

Contents

Acquisitions	3
Dassault Systèmes Acquires Netvibes	3
Netvibes Acquired by Dassault Systèmes, Accelerating the Future of Dashboard Intelligence for Brands and Enterprises	4
CIMdata News	5
CIMdata in the News: “Coping with the Analysis Data Deluge; the growth of simulation spurs a new quest for data management”	5
“Simulation-based Design: PLM’s New Foundation”, By Keith Meintjes, Simulation & Analysis Practice Manager at CIMdata Inc.	5
Company News	11
A New Instructor for Axial Compressor Fundamentals & AxSTREAM Workshop in Boston, USA (April 23rd – 27th)	11
Apache Design’s RTL Power Model Technology Honored with DesignCon 2012 Award	12
ASCON and Lightworks Announce Results of Rendering Contest	12
AVEVA Opens New Office in Genoa, Italy	13
Cadac Group Renews Microsoft Partner Network Status	14
Dassault Systèmes Appoints Brand Equity Expert Monica Menghini to Drive Industry Solutions and Reveal New Strategic Horizons: 3DExperience	15
ESI Group Reinforces Its Leadership Team: Appointment of Naury Birnbaum as Chief Strategic Officer	15
NobleTek Announces IBM Business Partner Relationship for Tivoli Enterprise Asset Management Software & Solutions	16
SofTech Files Patent Application with the USPTO	17
SolidProfessor Announces New Inbox Learning Series for SolidWorks Flow Simulation	18
SolidWorks’ Let’s Go Design Web Series Delivers “Hot Rod Baby Buggy”	19
Synergis Achieves Platinum Status, Autodesk’s Highest Tier for VARs	19
Vuuch Eyes Growth, Rounds Out Executive Team with Industry Veterans	20
Events News	20
Anark Announces MBEWorks™ for SolidWorks 2012	20
AVEVA and LFM sponsor and exhibit at the FARO 3D Documentation Conference	21
Boeing Emphasizes Importance of Standards at the CADENAS PARTsolutions Industry Forum	22
CEI to be the Exclusive Visualization Sponsor at the FLOW-3D World and European User Conferences	23
Concepts NREC Opens New Wilder Manufacturing Facility with a February 6 Open House	23
Delcam to Show Latest Dental Software in Australia	24
IBM, Samsung and GLOBALFOUNDRIES to Showcase Next-Generation Chip Technology at March Forum	26
Kenesto to Premiere at SolidWorks World 2012	26
Registration Opens For 2012 Collaboration & Interoperability Congress	27
Sescoi’s Complete Productivity Package at Metav 2012	28
Tacton Systems Showcases TactonWorks 4.4.1 at SolidWorks World 2012	29
2012 ANSA & μETA Nordic Open Meeting, March 7, Göteborg, Sweden	30
WorkNC Dental Open Dental CAD/CAM on Show Around the Globe	31
xPLM Solution to Showcase the Certified Gold SAP integration for SolidWorks Enterprise PDM at SolidWorks World 2012	33
Zero Wait-State to Showcase Enterprise PDM Solutions at SolidWorks World 2012	34

