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## CIMdata News

### *Architecture, Engineering, and Construction: On the Verge of Convergence (CIMdata Commentary)*

17 August 2016

#### *Key takeaways:*

- *The past several years have seen growing adoption of Building Information Modeling (BIM) within the Architecture, Engineering, and Construction (AEC) industry, but construction productivity growth has continued to lag manufacturing*
- *A convergence is beginning to take place between AEC and manufacturing—AEC customers are increasingly interested in adopting processes and technologies from the manufacturing industry to find ways to realize the productivity potential of their technology investments*
- *The need for process improvement is driving interest in new fabrication and assembly techniques, virtual design and construction (VDC), and other innovations, as well as new technology platforms such as product lifecycle management (PLM) related cloud services*

#### **Introduction**

The overriding trend and enabler for change in the Architecture, Engineering, and Construction market has been the adoption of Building Information Modeling processes and associated enabling technologies. Although estimates vary across studies, the rate of BIM adoption exceeds 50% in most developed markets.<sup>1</sup> One primary economic driver for BIM has been the need to improve construction efficiency. A 2007 study documented 25 to 50 percent waste in coordinating labor and in managing, moving, and installing materials.<sup>2</sup> Unfortunately, the investment in BIM has not yet resulted in sufficient productivity gains—recent statistics from the United States Bureau of Labor Statistics and National Bureau of Economic Analysis demonstrate that labor productivity growth in construction continues to lag manufacturing.

Three high level trends in the industry are now promising to deliver on the potential of BIM. The first is wider demand and support for interoperability among applications. The development of new standards and stronger interoperability capabilities among applications are beginning to erase the boundaries among disciplines that have historically operated in siloes. The second trend is the adoption of production techniques from manufacturing. Organizations are discovering that configured and prefabricated modules can be produced more efficiently in factories, and can be assembled on site faster, at lower cost, and higher quality. The final trend is the increasing availability of technology solutions that leverage and extend BIM models. These solutions include VDC, digital fabrication from parametric models, project collaboration, reality capture, augmented reality, among others. The wider availability of cloud services and high-speed network connections is accelerating the adoption of these solutions and enabling their pervasive use on construction sites.

All three of these trends closely parallel earlier developments in the manufacturing industry. The adoption of PLM in manufacturing has been a key enabler of productivity growth in the industry, and

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<sup>1</sup> Jones, Stephen, and Harvey Bernstein. “The Business Value of BIM for Construction in Major Global Markets.” *SmartMarket Report*. McGraw Hill Construction. 2014.

<sup>2</sup> Tulacz, Gary, and Tom Armistead. “Large corporations are attempting to meet the industry halfway on issues of staff shortages and risk.” *Engineering News Record*. November 26, 2007.

# CIMdata PLM Industry Summary

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many of the innovative technologies and processes now being adopted in AEC were pioneered in manufacturing. PLM is also a key factor in the ability of manufacturers to efficiently design and produce modular, configured, and customized products for AEC applications. Within AEC, there is a growing recognition of the need to adopt a holistic approach encompassing project lifecycles from concept through operations and maintenance. In CIMdata's view, this convergence between AEC and manufacturing promises to benefit both industries. Ultimately, we believe that as the AEC market embraces a lifecycle approach, BIM will increasingly be recognized by the industry as a subset of PLM.

## **Solution Provider Innovations**

Solution providers have introduced innovative new products and business models to address needs in the AEC Market. These innovations fall into two broad categories—technology innovation and business model innovation. Taken together, these two categories of innovation are lowering barriers to entry and enabling new levels of productivity.

On the technology front, solution providers have been especially active in focusing on internal development and acquisition in the following areas:

- Cloud services, especially as applied to project collaboration and construction management
- Mobile solutions, often to support in-field work processes and usually in conjunction with cloud services
- Extending VDC from 3D clash detection to include scheduling and costing
- Production and fabrication solutions that help take advantage of the trend toward modular design with off-site fabrication and on-site assembly
- Integration, a broad term including interoperability and standards compliance, as well as software solutions to better connect structured information between manufacturing and construction, and between construction and operations
- Reality capture (laser scanning and photogrammetry) and the processing of data from these sources
- Simulation, especially the integration of simulation into existing use cases and better support for up-front simulation

Innovative new business models are equally important to extending adoption of AEC solutions to all stakeholders across the lifecycle of designing, engineering, constructing, operating, and maintaining facilities. Smaller companies, in particular, can find it difficult to justify upfront investments in software from different providers across multiple projects. In response, most startup companies and many established solution providers have introduced term subscription licensing models. The net result is a completely new value proposition for AEC customers ranging in size from the smallest subcontractor to the largest multinational firm. Although term software delivery models are being introduced in multiple markets, they are an especially good fit for AEC customers given the project-based nature of their work and the need for companies of various sizes to collaborate on any given project.

## **Market Overview Report**

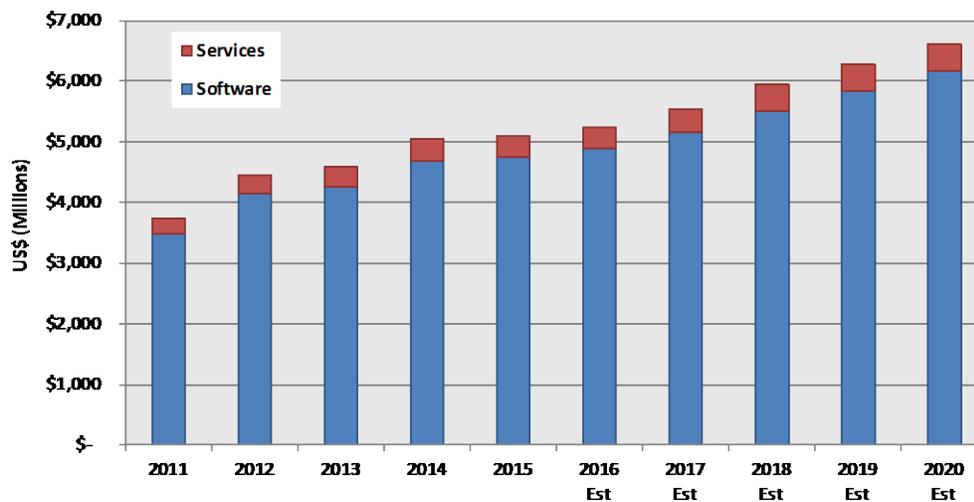
The changes taking place in the AEC market have created a need for deeper analysis and market intelligence to inform decision making at solution providers, manufacturers, AEC firms, and organizations that commission AEC projects. CIMdata assessed the information available in the market

# CIMdata PLM Industry Summary

and determined that a significant gap existed between these needs and the information available. To fill that gap, CIMdata has extended its existing PLM Market Analysis Report (MAR) Series by creating the AEC Market Overview Report. This report contains information valuable for any organization that is interested in better understanding the overall market for AEC solutions, key trends, and both major and emerging market players. The AEC Market Overview Report is valuable to a range of audiences. Solution providers and their partners can use the report to support strategic planning, sales planning, and marketing. Industrial companies including building products manufacturers, AEC, and EPC firms seeking to make investments can use this information as part of their decision making process. Owners and operators can use the report to inform their technology strategies. Industry and financial analysts often acquire MAR data to support mergers and acquisitions (M&A).

The CIMdata 2016 AEC Market Overview Report provides an in-depth analysis of trends, technologies, and individual solution providers, in addition to revenue details for major providers, geographies, and sub-segments, historical data, and a market forecast. The report is available for purchase at <http://www.cimdata.com/en/online-store/market-analysis-reports>. The report is the inaugural issue of the publication. It expands upon the methodology and data from CIMdata's global PLM MAR series, and leverages the expertise and research from CIMdata's AEC & Manufacturing Convergence consulting practice.

The market for AEC as measured in U.S. dollars grew more slowly in 2015 compared to prior years, and growth in 2016 is likewise expected to be muted. This is a result of a combination of currency exchange rate fluctuations and changes in subscription models by certain AEC solution providers. CIMdata expects growth to rebound strongly starting in 2017, with particular growth in solutions for construction applications. This historical and forecast solution provider revenues is one of more than 20 charts and tables included in the report:



The report profiles each of the top 16 AEC solution providers as measured by revenue, and briefly profiles a number of smaller companies that are introducing notable innovations to the market. It also discusses the top five trends in the industry and highlights key advantages, concerns, and considerations for each.

