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CIMdata News

CIMdata to Host a Free Webinar on Generative Design

14 May 2019

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces an upcoming free educational webinar, “Beyond Generative Design: A New Paradigm for Product Development.” The webinar will take place on Thursday, June 13, 2019, at 11:00 a.m. (EDT) and will last for one hour.

Ideas for Generative Design, including topology optimization, were developed in the 1980s but did not fully take root. The evolution of additive manufacturing has sparked new interest, helping users to produce objects not manufacturable by traditional methods. We are evolving to Generative Engineering (or Human-Assisted Design) by leveraging the astounding improvements in computer and software capability to create an environment that will revolutionize not only product engineering and development, but the entire lifecycle. This webinar will offer a vision for how technologies such as Generative Design, Simulation & Analysis, Big Data Analytics, Advanced Materials, and Robust Design will converge to an Augmented Intelligence environment that will dramatically change product development over the PLM lifecycle.

This webinar will help attendees:

- Find out what generative design is and why it is so important.
- Learn about the technologies that will enable it.
- Learn more about who should use these tools.
- Understand what a company should plan to do about it, for example what organizational and process changes are required.
- Learn that while Additive Manufacturing is a great enabler, it is not required for an effective Generative Design capability.

According to Dr. Keith Meintjes, CIMdata Fellow, and the host for this webinar, “For millennia, the only way to develop a product was to build and test it. Generative Design, underpinned by simulation,

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promises to turn that paradigm inside out, by giving us feasible and novel designs that conform to the design space and meet the requirements. I strongly believe this will revolutionize product development.”

Dr. Meintjes has over 35 years of experience in the development and application of simulation tools to transform product development. His achievements include novel methods for combustion simulation, patents for engine design, and strategic planning for the world’s largest commercial HPC facility. Prior to joining CIMdata, he spent nearly 30 years at General Motors where he was responsible for the engineering requirements for GM’s Global CAE IT infrastructure and was named Senior Technical Fellow. At GM Powertrain he held strategic, planning, and management positions, to embed simulation tools in the powertrain product development process. Earlier, at the GM Research Laboratories, he developed thermodynamic and CFD simulation models for engine performance and combustion and was instrumental in GM’s acquisition of a Cray supercomputer.

This webinar will be useful to a wide audience including product development engineering managers, product design architects, CAE (simulation) managers and engineers, solution providers, and anyone interested in learning more about generative design.

During the webinar attendees will have the opportunity to ask questions about the topics discussed. To find out more, visit: <https://www.cimdata.com/en/education/educational-webinars/beyond-generative-design>. To register for this webinar please visit: <https://register.gotowebinar.com/register/9115168391512578817>

About CIMdata

CIMdata, a leading independent worldwide firm, provides strategic management consulting to maximize an enterprise’s ability to design and deliver innovative products and services through the application of Product Lifecycle Management (PLM) solutions. Since its founding in 1983, CIMdata has delivered world-class knowledge, expertise, and best-practice methods on PLM solutions. These solutions incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

CIMdata works with both industrial organizations and providers of technologies and services seeking competitive advantage in the global economy. In addition to consulting, CIMdata conducts research, provides PLM-focused subscription services, and produces several commercial publications. The company also provides industry education through PLM certificate programs, seminars, and conferences worldwide. CIMdata serves clients around the world from offices in North America, Europe, and Asia-Pacific. To learn more about CIMdata’s services, visit our website at www.CIMdata.com, follow us on Twitter: <http://twitter.com/CIMdataPLMNews>, or contact CIMdata at: 3909 Research Park Drive, Ann Arbor, MI 48108, USA, Tel: +1 734.668.9922. Fax: +1 734.668.1957; or at Oogststraat 20, 6004 CV Weert, The Netherlands, Tel: +31 (0) 495.533.666.

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Vertex Software Breaks Collaboration Barriers (CIMdata Commentary)

15 May 2019

Key takeaways:

- *Vertex Software enters the Collaboration market to share product data across the extended*

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enterprise.

- *The Vertex solution exploits cloud technology to deliver high speed rendering and BOM structure breaking free of device and scaling dependence.*

Vertex Software LLC, located in Ames, Iowa, was founded in 2017 with a goal “to transform how people and companies share and collaborate with 3D product data across the extended enterprise.” The founders have already distinguished themselves as innovators in manufacturing visualization in their prior years with EAI (Engineering Animation Inc.), the root visualization technology acquired by what is now Siemens PLM Software, supporting the well-established JT format. In the years that followed, the principles of EAI were drawn to applications in cloud technology. They now bring together both capabilities in a cloud-based visualization solution for an elevated user experience and improved performance collaborating outside of engineering. CIMdata has long been a proponent of the original EAI implementation and even today is a strong advocate of the JT format.

Vertex Software targets discrete manufacturing companies, not to displace their existing collaboration tools, but rather to “extend the value of their investment” and break down communication barriers as companies share engineering data with non-engineering product stakeholders. Two of the biggest barriers faced by product manufacturing companies as they share their product data outside of engineering are the typically slow performance of displaying very large CAD data files and the exposure of their intellectual property (IP). Vertex Software leverages the compute power of the cloud to bust through performance issues and they do so without the need to make use of graphic processing units (GPUs) which would otherwise drive up the cost. Data is streamed from the cloud to the user’s device so no actual CAD database data is exposed, protecting the company’s IP. CIMdata recognizes the difficulty in having product stakeholders outside of engineering wait patiently for the slow display of very large product models. The Vertex cloud implementation is a welcome respite.

By being cloud enabled, the Vertex software is device agnostic providing access through a web browser without the need to download and install client software.

Collaboration Capabilities

While a relatively new software tool, Vertex Software supports the majority of expected capabilities from a more mature collaboration application. The Vertex solution supports numerous data formats for input including JT and STEP. In addition to providing the standard actions of pan, zoom, and rotate, the 3D viewer displays the bill of material (BOM) structure of the product model, and users can select data items in either the BOM structure or the graphics display window and see the selection highlighted in the other. The display of individual components can be toggled on and off within the product assembly.

Users can take “snapshots” of the model in a specified view along with annotations. The comments can be pinned to the surface of the model allowing others to respond with clarity.

¹ See <https://www.vertexvis.com/>

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Figure 1—Vertex Snapshot with Pin and Comment
(Courtesy of Vertex Software)

Further, the Vertex Software provides a capability for the user to create a “story,” which is a packaged sequence of snapshots that can be used to illustrate an issue or area of interest between collaboration partners. Users can see the story in static 2D form even without a Vertex license. With a license, the story snapshots are full 3D.

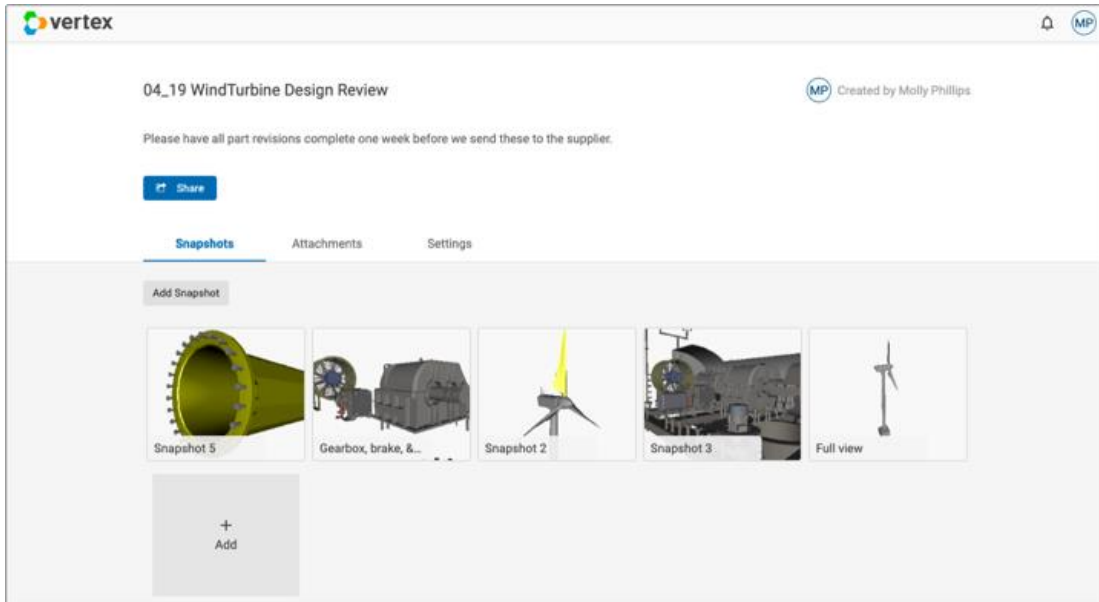


Figure 2—Vertex Story
(Courtesy of Vertex Software)

Users can securely share stories with collaborators through the Vertex platform. Vertex allows the user to control their exports through quick reductions in BOM visibility and confidently share stories on their highly-secure cloud environment (hosted by Amazon Web Services). Collaborators can export models from the story’s snapshots and use the exported data as reference geometry to review and propose

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updates back to their collaborator through the Vertex story. This provides a secure, controllable method to close the loop on collaboration.

CIMdata believes that for any discrete manufacturing company who has the need to collaborate outside of engineering, the Vertex solution offers an appealing choice. It is especially true if the company deals with very large 3D models that can take an inordinate amount of time to display using standard PLM collaboration tools. The Vertex Software solution breaks through those barriers.

About CIMdata

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Acquisitions

Bentley Systems Announces the Acquisition of Keynetix, Provider of Geotechnical Data Management Cloud Services

13 May 2019

Bentley Systems, Incorporated, a leading global provider of comprehensive software and digital twins services for advancing the design, construction, and operations of infrastructure, announced the acquisition of *Keynetix*, a UK-headquartered provider of cloud-based software for capturing, visualizing, modeling, and sharing of geotechnical data. The addition of *Keynetix* software expands Bentley's geotechnical offerings and accelerates Bentley's vision of enabling subsurface digital twins for infrastructure projects and assets.

Subsurface digital twins can be vital for assessing and managing risks in infrastructure projects, and to the planning, design, construction and operations of infrastructure assets. The creation and curation of subsurface digital twins involves modeling the underground environment (geology, hydrology, chemistry, and engineering properties, and the underground infrastructure), and utility networks, structures, and tunnels – and then analyzing and simulating the subsurface behavior. Supplementing borehole reports managed by Bentley's *gINT* software, *Keynetix*'s cloud-based geotechnical knowledge management system captures and manages underground environment information for Bentley's geotechnical analysis applications, *PLAXIS* and *SoilVision*.

Mark Bevan, associate director, ground investigation data systems for UK-based Structural Soils, Ltd., a

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member of the RSK Group Ltd., said, “Bentley’s gINT and Keynetix’s *HoleBASE* software platforms are core, business critical tools within our ground investigation (GI) businesses, and have been so for more than 20 years. The acquisition of Keynetix’s modern and innovative software into the Bentley portfolio, alongside the mature and proven gINT platform, is a breath-taking and exciting landmark moment within the GI digital landscape. The rapidly growing Bentley geotechnical platform is helping to maximize the potential positives of the digital shift we are experiencing within the GI workplace. Ground investigation is truly going digital.”

