic value of external workers.

"In times of crisis, having a solid external workforce strategy that complements your broader workforce approach is what helps companies thrive in the best of cases, and survive during challenging times," Srinivasan said. "In this fast-evolving market, companies are finding strategic ways to differentiate. Eventually, organizations will look at their entire talent pool to find the best people for the job. One thing is certain: The way work gets done has forever changed."

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Events

CGS to Lead Human Capital Institute Webinar Focused on Remote Learning

14 April 2020

CGS announced it will be sponsoring and participating in the Human Capital Institute (HCI) webinar titled, Reimagining Learning for Rapid Response, on Wednesday, May 6, at 2 p.m. EDT. Speakers include Christopher Lind, Global Learning leader at GE Healthcare, Beckie Anderson, Senior Advisor of L&D at Rio Tinto, and Doug Stephen, President, Learning at CGS.

HCI's "Reimagining Learning for Rapid Response" webinar, which is sponsored by CGS, outlines how L&D teams are being tasked with creating a scalable infrastructure resulting from current disruptions in business, including social distancing and integrating digital transformation. The discussion will include a focus on best practices for transitioning to virtual employee engagement strategies and technologies for remote work such as remote guidance, coaching (e.g., augmented reality, virtual reality, mobile and video) that attendees can immediately leverage in their Learning programs.

"In this current upheaval of business as we know it, moving to a completely remote workforce, L&D is tasked with rapidly ramping up with onboarding, training and engaging of employees," said Stephen. "In this session, our panelists will discuss how best to provide engaging Learning programs to a dispersed workforce while ensuring company objectives are seamlessly measured and met."

The CGS Enterprise Learning division serves as a trusted partner to many of the world's most dynamic companies, delivering innovative, custom learning solutions essential to scaling people, processes and performance. Through tech-forward engaging programs, leveraging AI, AR/VR, machine learning and gamification, CGS provides professional development solutions, blending emerging technology with essential (virtual) shoulder-to-shoulder training. Each solution is custom-tailored and designed to engage employees and keep clients' employee-related business fundamentals strong in an ever-changing corporate environment.

For additional information, or to register, visit: https://www.hci.org/webcast/reimagining-learning-rapid-response

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Financial News

WIPRO announces Results for the Quarter and Year ended March 31, 2020

15 April 2020

Wipro Limited announced financial results under International Financial Reporting Standards (IFRS) for its quarter and year ended March 31, 2020.

Results for the Year ended March 31, 2020:

 Gross Revenue was ₹610.2 billion ($8.1 billion1), an increase of 4.2% YoY

 IT Services Segment Revenue was at $8,256.2 million, grew at 1.7% YoY

Non-GAAP2&3 constant currency IT Services Segment Revenue increased by 3.9% YoY

IT Services Operating Margin4 for the year was at 18.1%, an expansion of 0.2% YoY

Net Income for the year was ₹97.2 billion ($1.3 billion1), an increase of 8.0% YoY

EPS for the year was ₹16.67 ($0.221) per share and grew 11.2% YoY

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Implementation Investments

CGS Customer National Safety Apparel Ramps up to Produce 1M+ Face Masks

13 April 2020

CGS announced that its BlueCherry® Shop Floor Control (SFC) customer National Safety Apparel®, manufacturer of high-quality industrial safety and military apparel, is contributing to U.S. Department of Health and Human Services PPE initiatives in the fight against COVID-19. SFC is an essential module within the BlueCherry Enterprise Suite of solutions, providing end-to-end capabilities for apparel and consumer lifestyle brands.

National Safety Apparel, in partnership with the Hanes / Parkdale coalition of USA textile companies and small- and medium-sized apparel manufacturers, has committed to help achieve the coalition goal to make more than 1.5 million facemasks weekly. The company began manufacturing protective masks to provide this essential PPE for the general public, at both its Cleveland and Chicago facilities. Using the BlueCherry SFC solution, the company can easily track the productivity and costs related to this initiative while eliminating manual processes. CGS contributed 50 SFC devices at zero cost and implemented the solution within days to assist with the facilities retooling in record time.

"The current COVID-19 outbreak has severely affected the global economy, especially the supply chain, and National Safety Apparel is not immune to the downturn," said Sal Geraci, COO at National Safety Apparel. "With the decline in regular orders, we wanted to keep our employees on staff and productive while also contributing to the greater good. As an extension of our mission to provide quality products with responsive service and delivery to the industrial safety and military apparel manufacturing industry, it made sense to participate in this consortium."

BlueCherry Shop Floor Control automates and tracks the collection and report of production activities with smart devices on the factory floor. It allows managers to be proactive and adjust to production changes and issues as they arise and provides real-time analytics into overall efficiency and operator productivity.

"CGS understands the unique needs of manufacturers like National Safety Apparel and the immediate needs currently affecting their businesses," said Paul Magel, President, Applications division, CGS. "Today's economic conditions and its effects on the supply chain have affected apparel brands and retailers alike. The immediate ramp-up and rollout of BlueCherry Shop Floor Control in this situation was crucial. The rapid pivot to manufacturing much-needed PPE masks is a tremendous and admirable undertaking. We're honored to partner with National Safety Apparel to help the company reach its goals."