## Summary

The AEC market is undergoing rapid change. Now that the majority of customers have adopted BIM, the next challenge for the industry is to achieve the productivity and efficiency benefits promised by

# CIMdata PLM Industry Summary

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BIM. To meet this challenge, industry participants, ranging from building products manufacturers to AEC firms and solution providers, are looking to lifecycle strategies pioneered in the manufacturing industry. By combining technology innovations, new business models, and new work processes, the industry has the opportunity to close the productivity gap with manufacturing and generate greater efficiencies throughout the lifecycle from initial concept through facility operations.

## About CIMdata

CIMdata, an 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). CIMdata provides world-class knowledge, expertise, and best-practice methods on PLM. CIMdata also offers research, subscription services, publications, and education through international conferences. To learn more about CIMdata's services, visit our website at <http://www.CIMdata.com> 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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## *CIMdata to Offer Workshop on The Politics of Enterprise Software*

16 August 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm, announces that it will host a workshop that will share strategies for communicating the importance and value of an enterprise-based PLM framework. This one-day workshop will take place on November 2 at the Inn at St. John's, Plymouth, Michigan and will be held in conjunction with PLM Road Map for the Global Automotive Industry, which takes place the next day, at the same location.

The workshop, "The Politics of Enterprise Software: Getting and Keeping Support for a Sustainable PLM Initiative," will offer participants access to proven strategies that can be used to rationalize PLM as a critical enterprise-wide business initiative. In addition, industry experts will be on hand to present on the issues they have experienced on their own PLM journeys. Ways to address barriers will also be shared.

According to workshop lead, Mr. Tom Gill, CIMdata's Practice Manager for PLM Enterprise Value & Integration, "Getting and keeping executive support for a PLM program is perhaps the most difficult activity a PLM team can face. Each organization is different and CIMdata has developed best practices that help PLM teams obtain and maintain the support necessary. We are excited to share this knowledge and look forward to collaborating with workshop participants to develop solutions for their issues."

The workshop will cover the following topics:

- Ways to make your executives say YES to your PLM initiative.
- The key activities and deliverables that keep a PLM initiative moving forward.
- Ways to effectively describe and present a PLM program to a variety of stakeholders.
- How Return on Investment can be used to justify a PLM program.
- What to do when a PLM program "goes off the rails."
- Proven remedies to issues experienced by other companies implementing PLM.

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For more information visit <http://www.cimdata.com/en/education/knowledge-council-workshops/2016-pevi-workshop>.

## 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](http://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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## *CIMdata Publishes China PLM Market Report*

16 August 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata 2016 China PLM Market Analysis Report.

This two-volume report provides detailed information and in-depth analysis on the People's Republic of China's ("China") rapidly-evolving PLM market for calendar year 2015. They discuss the major PLM trends and issues, PLM purchase investments in software and services, PLM adoption in various industry sectors, and market growth forecasts that pertain to China; an important and quickly expanding economic region. The private volume also provides insight into PLM market dynamics within the region and the revenue performance of the leading PLM solution providers operating within it, both China-based and international PLM solution providers headquartered elsewhere. The private volume reports on revenues attributable to various PLM solution providers in the Chinese market. These reports are a joint collaborative effort of CIMdata and China-based e-works Research (<http://www.e-worksglobal.com/> in English and <http://www.e-works.net.cn> in Chinese).

The CIMdata China PLM Market Analysis Report is delivered in two parts:

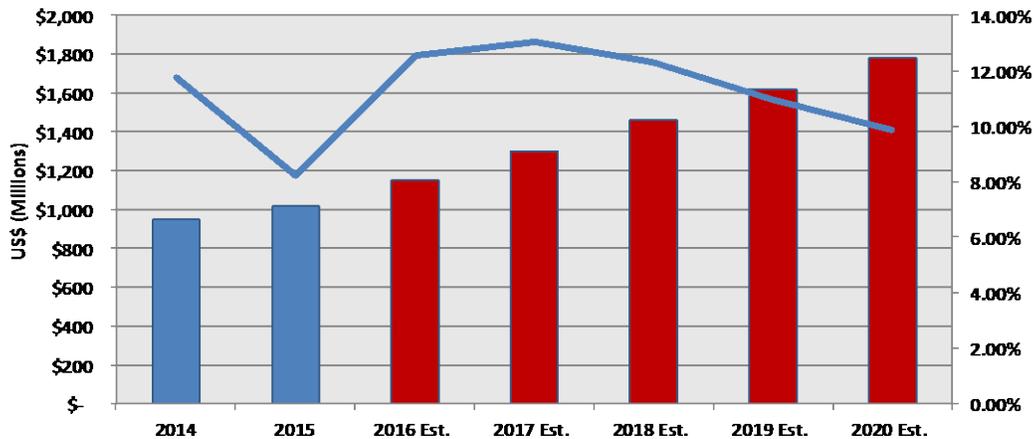
- The "China PLM Market Analysis Report Private Data" volume focuses on the results of the leading providers in the overall PLM market in China and in selected segments and industries. All information contained in the China report are CIMdata's estimates.
- The "China PLM Market Analysis Report Public Data" volume focuses on the Chinese economy and the overall PLM market, including some qualitative information about leading PLM solution and service providers in China.

Stan Przybylinski, CIMdata Vice President of Research said, "In CIMdata's measurement the global

# CIMdata PLM Industry Summary

PLM market only grew 2.8% in 2015, but in constant currencies growth was 8.2%, consistent with the Chinese market. In 2016 the growth rate of the Chinese Mainstream PLM market is forecasted to be 12.5%.” Chinese industries that are heavily investing in PLM include aerospace, automotive, high-tech electronics, and mechanical machinery. The following chart illustrates the growth and size of the China PLM market for the past 2 years and projects growth through 2020.

Global PLM solution providers continue to invest in China and are expanding their partner networks and growing their customer bases. The leading international PLM solution providers including Dassault Systèmes, PTC, and Siemens PLM Software are all showing continued growth in China, but local firms are growing as well. “Local Chinese solution providers are starting to gain real market share,” stated Peter Bilello, CIMdata’s President. “We had strong attendance at our fifth annual China PLM Market & Industry Forum from both local solution providers and mainstream international providers. These Chinese competitors are closer to their local market and are expanding their offerings into new segments, a good sign for the vitality of the Chinese PLM market,” he added. “We are also getting traction with our global PLM Certificate classes in China, delivered by our local partners. This shows that industrial companies are seeing the value to be gained by adopting PLM strategies and enabling technologies.”



This report reflects the trend that Chinese manufacturers are paying more and more attention to product innovation and are rapidly improving their own R&D capabilities and processes by deploying PLM, not only in traditional discrete industries, but also in life sciences, food & beverage, and several emerging vertical markets.

CIMdata designed these reports to be a valuable source of information to support the business and market planning processes of PLM solution providers that are targeting China, as well as industrial companies within China who would like to understand the PLM competitive landscape. Further details about the reports including pricing information are available on CIMdata’s website for [publications](http://www.cimdata.com/publications).<sup>3</sup>

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<sup>3</sup> [http://www.cimdata.com/publications/reports\\_purchase.html](http://www.cimdata.com/publications/reports_purchase.html)

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incorporate both business processes and a wide-ranging set of PLM-enabling technologies.