Bob Mankowski, vice president and business unit executive of digital cities for Bentley Systems, said, “Infrastructure professionals know that the geologic, hydrologic, chemical and engineering properties of a potential project site, and the infrastructure assets buried beneath the soil, roads, and other structures represent some of the greatest risks to infrastructure project safety, budgets, and schedules. Having a subsurface digital twin – a 3D representation of the subsurface coupled with models to analyze and simulate behavior – will be immensely valuable in all phases of the asset lifecycle. The Keynetix team and their technology bring decades of experience and cutting-edge cloud services to Bentley’s already strong geotechnical portfolio – gINT, PLAXIS, and SoilVision – and will accelerate the progress of our vision for subsurface digital twins.”

Roger Chandler, managing director of Keynetix, said, “Today’s announcement provides our team, customers, and partners with a once-in-a-lifetime opportunity to advance digital engineering in the geotechnical industry. At Keynetix, our mission has always been to make geotechnical data more broadly accessible and valuable. Today’s announcement will truly open up geotechnical data collaboration across Bentley, Autodesk, and other platforms.”

Greg Bentley, CEO for Bentley Systems, said, “My colleagues and I welcome our new teammates from Keynetix, led by principals Roger Chandler, Gary Morin, and Carl Grice, who for many years have envisioned the potential and necessity of geotechnical and geoenvironmental data management to enable better designs and more successful projects. The geotechnical and infrastructure professions will benefit from their continued and expanded leadership, now within Bentley Systems!”

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Epic and Twinmotion join forces to offer easy, high-quality real-time visualization

14 May 2019

Announced on the Unreal Engine blog:

We’re excited to announce that Epic Games and Twinmotion have joined forces! Powered by Unreal Engine, Twinmotion, a high-quality, easy-to-use real-time visualization solution, is now part of the Epic family. And the best news? Our new version of Twinmotion is absolutely free to download and use for all customers until November 2019.

Twinmotion makes compelling design visualization easy! Whether you’re in the architecture, construction, urban planning, or landscaping industry, its highly intuitive interface enables you to assign PBR materials, set up lighting, and even choose the season and the weather with just a few clicks. Populate your scene from a library of ready-to-use assets, including animated characters, and trees whose foliage blows in the wind. With as few as two clicks, you can create paths of walking people or

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moving cars, and then vary their appearance to suit your scene.

If you're a Revit or ARCHICAD user, life is even easier; you can take advantage of our one-click direct synchronization functionality to convert your scenes in the blink of an eye. We also support FBX, SKP, C4D, and OBJ files.

Once you've prepared your scene, Twinmotion makes it effortless to create images, panoramas, standard and 360° videos, and virtual reality experiences, all from the same content.

The new Twinmotion has some differences from Twinmotion 2019, the version previously available from Abvent. Apart from now being free, the latest version offers improved performance, enhanced direct synchronization with Revit and ARCHICAD, and new global illumination glow effects. All users can also now access a shared library for multi-user collaboration—a feature previously only available in Twinmotion Team.

A small number of features have been removed or changed. You can find full details of the differences, and answers to other questions you may have, in our FAQ.

High-quality real-time visualization has never been faster, easier, or more fun. So what are you waiting for? Download Twinmotion and give it a try today. It's absolutely free to download until November 2019, and yours to keep using indefinitely after that.

To see the full post with multimedia, please visit <https://www.unrealengine.com/en-US/blog/epic-twinmotion-join-forces-easy-high-quality-real-time-visualization>

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Wolters Kluwer's ELM Solutions Adds Contract Lifecycle Management to Legal Solutions Offerings through Acquisition of CLM Matrix

13 May 2019

Wolters Kluwer's ELM Solutions has extended its best-in-class portfolio of products and services that help corporate legal and claims departments control costs while increasing revenues and improving productivity by acquiring CLM Matrix, a leading provider of contract lifecycle management (CLM) software. Wolters Kluwer disclosed the acquisition in the First-Quarter 2019 Trading Update.

This acquisition enables Wolters Kluwer to offer a more comprehensive suite of technology solutions to address the growing need of corporate legal operations departments to increase responsibility for, and oversight of, the contracting process.

“As corporations continue to increase demands on their legal operations, our clients require a contract lifecycle management solution that aligns with our current offerings,” said Jonah Paransky, Executive Vice President and General Manager for Wolters Kluwer's ELM Solutions. “We are thrilled to respond to our customers by delivering CLM Matrix' solutions that provide deep contract management expertise, a strong global presence, and intuitive technology to the customer experience that will improve the legal operations workflow.”

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CLM Matrix software, named a “strong performer” in the 2019 Q1 CLM Forrester Wave report, helps companies streamline the contract process. The acquisition adds technology that transforms the way companies manage their contract lifecycle to ELM Solutions’ market-leading portfolio of enterprise legal spend and matter management and legal analytics solutions. CLM Matrix offers a highly customizable, easily implemented, SaaS-based solution that works seamlessly with the Microsoft Office technology platform to automate contract initiation, creation, and negotiation from execution through to expiration. CLM Matrix gives companies insight into key performance metrics that can drive organizational efficiencies and decrease contract cycle times.

ELM Solutions will be at the 2019 Corporate Legal Operations Institute (CLOC) in Las Vegas on May 14-16, in the exhibit hall at booth 4. On May 15, Alyza Tarmohamed, ELM Solutions Senior Director for LegalVIEW® BillAnalyzer, and Scott Fuller, Senior Director of Legal Operations at Applied Materials, will present “Using AI to Super-Charge Invoice Review.” Follow us on LinkedIn and Twitter, or join the conversation using #CLOC2019.

Wolters Kluwer’s ELM Solutions is the market-leading provider of enterprise legal spend and matter management and legal analytics solutions. Corporate legal and insurance claims departments and their law firms worldwide trust our flexible, multi-solution approach to help control costs, collaborate more effectively, and drive better outcomes. This includes Passport®, the highest rated ELM solution in the Hyperion Marketview™ Legal Market Intelligence Report; TyMetrix® 360°, the industry’s leading SaaS-based e-billing and matter management solution; and the LegalVIEW® portfolio of legal analytics solutions based upon the industry’s largest and most comprehensive legal spend database, with more than \$128 billion in invoices.

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ZF to Acquire Software Specialist for Occupant Recognition

13 May 2019

ZF plans to expand its network of cooperations and investments by acquiring 90 percent of the shares in Simi Reality Motion Systems GmbH. The company and its 35 employees have decades of experience in image-based 3D systems for the recording and analysis of human movement. This knowledge is highly valuable in the development of systems for occupant recognition. These systems are a fundamental element for integrated safety in autonomous driving.

The development of new interior concepts for highly automated or autonomous driving include the potential for new seating positions as the driver can hand over responsibility for driving to the vehicle, either in part or in full. To relax during the journey, for example, in future vehicles, the occupant could move their seat back or tilt the seat further than in current vehicle configurations allow. For occupant protection in these non-conventional seating positions, vehicle systems need to be aware of the size, location and position of the occupant.

“One key to the occupant safety of tomorrow is highly efficient systems for occupant recognition,” explains Norbert Kagerer, head of Integrated Safety at ZF. “This is precisely the area in which we would like to become stronger through our investment in Simi Reality Motion Systems, with a view to offering integrated safety systems from a single source.”

ZF’s investment in Simi will expand the competence it already has in occupant safety systems such as

seat belts, airbags and steering wheels. Together with sensor systems for environment and interior recognition and the corresponding software, ZF is the most broadly based supplier in the market for automotive safety technology.

“In the last few decades we have made a name for ourselves as a supplier of first-class image-based 3D software for human movement and behavior analysis,” says Andreas Ruß, founder and managing director of Simi Reality Motion Systems GmbH. “Our current expertise is based on the experience we have gathered in areas such as high-performance sports and medicine. This investment by ZF will now enable us to contribute this knowledge more effectively in the automotive industry, and to benefit much more rapidly from growth opportunities.” Following the acquisition by ZF, Andreas Ruß will be passing on responsibility for the company to his two sons Philipp and Pascal.

Simi Reality Motion Systems was established in Unterschleißheim near Munich in 1992 and currently has around 35 employees, the majority of whom are involved in software development. Simi currently has more than 1,000 systems installed in the market worldwide.

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Company News

68% of Industrial Companies Are Accelerating Deployment of Augmented Reality to Improve Worker Productivity Says New Industry Survey

8 May 2019

PTC announced the release of its 2019 “State of Industrial Innovation” report series. The series provides an ongoing review and analysis of the industrial augmented reality (AR) and industrial internet of things (IIoT) markets.

Among the findings included in the latest “[State of Industrial Augmented Reality](#)” report: AR adoption has become focused on delivering enhanced methods of instruction, guidance, and training for front-line workers, enabling the workforce optimization necessary to address the growing skilled labor shortage the industrial sector faces. According to the “[State of the Industrial Internet of Things](#)” report: IIoT is poised to have a breakout year in 2019 as companies seek to improve operational effectiveness, reduce costs, and decrease risk inherent in the modern competitive landscape. Both reports explore the breadth of the increasingly multifaceted opportunities presented by these markets.

“Organizations in industrial settings realize the urgency in improving productivity and streamlining operations to remain competitive and relevant,” said Jim Heppelmann, president and CEO, PTC. “The insights offered in these reports validate that the adoption of industrial AR and IIoT is an important step toward achieving these goals.”

Highlights from the Report Findings:

The State of Industrial Augmented Reality

- Industrial enterprises are the highest adopters of augmented reality, comprising nearly 60% of the survey responses, with efforts focused on improving worker performance and solving the skilled labor shortage faced by companies worldwide.

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- 55% of use cases aimed at improving worker productivity focus on delivering instructions and guidance primarily within manufacturing, service, and training environments.
- Successful pilots are being moved to production within 12 months at a 20% higher rate, year-over-year, allowing early-movers to capitalize on the competitive advantage.

The State of the Industrial Internet of Things

- IoT is becoming commonplace in heavy-industrial environments, with applications expanding across discrete manufacturing in industrial factories representing over 70% of the survey responses.
- Comprehensive, pre-built IIoT solutions are driving more established use cases, such as operational intelligence (31% of total use cases), as well as emerging use cases, such as predictive maintenance (12%) across manufacturing, operations, and service functions.
- Data processing at the device or “edge-layer” (present in 68% of use cases) is a critical capability for solution providers and there are increasing requirements for the same capabilities at the IoT Gateway (37%) and Cloud (34%) layers.
- Industrial enterprises facing global pressures are seeing the need to quickly deploy IIoT to improve operational effectiveness. 89% of respondents to the 2018 IIoT survey are planning to move to production in the next year, up 6% from 2017.

Leveraging PTC’s 30+ years of technology experience and incorporating data from a cross-section of over 30,000 PTC global customers and 1,000 PTC technology and service partners, PTC’s “State of Industrial Innovation” report series provides a comprehensive view of actionable insights and trends across the industrial ecosystem. To learn more about how industrial AR and IIoT can improve workforce optimization and operational effectiveness, download the “[State of Industrial Augmented Reality](#)” and the “[State of the Industrial Internet of Things](#)” 2019 reports.

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Adopting a circular economy could save billions: Report

15 May 2019

As the world transitions towards a sustainable future, the use of finite resources is in question. The current model of take-make-waste could be replaced by a circular model – a circular economy - that aims to decouple economic activity from the consumption of finite resources, whilst taking waste out of the system.

In its latest research report, The Al-Attiyah Foundation, a non-profit think tank based in Qatar, explores what a circular economy is, how the world is already taking steps in this direction, and how adopting such an approach is aligned with the Qatar National Vision 2030.

H E Abdullah bin Hamad Al Attiyah said: “Moving away from a linear economy model towards a circular economy would reduce pressure on the environment, improve the security of raw materials and ultimately boost economic growth.”