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CONTACT: Kiekert opts for CIM Database PLM as global development platform

14 April 2020

The leading manufacturer of side door latches in the automotive sector has replaced its previous legacy

system with CIM Database in order to increase efficiency at all development locations. With the global PLM platform, Kiekert aims to optimally support its worldwide development projects and to increase its innovative ability.

In view of current market trends, such as e-mobility and autonomous driving, the ability to innovate is becoming a critical success factor for the automotive industry. Kiekert AG is the world's number one manufacturer of side door latches and has successively expanded its product portfolio significantly. On its internet platform NuEntry.com the company shows its innovations in intelligent access and latch systems.

The growing share of software and electronics in the products as well as the worldwide distributed development teams increase the complexity along the entire product development at Kiekert. In order to further extend its innovative lead and to expand the corresponding competencies at its locations, the company has replaced its previous individual solutions with CIM Database PLM. "Global data management is increasingly important for collaboration in the product development process," explains Franz Nienhaus, Global PLM Project Manager at Kiekert. The previous PDM system was neither multi-CAD-capable nor did it meet the additional PLM requirements.

As a key development platform, CIM Database ensures better collaboration and faster processes throughout the entire product development process through the principle of single source of truth. Product relevant information are complete, more consistent and better available throughout the company. The various departments have much easier access to the data because a CIM Database Server service automatically derives and provides standard formats such as 3D PDF.The open, modular and easily configurable architecture of the software also makes it possible to implement specific requirements without programming effort.

Central business processes have been further digitalized and automated, so that approval processes are approximately 20 percent faster. The 40 percent faster loading times also have a positive effect on the user experience. "By introducing CIM Database as an integration platform, we expect further productivity increases in the development department. The company-wide connection of our various software solutions is a major step to further increase efficiency," says Nienhaus.

Together with its partner Bosch Engineering CONTACT implemented the new PLM platform in agile sprints. In total, 700,000 Catia files, 400,000 articles and 2,000 projects from five applications were merged. In the next step, Kiekert plans to make information from requirements management and Model Based Systems Engineering (MBSE) available in the new PLM system in order to link it with CAD data and other project documents.

Kiekert, headquartered in Heiligenhaus, Germany, is the world's number one supplier of side door latches and has significantly expanded its product portfolio in recent years, for example with the secuCHARGE charging plug latch for electrically operated vehicles and the electrically operated latch excellENTRY with a further increased level of comfort and security. More than 60 brands of the leading automobile manufacturers are among the company's customers. 6,500 employees at eight production and seven development sites as well as at three sales centers in eleven countries work for Kiekert.

Groq Adopts Synopsys ZeBu Server 4 to Develop Breakthrough AI Chip

13 April 2020

Synopsys, Inc. announced that Groq has adopted the Synopsys ZeBu® Server 4 emulation solution for its Tensor Streaming Processor (TSP) architecture development. ZeBu Server 4 performance and

capacity enabled first silicon success of Groq's TSP architecture for artificial intelligence (AI) and machine learning platforms. ZeBu also enabled optimization and validation of Groq's TSP architecture prior to silicon, resulting in unmatched performance for throughput and latency.

"As we redefine compute technology with our unique single-core architecture, we are enabling the development of artificial intelligence and machine learning platforms that offer twice the inference performance while drastically reducing infrastructure costs," said Adrian Mendes, chief operating officer at Groq. "Synopsys ZeBu Server 4 Cloud solution delivered the performance and capacity required to efficiently analyze performance of our Tensor Streaming Processor, enabling us to focus on silicon innovation."

ZeBu Server 4 is the industry's fastest emulation system offering 2X higher performance over competitive solutions. With its small footprint and one-tenth the power consumption compared to its largest competitor, ZeBu enables software and verification teams to efficiently scale their emulation farm to verify their most complex designs. ZeBu performance enables software teams to run 100s of billions of software cycles required to validate complex new software stacks on multi-billion gate designs.

"We continue to see momentum at AI chip companies requiring emulation solutions with high-performance, capacity, and reliability to verify multi-billion gate chips," said Rajiv Maheshwary, vice president of marketing and business development in the Verification Group at Synopsys. "Groq's software-first mindset was a perfect match for ZeBu's high performance to verify the fastest single-die AI chip available today. We look forward to our continued collaboration with one of the industry's leading AI chip companies."

Infor WMS Solution Provides 20% Productivity Increase in Order Picking for EVA

16 April 2020

Infor announced the successful implementation of Infor WMS (warehouse management system) in the distribution centers of EVA, the largest Ukrainian chain of health and beauty stores. The total area of the distribution centers is more than 77,000 square meters, and by the end of 2020 it will exceed 100,000 square meters.

The EVA chain is the leader in the perfumery and cosmetics segment. Its stores sell cosmetics, perfumes, hygiene products, body care products, household chemicals, accessories and household goods. At the end of 2019, the chain, founded in 2002 in Dnipro, consisted of just under 1,000 stores and offered customers more than 30,000 items, including 40 own-brand lines. The company has more than 11,000 employees. More than 8 million people are regular customers of EVA stores and also members of the EVA Mosaic loyalty program.

According to EVA's development plan, in 2020, 150 new stores are set to open, and the number of warehouses should increase from four to six with a simultaneous increase in the available space by almost a quarter. The company is prioritizing the fast expansion of e-commerce, and by the end of the year, the estimated number of stock-keeping units (SKUs) for the online segment is set to reach 150,000, and for the offline segment reach 40,000 units. According to calculations, during this period, 350,000 orders will be picked per day at the distribution centers.