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## ***CIMdata Publishes PLM Geography Analysis Report***

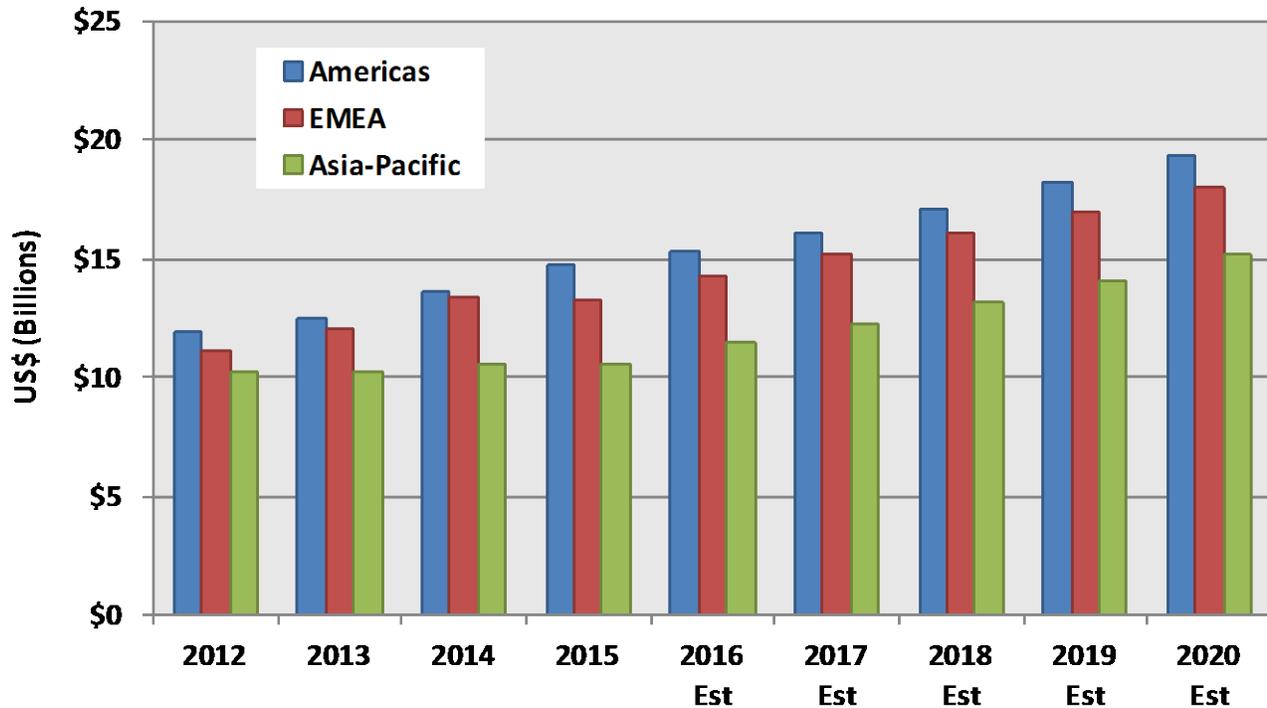
18 August 2016

CIMdata, Inc., the leading global PLM strategic management consulting and research firm announces the release of the CIMdata PLM Geography Analysis Report, the fifth of five modules of the CIMdata 2016 PLM Market Analysis Report Series. The MAR Series provides detailed information and in-depth analysis on the worldwide PLM market during 2015. It contains analyses of major trends and issues; revenues of leading PLM providers; and revenue analyses for geographical regions, industry sectors, and historical and projected data on market growth.

The PLM market grew to \$38.7 billion overall in 2015 (2.8% growth over 2014). When looked at in constant currencies, that growth rate would be 8.2% over 2014. During 2015, only EMEA failed to grow.

For 2015, the Americas had 38.1% of the PLM market. EMEA followed with 34.5%, with Asia-Pacific having 27.4%. The Americas region is forecast to grow at a CAGR of 5.8% to reach \$19.5 billion in 2020. EMEA and AP will have CAGRs of 6.1% and 7.4% respectively. EMEA will grow to \$17.9 billion and AP will reach nearly \$15.2 billion in 2020.

# CIMdata PLM Industry Summary



“The global PLM market grew strongly in constant currencies in 2015,” states Stan Przybylinski, CIMdata VP of Research. “The leading PLM solution providers are consolidating their portfolios after years of acquisitions, and increasing revenues in 2015, in part, by expanding their footprints at their existing clients. Industrial companies are using PLM to enable highly collaborative, distributed, flexible design and manufacturing environments to help better manage the entire product or plant lifecycle. This ability is critical to all industries and only becomes more complex as smart, connected products must act as parts of larger systems.”

The CIMdata PLM Market Analysis Report Series is packaged as five modules:

1. The CIMdata 2016 Executive PLM Market Report provides an overview of CIMdata’s complete global analysis. It includes key charts on PLM market investment statistics through 2015, forecasts of investments for 2016 through 2020, and a summary of PLM solution providers’ performance in 2015.
2. The CIMdata 2016 PLM Industry Review and Trends Report is mainly qualitative in nature, and focuses on key issues facing the global PLM ecosystem of solution providers and end user organizations. It highlights changes that occurred in 2015, what effects those changes may have in the short and medium term, and what is on the horizon in the years to come.
3. The CIMdata 2016 PLM Market and Solution Provider Analysis Report details measures of and forecasts for the overall PLM market and its key segments, including Tools, cPDM, and Digital Manufacturing. The Tools section has additional details on sub-segments, including MCAD, NC, S&A, EDA, and AEC. It also includes CIMdata’s estimates of PLM solution provider revenues in these segments and sub-segments for 2016 through 2020.
4. The CIMdata 2016 PLM Market Geographic Analysis Report provides an additional view of the 2015 market results, by major geography. CIMdata’s 2015 estimates and market forecasts for PLM and the major PLM market segments are provided for the Americas, EMEA, and Asia-

# CIMdata PLM Industry Summary

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Pacific. In addition, the report includes estimates and forecasts for the cPDm segment within specific European and Asia-Pacific countries and regions.

5. The CIMdata 2016 PLM Market Industry Analysis Report provides an industry segmentation view of the 2015 market results. CIMdata's 2015 estimates and market forecasts for PLM and cPDm are provided for eight different industry sectors: aerospace and defense; automotive and other transportation; electronics/telecommunications; fabrication and assembly; process-packaged goods; process—petrochemical; utilities; and construction, infrastructure and shipbuilding.

The CIMdata PLM Market Analysis Report Series is available as a five-module set or each module can be purchased separately. It is also available as part of the CIMdata PLM Community Gold Membership. Further details and pricing information about the report and Community Memberships are available at [www.cimdata.com](http://www.cimdata.com).

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## ***Ed Martin's "BIM and Circles of Trust" Article Published on the Revit Community***

16 August 2016

"At its core, building information modeling (BIM) is about collaboration. The full potential of BIM can only be realized when all stakeholders are connected – from architects to engineers, construction managers, specialty contractors, facility owners, and service trades. The concept of BIM is based upon a common data environment (CDE) that represents an evolving "single source of truth" throughout the lifecycle of a project. The BIM model develops its potential only when all of the stakeholders are contributing relevant and accurate information, and it achieves that potential when the information is available to those who need it, when they need it..."

Read the full article here (signing up for an account is free):

[http://www.revitcommunity.com/feature\\_full.php?cpfeatureid=116993](http://www.revitcommunity.com/feature_full.php?cpfeatureid=116993)

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## Acquisitions

### ***Hexagon: Multivista Acquisition Further Strengthens Hexagon's Suite of Forward-Thinking Construction Solutions***

15 August 2016

Hexagon AB today announced the acquisition of Multivista, a leading provider of visual, cloud-based construction documentation solutions. Visual construction documentation enables visibility of construction progress throughout the life cycle of a built asset – from start to finish.

Multivista has offered documentation technology and services to support construction projects of all types and sizes since 2003. Its construction photography and video services provide progressive, digital records of ground-up development. What's captured is managed and shared via its cloud-based documentation platform – where images are indexed and linked to architectural plans and live conditions or events, such as walkthroughs and inspections, are live streamed as well as viewed on demand. During construction this enables remote monitoring and verification of site progress and quality of work as well as immediate comparison of actual versus modeled conditions from anywhere at any time. Post construction it eliminates guesswork, such as locating the electrical and plumbing systems hidden behind walls, floors, and ceilings.

“Ultimately, Multivista brings visibility to construction projects. The resulting transparency and accountability are both key to enabling prompt course corrections and minimizing corrective work, which can ultimately result in a lot of time and money saved in an industry whose productivity has declined over the last 50 years,” said Hexagon President and CEO Ola Rollén. “This acquisition not only strengthens Hexagon’s breadth of expertise in the changing construction landscape but also offers opportunities to augment Multivista’s proven documentation portfolio with 3D reality capture solutions. Additionally, as more and more construction companies realise the value of centralised, real-time ‘as-built’ information sharing, the practicality of integrating mobile, positioning, and autonomous technologies into the construction workflow will also become a reality – which are all an integral part of Hexagon’s construction management solution strategy.”