The concept of a ‘circular economy’ is not the latest buzz word for sustainability, it applies thinking that has been around for centuries focused on a methodology for reducing consumption of non-renewable

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resources.

This is, of course, in contrast to a linear economy - which represents most economic models today - that deliver goods to the consumer by simply following the process of take-make-dispose. The circular economy is underpinned by a transition to renewable energy sources, based on three principles: to design out waste and pollution; to keep products and materials in use, and to regenerate natural systems.

Transitioning towards a circular economy can only be achieved through a systemic societal shift in thinking and behaviour. A circular economy model views redundant consumer goods as input, rather than waste, and offers great potential for civilisation to reduce their environmental footprint.

Take the mobile phone as an example; lithium is a key component of the batteries, which is mostly imported from the US. Once discarded, the lithium component could be used to make another mobile phone, rather than being dumped or recycled into something completely new.

Certainly, for this to be successfully adopted, the full production chain of a mobile phone would need to integrate this new approach. Already, there are many projects where reusing/recycling lithium is commonplace, but to reach a complete circular economy model, positive interconnectivity between producers, manufacturers and consumers is key.

In addition, open, transparent, and well-functioning markets for metals, minerals and other natural resources are essential for ensuring access to supply and to safeguard the economic wellbeing of nations worldwide.

Adopting a circular economy makes sense. Moreover, moving towards a circular economy helps policy makers and influencers choose policies that protect and encourage the re-use of finite resources, as well as incentivising businesses and people to adopt this approach.

So how is Qatar, the birthplace of the Al-Attiyah Foundation, faring in this shift towards a more sustainable world?

The launch of the Qatar National Vision 2030 (QNV 2030) in 2008 helped to consolidate the efforts of the State of Qatar to focus on sustainable development. It formed the cornerstone of the implementation of the 2030 Agenda and the subsequent UN Sustainable Development Goals.

It has underpinned Qatar's efforts to build a modern state with sustainable, integrated economic, social and environmental development that leverage the available human and material resources to ensure a better future for all citizens and residents of Qatar. The rights of the future generations would be threatened if the depletion of non-renewable resources were not compensated by the creation of new sources of renewable wealth.

The government of Qatar provides a supportive environment to enable the private sector to launch initiatives that help promote long-term sustainable growth. It is also encouraging to see companies, particularly energy companies, responding well to the efforts of governments in public-private-partnership, to adopt the circular economy model that would ensure that the four pillars of Qatar National Vision 2030 continue to be successfully addressed.

Transitioning to a circular economy does not only amount to adjustments aimed at reducing the negative impacts of the linear economy, but also involves a systemic shift that builds long-term resilience, generates business and economic opportunities, and provides environmental and societal benefits.

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Dassault Aviation: Renewal of four Directors, of Mr. Éric TRAPPIER as Chairman and Chief Executive Officer and of Mr. Loïk SEGALEN as Chief Operating Officer

16 May 2019

The Annual General Meeting of the Shareholders held today has renewed for 4 years Mrs. Lucia SINAPI-THOMAS and Messrs. Charles EDELSTENNE, Olivier DASSAULT and Éric TRAPPIER as Directors.

The Board of Directors held after such General Meeting of the Shareholders, has renewed Mr. Éric TRAPPIER as Chairman and Chief Executive Officer for the duration of his office of Director and Mr. Loïk SEGALEN as Chief Operating Officer for the duration of the Chairman and Chief Executive Officer's office.

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EON Reality Announces Inaugural Classroom 3.0 Campus in the Canary Islands

8 May 2019

EON Reality Inc., together with the Community of Canary Islands, announces the first Classroom 3.0 Campus in Spain.

Focused on technical vocational training solutions, EON Reality's flagship Augmented and Virtual Reality (AVR) Platform will be used to develop training modules in the fields of education, medicine, and tourism. Centered around the vocational training center of CIFP César Manrique in Tenerife, the AVR Platform's intuitive and interconnected nature will be utilized to make training and teaching more efficient and effective than ever before.

Bringing the AVR Platform to the Canary Islands will not only help launch their academic community into the 21st century using the Classroom 3.0 model, but also improve the bottom lines of several local companies and industries. By being the first in their region to adopt AVR technology, I have no doubt that Tenerife will see both immediate and permanent results in how training and teaching are done going forward. We are also proud to announce that the Canary Islands will host the headquarters of EON Reality in Spain, not only because they are the first location in the region to adopt the AVR Platform, but also because of the great tax advantages that the Canary Islands offer to technological companies.

Dan Lejerskar, Founder of EON Reality, said, "The opportunities presented by the AVR Platform have raised both hopes and expectations going forward for Tenerife. Along with the increased efficiency for vocational and medical training, the possibility of becoming a regional hotbed for the AVR industry could provide quite the boom for the populous island's growing technology sector."

"The Canary Islands are ready to embrace the AVR Platform and Classroom 3.0 movement in as many classrooms as possible as soon as possible. We are excited about the future and can't wait to see how AVR technology can help with education across the Canary Islands. We are also very excited to see how our efforts to attract innovative, technological companies to establish in our region is gaining good traction. EON Reality is a fantastic company that we hope will light the way for many others to come," commented Fernando Clavijo Batlle, President of the Canary Islands.

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CIFP César Manrique will begin utilizing the AVR Platform in late 2019, with additional locations and uses possible at a later time.

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How Oracle Won Over Blockchain Bellwether Everledger

14 May 2019

Announced on the Oracle blog:

It's no small thing that Everledger, the pioneer in digital provenance tracking, has embraced Oracle's blockchain technology as its own.

Everledger's blockchain-based platform is trusted by many industries including diamonds, colored gemstones, fine wine, and art. The ability to transparently track the provenance and lifetime journey of assets as they move across global supply chains is especially critical for high value goods. These industries are more susceptible than most to theft, fraud and counterfeit – in the diamond industry alone, fraud events cost the insurance industry millions of dollars a year.

Leanne Kemp, Founder and CEO of Everledger says, “With an increasing consumer consciousness and a vocal demand for transparency, our work is focused on engaging entire business ecosystems to provide consumers the ability to make fully informed purchasing decisions. It is thus key for us to enable the ease of systems interaction and provide value add to our customers.”

According to Kemp, by including Oracle Blockchain Platform in its offering, Everledger can offer its customers more innovative products and solutions, in particular with improved time to market for business intelligence reporting solutions.

“Oracle's comprehensive enterprise-grade offering will open our customers to realizing more from our blockchain-based platform and crystalize value from the data in their own systems,” she says.

Some of the new capabilities of Oracle Blockchain Platform are deemed critical by Everledger in the integration of its blockchain-based platform with customers' existing business and IT systems. As blockchain becomes an important data store in the enterprise, the Oracle Blockchain Platform enables users to capture blockchain transaction history and current state data for analytics as well as integrate it with other data sources.

“Our longstanding goal has been to help customers to manage, protect, analyze and use the world's data for the benefit of all. Being able to work with innovative companies like Everledger is an amazing opportunity. We look forward to helping both the company itself further its innovations in tracking and tracing the authenticity of some of the world's most precious items, but also helping those in the ecosystem link key data sources for wider benefit,” said Frank Xiong, group vice president, Blockchain Product Development, Oracle.

The key elements of note include:

- **Database access** - Data is an integral part of blockchain. With much of the world's data resident in Oracle systems, the use of Oracle Blockchain Platform to seamlessly link to those repositories will enable these same customers to leverage both their existing data stores and data on the Everledger blockchain.

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- **Analytics** - Oracle Blockchain Platform's ability to connect to the rich histories stored in an organisation's existing database means that Everledger can seamlessly enable analytics integration for highly visual interactive dashboards and reports.
- **Monitoring** of network health, transaction rates, and other statistics, and other elements of blockchain administration/configuration, are made easier by enhanced REST APIs, which also simplify integration with existing enterprise IT tools.
- **Out of the box** plug and play capabilities from the Oracle Blockchain Platform makes it not only easy for Everledger to get off the ground, but will also easier for deployment.
- **Developer tools** - Additionally, the query tools for Oracle Blockchain Platform link into things like smart contract support standard SQL-based ledger queries, enabling organisations to leverage the skill sets their developers already have, thereby reducing the complexity of developing chaincode and boosting performance.

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Inbound Logistics Names NGC a Top 100 Logistics IT Provider for the 10th Year

14 May 2019

New Generation Computing, Inc. ("NGC") today announced that Inbound Logistics has named the company a Top 100 Logistics IT Provider for 2019, the 10th year that NGC has been awarded this honor. Inbound Logistics' annual list recognizes solutions from selected providers that are central to solving supply chain, logistics and transportation challenges. This award demonstrates NGC's continued leadership in providing digital supply chain solutions that transform the concept to customer lifecycle for retailers and brand owners.

"Each year, our editors closely evaluate the supply chain technology market to uncover the most innovative providers," said Felecia Stratton, editor, Inbound Logistics. "Out of 400 candidates, we chose NGC based on its groundbreaking work in supply chain digitization, which is a top priority for our readers."

The NGC Andromeda Cloud Platform® enables digital supply chains, allowing retailers and brand owners to achieve the levels of performance and responsiveness necessary to thrive in today's highly competitive retail environment. The Andromeda platform helps all global users collaborate more effectively, optimize lead times and quickly react to changing demand signals to maximize sales and profitability.

"NGC is proud to once again be a part of this year's Top 100 Logistics IT Providers," said Mark Burstein, president, NGC. "This prestigious recognition highlights NGC's success in equipping apparel brands and retailers with Andromeda® digital supply chain solutions that transform the concept to customer lifecycle."

To view a complete list of the Top 100 Logistics IT Providers as well as its interactive Logistics IT Decision Support Tool, visit the [Inbound Logistics website](#).

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Message to CMPIC Community About Founder & President, Steve Easterbrook

15 May 2019

I am reaching out to inform you all that Steve Easterbrook has passed away. Steve was the founder and president of CMPIC, as well as one of our primary instructors.

While Steve is now gone, we at CMPIC are dedicated to ensuring his mission lives on. With our great team of Subject Matter Experts and instructors, we will carry the torch forward and continue to provide the high-quality training and consulting services you have come to expect. As always, I serve as the primary contact for all business matters, so please don't hesitate to reach out to me with any questions or requests.

CMPIC is committed to serving our amazing community of CM professionals, and I know we will make Steve proud as we move forward and continue to dedicate ourselves to the work he loved so much. CMPIC will remain a force for thought leadership regarding all things CM related.

-Kathy Easterbrook, CEO, CMPIC LLC - Configuration Management Process Improvement Center

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NEC and CSC e-Governance Services Form a Strategic Alliance to Deliver Innovative Digital Services for Rural Areas in India

15 May 2019

NEC Corporation has announced that NEC Technologies India (NECTI), a wholly owned subsidiary, and CSC e-Governance Services India Ltd (CSC SPV) have formed a strategic alliance to jointly develop and deliver new digital services to approximately 900 million citizens living in rural areas of India.

As part of this alliance, NECTI has decided to make an equity investment in CSC SPV to become the third-biggest shareholder.

NEC and CSC SPV also created a joint-working group within CSC SPV to develop new, innovative digital services for citizens living in rural areas of India. With more than 470,000 transactions occurring at CSCs across India every day, CSC will be able to launch, refine and tweak the variety and efficiency of services on offer by leveraging NEC's expertise in areas such as AI and data analytics. These AI and data analytics driven initiatives will improve service experience across various sectors, including finance, education and healthcare, among others.

Mr. Takayuki Inaba, Managing Director, NEC Technologies India, said, "As a leading provider of ICT solutions, we are delighted to extend our involvement with CSC SPV to digitally empower residents in rural areas. With this strategic alliance, our innovative technologies will unlock new opportunities and bring additional value to citizens, CSC operators as well as CSC SPV."