To support this rapid growth, the EVA chain needed a new solution. The old system did not provide sufficient backup speed for the corresponding volume of orders, and there were also certain restrictions for owners of business processes. In addition, plans were in the pipeline to create new processes that

could not be implemented by the existing solution. And without the incorporation of modern data collection terminals, it would be difficult to increase the efficiency of business process management.

Therefore, based on the results of a long selection process among the world's leading warehouse management systems, the Infor WMS solution was chosen. The implementation of Infor WMS — and its integration with the corporate ERP system, the Qlever Intralogistics conveyor and equipment management system and the control module — was performed by LT-Management, a major partner of Infor. Currently, 430 employees can simultaneously work in the system, and by the end of the year, the number of users will increase to 680.

The implementation of Infor WMS has led to a four-fold reduction in the number of errors in order picking and a several-fold reduction in the number of complaints — from 0.14% to 0.04% of the total volume of orders. Over the year since the solution was implemented, the enhancement of several business processes has led to a 20% productivity increase in order picking. In addition, the implementation of Infor WMS means that 'paper' technologies, which inevitably reduced the efficiency of the distribution center conveyor system, are no longer used.

"Thanks to the capabilities of Infor WMS and the experience of LT-Management, we were able to implement all the best business practices used in modern distribution centers. We transitioned seamlessly to modern working methods and technologies, and now we can maintain high-growth rates that are not limited by the capabilities of the warehouse system. Despite the industrial status of Infor WMS, this system allows our company to introduce new processes and independently open new warehouses," said Denis Zakora, EVA's warehouse logistics manager.

"The architecture of Infor's warehouse management solutions helps companies seamlessly grow and scale their capacity. In any situation (increasing order volume, product range expansion, increasing number of stores, etc.), the solutions will work stably and reliably, meeting all the requirements of the business," said Dmitry Martynov, Infor's official representative in Russia and the Commonwealth of Independent States (CIS).

"During the implementation of Infor WMS in the distribution centers of the EVA chain, the LT-Management team addressed all the needs of the customer. The company expertly performed the implementation process and integration with corporate systems. As a result, the Infor WMS solution has provided the distribution centers with the all new technical capabilities necessary for their growth," said Oleg Landyshev, project manager of LT-Management.

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The UK's Hartree Centre deploys Atos supercomputer for Coronavirus treatment research
14 April 2020

Atos reveals that one of the most advanced supercomputers in the world, the powerful BullSequana X1000 installed at The Science and Technology Facilities Council (STFC) Hartree Centre, is providing supercomputing power to assist in global computational drug discovery efforts to help combat COVID-19.

The Hartree Centre team is working closely with Washington University School of Medicine who lead the Folding@home project, which allows a global community of contributors to lend unused background capacity on their personal computers to power simulations of target drug interactions. While there is plenty of compute power[1] available to run these simulations, creating the drug structures to be simulated uses complex and memory-intensive methods that requires supercomputers. Creating these drug structures has therefore become the bottleneck in using the vast amount of compute power

available across Folding@home.

By using some of the capability[2] of the Hartree Centre's Atos BullSequana X1000, the team are accelerating this process and creating new drug structures to be simulated fully across Folding@home's distributed compute power.

The Atos BullSequana X1000 systems at Hartree are also being used to support the work of CompBioMed, the European Centre of Excellence in Computational Biomedicine, as part of a global effort which includes hundreds of researchers from across the US and Europe to tackle different aspects of Covid-19. As an interim measure before a vaccine can be produced, pharmaceuticals are needed that can reduce the severity of the disease or that can be used as a preventive measure. This requires thousands of compounds to be screened in the form of advanced simulations, demanding high levels of compute power. The Hartree Centre systems are being used as part of an exceptional array of supercomputers across the world that are being harnessed to undertake these simulations.

Alison Kennedy, Director of the STFC Hartree Centre, said: "We have a hugely powerful supercomputing capability at our disposal here at the Hartree Centre, so our staff were naturally looking for opportunities to contribute to global computational efforts to tackle the COVID-19 pandemic. The way the folding@home project works is to take a possible compound and use computer simulations to see how it interacts with the virus. It's not a way to provide a vaccine, but if suitable antiviral compounds are identified, it could help to treat patients who have contracted the virus, which could help them to get better more quickly and reduce the burden on critical healthcare services."

The team hopes to identify antiviral therapeutics that disrupt one or more of the proteins necessary for the lifecycle of COVID-19, which would help to prevent the further spread of the virus.

Andy Grant, Global VP, Large Strategic HPC Deals, Atos, added: "Whether testing new compounds or performing target drug simulations at speed, analytics supported by super computers are uniquely placed to aid in the search for potential treatments of COVID-19. The UK has consistently been at the forefront of science and medicine and it is pleasing to see this country playing a key role in what has become an enormous coordinated international endeavour."

Atos works with the Hartree Centre, located at Daresbury Laboratory, in support of closer collaboration between academia and industry through the power of supercomputing and deep learning.