Multivista operates a franchise business structure currently spanning North America and Europe, with the majority of its operations in the U.S. and Canada. Headquartered in Vancouver, British Columbia, Canada and Phoenix, Arizona, USA, Multivista’s comprehensive visual construction documentation solutions help improve jobsite productivity and collaboration, enforce accountability, verify quality, reduce risk, and control costs.

Multivista will be fully consolidated as of today. The acquisition has no significant impact on Hexagon's earnings.

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## Company News

### ***Altair Engineering and MAI Launch Advanced Automotive Technology Centre***

17 August 2016

The Malaysia Automotive Institute (MAI) has launched an advanced automotive technology centre

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called MAI Intelligent Technology Systems (MITS). According to a statement, this centre is the first-of-its kind in Malaysia and is aimed at boosting product design capabilities and innovation within the domestic automotive components and parts supply chain.

MITS is set up to fill the technological gap within the domestic automotive sector, through a one-stop facility that integrates advanced software, hardware as well as technical consulting support for automotive parts design and development and system engineering works. The system's main hub is housed in MAI's headquarters in Cyberjaya.

Altair Engineering Sdn Bhd, a wholly-owned subsidiary of US-based simulation technology and engineering services company Altair Inc, will collaborate with MAI as the simulation technology partner for MITS.

Speaking during the launch of MITS on Aug 17, MAI chief executive officer Madani Sahari said, "In line with strategies laid out in the National Automotive Policy 2014, it is important that the industry's technological edge is strengthened, particularly in the key areas of engineering design, prototyping, product validation and process development."

Local automotive parts suppliers and manufacturers can leverage on this project to move up the product value chain, by adding local design and engineering into their present manufacturing base, MAI said. Madani said that this was vital in order to create a competitive and sustainable intellectual property and talent pool ecosystem to position Malaysia as an automotive hub for Energy Efficient Vehicles in the region.

MITS is designed to serve the entire automotive parts and components supply chain targeting, mainly Tier 1 and Tier 2 companies. It can play a key role in facilitating and helping these companies in their product design and development initiatives without the need to invest in expensive software, hardware and technical consulting services, MAI said.

"The Malaysian automotive sector is a growth engine for the nation's economy," said Altair chief operating officer Brett Chouinard. "The next immediate challenge for automotive suppliers and companies in Malaysia is to move forward to emphasise product design and engineering works, not just manufacturing," he added.

By applying simulation technologies upfront in the product design process, automotive design engineers will be able to develop innovative, weight-optimised products with better performance, according to Altair. It also allows them to validate design and optimise safety and durability parameters, while reducing design cycle times, bringing new products to the market quicker.

Altair's HyperWorks Unlimited solution which is installed at MITS will form the backbone of the facility. Users will be able to undertake different simulation tests to validate their product design and engineering processes, including crash, electromagnetic, Noise-Vibration-Harshness and manufacturing simulation, while working closely with Altair's experts in light-weight engineering and composite.

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## ***BIMobject Partners with ARCOM***

17 August 2016

Today, BIMobject, Inc., (subsidiary of BIMobject AB), announced that it has signed an exclusive agreement to provide BIM content to ARCOM for use with its new specification cloud platform, ARCOM One. The contract was signed as an open ended agreement.

ARCOM, recognized as specification experts in the design and construction industry, is the leading North American source for master guide and manufacturer product specifications. Eighty percent of the top architectural and engineering firms in the United States use MasterSpec, a product of the American Institute of Architects (AIA), which is regarded as the industry's "go-to" resource for professionally written specifications.

With BIMobject's newly added BIM content, ARCOM One users will have immediate and convenient access to the world's largest library of high-quality 3D BIM objects from leading global and U.S.-based building product manufacturers hosted on the BIMobject Cloud platform.

The overarching value to this partnership is the strength that it will bring for both companies as a unique and unmatched source of both BIM objects and Specifications throughout North America. The tight integration of the respective platforms will make it easier for professional BIM users and manufacturers to publish their BIM content connected in two cloud based resources.

"This is a great day for the commercial building and construction industry," said Doug Bevill, President of BIMobject, Inc. "Our partnership with ARCOM moves members of our industry closer to a more digital and integrated environment that creates substantial value for all parties. In my 30+ years as a building product executive, there has never been a digital specification platform of this caliber offered anywhere in the world, and I am humbled that ARCOM has chosen BIMobject as the exclusive developer, host and distributor of BIM content."

"MasterSpec provides specifiers time-saving access to reliable, unbiased product information to help them write high-quality specifications. It is only logical that we include high-quality 3D objects for our clients who prefer to work with BIM software technology, and BIMobject is the preeminent global provider of such content," said Christopher Bushnell, ARCOM President and CEO. "Our alliance with BIMobject further expands the tools we provide to ARCOM clients, as well as adding tremendous value to BIM users."

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## ***Flowserve and ANSYS to Leverage the Innovation Of Digital Twins***

17 August 2016

ANSYS announced today that Flowserve signed an enterprise license agreement providing broad access to the ANSYS® portfolio and technology specialists. By combining the power of ANSYS simulation technology with the Internet of Things (IoT) capabilities, Flowserve is one of the first companies to harness the power of digital twins – complete system virtual physical prototypes – to better serve its customers through improved product quality and performance, enhanced development productivity, optimized maintenance and reduced overall costs and risks associated with unplanned downtime.

By tapping into ANSYS' industry-leading portfolio of engineering simulation software, Flowserve can now use the digital twin to analyze real-time operational data to provide better insight and faster

## CIMdata PLM Industry Summary

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decision making while maximizing machine efficiency. Flowserve will also be able to analyze the performance of products in real-world operating conditions, make informed predictions about future performance and reduce the cost and risk of unplanned downtime.

Flowserve is pushing the boundaries of simulation beyond the product development phase by utilizing digital twins in a live operating environment. Earlier this year, Flowserve demonstrated the use of the digital twins with one of its flow control systems at the Internet of Things event, LiveWorx. As a leader in developing and manufacturing advanced pumps, valves and seals servicing the oil and gas, energy and process industries, Flowserve is expanding its use of ANSYS solutions to quickly optimize and verify product designs, shorten development cycles and create innovative world-class products.

"Our customers expect Flowserve to bring value added products and services to their business. This strategic agreement better positions Flowserve to continue delivering offerings that enable our customers to operate more efficiently and effectively," said Keith Gillespie, chief strategy officer, Flowserve. "We expect our utilization of IoT technology and ANSYS simulation capabilities to increase the value we provide when our customers need advanced flow solutions."

"IoT is changing the way companies approach the entire product lifecycle from development, testing and manufacturing to operations and maintenance," said Eric Bantegnie, vice president of systems business unit, ANSYS. "Flowserve is extending its industry leadership position using simulation-driven product development and creating additional value for its customers across the full product lifecycle by bringing together the industrial internet and ANSYS' best-in-class engineering simulation software."

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### ***Jama Software Partners With TraceTronic***

17 August 2016

Jama Software today announced a technical partnership with TraceTronic, a leader in test automation. The partnership expands Jama's testing capabilities by providing a seamless integration of test automation processes for software development of electronic control units in automotive, heavy machinery, agricultural, construction and forestry machinery. Through the partnership, TraceTronic joins Jama's recently announced Partner Alliance Program.

"Automotive customers often ask for test automation, but it can be difficult to do correctly," said Derwyn Harris, Jama co-founder and director of product marketing. "The complexity and variations of the industry demand flexibility and expertise in the testing process. TraceTronic specializes in test automation in the automotive industry, so its focus is an excellent complement to Jama."

TraceTronic provides solutions for automating the test and validation of ECU embedded systems in transport vehicles. The company offers software tools for systems tests and complex and automated functions, as well as extensive test automation services. The integration of Jama and TraceTronic enables cohesive development and testing of requirements. The result is a collaborative, web-based experience that drives quality and frees up teams to focus less on process and more on innovation.