Dr. Dinesh Kumar Tyagi, CEO, CSC SPV, said, "The association with NECTI will help in utilising technologies for delivery of various services to citizens, especially those living in rural India. Education, financial inclusion and telemedicine are the areas where innovative technologies can be utilised to improve the quality of life for people living in rural India.

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Nemetschek Group receives the Axia Best Managed Companies Award

10 May 2019

Following a very successful first quarter in 2019, the Nemetschek Group announced another success: the company, one of the top players in the global Architecture, Engineering and Construction (AEC) market, received the 'Axia Best Managed Companies' award' yesterday. With the award and seal of quality, the audit and consulting firm Deloitte, WirtschaftsWoche and BDI are honoring excellently managed medium-sized companies.

Patrik Heider, spokesman of the management board and CFO of the Nemetschek Group, and Stefanie Zimmermann, vice president of Investor Relations at the Nemetschek Group, personally accepted the coveted prize. The award ceremony took place on Thursday evening at the Capitol Theater in Düsseldorf. Jury member Holger Lösch, deputy managing director of the Federation of German Industries e.V., presented the award from the category 'Culture and Commitment'.

"After a very successful year in 2018, we made an excellent start to the year and achieved an exceptionally strong first quarter. This shows that our strategy, our corporate culture and our management structure have set the right course for a successful future," says Patrik Heider, spokesman and CFO of the Nemetschek Group.

"Of course we're very pleased to receive another Axia Award. We are particularly proud of the success in the category 'Culture and Commitment', because as a roof brand with 16 individual, successful and highly specialized medium-sized brands in our portfolio, we have a very complex management team. The award underscores that we all worked together in a team, outstandingly. Thanks are therefore due to all the employees who have contributed to this wonderful success with their dedication and commitment."

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NexTech Partners with The Khronos Group for Future 3D Commerce Standards and Guidelines

8 May 2019

NexTech AR Solutions announced that it joined Khronos, an exploratory group of leading retailers, manufacturers, and technology companies in a groundbreaking collaboration to establish 3D commerce standards and guidelines. The exploratory group was formed by Khronos® Group, an open consortium of leading companies creating advanced 3D standards, at the end of April. Adobe, Deloitte Consulting, Facebook, Google, Microsoft, NVidia, Pinterest, Qualcomm, Samsung and Shopify are among the tech companies participating in the exploratory group.

With 5G's higher speeds consumers will be able to experience real-time renderings creating truly immersive experiences. Once 5G technology is available NexTech is planning to launch a holographic fully volumetric 3D-AR human assistant which can be programmed to be used for eCommerce or for education.

The exploratory group will work together to research the creation of standards and guidelines to produce

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and distribute real-time 3D representations of products so they can be experienced realistically and consistently across all platforms and devices, such as mobile, Web and Augmented Reality (AR) or Virtual Reality (VR) solutions.

“We are excited to join this incredible group of leading companies to help further the creation and adoption of 3D virtual products across a variety of platforms. As 3D visualization technologies become more prevalent, it’s crucial to be able to present these experiences consistently across multiple consumer endpoints like eCommerce websites, apps, in social feeds, and in ad units,” said Evan Gappelberg, CEO of NexTech. “Our diverse tech stack and leadership position in AR e-commerce makes us an ideal member for this group, as we’re able to address a major pain point through our solutions - transforming content from 2D into the 3D-AR e-commerce world. We look forward to collaborating together to solve the industry’s friction points within 3D visualization, and to develop new standards that can shape the future of the technology.”

With 3D poised to grow as a new shopping medium for product manufacturers, retailers and advertising platforms, key players in the industry are now looking at how to scale production and achieve broad distribution for virtual products with optimized industry workflows to minimize costs. Working in collaboration with NexTech on this initiative are leading global retail brands and technology companies including Adobe, Autodesk, Dassault Systèmes, Deloitte Consulting, Facebook, Ferguson Ventures, Google, Houzz, IKEA, JD.com, Lowe’s, Microsoft, NVIDIA, Pinterest, Qualcomm, Samsung, Shopify, Target, ThreeKit, Topline Furniture, Unity Technologies, UX3D, Wayfair, and Williams-Sonoma Inc./Outward.

NexTech’s industry-leading AR solutions empower retail organizations to use AR experiences to reach consumers at various touchpoints, including eCommerce, social media, and ad networks. The company has also enhanced its product offerings for 3D asset creation, making it easier for retailers to turn products into rich AR experiences.

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Siemens introduces revolutionary new validation program to accelerate autonomous vehicle development

15 May 2019

Siemens today introduced the PAVE360™ pre-silicon autonomous validation environment -- a program established to enable and accelerate the development of innovative autonomous vehicle platforms. PAVE360 provides a comprehensive environment for multi-supplier collaboration across the automotive ecosystem for the development of next-generation automotive chips. PAVE360 also extends digital twin simulation beyond processors to include automotive hardware and software sub-systems, full vehicle models, fusion of sensor data, traffic flows and even the simulation of smart cities through which self-driving cars will ultimately travel.

“PAVE360 represents the first output of an innovation process born from the combination of Mentor and Siemens employees, ideas, and technologies two years ago,” said Ravi Subramanian, vice president and general manager of the IC Verification Solutions Division of Mentor, a Siemens business. “PAVE360 from Siemens delivers a comprehensive program to support the deep, cross-ecosystem collaboration necessary for our customers to develop powerful custom silicon and software solutions to power the autonomous vehicles revolution.”

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PAVE360 enables capabilities for full, closed-loop validation of the sensing/decision-making/actuating paradigm at the heart of all automated driving systems. This principle hinges on rigorous pre-silicon validation of deterministic (rules-based) and non-deterministic (AI-based) approaches to safe self-driving in the context of the full digital twin.

Democratizing Automotive IC Design and Development

As advances in processing continue to play an increasingly prominent role in automotive evolution, carmakers are turning to custom silicon designs to deliver the “just right” blends of cost, power, performance and advanced features necessary to enable an autonomous future.

With PAVE360, chip design can be democratized, enabling carmakers, chipmakers, tier one suppliers, software houses and other vendors to collaborate on the development and customization of extraordinarily complex silicon devices for autonomous vehicles. PAVE360 delivers a robust platform for this collaboration, helping to speed chip design and software validation, and enabling the creation of model-specific silicon for the first-generation of self-driving cars.

PAVE360 establishes a design-simulation-emulation solution that scales from individual blocks of a system-on-chip’s (SoC’s) IP, to hardware and software on the SoCs, to vehicle subsystems, and up through deployment of vehicles in smart cities – a true “chip-to-city” approach based on the increasing digitalization of the automotive industry.

"PAVE360 from Siemens enables everyone in the automotive value chain to develop custom SoCs, optimized for the performance, power, safety, thermal and form factor requirements of driver assisted and fully automated vehicles in a completely virtual environment," said Jim McGregor, principal analyst at TIRIAS Research. "PAVE360 is part of a complete, closed-loop simulation solution from Siemens that allows designers to test everything from silicon development to full vehicle validation."

Already on display in the Center for Practical Autonomy Lab in Novi, Michigan, PAVE360 is designed to serve as the industry-standard verification and validation program for modeling solutions in the automated driving ecosystem.

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Sopheon Expands Customer Foothold in Asia

15 May 2019

Sopheon announces the recent award by PTT Global Chemical Public Company Ltd. (GC) to deploy its Accolade Enterprise Innovation Management software out of GC’s head office in Bangkok, Thailand. This is Sopheon’s latest expansion into the Southeast Asia market and represents further expansion of its growing portfolio of chemical-industry customers. Sopheon’s regional partner Prodex Systems – a specialist provider of consulting, training and software implementation services – took lead in developing GC relationship and will lead the implementation of the software.

GC is a diversified and comprehensive petrochemical enterprise that manufactures and distributes upstream, intermediate and downstream petrochemical products to serve as feedstock for downstream industries, including packaging, apparel and electronics. As the petrochemical flagship of the PTT Group, GC is committed to strengthening its position in the chemicals business by combining

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environmentally-friendly innovations with advanced technologies to develop products that improve people's lives.

“In an industry sector as diverse as ours, continual innovation is critical to sustained business success,” said Dr. Chaya Chandavas, Senior Vice President of Science and Innovation for GC. “Given the positive reputation of Accolade among other industry leaders, as well as Sopheon's growing in-market presence here in Asia, we believe that we made a right choice in partnering with the Prodex/Sopheon team to help us bring our new product and process innovations to market more quickly and efficiently than before.”

Accolade is Sopheon's proprietary innovation management software that supports and connects people, systems and information in the daily workstreams across departments and functions. This results in trusted, timely data that drives faster, better and more dynamic decision-making for the world's largest and most complex enterprises. Accolade provides a single source of truth that ensures innovation execution is aligned with an organization's corporate strategies, giving business leaders the visibility and transparency needed to understand the future impacts of today's decisions. Accolade has proven its value to thousands of users globally by reducing costs, increasing portfolio value, reducing time-to-market and boosting product/initiative success.

“We have been patient with our development activities to expand into Asia over the past years and are thrilled to see momentum building as evidenced by the acquisition of significant clients like GC. Prodex did an outstanding job developing and landing this foundational Thailand-based company,” said Sopheon CEO Andy Michuda.

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Telaid and Elo Partner to Help Enterprise Clients Deliver Immersive, Convenient Customer Experiences

15 May 2019

In an effort to offer turnkey interactive solutions, Telaid, a leading technology integrator specializing in multi-site deployments, today announced it has become an Elo Elite Partner. This strategic partnership between Elo, a leading global provider of interactive solutions, and Telaid will give enterprise customers access to turnkey interactive solutions that help them deliver truly immersive customer experiences.


“Telaid is pleased to work in concert with Elo to deliver a variety of turnkey interactive solutions, allowing our enterprise clients to engage their customers with immersive audio, visual and interactive experiences. These solutions are increasingly critical to our businesses in retail, financial services, healthcare and hospitality that want to differentiate their brands and offer their customers the convenience of self-service.” said Scott Patsiga, President of Telaid.

Elo touchscreen systems do more than just deliver content; they integrate seamlessly with payment and loyalty technologies, making it easy for customers to find the merchandise they want and purchase it using their preferred method of payment. Elo “endless aisle” empowers retailers with EMV, NFC, mobile wallet, and loyalty program acceptance, all in one device, reducing requirements for multiple technology devices and related licensing and deployment expenses. The result is fewer lost sales, reduced friction for customers and greater revenue.

Telaid's partnership with Elo allows Telaid to offer its customers best-of-breed products alongside

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enterprise deployment and technology management capabilities across the U.S. Effectively, this gives retailers turnkey access to interactive solutions to meet their business objectives. Together, Telaid and Elo provide that full level of service to deliver a truly immersive customer experience.

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WWF Launches Activation Hub to Help Prevent Global Plastic Waste

15 May 2019

The [global plastic pollution crisis](#) is impacting oceans, communities, wildlife and people at an unprecedented rate, according to the World Wildlife Fund (WWF). While many companies and organizations are [committing to curb plastic pollution](#), some lack a roadmap to follow when implementing these commitments. WWF launched a new activation hub, [“ReSource: Plastic.”](#) to help solve this problem.

WWF estimates as few as 100 companies have the potential to help prevent roughly 10 million metric tons of the [world’s plastic waste pollution](#) through industry, private sector and government collaboration. Even more, this number could triple by inspiring a ripple effect across supply chains and industry sectors, according to WWF.