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The Woody Group Gears up for the New Decade with Centric
13 April 2020

The market leader for nightwear, underwear and children's pajamas in Belgium has chosen Centric PLM as a long-term solution to empower its teams with greater visibility and bring great products to market faster. Centric Software® provides the most innovative enterprise solutions to fashion, retail, footwear, outdoor, luxury, consumer goods and home décor companies to achieve strategic and operational digital transformation goals.

The Woody Group has more than a quarter of a century's experience in the design, manufacture and distribution of high-quality nightwear, bodywear, swimwear and loungewear for babies, kids and adults through three separate brands: Woody, Lords&Lilies and Manned. Designed in Belgium and manufactured in The Woody Group's own 7000m² plant in Turkey, the brands are primarily sold through more than 350 points of sale in Belgium, the Netherlands and Germany, as well as the company's own online store.

Mehmet Batur, the owner of Woody Group, says the proliferation of different software packages at The Woody Group was hampering internal communications.

"The opportunity to use one common platform is transformational in terms of reliability and flexibility, from concept to retail. Even though we're geographically dispersed with teams in Ghent (Belgium) and Istanbul (Turkey), being able to see every step of the design process in one place really facilitates collaboration."

The Woody Group plans to expand their business by increasing both its number of SKUs and shops. In order to keep up with the accelerated growth, teams need a strong foundation of standardized processes within a digital platform and access to consistent data in real time. Centric Retail PLM will accelerate collaboration and make idea-sharing more efficient between the globally scattered teams.

One of the ways The Woody Group will streamline their processes is by integrating Centric PLM with both of their existing ERP systems (one in Turkey and the other in Belgium), enabling teams to feed the ERPs with accurate BOM data generated within the PLM platform, giving teams maximum visibility. They'll track product development by brand, greatly improving efficiency while responding to market demands faster.

Batur, who was the long-term manufacturer for The Woody Group before acquiring the company three years ago, comments on Centric's position as the PLM market leader. "We explored other companies, but Centric's references from other innovative, globally renowned companies are compelling." Batur was also impressed by Centric PLM's configurability and ease of use, "We want elasticity and flexibility for complicated processes and Centric convinced us how the project is going to be revolutionary for how we do business."

"We're honored that The Woody Group has chosen Centric Software® as their long-term PLM partner," says Chris Groves, President and CEO of Centric Software. "I am confident that our market-leading PLM solution and expertise in the industry will help fuel growth for the nightwear brand and am looking forward to their successful future."

Vodafone Completes European Roll-out of VMware Network Virtual Infrastructure to Accelerate Shift to Digital Network

13 April 2020

Working with VMware, Inc., Vodafone Group has completed the roll-out of network virtual infrastructure (NVI) across all of its European business and 21 markets in total.

Operating a reliable, agile network that can be more efficiently upgraded to maintain the quality of coverage has never been more important as Vodafone customers across Europe rely on the operator to provide critical connectivity and communications services during the COVID-19 crisis.

With the completion of work in Albania, Vodafone now has a single digital network architecture across its European markets, enabling the operator to design, build, test and deploy next generation functions more securely and around 40 percent more quickly*. Infrastructure automation also helps limit the amount of manual intervention required to operate and maintain Vodafone networks.

VMware's telco cloud infrastructure is deployed by Vodafone at more than 57 sites across Europe and 25 in its Africa, Asia and Oceania markets. The cloud-based infrastructure supports voice core, data core and service platforms on over 900 virtual network functions. Almost 50 percent of Vodafone's core network nodes providing voice and data services run on VMware's NVI platform, vCloud NFV.

Johan Wibergh, Chief Technology Officer, Vodafone Group, said: "Vodafone wants to be the industry's leading digital telco and we are pleased with the progress made to introduce modern cloud-based technology and automation. Working with VMware, we have improved the speed and efficiency with which we can support customers and estimate that the cost of our core network functions has been reduced by 50 percent*."

"Leading service providers, like Vodafone, are adopting a telco cloud infrastructure to deliver next-generation applications and services," said Shekar Ayyar, executive vice president and general manager, Telco and Edge Cloud, VMware. "The successful engagement between our two companies is evident in the tremendous results Vodafone has captured since starting on their network transformation journey. We look forward to continuing to innovate together to unlock the transformational benefits of network modernization for Vodafone customers."

VMware's telco cloud platform provides the automation for virtual compute, storage, networking, management and operations capabilities to enable operators to provide virtualized network services. Its transformative capabilities allow communication service providers to accelerate time to market and increase revenue with new services, streamline operations, reduce network infrastructure costs, and deploy elastic business models for telecommunications workloads.

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Product News

Altair Announces Major Update to Panopticon Real-time Data Monitoring and Analysis
16 April 2020

Altair announced a major new release of Panopticon, its comprehensive platform for user-driven monitoring and analysis of real-time trading and market data.

Panopticon now delivers the speed, flexibility, and scalability of a cloud-based solution for data streaming and visualization, further simplifying the deployment and expansion of user-generated content, dashboards, and applications.

Established as an industry leader that supports electronic trading operations in global banks and with asset managers, the enhanced capabilities of Panopticon are also ideally suited to other sectors where real-time monitoring and analysis of high-volume, high-velocity data streams is equally critical. These include operational data analytics applications in manufacturing, logistics, telecoms, oil and gas production, and energy distribution.