"In a very short period, Jama and TraceTronic developed a highly efficient integrated solution," said Jens Schindler, vice president of business development for TraceTronic. "Test cases can be used smoothly with Jama, as a superior requirements and test management tool. We are impressed by how quickly the integration and collaboration based on Jama solutions is applicable for industrial users. This combined solution enhances traceability in systems engineering and testing."

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The automotive industry has become increasingly complex, while the technology needed to support it has grown exponentially over the past 10 years. These factors are compounded by increased pressure from consumers to deliver technologically advanced automobiles, as well as safety standards like ISO 26262. As a result, tier one and automobile OEMs and suppliers are seeking solutions that will automate processes to streamline development and ensure product safety. Jama recently became the first SaaS and Agile vendor to achieve ISO 26262 fit-for-purpose certification.

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## ***Propel PLM and Rootstock Team Up to Help Manufacturers Improve Customer Experience***

16 August 2016

Propel today announced that it has teamed with Rootstock to help customers easily share critical business information across Sales, Engineering, Manufacturing and Field Service departments. Because both applications are built on a common platform, the applications can work together in a single, consistent user interface to increase customer responsiveness, improve product quality, and lower product costs.

Since both Propel and Rootstock are native Salesforce solutions, joint customers can make more intelligent business decisions, while avoiding the painful integration procedure that organizations face when ERP and PLM are written on different platforms. Business users can now leverage the best of CRM, PLM and ERP in a quick and easy manner to:

- Assess and resolve the impact of field issues on customers, products and inventory
- Securely share product and operational updates with customers and partners
- Use a common reporting platform to report across customer, product and manufacturing data
- View real-time product inventory to determine optimal timing of engineering changes

To take a closer look at Propel and Rootstock in action, visit the Rootstock booth at Dreamforce 2016.

"This partnership with Rootstock extends our mission of helping companies, partners and customers propel innovation with the only PLM solution built 100 percent on the Salesforce platform," reports Ray Hein, CEO, Propel. "Rootstock and Propel customers can now use a single view of customer, product and operational data to respond more quickly and intelligently to their customers, partners and suppliers."

"This is yet another example of how our customers can easily extend their investment in Rootstock by deploying best-of-breed solutions for specific needs that complement Rootstock functionality," emphasizes Patrick Garrehy, CEO of Rootstock Software. "With this partnership, a salesperson can track an order once closed. A customer can see the impact of a potential engineering change. A production controller can be alerted of a change coming down the pipeline and plan capacity utilization. All from the Salesforce portal that they are already familiar with and use every day."

Being built on the Salesforce platform, both companies' users can connect and collaborate with all customers, suppliers, employees and other stakeholders via Communities, Chatter and all popular social media platforms. Leveraging Salesforce1 mobile access, they can communicate via iPhone, iPad or Android. They will be seamlessly integrated with Salesforce Sales Cloud, Salesforce Service Cloud, and popular accounting solutions. Users can get useful and accurate dashboards, reports, alerts, custom metrics and key performance indicators (KPIs) using a very powerful analytics, reporting and querying

engine.

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## ***PTC Announces Availability of LiveWorx 2016 Presentations Online***

17 August 2016

PTC LiveWorx 2016 presentations are here. The presentations can be accessed at [www.plmconnections.com](http://www.plmconnections.com). Signing up is free.

Presentations include:

- Creo Surfacing and Industrial Design Product Update
- Who Wants to be a Creo Engineer?
- 3D Printing: The Benefits of Additive Manufacturing, From Design to Production
- Materials Knowledge Management: For Engineering, Cost, and Sustainability - For Creo and Windchill
- Best Practices in the Integration of Windchill with ERP Systems
- IoT is PLM
- ThingWorx Software Content Management
- MAN Truck: A Digital Transformation Journey
- Smart and Connected Support: Using Data Analysis to Recommend Solutions for PTC
- Integrating Wearables With Smart TVs And IoT

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## ***PTC Appoints Andrew Timm as Chief Technology Officer***

16 August 2016

PTC today announced that Andrew Timm has been appointed as the company's Chief Technology Officer (CTO). In this role, Timm will drive the company's technology innovation, alignment, and governance processes. Timm will work closely with PTC President and CEO Jim Heppelmann and other technology leaders to achieve PTC's goal of providing the leading technology platform that innovators use to bridge the physical and digital world, fundamentally changing the way we see and interact with the things around us.

"I can't think of anyone with proven, real-world technology skills that are deeper and broader than Andy's," said Jim Heppelmann, president and CEO, PTC. "Andy's deep experience with our traditional products, coupled with his knowledge of and passion for the Internet of Things make him uniquely qualified to drive PTC's technology transformation, and further accelerate our ability to help customers succeed in a smart, connected world."

Timm began his career with PTC before following his entrepreneurial spirit, starting a consulting company focused on helping customers derive business value from PTC software. He later brought his team to Kalypso, a PTC systems integrator partner, where he initiated the company's IoT practice and worked with ThingWorx® technology. Throughout his career, Timm's ability to build and motivate talented teams had led to his success with both customers and colleagues. Most recently, Timm served as vice president of PTC's Technology Platform Group, where he energized the technical dimension of

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its IoT partner program.

"Having spent the bulk of my career working with PTC technology, I am honored to take on the vitally important role of Chief Technology Officer," said Andrew Timm. "It is thrilling to have the opportunity to drive and accelerate the technology transformation at PTC in these exciting times."

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## ***PTC Named Internet of Things (IoT) Leader by Two Industry Analyst Firms***

11 August 2016

PTC today announced that it has been named "IoT Platform Market Leader" in the "IoT Platforms Market Report 2015-2021," published by IoT Analytics, and the "Industry 4.0/Internet of Things Vendor Benchmark 2016," report published by Experton Group. Both research and consulting firms recognize the effective and easy-to-use rapid application development capabilities of the ThingWorx® IoT platform, the strategic investments on the part of PTC to develop a robust IoT platform, and strong ecosystem partnerships.

With 18% market share, PTC is the IoT platform provider market share leader, according to IoT Analytics. The report recognizes early market leadership and software experience as key strengths of PTC, which "has emerged as a strong delivery focused challenger." Additionally, IoT Analytics cites the strategic partnerships PTC announced with GE and Bosch in 2015 as being essential for IoT platforms to prosper with multiple systems communicating throughout the IoT ecosystem.

"PTC has spent over \$600M in strategic investments to align their existing enterprise software business with future IoT solutions," said Padraig Scully, vice president, market research, IoT Analytics. "The well-chosen acquisitions will enable PTC to develop an end-to-end IoT platform including connectivity (Axeda), application enablement (ThingWorx), analytics (ColdLight), augmented reality (Vuforia), and industrial automation (Kepware). PTC's existing enterprise software business in CAD, PLM and SLM is expected to evolve into a closed-loop approach, integrating sensor data to improve product design and service."

In its market survey, the Experton Group compared the portfolios and competitive strength of Industry 4.0 / Internet of Things key vendors and service providers. The report highlights how the ThingWorx rapid application development, analytics, and device management capabilities result in a competitive advantage and a unique selling proposition (USP).

"PTC, with its ThingWorx IoT platform, can be regarded as the leader in this market segment, having secured a strong starting position through the acquisitions of ThingWorx in 2013 and Axeda in 2014," said Arnold Vogt, senior advisor, Experton Group. "As compared to many other IoT platforms, the ThingWorx platform is an important USP for PTC. Regarding the ecosystem, PTC is also ahead of its competitors and has already built up a marketplace with 200 apps around ThingWorx."

Additionally, Experton Group ranked PTC as "Market Leader" for Industrial Big Data Analytics, stating that the ThingWorx Analytics solution has the potential to allow extensive interaction of analytical functions, measure control and regulate functionality.

"IoT Analytics and Experton Group ranking PTC as IoT market leaders further validates the strategy and direction that we are taking with our IoT solutions," said Jim Heppelmann, president and CEO, PTC. "From thought leadership to technology to partnerships, PTC is focused on empowering its customers with tools and solutions to capitalize on the Internet of Things. PTC is bridging the digital and

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physical worlds to help create a new wave of connected products and services that will transform business and enable enterprises to accelerate time to value.”