ReSource: Plastic seeks to tap into this massive potential by helping companies align their large-scale plastic commitments from aspiration to meaningful, measurable action. ReSource will collaborate with industries to ensure a systems-based approach to addressing plastic production, consumption, waste management and recycling as a single system.

“ReSource is designed to identify the concrete changes that will make the biggest impacts in reducing a company’s plastic pollution footprint,” said Nik Sekhran, chief conservation officer of WWF, in a statement. “To get closer to our goal of no plastic in nature will take nothing short of transforming the entire value chain. With ReSource, companies now have access to more advanced tools to maximize, measure and multiply their commitments to make this a reality.”

Six of the world’s leading companies, including Keurig Dr Pepper, McDonald’s, Procter & Gamble, Starbucks, Tetra Pak and The Coca-Cola Company have signed on as principal members.

“Addressing the plastic problem in our oceans, rivers and land is everyone’s responsibility—including the companies that use much of the plastic in the world today. It’s a complex issue with no one-size-fits-all solution, and that’s why we’re so energized by the approach WWF is taking with the ReSource program,” said Virginie Helias, vice president and chief sustainability officer for Procter & Gamble, in a statement. “ReSource will bring a systems approach in partnership with many stakeholders—common metrics, best practices, accountability—that is much needed to accelerate progress on long-term solutions.”

A recent report by WWF, [“No Plastic in Nature: A Practical Guide for Business Engagement.”](#) examines the scope and causes of the plastic waste crisis and lays out a clear and pragmatic guide for businesses to lead the plastics revolution. The guide provided the vision and foundation for the design of ReSource, noted WWF. ReSource will track and publicly report progress on the amount of plastic waste prevented by participants on an annual basis.

“We are proud to join WWF as a principal member of ReSource,” said Francesca DeBiase, McDonald’s

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executive vice president and chief supply chain and sustainability officer, in a statement. “This partnership perfectly aligns with our ambition to use our Scale for Good and work with others to develop thoughtful, scalable solutions that will make a significant impact on the plastic pollution challenge.”

Leading organizations tackling the plastic waste crisis, Ellen MacArthur Foundation(EMF) and Ocean Conservancy, have joined ReSource as thought partners. EMF has already united hundreds of organizations around a set of 2025 targets through the New Plastics Economy Global Commitment. EMF will work closely with WWF to ensure ReSource is aligned with its vision of a [circular economy](#) for plastics and to provide organizations with the tools needed to achieve these targets.

For years, Ocean Conservancy has convened scientists and businesses around solutions to the ocean plastic crisis through its Trash Free Seas Alliance, of which WWF is a member. Ocean Conservancy will help ensure ReSource is informed by deep ocean expertise, particularly as ocean plastic pollution has become a driver for change [toward a circular economy](#).

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Events News

AEC Infosystems Presents AEC NEXT 2019: May 21-23, Anaheim CA

17 May 2019

Graphisoft will be onsite at AEC NEXT 2019 to show attendees an inside look at ARCHICAD.

Three days of education and networking, plus exhibits showcasing the latest solutions and emerging technologies to help make the built environment better.

May 21-23 2019

Anaheim, CA, USA

For more information about AEC NEXT 2019, including registration, please visit <https://events.graphisoft.com/event/aec-next-2019/>

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CONTACT Elements for IoT at Bosch Connected World 2019

14 May 2019

CONTACT Software sets its award-winning CONTACT Elements for IoT platform in the center of this year's Bosch Connected World and underlines its Open Source Engagement. Real-time applications

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show the potential of digital added value in the Internet of Things.

The Bosch Connected World (BCW) is the leading trade fair for the Internet of Things (IoT) and Digital Transformation. On 15 and 16 May 2019, decision-makers, innovators, developers, entrepreneurs and IoT enthusiasts from all over the world will discuss current trends. More than 5,000 participants and 100 exhibitors are expected this year.

As a Gold Partner of this year's BCW, CONTACT Software shows how companies can implement IoT applications in their processes based on CONTACT Elements for IoT. For this CONTACT presents the combination of physical and virtual world using the example of a real beverage filling system in the field with its digital twin. The interactive visualization allows visitors to experience the potential of CONTACT's IoT solution: from initiating different maintenance operations or engineering change processes on the basis of evaluated real-time data to the resilient mapping of business processes.

IoT partnerships and Open Source Software are a central component of the BCW. Many of the protocols, standards and components used in the IoT are the result of cooperation in open source projects. CONTACT Software have been working together with the Eclipse Foundation for a longer time and is also represented at the booth of the Eclipse IoT Working Group this year.

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PTC to present at Baird 2019 Global Consumer, Technology and Services Conference in New York City

14 May 2019

To view the webcast for conferences please use the link below.

Webcast: www.ptc.com/for/investors.htm

Replay: To access the replay via webcast, please visit www.ptc.com/for/investors.htm.

Please note that statements made at the conference are as of the date of the conference and PTC does not assume any obligation to update any statements made live or the archived call.

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World Circular Economy Forum in Helsinki, Finland on 3-5 June 2019

16 May 2019

Sitra is proud to host the 3rd World Circular Economy Forum in Helsinki, Finland on 3-5 June 2019. The WCEF2019 will bring together around 2,000 key circular economy thinkers and doers from around the world. This year the forum will have a strong emphasis on the next era of the circular economy and scaling up the transition.

To learn more about the program, speakers, and sessions, please visit <https://www.sitra.fi/en/projects/world-circular-economy-forum-2019/#programme>

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Implementation Investments

Boom Supersonic and Dassault Systèmes Partner to Advance the Development of Overture, History's Fastest Commercial Airliner

15 May 2019

Dassault Systèmes announces that Boom Supersonic is deploying the 3DEXPERIENCE platform to accelerate the design and development of Overture, its Mach-2.2 commercial airliner, with an aim to make supersonic travel mainstream and affordable.

Boom Supersonic is using Dassault Systèmes' "Reinvent the Sky" industry solution experience based on the 3DEXPERIENCE platform to support product development from concept through manufacturing and certification. By using this industry-leading solution, Boom Supersonic can cut development time of its first prototype in half and improve product quality by reducing program complexity, inefficiency, costs and resources, thus lowering the barriers to market entry.

"Overture takes new advances in aerodynamics, materials, and propulsion and uses them to revolutionize long-haul commercial airline travel. We need powerful design tools to deliver our vision of a supersonic future, and that is exactly what Dassault Systèmes provides," said Joshua Krall, co-founder and VP, technology, Boom Supersonic. "As a startup, we aren't constrained by legacy software systems and aim to keep IT costs low. We quickly and easily deployed Dassault Systèmes' 3DEXPERIENCE platform and expect to scale up to hundreds of users as our project matures."

In response to increasing passenger travel and demand for new products and services, aerospace startups, new market entrants and small original equipment manufacturers (OEMs) are shaking up traditional aviation industry dynamics with new and emerging aircraft design concepts that aim to overcome technical challenges of the past.

Tailored for product innovation by small OEMs and startups, "Reinvent the Sky" offers scalable access to digital design and simulation applications in a single, secure, and standards-based environment. Boom Supersonic's engineers, program managers and chief test pilot can collaborate in real time to define requirements, access and reuse common processes and parts with full traceability.

"Aerospace companies are working to deliver faster, lighter, more efficient aircraft without sacrificing passenger comfort," said David Ziegler, Vice President, Aerospace & Defense Industry, Dassault Systèmes. "Smaller innovators need tools for their product development programs that offer them the infrastructure of more established companies yet allow them to stay nimble and incur minimal IT-related expenses. The 3DEXPERIENCE platform delivers this support. Boom Supersonic can create the next generation passenger experience with digital applications that have long been at the core of the industry's major milestones."

Boom Supersonic is currently building XB-1, its two-seat demonstrator aircraft, to prove key technologies for supersonic flight. Once operational, the company's flagship airliner, Overture, will become the fastest commercial airplane in history, flying Mach 2.2 from New York to London in 3.25 hours and from Tokyo to San Francisco in 5.5 hours.

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Joshua Krall will be speaking at Dassault Systèmes' [3DEXPERIENCE FORUM North America](#), held May 13-16, 2019 in Las Vegas. The annual event brings together leaders from across all the company's 11 industries, including aerospace and defense.

Dassault Systèmes will be attending this year's International Paris Air Show (June 17-23), booth D170 (Hall 2B) and Chalet B161 (by invitation only).

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South African Retail Chain Woolworths Successfully Implements Centric PLM

14 May 2019

Woolworths Proprietary Limited has successfully implemented Centric Software's Product Lifecycle Management (PLM) solution.

Woolworths South Africa, part of Woolworths Holdings Limited, is a leading retailer operating in South Africa and 11 sub-Saharan African countries. The retailer offers a unique blend of food, fashion, beauty, homeware and financial services.

Woolworths chose to implement Centric PLM to address challenges related to the company's growth.

"Our previous product development process was inefficient and time consuming," explains Shane Butlion, Head of Central Business Optimisation, Woolworths Fashion, Beauty and Home. "We lacked visibility across our product development lifecycle. Our business has evolved significantly, with expanded sourcing and trading regions, creating additional complexity in the management of these new channels."

Woolworths selected Centric PLM to transform end-to-end product development and provide a platform for collaboration.

"Centric PLM is a modern and future-fit solution that can be accessed on the move," says Butlion. "Centric's Agile DeploymentSM project approach and highly configurable system, as well as the culture fit between us, Centric and their local implementation partner, Cogworks, were critical to our decision. Centric is the PLM leader in our industry, and the fastest-growing PLM solution provider globally."

Woolworths completed the initial implementation stage and is already enjoying the benefits of Centric PLM.

As Butlion says, "We approached this as a transformational project, not just a system implementation. With Centric's guidance and best practice experience, we have introduced future-fit improvements to our ways of working. From our initial rollout we expect to see improved collaboration and teamwork in product development, costing efficiencies, better visibility, improved supplier collaboration, a single source of the truth for data, a full audit trail and improved milestone management."

"It has been a pleasure working with the Centric team," he concludes.

"We are delighted that Woolworths has successfully gone live on Centric PLM," says Chris Groves, President and CEO of Centric Software. "Woolworths has undergone a total digital transformation with this implementation, and we are proud to partner with them in their business evolution now and into the future."

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Unicorns and Airlines Find Agility, Modernization, Growth, and Automation on the Oracle Cloud

14 May 2019

Announced on the Oracle blog:

Some of the world's most important companies are turning to agile Oracle Cloud suites to run their people, their supply chains, and their financials. These include a unicorn in the e-commerce platform industry, an award-winning airline, a family-run retail conglomerate, and a logistics and transportation company.

Founded in 2010 and based in Jakarta, Indonesia, Bukalapak has grown into a billion-dollar startup. It hosts four million small and medium enterprises (SMEs), 500,000 kiosk vendors and 700,000 independent micro-businesses in Indonesia on its platform.

Bukalapak is now using Oracle ERP Cloud to enable its finance and procurement teams to gain full visibility of the company's financial position, reducing the amount of time spent managing accounts and closing their books—while allowing more time devoted to strategic decision making. The company is also leveraging Oracle HCM Cloud to help enhance employee experience processes as it continues increasing its workforce.

“We began our business with a vision to bridge the gap between Indonesian sellers and buyers, and today we are proud of the traction that our company has achieved in the market,” said M. Fajrin Rasyid, Co-Founder and President of Bukalapak.

“Our platform has empowered the micro, small and medium businesses to participate in commerce activities, and we are committed to advance the livelihoods of these entrepreneurs through our technology.”