"Our clients are some of the most sophisticated users of data analytics systems in the world, and we've been working very closely with them to define the platform's new architecture and capabilities," said Sam Mahalingam, Altair CTO. "With Panopticon, our clients can examine their time series data down to the millisecond – or below – as well as monitor any number of real-time streaming feeds in actionable ways. It's a real-time world, and with Panopticon 2020, we are delivering a 'single pane of glass' view into the complete application lifecycle in the most scalable cloud-ready streaming analytics platform on the market."

For the first time, Panopticon enables users to:

• Manage and permission content, prepare data sources and create interactive dashboards via a sleek UI delivered through standard web browsers
• Seamlessly distribute content across server clusters
• Enjoy improved control of dashboards and workbooks
• Realize a 100-fold improvement in the speed of integration of Python libraries, using Apache Arrow (a cross-language development platform for in-memory data)
• Benefit from faster performance with the time series and tick databases commonly used within capital market firms, including Kx kdb+ and OneTick

Panopticon is available to new and existing customers via Altair's flexible units-based licensing model. For more information visit https://www.altair.com/panopticon.

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Autodesk Extends the Power of Generative Design to Architecture, Engineering and Construction Industries

17 April 2020

For years, Autodesk has collaborated with globally-recognized companies like Airbus, Volkswagen Group and others to explore the possibilities of generative design, helping them to leverage this technology to tackle complex design dilemmas and embrace a more sustainable approach to manufacturing. But what if the speed and scale of this technology could be leveraged similarly outside of the manufacturing space – by architects, engineers and contractors alike?

Throughout the project delivery lifecycle of a building, architects, engineers and contractors experience and solve for a myriad of universal challenges. Each challenge – ranging from seemingly simple to complex – has the potential to trigger tedious, time-consuming and cost-intensive rounds of revisions. At Autodesk, we dedicate a significant amount of time developing and delivering solutions to those challenges, and we do it in collaboration with you, our customers.

Introducing: Generative Design in Autodesk Revit 2021.

Building on our years of generative design experience in manufacturing, Autodesk is excited to announce the expansion of Autodesk Revit to now include the capabilities and benefits of generative design technology for the architecture, engineering and construction industries. This new feature is available with the release of Revit 2021 within the Architecture, Engineering and Construction Collection (AEC Collection), allowing users to explore, optimize and evaluate data-driven design alternatives based on project goals, constraints and inputs.

With the introduction of Generative Design in Revit, industry professionals can harness its algorithmic problem-solving technology to explore design alternatives, identify improved outcomes and make data-informed decisions faster than ever before.

By engaging with generative design tools directly in Revit, designers can generate optimal solutions for a goal, problem or constraint within a matter of minutes. These design options are presented in a visual format for easy exploration, as well as responsive result graphs with sorting, selection and filtering capabilities.

Generative Design in Revit offers key customizable use cases including Workspace Layout, Maximize Window Views and Workspace Layout.

Nicolas Mangon, vice president of Autodesk AEC Business Strategy puts it this way: "With the launch of Generative Design in Revit, we're accelerating the design process and enabling AEC Collection users to explore design solutions for any given project, faster than ever before. Leveraging generative design capabilities, our customers may now be more confident in the design decisions they are making, optimize workflows and have more productive conversations with project stakeholders."

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Hexagon ICME solution doubles the pace of engineering innovation

16 April 2020

e-Xstream engineering, part of Hexagon's Manufacturing Intelligence division, has unveiled a new 10X Integrated Computational Material Engineering (ICME) Solution that applies academic research with leading software and inspection solutions to dramatically accelerate innovation using by enabling manufacturers to design, engineer and test components virtually through simulation.

Integrated Computational Material Engineering (ICME) is an emerging technique that ensures optimal combination of materials and manufacturing processes to innovate and maximize performance, resulting in reduced costs and lead time.

10X ICME from Hexagon offers the industry the most complete and integrated solution portfolio to leverage the full potential of ICME. It is the first industrialised solution to apply ICME so that companies can exploit the ideal combination of materials with manufacturing processes to innovate and maximize performance, while also reducing cost and product lead time. By integrating design, engineering and testing, manufacturers can make informed choices early in product development to improve quality or reduce waste and also harness data to devise more efficient, connected design and engineering workflows.

ICME enables advanced materials such as carbon fibre composites to be selected and applied to their full potential by improving the accuracy of, and trust in, material simulations with better data and modelling. Using 10X ICME, it is now possible to predict how combinations of advanced materials such as composites and manufacturing methods from injection moulding to 3D printing will affect everything from the speed to the sustainability of future aircraft and cars. It reduces the amount of materials testing required and correlates measurement with simulation so manufacturers can more easily validate simulations. In addition, because materials data is made readily available, engineers can apply accurate values to make optimal designs rather than relying on approximations.

The digital integration of end-to-end supply chains will also cut material waste by significantly reducing dependence on extensive real-world prototyping and over-design. A single material-centric 'digital twin' of the entire manufacturing line from material development to final part performance will enable organisations to predict the performance of end products at concept stage. It also presents opportunities for data-driven customisation of advanced materials for specific purposes such as recyclability or energy-efficiency.

10X ICME significantly lower barriers to innovation by enabling ground-breaking new technologies such as lightweight blended wing airliners or ultra-quiet electric vehicles to be developed much faster than today. The solution is already being used by a major aerospace and automotive original equipment manufacturers (OEMs) to significantly accelerate the rate at which new designs can be brought from concept to reality. Initial customer projects using this new approach are being completed in half the time and at a third of the cost.