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## ***Rescale Opens Tokyo Office***

17 August 2016

Rescale Inc. today announced the establishment of a new business entity Rescale Japan K.K. and an office in Otemachi, Chiyoda-ku, Tokyo in order to accelerate Rescale’s growth in the Japanese HPC market. To meet increasing demand from Rescale’s customers in Japan and oversee new and existing partnerships, Rescale appoints Atsuhiko Fukuda as the General Manager of Rescale Japan.

Atsu brings rich experience in cloud and HPC enterprise sales in Japan to the company. Prior to joining Rescale, Atsu was responsible for enterprise partner sales at NVIDIA Japan and partner and OEM sales at Sun Microsystems. At Rescale, he will leverage his industry ties and local market knowledge to expand and deepen Rescale’s presence in Japan, where HPC and cloud computing are strong sectors of Japan’s leading IT industry. Atsu says, “I am very excited to be joining Rescale and look forward to evangelizing Rescale’s unified cloud HPC platform throughout Japan to give our customers affordable, customizable, and intuitive cloud computing for a variety of HPC applications.”

The first international office for Rescale marks an important step in the company’s expansion of its product to global customers. With an expanded presence in Japan, Rescale will be able to better serve its existing partners and customers in Japan, as well as build and foster new relationships. Japan is home to a number of companies on the bleeding edge of R&D in automotive, rendering software, and deep learning. The new Tokyo office will provide better access to these customers, whose demanding computational needs and specialty hardware requirements are well-aligned with Rescale’s product offering.

Rescale CEO Joris Poort shares Atsu’s excitement, saying, “Japan is a critical market for Rescale, and we are lucky to have Atsu joining us to lead our growth in Japan. Atsu’s experience, relationships, and knowledge of the Japanese HPC market will help us meet the increasing demands from leading Japanese companies to shift from legacy on-premise hardware systems to the latest cloud HPC platform technologies.”

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## Events News

### ***Aras to Present at Configuration Management Process Improvement Center Annual Event***

2 August 2016

Aras today announced the company will present at the CM Trends 2016 annual conference hosted by the Configuration Management Process Improvement Center. Taking place August 29 – 31 in San Antonio, Aras is part of the line-up of industry presentations by Boeing, Cummins, Northrup Grumman, CIMdata, and other industry experts at the annual event highlighting trends, industry standards and specific topics in configuration management.

The presentation by Marc Lind, Senior Vice President of Aras, is entitled “Configuration Management

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and the Business of Engineering” and gives an overview of today’s product landscape in the face of increasing product complexity and connectivity. Product development has transformed full scope to include Electronics, Software, Packaging, Services, IoT, Cost, Compliance, Variants-Options, etc. The presentation illustrates how Configuration Management provides the foundation for a flexible PLM system that enables innovation and connects the enterprise.

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### ***Vectorworks, Inc. and SCIA, Inc. to Sponsor Concrete BIM Workshop***

18 August 2016

Global design software developers Vectorworks, Inc. and SCIA, Inc., along with the Maryland and Virginia chapters of the Ready Mix Concrete Association (MRMCA, VRMCA) and the Maryland chapter of the American Concrete Institute (ACI) are hosting the inaugural Concrete Buildings with Building Information Modeling (BIM) Workshop for contractors, developers, architects, engineers, owners and educators. Taking place at Vectorworks’ headquarters at 7150 Riverwood Drive in Columbia, MD on September 20, 2016 from 9:00 a.m. until 5:00 p.m., the workshop’s sessions will examine BIM’s effect on the concrete design industry, delivery and the construction process.

“BIM is changing how we design, construct and manage the built world. We’re thrilled to team up with Vectorworks, the Ready Mix Concrete Association and the American Concrete Institute to explore the benefits BIM brings to the concrete delivery process,” said Daniel Monaghan, managing director at SCIA, Inc.

Planned sessions during the workshop include:

- Driving BIM in Concrete: Christopher Brown, structural engineering manager at Skidmore, Owings & Merrill LLP (SOM) and chair, ACI committee 131 on BIM of Concrete Structures
- Concrete BIM Workflow Demonstration: Dan Monaghan, managing director at SCIA, Inc. and Robert Anderson, vice president of integrated practice at Vectorworks, Inc.
- The Legal Side of BIM: Michael Bomba, Esq., director and lawyer at American Institute of Architects (AIA)
- BIM and Energy Analysis: François Lévy, AIA, architect, author and principal of Lévy Kolhaas Architecture
- Expressive Design in Concrete: Steve Alden, AIA, architect and thought leadership director at Vectorworks, Inc.

In addition to the presentations, lunch will also be provided. The sessions will conclude at 3:30 p.m. with an optional happy hour following from 3:30 p.m. to 5:00 p.m.

Tickets are \$25 for the workshop and are limited to a first come, first served basis. Tickets can be purchased online prior to the event, or at the door, dependent upon availability.

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## Financial News

### ***Synopsys Posts Financial Results for Third Quarter Fiscal Year 2016***

17 August 2016

Synopsys, Inc. today reported results for its third quarter of fiscal year 2016.

For the third quarter of fiscal year 2016, Synopsys reported revenue of \$615.2 million, compared to \$555.8 million for the third quarter of fiscal 2015, an increase of 10.7 percent.

"In our fiscal third quarter, we again delivered strong results across the board and are raising our annual revenue, non-GAAP earnings per share, and operating cash flow targets," said Aart de Geus, chairman and co-CEO of Synopsys. "While semiconductor consolidation has continued, investments in EDA and IP by semiconductor and systems companies are robust as they tackle highly complex designs within unforgiving market windows. Our state-of-the-art products, along with expert engineering support, are key differentiators for us. We are also making good progress in the promising new software quality and security market. Lastly, we continue to drive long-term shareholder value through prudent organic investments, value-creating acquisitions, and returning \$325 million to shareholders in the form of share repurchases this year."

Read the full report here: <http://news.synopsys.com/2016-08-17-Synopsys-Posts-Financial-Results-for-Third-Quarter-Fiscal-Year-2016>

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## Implementation Investments

### ***IRCCyN French Research Institute Relies on Adams-Simulink Co-Simulation for Comprehensive Understanding of Robot Behavior***

27 July 2016

MSC Software Corporation today announced that the Research Institute in Communications and Cybernetic of Nantes (IRCCyN), a scientific institution linked to the French National Centre for Scientific Research (CNRS), is using Adams multibody dynamics simulation software to validate theoretical works done on a visual servoing system to control a parallel robot based on observation of the legs.

The vast majority of robots are controlled through the use of encoders that measure joint rotation. But even when encoders with very high levels of accuracy are used, the ability of robots to move to an absolute XYZ position and ABC orientation is limited by deflection, thermal expansion and manufacturing variation. Some applications, such as placement of a disk drive read head, require very higher levels of positioning accuracy that can only be achieved with a very expensive, special purpose robot. This challenge is being addressed with visual servoing technology that uses a vision system to acquire an image that determines the relative positions of the robot end-effector and the target. Visual servoing can achieve placement accuracies of just a few microns without requiring a very expensive robot.

Complications arise where it is not possible for the vision system to acquire an image of the end-effector. The alternate approach is to acquire an image of the legs of the robot and use them to control

the end-effector position. The visual servoing based on the leg observation is equivalent to controlling another "hidden robot" in the controller, and this concept fully explained the initial possible non-convergence of the observed robot to the desired position and orientation.

IRCCyN used Adams simulations to validate this concept of a "hidden robot model" to improve visual servoing accuracy. The hidden robot is a virtual robot whose kinematics represents the mapping between the leg direction space and the end-effector position and orientation space. IRCCyN researchers decided to attempt to determine a general method to define the hidden robot model for any type of parallel robot controlled by visual servoing based on observation of the legs.

"Adams simulations have played an important role in validating our theoretical work on hidden robot models," said Sébastien Briot, Researcher at IRCCyN. "The integration of Adams with Simulink through Adams/Controls eliminated the need for us to write complex equations for predicting the dynamics of parallel robots. It also provided graphical results that gave us a better understanding of robot behavior."