CIMdata PLM Industry Summary

Financial News	34
Cadence President and Chief Executive Officer Lip-Bu Tan to Present at the Morgan Stanley Technology, Media & Telecom Conference	34
Dassault Systèmes Posts Record Revenue and Earnings in 2011 as PLM Adoption Drives License Revenue Growth of 20% in Constant Currencies	35
IFS Year-End Report 2011	41
MasterControl Reports Strong Fourth Quarter and Annual Sales	44
MecSoft Announces Strong Sales Growth for 2011	45
SpaceClaim Announces 110% Sales Growth and Continued Expansion of Sales Channel	45
Synopsys Announces Earnings Release Date for the First Quarter Fiscal Year 2012	46
2011: Lectra's Record Financial Performance, for the Second Consecutive Year	47
Implementation Investments	51
Autodesk Alias Software Helps Volvo Car Corporation's Vision of Luxury and Good Design	51
Bentley Partners with Crossrail to Provide Collaborative BIM tools for Europe's Largest Construction Project	52
CDS Catalog, CAD Download and eCommerce Solution Live on GAM, Inc. Website	53
CSR Selects Synopsys for Advanced-Node SoC Design	53
Delcam's PowerMILL "the Best For Five-Axis" Claims Viking Yachts	54
Engineered Arresting Systems Corporation (ESCO) Selects MSC Software's Adams	55
Hydrovolts Uses Autodesk Software to Create Plug-and-Play Water Turbines	56
Jaguar Land Rover Selects EMC Isilon to Drive its Simulation Operations	57
KKCL (KILLER JEANS), the Largest Denim Brand in India, Installs TUKAsystems	58
Mitsubishi Aircraft Selects PTC to Ensure New Regional Jet Meets Aircraft Reliability and Maintainability Goals	59
SofTech Case Study: Cryogenic Industries Gels with ProductCenter PLM	61
Strand Aerospace Malaysia Uses MSC Software to Improve Structural Analysis Efficiency	62
Turkey's Largest Public Banking Organization Selects EMC Documentum to Drive Business Transformation	62
Product News	63
Cadence Collaborates with Samsung Foundry to Deliver Design-for-Manufacturing Solution for 32-, 28- and 20-Nanometer Chip Design	63
Dassault Systèmes Opens New Horizons with 3D Experience	64
DigAnaRS Releases DARS v2.08: Cutting-edge Chemistry Simulation for Advanced Combustion Engineering	65
InterSpec Announces New e-SPECS Navisworks Plug-In Console	66
Invention Machine Launches Breakthrough Software to Boost Innovation & Productivity	67
Latest Round of Innovations for SAP Business Suite Anticipates Customer Needs	68
Mastercam X6 Mill Brings Efficiency and Automation	69
MecSoft Announces VisualMILL® 2012	70
SmartCAM V18 Features New Mill/Turn Sub-Spindle and B-axis Support, Milling Morph Pattern; Updated ACIS Kernel, Usability Improvements Also Added	70
Sustainable Minds Announces Custom Data Creation Program for Greener Product R&D	72
TurboViewer Pro v1 Debuts for Android	72
Zuken Announces E³.WireWorks Unified Release	73
ZW3D 2012 Beta 2 Arrives with Extended Modeling Enhancements	74

Acquisitions

Dassault Systèmes Acquires Netvibes

9 February 2012

Dassault Systèmes announced today the acquisition of Netvibes, an award-winning brand in dashboard intelligence technologies to enrich its 3D Experience platform.

Netvibes is an internet platform that delivers a holistic snapshot of any key information related to ‘my company’ or my ‘personal interest’. Netvibes offers an easy and fast way to create personalized dashboards for real-time monitoring, social analytics, knowledge sharing, and decision support.

Netvibes helps Fortune 500 brands such as the Coca-Cola Company and the US Department of Energy or advertising agencies like Digitas and Universal McCann to monitor, analyze and understand everything inside and outside their company in real-time with dashboard intelligence, easily connecting critical information for better decision-making. All companies today face the challenge of adapting to the increasing speed and volume of information coming from multiple enterprise systems and the real-time Web. Netvibes allows companies to connect internal enterprise platforms, databases or systems with external cloud apps, social feeds and live sentiment monitoring to create a real-time dashboard.

Netvibes also helps more than 4 million people each month to create intelligent dashboards to manage their daily digital lives. This ‘people application’ is a free version and a personal dashboard that helps anyone monitor and personalize everything that matters to them from the news, Facebook, Twitter, photos, videos, and an ecosystem of more than 260,000 Web apps via any desktop or device, including iPhone, iPad and Android. This versatility has made Netvibes one of the most recognized brands on the Web. Its ease of use, scalability and universal platform openness are key reasons why enterprises rely on Netvibes business solutions to deploy customizable, real-time dashboards for their organization.