There are 10 pillars within the 10X ICME solution, which combine the different ICME technologies

from the ecosystem to address specific use cases. Manufacturers can choose the pillars most pertinent to them today and mould their solution to their needs as the disciplines and processes derive value from evolve.

Developed in close collaboration with Original Equipment Manufacturers (OEMs) and material suppliers to address their industrial needs, 10x ICME draws on cutting-edge material science research, Hexagon's metrology, software and e-Xstream engineering material simulation technologies and a growing industrial partner ecosystem. It integrates the supply chain of materials suppliers, software tools, manufacturing equipment and metrology to make the best possible use of data and enable real-world implementation for many manufacturing environments

Prof. Camanho, University of Porto commented: "Solving the conundrum of how to satisfy demand for global air travel while reducing aviation emissions will require huge and rapid technological change. Creating incredibly lightweight, low-carbon and more electric aircraft will require novel materials and manufacturing methods. If these could be created, engineered and tested in virtual simulation, it would accelerate the pace at which the industry changes to a more sustainable model."

Dr. Jan-Anders Mansson, Distinguished Professor of Materials & Chemical Engineering, Purdue University said: "We have been working with Hexagon and e-Xstream to integrate cutting-edge metrology, digital technology and material science, which is merged in our manufacturing testbed with Hexagon's state-of-the-art hardware and software for Smart Factory solutions. The aim now is to develop a digital parallel of the whole end-to-end journey from design to manufacturing. We'll be able to zoom in and out from a macro to micro level from line production to individual cell production."

Roger Assaker, CEO, e-Xstream engineering, said: "Bringing together OEMs, Universities, materials suppliers and technology partners in a business-driven ecosystem has enabled us to develop the unique, end-to-end 10X ICME solution that has already helped early adopters complete projects in half the time and at a third of the cost. We believe connecting materials insights to engineering will accelerate the Fourth Industrial Revolution, enabling new products to be made efficient, safe and sustainable before the first prototype is even built."

Guillaume Boisot, Head of Business Development, e-Xstream engineering commented: "ICME will enable automotive manufacturers to optimise the use of composites within their design processes, enabling lighter and more efficient vehicles designs and material-centric innovation for new mobility solutions. Looking at existing vehicle designs alone, optimising how composites are used will save manufacturers an average 22.5kg material waste per vehicle – that's 2.1 million tonnes less composites used in new cars a year globally, so there's a huge opportunity reduce waste and enable more efficient transport."

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New version of Hexagon's 3D Form Inspect for machine tools with enhanced tolerance and reporting functions

13 April 2020

The new 3D Form Inspect version 2.8 SR2 for machine tools allows users to deploy measurement data for statistical evaluations in Q-DAS, includes new extended reporting functions and enhances the setting of standard and individual tolerances.

Uniquely flexible, functional and easy-to-use, 3D Form Inspect from Hexagon's Manufacturing

Intelligence division is a market-leading software for machine tool measurement. It allows manufacturers to quickly measure and record ruled geometries and forms on all sides of a part with all axes of a machine tool. Popular features include Best-Fit for automatically aligning parts on machines, as well as patented calibration strategies. And Hexagon's investment in developing new capabilities ensures manufacturers can rely on 3D Form Inspect to help them adapt to changing market requirements.

Extended tolerance functions
The latest enhancements to 3D Form Inspect help manufacturers meet the growing demand for machined parts that attain the ISO2768 standard for production tolerances. With 3D Form Inspect users can inspect for ISO2768 tolerances with a single click, including individual tolerances for single measurement points, and publish results in the measurement report.

New reporting functions
Users of 3D Form Inspect value its clear measurement reports and the ability to adjust its design and data formats. In the latest version, deviation bars can be included for each value, clearly showing if the measured point is within tolerance.

Some production environments require parts to be measured both on the machine tool and on a coordinate measuring machine. 3D Form Inspect now makes it simple to compare measurement reports from machine tools and from CMMs that use PC-DMIS software, by displaying results from both software systems in a similar format.

Design of elements out of measurement objects
Many users need to determine elements, dimensions or distances that cannot be directly measured.

3D Form Inspect enables them to do so by generating lines or axes between two measurement objects, such as a bore or a cylinder, and determining the distances or angles. This is especially important when producing gears and powertrains, where the distances between axes are an extremely relevant indication of quality.

Q-DAS exports for statistical evaluation of measurement results
Measurement results are an important source of information about how to improve mid- and long-term production quality. 3D Form Inspect now enables manufacturers to undertake in-depth analysis by exporting machine tool measurement data for further processing by Q-DAS Statistical software.

Available on OPS eroding machines
In line with growing demand, 3D Form Inspect can now be installed on eroding machines from the manufacturer OPS. The software is compatible with Andronik 360 and System 1 controls.

The new 2.8 SR2 version of 3D Form Inspect is available immediately. Existing holders of a 3D Form Inspect software maintenance agreement will receive the update and training without additional fees.

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PTC Launches Creo 7.0 with Powerful Enhancements for Generative Design and Simulation-Driven

Design

15 April 2020

PTC has launched the next generation of its Creo® 3D computer-aided design (CAD) software, Creo 7.0. The software's new capabilities put the power of artificial intelligence (AI) at designers' fingertips, making simulation a seamless part of daily work.