Given the complexity of business and the need to simplify as much as possible so companies can maximize the value of their people, organizations around the world—companies that move people, companies that move goods, companies that sell goods to people, and companies that help other companies sell goods to people—are achieving that level of modernization through the Oracle Cloud.

Becoming more than ‘just an airline’

AirAsia Group, which already has a network of over 140 destinations across Asia Pacific and a passel of “best low-cost airline” awards to its name, and which harbors even loftier ambitions.

According to AirAsia CEO Tony Fernandes, “we are now writing the next chapter of our story, riding on our momentum as a business and a brand to transform AirAsia into more than just an airline. We are going to be the travel technology company for the region, and as part of this journey, we’ve set our sights on becoming an intelligent, connected enterprise.”

The airline is using Oracle ERP Cloud to centralize and streamline its finance operations, and to provide much-needed agility.

“An agile finance operation is the backbone of every successful business, where financial data is readily available in real time to support critical business decisions,” said AirAsia Group CFO Pattra Boosarawongse. “Our finance team needs to reconcile cross-currency data and transact with suppliers in

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different countries. Oracle ERP Cloud will help us simplify, standardize and automate our financial operations across the group, and free our finance teams from mundane operational tasks to focus on growing our business,” Boosarawongse said.

Modernizing retail means making better decisions

One of the largest family-run retail business conglomerates in Vietnam, IMEX Pan Pacific Group (IPPG), just started using Oracle Cloud’s unified suite of cloud technologies to efficiently and securely manage huge volumes of data from the inventory and warehousing, and to improve decision-making processes across all of its subsidiaries.

It’s no surprise that the cloud implementation is helping reduce complexity, providing IPPG managers with a single view into core business operations. That has helped enhance decision making, increased financial productivity, and is driving efficiencies across its complex business structure, said Mrs. Le Hong Thuy Tien, president, IMEX Pan Pacific Group.

“As one of the leading multidisciplinary corporations, we understand that system modernization is essential for us to expand and scale our operations,” said Mrs. Le Hong Thuy Tien.

Putting technology in peoples’ hands

Royal Cargo, which has over 1,200 employees around the world, is digitally transforming its employee management strategy, and using Oracle HCM Cloud to accelerate and support this processes. The company’s goal is to enable Royal Cargo’s HR team to streamline processes, and give them more time to focus on strategic rather than administrative tasks.

“We knew digital transformation was the answer to managing the needs of our growing team, multiple offices and the ever-changing demands of a global economy. Partnering with Oracle on our digital transformation journey was a no-brainer, and we welcome the simplified access to all our HCM needs via the Oracle HCM Cloud,” said Philipp Schlohsnagel, Chief Transformation Officer, Royal Cargo.

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YCI Methanol One Company Will Run on Infor CloudSuite Solutions

13 May 2019

Infor announced that YCI Methanol One, LLC (YCI), a venture between Yuhuang Chemical Industries Inc. (YCII) and Koch Methanol Investments, LLC (Koch Methanol), has selected Infor CloudSuite solutions to run its methanol enterprise.

YCI is currently building a world-scale Mega Methanol® plant, with a nameplate capacity of 1.7 million metric tons per year, located in St James Parish, Louisiana. The project is expected to be in operation by the fourth quarter of 2020. By selecting Infor’s CloudSuite Solutions including Infor M3 Cloud for their ERP along with both CloudSuite EAM and CloudSuite HCM, YCI will be able to optimize the end-to-end operation of its business.

YCI evaluated a number of ERP systems, according to Pat Dennard, YCI’s IT Manager, who was tasked with selecting the ERP system. The start-up state of the business and the growth potential for the plant required a system that was scalable with evolving demand, yet manageable for a small IT staff. Dennard said, “After researching the top ERP solutions available, Infor was determined to be the best fit for our

purposes in terms of capability, scalability, and ease of maintenance.”

When discussing other driving factors in the selection on Infor, Dennard explained that cloud deployment was a necessity. “I have a very small IT team – myself and two others – so an on-premises solution just isn’t practical. Being able to hand over the care and feeding of everything to Infor and AWS removes a large amount from our already crowded plate,” he said.

In addition to the ERP system, YCI will be deploying Infor EAM to manage the commissioning and turnover from the construction phase. Once the plant is up and running, EAM will provide the insight to minimize maintenance expenses of critical assets throughout the plant. YCI will also benefit from Infor’s CloudSuite HCM solution, which features advanced talent science functionality designed to help optimize recruiting, onboarding and retaining talent, essential today when shortages of skilled workers challenge manufacturers. The team said that they were glad to integrate these three major packages into the same product suite, because it makes things so much easier than having to work with solutions from different vendors. If there is a problem, then there is only one vendor to deal with – Infor.

Mike Edgett, Infor Director of Industry and Solution Strategy, said, “We have very strong functionality in our solution tailored for the chemicals industry. The manufacturing process is complex and requires numerous steps that must be carefully controlled, meeting strict compliance mandates. Our solutions are built to manage those with ease.”

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Product News

Announcing ARCHICAD 23 – BIM in an Instant

15 May 2019

Announced on the Graphisoft blog:

The next version of ARCHICAD has been announced! That means architects can look forward to speeding up everyday tasks such as powering up the software, switching between projects or views in a specific project. Performance enhancements to collaboration plow through common roadblocks to achieving a creative flow paving the way for unencumbered architectural design. The changes you’ll see in this version of ARCHICAD put you squarely in the driver’s seat, fueled by a software that nimbly responds to the way you think and work.

BIM in an Instant – Performance Improvements

This version boasts raw performance optimization, streamlined workflows and reduced file sizes – just a few of the ways ARCHICAD 23 puts a special emphasis on making an architect’s daily tasks flow in an uninterrupted way. Goodbye lag time – hello creative juice flow!

BIM in an Instant – Re-engineered Column and Beam Tools

ARCHICAD 23 enables architects to quickly model accurate construction details and create quantity estimations for reinforced concrete, complex steel, timber, and composite beams and columns. Complex columns and curved, haunched and castellated beams can now be modeled and documented to meet graphic and representation standards. Beams and columns can be displayed using various projected and

symbolic views and cover fills.

BIM in an Instant – Voids, Niches, and Recesses

The new Opening tool in ARCHICAD is dedicated to model and coordinate project design voids, recesses and niches — as horizontal, vertical or slanted openings across elements, element groups or even across stories. Such openings are important for project coordination as they are equally relevant for architects, engineers and consultants and must be documented by architects and by engineers. Openings can be modeled, scheduled, and documented using intuitive tools, and shared using open IFC standards.

BIM in an Instant – Renewed Solibri connection

ARCHICAD 23 enables seamless code and constructability checking at any stage of the design. The updated add-on automatically detects and sends only those elements that are changed in the ARCHICAD model, resulting in faster round-trip collaboration.

BIM in an Instant – Enhanced dRofus connection

ARCHICAD 23 allows architects to capture and organize client planning requirements and use these to validate and propose design alternatives. The dRofus database enables designers to collect and handle planning rules and design data with ease, even when working on large and complex projects, like hospitals, airports and universities.

BIM in an Instant – Rhino-Grasshopper-ARCHICAD live connection

The new Grasshopper Deconstruct Component can be used to extract ARCHICAD element surface data as a design reference. With the help of this function, changes to the core design scheme in BIM will automatically update all linked design details generated via design algorithms in Grasshopper.

To view the original announcement, please visit <https://blog.graphisoft.com/archicad/announcing-archicad-23-bim-in-an-instant>

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Atos launches new unified cloud identity and access management solution for ultimate security

13 May 2019

Looking ahead to the 4th Atos Technology Days co-located with VivaTech, Atos today launches a new unified cloud Identity and Access Management (IAM) solution for ultimate security.

Acting as a single identity provider and management system for all platforms, cloud and on-premise, this new solution, based on Evidian software from Atos, enables organizations to keep control of all identities that need access to their business systems, providing them with ultimate security.

One single sign-on to access multi-cloud and on-premise environments

Today, businesses are using and accessing numerous cloud solutions, from different providers – each one of them including their own identity system and requiring users to manage several access codes[1]. With the unified cloud Identity and Access Management solution from Atos, businesses can create and manage one central repository of identities and access rights. In this way, users only need one single sign-on to access multi-cloud and on-premise environments.

Enhanced security with full control of all identities

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With this enhanced data security solution, businesses can protect their users' accesses and **keep control of their identities**, rather than dealing with a multitude of cloud providers. Businesses will also have access to a single Identity and Access Management console for the governance and administration of their identities and access rights – thus facilitating the enforcement of policies, compliance reporting and security incident response.

Other key benefits

This unified cloud Identity and Access Management solution is integrated within the cloud platform and centrally manages the access to cloud and non-cloud platforms, and enables:

- **Cloud migration facilitation** – avoiding the complexity of adapting access management policies when moving from one cloud provider to another
- **Audit simplification** – with a single point of administration and tracking
- **Automated and cost-efficient provisioning and de-provisioning of SaaS applications** at the exact time needed by clients – eliminating the risk of dormant accounts

“Thanks to the unified cloud Identity and Access Management solution by Atos, our clients can provide a secure and convenient access to critical resources for business users, while meeting compliance demands. Our solution is facilitating day-to-day work and optimizing costs” says Sébastien Brachet, Managing Director of IAM/IGA activities within the Atos Group.

To learn more about Atos identity and access management solutions, cloud security solutions, and digital vision for cybersecurity – visit the atos.net website.

For its 4th edition, The Atos Technology Days are co-located with VivaTech, the world's rendezvous for start-ups and leaders to celebrate innovation, with over 100,000 attendees.

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Autodesk BIM 360 Field Management Update

15 May 2019

Announced on the BIM 360 blog:

The May 13th, 2019 BIM 360 Field Management update delivers the following enhancements.

- Support for large checklists
- Daily Log Photos

Support Large Checklists

With the recent release we have provided support for large checklists which contain over 300 items.

This latest release has made it possible for Field Management to better support your Safety Programs by ensuring we are able to support those larger checklists.

Daily Log Photos

In addition to adding notes to your Daily Logs, we now have the ability to add photos as supplement to your notes. Within the Daily Log notes widget we have added a camera icon which allows the user to

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add photos from their hard drive if on web or their camera/iOS library on the mobile device.

Within the Notes and Photos widget, the “Add Photos” button has been added. The newly added Add Photos button allows you to add photos from your hard drive to the Notes and Photos Widget.

Once the photos are added they can be seen within the Notes and Photos widget.

The ability to see the user who added the photo along with their company can be seen by hovering over the photo. Hovering over the photo also surfaces the menu where the option to permanently delete the photo is available. These features are available in Web only.

The ability to add photos as well as view the already added photos is also available on the mobile device.

This recent enhancement to the Field Management Daily Log feature allows you not only to describe the day’s activities in words but also supplement your activities with valuable photos.

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Bentley Systems Announces the Availability of OpenBuildings Station Designer

13 May 2019

Bentley Systems, Incorporated announced the general availability of OpenBuildings Station Designer, a new multidisciplinary application for the design, analysis, visualization, and simulation of new or operating rail, metro or other transit stations. Advancing beyond generic BIM applications, OpenBuildings Station Designer was developed specifically for rail and transit station modeling, with asset-specific content and workflows. OpenBuildings Station Designer streamlines and automates design collaboration design between architectural, mechanical, electrical, and structural disciplines sharing modeling, clash resolution, and documentation capabilities.

OpenBuildings Station Designer helps designers improve the quality of station and facility design and optimize the functional use of space and the pedestrian experience.