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## ***Jaguar Land Rover Partners with Dassault Systemes for Business Solution***

16 August 2016

Having passed through the corporate hands of Ford, Jaguar Land Rover (JLR) has emerged within Tata Motors as an exciting, dynamic global enterprise. Due to its varied ownership history, JLR inherited a complex and mixture of auto industry software from its previous owners, not scaled or supportive of JLR's aggressive business plan. To enhance innovation and reduce development time, JLR has partnered with Dassault Systèmes to deploy solutions in a business transformation program called i-PLM.

Immediate benefits include creating, seeing, experiencing and sharing data in a Version 6 environment, translating into time savings of up to 40% for some specific roles in product development.

Watch the video case study here: <http://www.3ds.com/customer-stories/single/jaguar-land-rover>

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## ***Nova Group, Inc. Selects Viewpoint to Increase Visibility Across the Organization***

15 August 2016

Viewpoint Construction Software® is pleased to announce that Nova Group, Inc., a long time customer, has increased its investment in Viewpoint by purchasing Vista™ by Viewpoint. Nova Group is a general engineering contractor and specialist in building aircraft fueling systems and marine facilities for the U.S. Department of Defense. The company has a project portfolio that stretches throughout more than 30 of the United States, as well as internationally in Canada, Guam, Israel, Qatar and Diego Garcia.

Nova Group's existing ERP was being discontinued, and with a growing portfolio of projects across the globe, the organization needed to find a flexible, scalable and integrated ERP. "We were already finding value in using Viewpoint's Content Management, so it was natural to consider Vista when exploring a new ERP solution. Viewpoint demonstrated superior functionality and the ability to easily adapt to many of our existing processes without expensive customization nor dependence on additional 3rd party tools," stated Walt Birdsall, CFO at Nova Group. "We were attracted to Vista because it stood out as a user-friendly, configurable solution built on a modern platform. We have also been impressed with the

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fact that Vista is designed first and foremost to support the needs of construction operations and has been upgraded and adapted to meet changes in technology as well as changes within the construction industry. We are confident in Viewpoint's ability to provide us the support we need now and for years to come."

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## ***Swedish Outdoor Brand POC Selects Centric Product Lifecycle Management***

16 August 2016

Swedish outdoor brand POC has selected Centric Software to provide its PLM (Product Lifecycle Management) solution. POC specializes in protective gear for gravity sports and cyclists.

Founded in 2005 in the ski racing market, POC debuted with new products to improve safety by reducing the force transmitted to the brain and body in case of a crash. The company has developed a strong reputation for gravity sports and cyclist's protection and is now established in 25 countries. The brand is rapidly growing and sought a PLM solution to help streamline operations and add flexibility to operations based on best practices.

"With our business expanding, we needed support to manage the complexity that comes with growth while still keeping us nimble," says Stefan Ytterborn CEO & Founder.

Like many growing brands, POC was working with standard office tools, including a lot of spreadsheets. Monica Lindström Senior Manager Apparel explains, "As we expand our activities, we couldn't use spread sheets anymore. We decided to look for a solution that would enable us to enhance visibility and transparency and take control over our supply chain from assortment planning to product development."

Centric's fashion expertise, solutions and customer references made the difference. "I worked with other PLM systems in the past and I am impressed with Centric's solution which is specifically designed to answer apparel market needs based on industry best practices. This really makes a huge difference," continues Lindström.

"Centric Software understood our business right away and we received positive feedback from our team. I am convinced Centric will help us bring better products to the market faster," declares Ytterborn.

Chris Groves, CEO of Centric Software says, "We are excited to be part of POC's growth plans. Because best practices are incorporated into Centric PLM, we can help assure methodical and profitable growth as POC expands its high quality product offering."

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## ***Using Solid Edge and Femap, Brovedani Delivers Higher Volumes with Greater Accuracy (Siemens Case Study)***

16 August 2016

"Until recently, the engineering organization was based in San Vito, where the entire product development cycle and subsequent modifications requested by customers were carried out," notes Mainardis. "Currently, to handle our outsourcing and distribution operations, we must keep all project development and update activities under strict control. We want everyone to comply with corporate standards and to share all information. An engineering change carried out in Mexico, for instance, can be useful in other locations, so it must be distributed and accessible throughout the group."

Enter Teamcenter® software for complete PLM and even smarter decisions. Brovedani and other key Brovedani representatives evaluated the software, and then did so again with the support of CCS Team. “Our target is to finalize the project and be up and running by the end of 2012,” he says. “Today, the group employs almost 1,000 people, with approximately 50 persons directly involved in engineering data management. By implementing Teamcenter, we plan to make technical information also available to our people in manufacturing, sales, provisioning and other business areas.”

[Read the full case study here.](#)

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## Product News

### *Autodesk BIM 360 Expands to Support Design Team Collaboration*

15 August 2016

We are excited to announce that BIM 360 Team has joined the BIM 360 portfolio of services. Formerly A360 Team, BIM 360 Team has been widely adopted by design teams across the AEC and Manufacturing industries for years.

BIM 360 Team is built for architecture and engineering professionals. Through a cloud platform, it enables your team to design, review and iterate on projects from conceptual design through construction documentation.

BIM 360 continues to focus on delivering technology to support construction project workflows and empower project stakeholders throughout the construction project lifecycle. The launch of BIM 360 Docs earlier this year extended the BIM 360 portfolio to stakeholders earlier in the lifecycle — supporting processes like constructability reviews and creating a single data repository to share information between project stakeholders. BIM 360 Team now expands that reach even further. Now, starting at conceptual design, BIM 360 supports construction project collaboration and workflows through handover and operations.

BIM 360 Team gives design teams a central location to communicate, view, markup and review both 2D and 3D project design files from anywhere. This helps design teams to gain consensus faster, make decisions together and build stakeholder engagement.

Design, review and iterate on projects from conceptual design through construction documentation.

With BIM 360 Team, you can:

- Access a single online workspace for all project team members helps distributed team stay connected and organized at all times
- Let all team members, not just design authors, view, comment and markup design models
- Hold live review sessions with built-in browser sharing
- Track the design process with version history and control to help ensure that every design discipline has access to the latest information
- Access critical project information from anywhere — within a web browser or mobile device

To learn more about BIM 360 Team, visit their site.

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## ***Caster CAD 3D App Now on Android Devices***

5 August 2016

Colson Group USA is pleased to announce that Caster CAD 3D is now available for Android devices. The updated app allows users across multiple mobile platforms to explore Colson Group's interactive 3D caster catalogs 'on-the-go'. App users can quickly configure a part number and download or deliver CAD models and datasheets to anyone with an email address.

"We have had great success with Caster CAD 3D," said Brad Kish, Director of Marketing/Communications. "Our customers have been asking for an Android version since its original launch, and we are now happy to deliver on this request. The Android app features the same great functionality as our iOS app, allowing fast delivery of great caster content—including 2D/3D CAD models and our very popular interactive 3D PDF datasheets. It is the content our customers need to allow them to walk away with all the pertinent specifications and allow easy integration into their designs. We have received tremendous feedback on how it is saving many of our customers' time, and ensuring that they have a viable and trusted product specified."

The benefits of Caster CAD 3D are:

- Downloadable 2D or 3D CAD models are completely free and in a user's native CAD format
- Interactive models can be easily configured for user-specific needs
- Interactive 3D PDF datasheets give you all pertinent specifications and a 2D drawing
- World-View allows visualization of a model on physical products
- Models, visualizations, and data sheets can be quickly shared with teams

The 3D CAD Models are compliant with major world standards and are suitable for use in current CAD systems. Caster CAD 3D is a free app and is now available on Google Play and the App Store.

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## ***Gerber Technology Announces Integration Between YuniquePLM and Texbase***

17 August 2016

Gerber Technology announces the integration between YuniquePLM® and Texbase™, helping companies simplify their delivery of innovative and socially responsible products in the apparel, footwear, home textiles and consumer products industries.

Texbase offers a complementary solution in parallel to YuniquePLM's rich feature set by providing a detailed way to automate and certify compliance requirements, manage color approval and lab dip tracking, manage materials and testing for development and quality assurance as well as secure collaboration with supply chain partners.