"As a long-time Creo customer, we were excited to get early access to Creo 7.0," said Adrian Marshall, manager of computer-aided design in product development, Royal Enfield. "Creo has helped us revolutionize the way we develop, produce, and maintain our motorcycles. We are sure that Creo will continue to benefit our design process and enable us to deliver the best possible customer ownership experience."

To satisfy CAD consumers' most common use cases, PTC incorporated the following capabilities into the next-generation product:

Generative Design: Incorporating Frustum® generative design technology, Creo 7.0 enables designers to leverage the power of AI to quickly produce optimized designs based on their engineering requirements and manufacturing constraints.

Simulation-Driven Design: Expanding upon PTC's strategic alliance with Ansys, Creo 7.0 introduces fluid flow analysis in Creo Simulation Live – a comprehensive, real-time simulation solution that allows designers to iterate faster, and design with more confidence.

Multibody Design: Creo 7.0 introduces multibody design, a new set of design tools that enables users to complete many design tasks more efficiently while making their part design easier to manage, understand, and modify.

Additive Manufacturing: Creo 7.0 provides enhanced additive manufacturing capabilities, including improved support for Stochastic and custom lattices, giving designers greater flexibility when creating lattice structures.

Core Product Enhancements: As with every release, Creo 7.0 provides additional usability and productivity capabilities for all users, including enhanced draft capabilities, improvements to 2D mirror functionality, and multiple user interface improvements to the Sketcher™ tool.

Creo helps designers build better products faster by facilitating product innovation, fostering design reuse, and replacing assumptions with facts. Designers can go from the earliest phases of product design to a smart, connected product all within a single environment.

"Creo 7.0 is one of our most innovation-rich releases yet, allowing customers to leverage Frustum's amazing generative design technology and an enhanced Ansys-powered Creo Simulation Live with real-time fluid-flow analysis," said Brian Thompson, divisional vice president and general manager, CAD, PTC. "Creo 7.0 makes emerging technology a part of our customers' everyday design workflows, helping to transform their digital product development processes."

The Creo 7.0 launch follows PTC's recent acquisition of Onshape, developer of the Onshape® Software-as-a-Service (SaaS) product development platform, demonstrating the company's deep commitment to providing innovative technology – via multiple delivery models – to drive business value.

Creo 7.0 is now available worldwide.

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SAP Makes Support Experience Even Smarter with Machine Learning and AI Enhancements

16 April 2020

SAP SE announced several updates, including the Schedule a Manager and Ask an Expert Peer services, to its Next-Generation Support approach focused on the customer support experience and enabling customer success.

Based on artificial intelligence (AI) and machine learning technologies, SAP has further developed existing functionalities with new, automated capabilities such as the Incident Solution Matching service and automatic translation.

"When it comes to customer support, we've seen great success in flipping the customer engagement model by leveraging AI and machine learning technologies across our product support functionalities and solutions," said Andreas Heckmann, head of Customer Solution Support and Innovation and executive vice president, SAP. "To simplify and enhance the customer experience through our award-winning support channels, we're making huge steps towards our goal of meeting customer's needs by anticipating what they may need before it even occurs."

AI and machine learning technologies are key to improving and simplifying the customer support experience. They continue to play an important role in expanding Next-Generation Support to help SAP deliver maximum business outcomes for customers. SAP has expanded its offerings by adding new features to existing services, for example:

Incident Solution Matching service: With expanded AI-based functionalities, customers can see the impact on machine learning models and the impact on suggested results, making them more relevant. This enables customers to explore more relevant solutions for their incident in SAP's knowledge base.

Incident Solution Matching, now also available for SAP Ariba solutions: The Incident Solution Matching service is available to customers of SAP Ariba solutions and partners in the "Help Center" for SAP Ariba solutions and "Connect" for SAP Ariba solutions. Through this extended service, SAP Ariba customers can find answers to technical questions faster, possibly solving a problem without having to record an incident.

Automatic translation: With neural machine translation and AI technology to process entire sentences and phrases, this automatic translation feature for the SAP Notes and the SAP Knowledge Base Article services has been expanded to include nine major-market languages. They are Japanese, Brazilian Portuguese, simplified Chinese, Spanish, French, Russian, Korean, Italian, and German. Intelligent technologies from SAP use machine learning and feedback to refine translations of SAP software and service documentation and terminology on an on-going basis.

Customers expect their issues to be resolved quickly, and SAP strives toward a consistent line of communication across all support channels, including real-time options. SAP continues to improve, innovate and extend live support for technical issues by connecting directly with customers to provide a personal customer experience. Building on top of live support services, such as Expert Chat and Schedule an Expert, SAP has made significant strides in upgrading its real-time support channels. For example, it now offers the Schedule a Manager service and a peer-to-peer collaboration channel through the Ask an Expert Peer service.

Schedule a Manager: Following a successful pilot phase in 2019, SAP launched Schedule a Manager, available through the SAP ONE Support Launchpad. This new support channel allows customers to speak at no extra cost directly to the relevant product support manager to assist them with high-priority incidents that risk impeding the company's ability to fulfill its business requirements. With the addition

of Schedule a Manager, SAP has created a holistic approach to connect with customers through real-time channels.