OpenBuildings Station Designer incorporates LEGION, the industry-leading simulation software, acquired by Bentley late in 2018, for fully modeling pedestrian traffic to optimize footfall, wayfinding, crowd management, safety, and security. With the integrated capability to model and simulate pedestrian scenarios, OpenBuildings Station Designer helps designers to improve the functional use of space, passenger throughput, and the pedestrian experience.

By virtue of Bentley's open modeling environment, OpenBuildings Station Designer enables iterative digital workflows spanning OpenRail and OpenRoads to assure comprehensive and coordinated engineering modeling of transportation assets and modes. Within Bentley's OpenRail Connected Data Environment (CDE), the Components Center cloud service contributes to station project quality and integrity through pre-populated digital components which include signaling equipment, escalators, turnstiles, public address systems, signage, kiosks, and more.

OpenBuildings Station Designer breaks down barriers among stakeholders and increases the value and fitness-for-purpose of design deliverables through its:

- included LEGION pedestrian simulation;

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- integration with OpenRail for rail design;
- integration with OpenRoads for roads design;
- clash resolution;
- multi-discipline documentation;
- ready-to-use catalogs for functional spaces and equipment; and
- enlivened visualizations.

Santanu Das, SVP for Bentley's design integration business unit, said, "OpenBuildings Station Designer reflects our goal of advancing BIM through digital twins, by including within its multi-discipline design scope the integral simulation of pedestrian traffic outcomes. With such insight, the designer can anticipate pedestrian bottlenecks and modify the layout to improve the station efficiency and safety, ultimately improving the passenger experience. Accordingly, we expect OpenBuildings Station Designer to also benefit existing rail and transit stations for renovations and upgrades, increasing their capacity and throughput."

Mike Nicholson, associate for [Steer Group](#), said, "For over a decade Steer has successfully been delivering a wide range of pedestrian modeling studies around the world utilizing LEGION. We are now looking forward to using the full BIM capabilities of OpenBuildings Station Designer."

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Bentley Systems Announces Availability of OpenSite Designer

13 May 2019

Bentley Systems, Incorporated, a leading global provider of comprehensive software and digital twins services for advancing the design, construction, and operations of infrastructure, announced the availability of *OpenSite Designer*, its integrated application for civil site and land development workflows across conceptual, preliminary, and detailed design phases. *OpenSite Designer* advances BIM through comprehensive 3D site design, spanning reality modeling of site conditions from drone imagery and scans, geotechnical analysis, terrain modeling, site layout and grading optimization, stormwater drainage modeling and analysis, underground utilities modeling, detailed drawing production, and enlivened visualizations.

OpenSite Designer enables rapid and iterative conceptual design, leveraging contextual information obtained through point clouds, reality meshes, GIS, and other sources to enhance understanding of existing site conditions. Interoperating with *PLAXIS* and *SoilVision*, Bentley's geotechnical engineering solutions, site plans can be enhanced with new information about the active properties of soil including bearing capacity, stresses, and displacement.

With *OpenSite Designer*, users can create intelligent 3D models containing site information, terrain data, parking lots, building pads, driveways, sidewalks, parcel layout, and related site features. During preliminary design, the site engineer can complete and subjectively improve the layout while relying on further automated optimizations, which respond to the engineering changes. To complete the project's digital workflows, *OpenSite Designer* fully supports the site engineer's detailed design including the production of all required project deliverables.

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For many site engineers, *OpenSite Designer* will advance civil site design from traditional 2D plans and profiles to a 3D modeling environment, assuring more efficient analysis of hydraulics, geotechnical, geospatial, and earthworks. Incorporating the analytics optimization of Bentley's *SITEOPS* technology, *OpenSite Designer* is the successor to the site design capabilities of Bentley's *PowerCivil*, *topoGraph*, *GEOPAK Site*, *InRoads Site*, and *MXSite*.

Dustin Parkman, vice president, civil infrastructure design integration for Bentley Systems, said, "The collaborative nature of digital workflows converging analysis and simulation with design and modeling is exemplified in our new *OpenSite Designer*. We're excited that for the first time there is a complete solution for site design and land development to accelerate site engineers going digital!"

Michael Semeraro, Jr., PE, PP, managing principal, EVP, Langan International, said, "Langan is always looking for opportunities to differentiate ourselves from competitors with technical excellence and expertise. We have depended on *SITEOPS* for site optimization, earthwork analysis, and cost identification in our planning phase. We now look forward to using *OpenSite Designer* to also produce our detailed designs and documentation."

Greg Bentley, CEO of Bentley Systems, said, "Interestingly, after three decades of leadership in civil engineering software scope advancement, the culmination is *OpenSite Designer* – a very accessible and widely-needed application which combines complete fitness for purpose with unprecedented ease of use and adoption. In effect, it brings to bear what we consider to be the indispensable characteristics of infrastructure digital twins – reality from imagery, veracity from simulation and optimization, and fidelity to design intent across revisions. Both site engineers' work satisfaction, and their site designs, will be vastly enhanced by the breakthroughs in *OpenSite Designer*. Try it!"

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Cadence Announces Broad Next-Generation Memory Standard Support in Samsung Foundry's Advanced Process Technologies

14 May 2019

Cadence Design Systems, Inc. ([CDNS](#)) today announced broad support for memory technologies across a range of Samsung Foundry's advanced process technologies targeting high-bandwidth applications. As a result of the longstanding collaboration with Samsung Foundry, Cadence has taped out DDR5/4 PHY IP on the Samsung 7nm Low Power Plus (7LPP) process, GDDR6 PHY IP on the Samsung 14nm Low Power Plus (14LPP) process and 2.4G High-Bandwidth Memory 2 (HBM2) PHY IP on the Samsung 10nm Low Power Plus (10LPP) process, which has been recharacterized as the 8nm Low Power Plus (8LPP) process. In addition, Cadence® PHY IP for GDDR6 has achieved silicon success on the Samsung 7LPP process. Mutual customers can begin creating designs using Samsung Foundry's advanced process technologies with the confidence that the Cadence DRAM interface IP is ready for use.

The Cadence IP that supports Samsung Foundry's various advanced nodes is intended for several emerging application areas including high-performance computing (HPC), mobile, artificial intelligence (AI), IoT, graphics, automated driving (AD) and adaptive driver assistance systems (ADAS). Customers benefit from having access to a complete, single-vendor solution for controller, PHY and Verification IP (VIP) that speeds chip integration time and reduces interoperability risk. Other key competitive

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advantages include:

- Cadence design techniques reuse technology from Cadence’s silicon-proven DDR and SerDes designs, resulting in lower risk when implementing advanced memory technologies
- Cadence’s low bit-error rate (BER) for GDDR6 IP reduces retries on the memory bus, giving applications greater bandwidth and lower maximum latency
- Cadence’s design margin allows users to implement GDDR6 on PCBs using normal fiberglass FR4 materials, reducing the cost of GDDR6 deployment
- Cadence’s reference design for memory interfaces allows users to replicate Cadence’s test chip results in their own products
- Cadence DRAM controllers are based on the industry-leading Denali® DDR controller, which includes a full set of features for popular memory interfaces

“Cadence’s silicon success and tapeouts in Samsung Foundry’s 7LPP, 8LPP, 10LPP and 14LPP processes technologies are significant milestones in our successful collaboration, enabling the delivery of high-performance DDR5/4 PHY, GDDR6 PHY and HBM2 IP solutions to our mutual customers,” said Jaehong Park, executive vice president of Design Platform Development at Samsung Electronics. “Customers designing at advanced nodes now have a range of Cadence’s DRAM interface IP from which to choose, as part of the broad enablement of DRAM interfaces in Samsung Foundry processes.”

“Samsung Electronics is a leader in state-of-the-art memory technologies, where we have consistently been the first to enable the most advanced memory solutions,” said Harry Yoon, vice president of Memory Product Planning & Application Engineering at Samsung Electronics. “In collaboration with Cadence, we will continue to expand our premium memory lineups with high performance, high capacity and low power consumption to support the growing demand for advanced high-bandwidth applications, including HPC, AI and ADAS.”

“By utilizing the latest technologies from Samsung Electronics, we’re continuing to drive advanced-node innovation as evidenced with our GDDR6 PHY IP silicon success and our latest DDR5/4 PHY, GDDR6 PHY and HBM2 IP tapeouts,” said Amjad Qureshi, corporate vice president, R&D, Design IP at Cadence. “Our mutual customers can access all the simulation and emulation data required to ensure designs will work as intended, and we’re ready to engage with customers now.”

Technology Specifications

Customers using Samsung’s advanced nodes and the Cadence IP can achieve the following performance specifications:

- GDDR6 technology using Cadence IP allows up to 512Gbit/sec between the host CPU and a single GDDR6 die
- HBM2 technology using Cadence IP allows up to 2400Gbit/sec bandwidth between host CPU and a single stack of HBM2
- DDR5 technology using Cadence IP allows up to 128Gbytes of DRAM per channel
- Availability

Cadence PHY IP for GDDR6, DDR5/4 and HBM2, as well as memory models, are available now for customer engagements. Design files are also ready for select customers to begin integration work.

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Gerber Accelerates Creative Process with Updated Adobe® Plug-In for YuniquePLM®

9 May 2019

Speed has become the new normal in fashion, as designers, brands, retailers and manufacturers strive to stay ahead of trends and meet consumer expectations for personalization and sustainability. To support their users in the race to keep up with what's now trending, Gerber announced the release of a major update to *Design Suite*, their Adobe® Illustrator® Plug-in. "We know our customers are looking for ways to improve speed and connectivity to support their creative process." Said Clayton Parker, Director PLM Product Management. "Adobe Illustrator is a key tool for designers and product development teams. Our latest updates to the Adobe Plug-in and our new UI are a combined element of continually responding to customer input to create an optimal user experience with [YuniquePLM](#)."

A deep understanding of the fashion design and development process drives Gerber's customer focused innovation process. For YuniquePLM and other Gerber software applications, this approach includes an open philosophy leveraging APIs for integration with key applications in their customers' end-to-end processes. Adobe is one key example, as Gerber was the first major PLM provider to offer its Adobe integrations through the [Adobe Exchange App Marketplace](#). Having YuniquePLM's Design Suite integrations in the marketplace ensures users are always up to date with the latest releases for both Mac and PC. The latest update to Design Suite focuses on simplification and speed. Key features include:

- **Simplified Drag and Drop Open for Artboards:** The ability to open any image within the plug-in so assets in YuniquePLM can easily be added to an active artboard in Illustrator.
- **Faster Use of Multiple File Types:** Users can now directly access and edit multiple file types within the plug-in – JPEG, PNG, TIFF, EPS, and Photoshop to name a few. This improves speed by reducing the need to edit files in multiple applications.
- **Improved Large Image Processing Speed:** Large files and multiple artboards can now be processed in the background so a user can continue to work while their artwork is being published to YuniquePLM.

"Our cloud deployment model is enabling us to launch updates and new features every few weeks." stated Parker. "We have developed a great partnership with Adobe and our rapid deployment model ensures we're ready to incorporate new Adobe releases for seamless integration with YuniquePLM."

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LevaData Introduces Cognitive Sourcing for New Product Introduction Teams

14 May 2019

[LevaData](#) announces the launch of LevaData NPI (New Product Introduction), a solution extension of

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the LevaData Cognitive Sourcing Platform. Designed and built for enterprise manufacturing companies, LevaData NPI offers industry-first supply chain insights and actionable guidance to product planning, launch and introduction teams. LevaData NPI applies artificial intelligence (AI) to direct procurement data and integrates analyst findings and benchmarks, as well as enterprise buyer and seller activity on the LevaData procurement network, in order to identify opportunities for NPI teams to achieve target cost goals and greater agility while decreasing manufacturing risk and increasing profit margins.