Joe Walkuski, Founder and CEO of Texbase said, "The synergy between our solution and YuniquePLM results in a win-win for mutual customers. Used in conjunction with YuniquePLM, customers are able to fulfill their complex material, testing and compliance requirements and simplify the way brands achieve transparency across their supply chain. The integrated solutions will help companies gain detailed

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insight into their supply chain empowering them to be proactive when making strategic decisions."

"Our partnership with Texbase is built upon a shared goal of helping our customers simplify processes, increase efficiency and enable collaboration," said Clayton Parker, manager, PLM product management. "With Texbase, brands, retailers and manufacturers are able to achieve greater innovation, product integrity and corporate social responsibility through increased visibility and traceability throughout the supply chain."

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## ***Kepware Releases to Expand Interoperability with the ThingWorx IoT Platform***

16 August 2016

Kepware Technologies, a PTC business developing industrial connectivity software, today announced the release of KEPServerEX® version 5.21. The release extends the connectivity options available within KEPServerEX and expands interoperability with the ThingWorx® IoT Platform, further enabling the rapid development and deployment of smart-connected solutions for the Internet of Things (IoT).

KEPServerEX version 5.21 introduces the new ThingWorx native client interface, a fully-integrated solution built to provide rapid connection to industrial things—including PLCs, RTUs, PACs, DAQs, controllers, and more. The ThingWorx native client interface extends KEPServerEX and leverages Kepware's library of 150+ communication drivers to provide real-time, bi-directional industrial controls data to the ThingWorx IoT Platform.

"This latest product release improves upon what is already the industry's strongest solution for IoT connectivity and rapid app development," said Tony Paine, Platform President, Kepware. "The integration provided through the new ThingWorx native client interface gives customers and ThingWorx application developers access to even more options for connectivity and control—streamlining operational efficiencies and delivering better results."

The update also features a KEPServerEX Extension for the ThingWorx IoT Platform, which allows users to quickly and easily connect and configure ThingWorx-developed applications to KEPServerEX. The extension automatically configures a KEPServerEX remote thing template within ThingWorx and provides services to browse, read, write, and interact with the configuration. It is provided free of charge with the KEPServerEX installation or through the ThingWorx Marketplace.

"At PTC, we are firmly committed to ensuring that the solutions across our entire IoT portfolio are intuitive and highly interoperable," said Rob Gremley, Group President, Technology Platform Group, PTC. "Customers who choose to standardize on technology from PTC can trust that we are going to provide a seamless experience. This latest release from Kepware is a testament to that commitment."

In addition to the new ThingWorx native client interface, KEPServerEX version 5.21 also includes 18 updates to the server, select drivers, and advanced plug-ins.

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## ***openBoM Expands Onshape BOM Management Capabilities***

15 August 2016

openBoM, the world's first cloud BOM management tool specifically designed to help manufacturing companies manage and track BOMs across organizational and geographic boundaries, is now available

# CIMdata PLM Industry Summary

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as an app seamlessly integrated within the Onshape environment, the world's first full cloud CAD solution. openBoM addresses the pain of data handover between design environments (CAD) and engineering environments (BOM). Onshape users now have a means to improve processes linking design and engineering by having direct access to a flexible BOM management and collaboration tool built directly into their design environment. Moreover, openBoM's unique collaborative capabilities and integration with other MCAD and ECAD systems expands Onshape BOM management and enables multidisciplinary BOM support and integration with suppliers and contract manufacturers.

Available now in the Onshape App Store as an integrated app, openBoM provides Onshape users in addition to its unique BOM management and collaboration features, the following:

- Ability to create a shareable BOM within an Onshape document;
- Access to the openBoM BOM editor directly within an Onshape document tab;
- Generate a BOM from an Onshape workspace with various assemblies and parts options;
- Create new and edit existing BOM properties;
- Bi-directional update of Onshape data attributes and openBoM properties; and
- Share a BOM within Onshape and collaborate with others, even with non Onshape users.

“We are happy to offer Onshape users improved data handover between their designs and Bills-of-Materials,” said Oleg Shilovitsky, CEO and Co-founder of openBoM, “by providing a uniquely flexible BOM management and collaboration tool to manage BOMs and at the same time, support real time collaboration and simultaneous BOM editing.” “openBoM's BOM management tool integrated within the Onshape environment will give our users an industry first ability to effectively link their CAD designs with BOM management,” said Joe Dunne, Partner Program Manager at Onshape.

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## ***Technology from Altair Now Available to NVIDIA High Performance Computing Customers***

18 August 2016

NVIDIA customers worldwide using the power of Graphics Processing Unit (GPU) High-Performance Computing (HPC) to address vital work in fields including artificial intelligence, deep learning, self-driving cars, and virtual reality now have the ability to improve the speed and reliability of their computations through a new technology collaboration with Altair to integrate PBS Professional®.

Features in Altair's PBS Professional® HPC workload management software are now available to Data Center GPU Management Tool NVIDIA DCGM users and enable new functionality and performance levels with:

- Pre-job node risk identification and GPU resource allocation
- Automated monitoring of node health
- Reduced job terminations due to GPU failures
- Increased systems resiliency via intelligent routing decisions
- Increased job throughput via topology optimization

# CIMdata PLM Industry Summary

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- Optimized job scheduling through GPU load and health monitoring

"We are truly excited to bring this functionality to NVIDIA's global GPU user community," said Dr. Bill Nitzberg, CTO for PBS Works, Altair. "They did a great job of enabling the technical collaboration and we look forward to seeing their customers get ever-better computing performance to support their research, development, and analytics applications."

Duncan Pool, Director Platform Alliances – Accelerated Computing, NVIDIA, notes that, "Altair has been a great partner throughout the process of developing and deploying these new performance tools to our users, aligning well with our intense focus on providing a best-in-class GPU application environment."

Altair PBS Works technical support staff will work closely with NVIDIA DCGM users running PBS Professional® to implement the new functionality on their computing platforms.

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## ***Tinkercad Beta Launches***

15 August 2016

When you open the Tinkercad site on Tuesday August 16<sup>th</sup> you will have access to the Beta version of our new editor as well as to the traditional editor.

The site has been rebuilt in order to scale as we keep growing the number of users and complexity of models. The new architecture also allows us to make changes more easily. We expect to be able to provide faster updates from now on.

We are looking forward to building the future of Tinkercad together.

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## ***ZWCAD Mechanical 2017 for Mechanical 2D Drawing is Now Available***

18 August 2016

ZWSOFT has announced today that ZWCAD Mechanical 2017, a manufacturing specialized product with many tools specific for mechanical 2D drawings, is now available. ZWCAD Mechanical 2017 provides tools like shaft generator, tolerance dimension, surface texture symbol, balloon and BOM, standard parts and many more. Revision is quite easy, double clicking and modifying the variable eliminate the need to remove and re-create the original objects which save hours of work.

Built on ZWCAD and it is 100% DWG compatible

ZWCAD Mechanical 2017 is ZWCAD, except ZWCAD Mechanical 2017 has included an additional mechanical module and it provides extra tools for manufacturing. It can open and write DWG/DXF/DWF files and it is 100% compatible with other mainstream CAD software.

Easy switch between international drafting standards

ZWCAD Mechanical 2017 delivers consistent and standard-based production results. It supports many international drafting standards such as ISO (International), ANSI (American), DIN (German), JIS (Japanese) and GB (Chinese). It also provides an easy way to customize standards for enterprises themselves.

# CIMdata PLM Industry Summary

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## Intelligent balloons and BOMs association

ZWCAD Mechanical allows users to quickly draw standard-based balloons and then align and renumber them easily. It only takes one step to create a BOM, and standard parts can be automatically recognized and summarized to the BOM.

Every change to the balloon will be updated to the BOM, which ensures that data are always correct and up-do-date.

## Flexible and advanced dimensioning

For users to simplify tasks of annotating mechanical drawings, ZWCAD Mechanical 2017 provides flexible and advanced dimensioning functions. For example, with abbreviated dialog boxes, users can control and expand only the variables relevant to manufacturing, as well as integrate tolerance and fit list information. Smart dimensioning tools force overlapping dimensioning to automatically space themselves appropriately.

ZWCAD Mechanical 2017 is now available in 32-bit version.

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