Ask an Expert Peer: After a successful pilot phase last year, Ask an Expert Peer has been made available for all customers of SAP SuccessFactors solutions. Ask an Expert Peer is a peer-to-peer collaboration platform that connects qualified SAP customer experts with other customers to help them resolve their issues.

By continuing to invest in AI and machine learning–based technologies, SAP enables more efficient support processes for customers while providing the foundation for predictive support functionalities and superior customer support experiences.

Customers can learn more about the Next-Generation Support approach through the Product Support Accreditation program, available to SAP customers and partners at no additional cost. Customers can be empowered to get the best out of SAP's product support tools and the Next-Generation Support approach.

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TOPSOLID SAS announces the release of the new version of TopSolid 2020 (v7.14).
15 April 2020

TopSolid 7 is the most integrated CAD/CAM software on the market, with an intuitive interface and an integrated and transparent PDM. All its applications are fully compatible with each other and communicate associatively. TopSolid 7 covers all the needs of the market in general mechanics, tooling, machining, sheet metal processing and metalworking.

TopSolid'Design 2020 has been enriched with more than 100 new features including:

A new "Work" document which allows you to prepare and execute multiple tasks (bills of materials, drafting, unfolded parts, machining programs, etc.). This concept is integrated into the kernel and common to all other applications. The "Work" document allows a significant gain in productivity when generating the technical documentation of a project.

An innovative and automated mechanism to identify parts and assemblies to be produced. TopSolid 2020 calculates and assigns manufacturing and mounting indexes to each part of an assembly and maintains this information throughout the design process.

A new and innovative concept of "workspace" which allows the optimization of collaborative work on large assemblies.

A new standard translator to FBX format which allows you to export your projects to the main Virtual Reality (VR) software on the market.

IFC import and export translators which allow you to interact efficiently with the BIM (Building Information Modeling) environment.

TopSolid'Design 2020 further improves the recovery and processing of PMI (Product and Manufacturing Information) from various native formats.

TopSolid'Design 2020 introduces an essential innovation: Manufacturing Features (MFs). These are entities that keep manufacturing information from the design stage. MFs are carried throughout the design cycle and up to the manufacturing stage where they allow you to automate the programming of your parts.

TopSolid'Cam 2020 has also been enriched with more than 100 new features including:

BoostMilling: a new high-performance machining algorithm wherein which the calculation of toolpaths is extremely fast and the gain in productivity is increased by a factor of up to 70%. The tools are preserved and the efforts on the machine are limited.

To optimize productivity, TopSolid'Cam 2020 extends the use of the Roll-in approach.

The use of Manufacturing Features (MF) makes it possible to automate the machining of holes and pockets of parts designed with TopSolid.

For 5-axis machining, TopSolid'Cam 2020 introduces a new blisk machining command and a more powerful 5-axis roughing command.

TopSolid'Cam 2020 takes SwissTurn machining one step further by allowing the simulation of simultaneous operations and synchronization. The simulation supports real-time collision management and stock updates. Programming SwissTurn machines has never been so safe!

TopSolid'Mold 2020 integrates numerous improvements to increase productivity. It is now simpler and more visual to create complex parting surfaces.

The efficiency of the cooling circuits can be visually monitored so that the risk areas can be anticipated.

TopSolid'Mold 2020 completely automates the electrode machining process with the help of the "Work" document. The "Work" document integrates the automatic positioning of the parts on the machine, the generation of toolpaths, as well as the generation of the ISO code and the shop floor documents.

TopSolid'Progress 2020 provides more detailed drawing layouts, automation of the machining of input points, as well as more complete and configurable drilling tables.

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Tukatech Introduces First Virtual Digitizing and Home Printing System

17 April 2020

ukatech announced the first ever virtual digitizing and home plotting/printing system to the apparel industry. These new features, accessible through TUKAcad subscription, allow users to digitize patterns on any flat screen and print them in the comfort of their home, no need for a clunky station with large digitizing and plotting equipment.

Users can access the Virtual Digitizer in TUKAdesign (pattern making and grading system) to trace physical patterns using a flat screen monitor in place of a digitizing board. Digital photos or scans of patterns can also be imported for a more flexible workspace.

Plotting is now possible with any home printer. The new printing tool breaks the pattern pieces across a grid of standard-sized pages. A simple layout guide shows where to join the pages, at which point the pattern pieces can be cut out with scissors.

"As people continue to work from home due to COVID-19, these new features become significant for designers and pattern makers. They can easily equip themselves with a complete end-to-end solution without the bulk. One CAD system, a monitor and a printer are all you need" says Sean Kim, Director of Technical Services at Tukatech.

Earlier in January, Tukatech disrupted the industry with the first ever Automatic Pattern Making solution, TUKA-APM. With TUKA-APM, a person of any skill level can complete a graded pattern in seconds. "Since the start of Tukatech in 1995, my focus has and remains to simplify the product development process. Tukatech is known to be the innovators of fashion technology and the first to introduce many new features and solutions." says Ram Sareen, Founder and CEO of Tukatech. "The

virtual digitizer and home plotting features not only simplify the process but put less strain on those strapped with cash who do not have a digitizer or a plotter in their current budget. This is an affordable and quality option for home businesses to help run their business." continues Sareen.

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