With the acquisition of Netvibes, Dassault Systèmes reaffirms its belief that virtual worlds can improve the real world. Integrated into Dassault Systèmes’ 3D Experience platform, Netvibes will help customers reveal critical information such as consumer sentiment, brand image or the adherence rate of early adopters. Listening to everything and learning from everyone will allow companies to act in real-time, increasing the speed of innovation.

“Our vision is to provide ‘social information experiences’ to the business world and consumers; holistic views on everything that matters, both inside and outside the company, in order to innovate,” said Bernard Charlès, President and CEO, Dassault Systèmes. “Netvibes is a perfect fit for our 3D Experience platform. It will connect information related to all product, service and user experiences from internal and external data sources, all in real-time and in-context for a better, richer experience and decision-making process.”

Freddy Mini, CEO, Netvibes added, “This partnership was born out of our mutual vision to bring Dashboard Intelligence to company platforms and processes, as well as real-time information to everyday people. To achieve this ambitious vision, we needed an ambitious partner like Dassault Systèmes, whose deep authority as global technology leader will rapidly accelerate our efforts across the enterprise world. Combined with Dassault Systèmes’ 3D Experience platform, we will provide customers with real-time information critical to their innovation process. The time between consumer reaction and business action is the key to providing the best experience possible.”

For more information: <http://www.3ds.com/netvibes>

 [Click here to return to Contents](#)

Netvibes Acquired by Dassault Systèmes, Accelerating the Future of Dashboard Intelligence for Brands and Enterprises

9 February 2012

Today, Netvibes, a leading dashboard intelligence platform, announced that it has been fully acquired by Dassault Systèmes.

“With the birth of the real-time Web, companies need to adapt to everything and everyone inside and outside their borders. To accomplish this, we need a way to connect and combine different products and uses, internal and external data sources, personal and professional apps, and human curation and algorithms—across all devices and departments, in real-time and in context,” said Bernard Charlès, President and CEO, Dassault Systèmes. “Netvibes' Dashboard Intelligence technology makes this possible.”

Netvibes helps Fortune 500 brands, agencies and enterprises understand the real-time Web and everything inside and outside the organization with Dashboard Intelligence: dashboard technologies that connect everything together for better decision-making. Netvibes' dashboard publishing platform and Universal Web App (UWA) technology enable Social Enterprises to integrate all internal Enterprise platforms, databases and systems together with external cloud apps, social feeds and live sentiment from across the real-time Web, and deploy it seamlessly across all desktop and mobile platforms with native-like UI.

This move brings Netvibes' Dashboard Intelligence technology to Dassault Systèmes 3DEXperience platform, empowering Social Enterprises and users at all levels to:

Listen to everything: Aggregate enterprise data (structured and unstructured, processes and platforms) with the real-time, social Web (news, social feeds and apps)

Learn from everyone: Analyze all layers inside and outside the Enterprise, by combining individual and social intelligence with algorithms and data intelligence for smarter results

Act in real-time: Adapt to make better, faster decisions with intelligent alerts that respond to internal data or public sentiment and trigger automated business actions

Dassault Systèmes enables companies to experience the world, from parts to products (e.g. planes, medical devices, buildings), from individual workers to supply chain and distribution (e.g. stores), from designing to experiencing usage scenarios. Netvibes specializes in understanding the Web in new ways, to reveal customer sentiment, brand identity and emerging influencers. Together, Netvibes contributes to Dassault Systèmes' vision to Experience Everything in the world and on the Web.

“This partnership was born out of our mutual vision to bring Dashboard Intelligence to the entire world and all platforms and processes. To achieve this ambitious vision, we need an ambitious partner like Dassault Systèmes, whose deep authority as global technology leader will rapidly accelerate our efforts across the Enterprise world,” said Freddy Mini, CEO, Netvibes. “Imagine understanding how syncing product design and global brand sentiment would enable the ultimate end user experience. This vision will become our reality.”