An estimated 60-80% of product cost is “locked in” during the design stage, and, given strict supplier onboarding and production deadlines, NPI teams at enterprise manufacturing companies frequently lack the time and insights needed to optimize parts, suppliers and target costs for a given Bill of Materials (BOM). This is because design BOMs are often completed late in the product launch process due to the time and effort required to collaborate across departments and typically suffer from missing information and inaccurate data. This results in a lack of visibility into a product’s true lifecycle cost.

However, AI-driven insights from NPI and the LevaData platform enable enterprise manufacturing companies to fill these gaps in knowledge, empowering their NPI teams to develop a comprehensive BOM analysis early in the launch process. With LevaData NPI, teams can significantly improve gross margins over a product’s complete lifecycle by identifying current and future cost savings opportunities. The LevaData NPI solution also alerts users to potential “risk drivers,” such as identifying the use of end-of-life (EOL) parts, items sourced from a single supplier, and any supplier that may have future production issues based on factors such as financial health, quality ratings and location-based risks.

In addition to mitigating part-level risks, LevaData NPI helps teams manage program-level risk by notifying users about upcoming deadlines, including outstanding items and tasks, as well as advising LevaData NPI users on the status of program Key Performance Indicators (KPIs) and phase gate review milestones. NPI identifies these issues and recommends remedial action before production decisions are made, ultimately saving time, money and frustration during the new product introduction process.

LevaData NPI also integrates with other software tools used by teams outside of the NPI process, including popular product design and product lifecycle management (PLM) solutions. The NPI solution enables cross-functional collaboration across product operations, supply chain, finance, and procurement to serve as a “single source of truth” for rolled-up cost, design changes and project status across the enterprise. In addition to enhanced communication, the NPI module helps automate manual processes, facilitates scalable BOM ingestion and onboarding of new suppliers, and reduces analysis time by generating thorough reports on the part, product or commodity level.

“We understand that launch teams work under tight time and cost deadlines and that they’re constantly pressured to scale productivity and improve collaboration across functions,” said Rajesh Kalidindi, CEO of LevaData. “We’re excited about our new NPI solution because it represents an industry-first approach to address critical margin and risk considerations prior to release to manufacturing. NPI delivers a powerful competitive advantage to manufacturers because it offers real supply chain insights during the product design and development stage – not after the fact. The results include greater savings and efficiency throughout the entire product lifecycle.”

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Major Enhancements in Post-Processed Simulation, Automation, and Advanced 5-Axis in ALPHACAM 2020.0

16 May 2019

One of the major highlights of the latest release of ALPHACAM from Hexagon Manufacturing Intelligence's Production Software business, are enhancements to the Post-processor engine, delivering what is described as best-in-class cutting edge technology.

Brand Manager Hector Henry says: "We can confidently back up that claim, as the enhancements mean the post-processor engine directly configures and deploys a simulation session, resulting in more realistic motion, as well as the ability to support cycles such as M6, and additional hardware that has previously been underutilised or ignored. This new functionality is truly an Industry-first and will surely to become a new standard."

The Automation suite has been enhanced, improving the user's experience and productivity when creating and deploying job configurations. Whether setting up a first automation job, or whether the user is involved in complex and dynamic environments, he says the new Setup Wizards will make short work of daily production tasks.

Regarding solids machining, specifically machining solid faces directly, he says most industry packages are only concerned with extracting features from solids. "But ALPHACAM sets a new standard by allowing direct interaction with them. Previously, we enhanced our solids interaction by allowing users to saw a solid face directly. The Rough/Finish command (profiling) now allows the user to directly select and machine a solid face. And if your machine supports tool compensation on custom orientations (planes), this option provides the ability to create precision parts with minimal effort, via the use of G41/G42."

Advanced 5-axis functionality has been updated to include numerous improvements. Two new key features include the ability to integrate the Toolpath Optimiser into a core cycle which can then be stored in a machining style and deployed with Automation; and the Advanced 5-axis functionality has been updated to include Barrel Mill and Double Profile Tools. Improvements in SWARF machining, multi-axis roughing and toolpath smoothing are also included in ALPHACAM 2020.0.

The geometry offset command is now intelligent and dynamic, making all operations more productive, whether the user wants to simply retain attributes and information on the geometry, or to completely re-assign machining cycle parameters to a newly created offset. "This new feature delivers an intuitive and simple way of changing toolpaths for everything from simple tasks such as passing associative/dynamic profile machining data, to complex ones including re-assigning a boundary to a 3D surfacing method," says Hector Henry.

Regarding ordering and productivity tools enhancements, he says it is sometimes necessary to control the sequence of events and toolpath order with great care and precision, maybe requiring a preferred machining sequence to be added due to special considerations, such as hardware difficulties or lack of part hold-down. "This new feature provides a simple, productive and effective way to set a user-defined order in seconds."

In conclusion, he says ALPHACAM 2020.0 contains numerous key features. These are the main ones which will be essential in improving productivity for our customers working across the metalworking, woodworking, plastics and stone industries. Full details of all the updates in this latest release of the software can be found on the ALPHACAM website, www.alphacam.com.

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New CMS IntelliCAD 9.1 Extends 9.0 Version

14 May 2019

CAD-MANUFACTURING SOLUTIONS, INC. announces the release of new CMS IntelliCAD 9.1 Premium Edition (PE & PE Plus).

CMS IntelliCAD® 9.1 is a major release that includes many new features and improvements extending the previous 9.0 version.

One of the new major capabilities of CMS IntelliCAD 9.1 is attaching digital signatures to .dwg files and validating them. The interface on how to do it has been reworked with CMS IntelliCAD 9.1. Another is the new Block Editor that makes it easier to create and edit blocks. One more is creating palettes that contain blocks, similar to using a stencil for easily adding shapes to a drawing. There is also a new type of selection grip for users working with schematic drawings where precise scale or sizing is not required.

More CMS IntelliCAD 9.1 features include: print and publish drawings directly to PDF, click keywords at the command prompt, use a Start Page when the program launches, single-click to hide many user interface items at once and increase the drawing area, synchronize viewports, convert to mesh, convert to surface, show and hide edges of three-dimensional entities, view and edit system variables in the new System Variables Manager, and much more.

CMS IntelliCAD PE and PE Plus are now also able to attach version 2019 .rvt/.rfa files. CMS IntelliCAD PE Plus is also able to draw more AEC entities such as stairs, railings, and steel.

Vitor Neves, CMS President, stated, “CMS IntelliCAD 9.1 extends even further the advanced new features included in CMS IntelliCAD 9.0 allowing true CAD productivity increase. Professional users will find Sketch modes and Selection Grips as great examples on how IntelliCAD technology is focused on providing efficient and useful CAD tools.”

CMS IntelliCAD 9.1 is supported on Microsoft® Windows® 10, Windows 8, Windows 7 (64-bit only).

Download trial available at <https://intellcadms.com>

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Pulsonix 10.5 PCB Design Tools Get New 3D Capabilities and Constraint Rules as Part of its User Request Release

14 May 2019

Pulsonix™ announced the release of Pulsonix version 10.5, with over 30 new enhancements based on user requests from professional PCB designers. “We are very connected with our customer base, giving us lots of input on how to help them achieve their design goals more quickly and efficiently,” said Bob Williams, marketing director for Pulsonix. “One common theme led us to implement an intuitive 3D collision detection, measurement, and editing system that makes it easy to find and visualize 3D spacing problems and then fix them in the same 3D environment.”

CIMdata PLM Industry Summary

PCB design created strictly in a 2D environment makes it very difficult to avoid physical spacing problems caused by part packages, board enclosures, or other non-electrical components, which is inherently a 3D problem. The Pulsonix 10.5 release includes new 3D viewing options for component and enclosure transparency, lighting, and clash markers, and component-to-component distance measurements. Users fix problems in the 3D environment by repositioning objects in single-axis movements, making it very easy to move components while also maintaining proper alignment with the board and other components. Beyond fixing problems, the new 3D exploded view enables users to visually inspect the via structures and copper of internal layers of multi-layer PCBs. Finally, for precise and intuitive view positioning, Pulsonix now supports a 3D SpaceMouse®, allowing users to rotate and zoom the view simultaneously with one hand, while the other uses the mouse to make component positional changes.

Another area of commonly requested improvements involved design rules and constraints. New for the 10.5 release is the ability to define constraint rules by area in the schematic around components and nets, and then propagate those rules to the PCB environment. Users can also gain improved control with the ability to turn on or off individual rules, seeing which rules are being violated in a single table view, spreadsheet style filtering of rules, and other convenience features.

User requests led to improvements in many other areas of the Pulsonix toolset. For example, track impedance tooltips now make it fast and easy to see the impedance, capacitance, inductance, and propagation delay for any track on the PCB. Another example is the new bus connection and multi-net routing capability in the schematic editor. There are also new dynamic copper pour improvements, thermal spoke additions, tab routing options in Panel Editor, better layer stackup visualization, and more. Finally, to complement the extensive array of import/export filters (the largest of any EDA product), the 10.5 release adds new options for importing Eagle designs and exporting OrCAD netlists.

“The Pulsonix 10.5 release adds convenience and improves design time in so many areas,” said Olaf Hollinger at Carl Zeiss AG. “I especially appreciate the new schematic area definitions. With this, we can now easily define the constraint rules earlier in the design process and utilize them in the PCB design. This will be a great asset to our designs.” To see a complete list of all the enhancements to the Pulsonix 10.5 release, visit <http://www.pulsonix.com/latestversion>.

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VMware Cloud on AWS now available in India

14 May 2019

Global enterprise software leader VMware on Tuesday announced the availability of VMware Cloud on Amazon Web Services (AWS) in India.

VMware Cloud on AWS, e-tailer Amazon's Cloud arm, would deliver a ubiquitous digital foundation to support customers' and partners' digital transformation, the company said in a statement.

With the addition of the AWS Asia Pacific (Mumbai) region, VMware Cloud on AWS is now available in 14 regions globally.

VMware Cloud on AWS is available in early access in India, with expected general availability by the end of May.

CIMdata PLM Industry Summary

"We have seen a lot of interest from Indian customers for VMware Cloud on AWS to help with their digital transformation," said Arun Parameswaran, Vice President, VMware India.

"The availability of the solution in country will give them an opportunity to use the fastest and most seamless way to deploy and operate hybrid clouds with VMware," he added.

VMware Cloud on AWS is powered by VMware Cloud Foundation, the unified VMware SDDC platform.

Jointly engineered by VMware and AWS, this on-demand service runs on Amazon EC2 dedicated, elastic, bare-metal infrastructure, and provides optimised access to AWS services and robust disaster protection.

"VMware Cloud on AWS will enable users to reduce the cost and effort associated with migrating applications to the cloud," said Navdeep Manaktala, Head of Business Development, Amazon Internet Services Private Limited (AISPL).

AWS is hosting its India summit in Mumbai on May 14-15.

The VMware Cloud on AWS platform is for anyone who is looking to move workload whether temporary or permanent, with maximum flexibility in how they craft their architecture.

A broad range of global customers are already using VMware Cloud on AWS around the world, across industries such as transportation, healthcare, financial services, manufacturing, oil and gas, government, education, professional services and technology.

"We have a great partnership with AWS as a managed service provider and have a deep understanding of delivering VMware technologies," said Nitin Mishra, Senior Vice President and Chief Product Officer, NTT Com-Netmagic.

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