Netvibes customers and users will benefit from the global resources, deep technology and algorithms Dassault Systèmes is known for around the world. Netvibes' website, products and team will continue to

CIMdata PLM Industry Summary

provide the same dashboard experience the Netvibes brand is known for by millions of users and hundreds of agencies, brands and enterprises around the globe.

“If you like Netvibes, you will love the new Netvibes. Our brand, business, website and team will stay. What will change is that all our products will innovate even faster thanks to our deep relationship with Dassault Systèmes,” said Mini.

“With the acquisition of Netvibes, a Web 2.0 leader, Dassault Systèmes will provide the most advanced cloud offer for enterprise,” said Tariq Krim, Founder, Netvibes, Founder and CEO, Jolicloud.

To learn more about Netvibes Dashboard Intelligence products and get a private demo, visit:

<http://www.netvibes.com/en/enterprise>

About Netvibes

Founded in 2005, Netvibes pioneered dashboard publishing, user personalization and universal Web apps (UWA). Today, Netvibes is a leading dashboard intelligence platform for the real-time Web, with offices in San Francisco and Paris.

For consumers, Netvibes Basic is a dashboard engine that helps millions of people around the world instantly dashboard everything that matters to them most. For marketing professionals, Netvibes Premium is the complete dashboard intelligence platform for brand monitoring, social analytics, campaign management and much more. For large agencies, brands and enterprises, Netvibes for Enterprise adds advanced collaboration features and offers custom deployment and development. For more information, visit: <http://www.netvibes.com>.

See Also: Netvibes [Blog](#)
 Netvibes [FAQs](#)

 [Click here to return to Contents](#)

CIMdata News

CIMdata in the News: “Coping with the Analysis Data Deluge; the growth of simulation spurs a new quest for data management”

1 February 2012

Should you treat simulation as part of your product lifecycle management (PLM) strategy, and should you store simulation information in your product data management (PDM) system? Can you manage simulation as you would a business process? What is the best approach? Desktop Engineering’s Kenneth Wong asks these questions in his article “Coping with the Analysis Data Deluge”. To learn more click [HERE](#).

The CIMdata report, “Simulation Lifecycle Management” cited by Mr. Wong is available [HERE](#).

 [Click here to return to Contents](#)

“Simulation-based Design: PLM’s New Foundation”, By Keith Meintjes, Simulation & Analysis Practice Manager at CIMdata Inc.

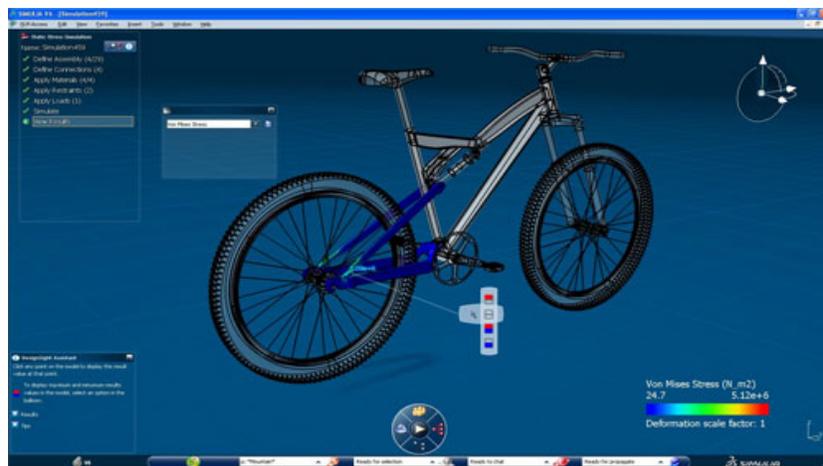
February 2012

CIMdata PLM Industry Summary

The current capability for simulation-based design (SBD) presents great opportunities to quickly engineer new products. SBD enables designers to evaluate the performance and function of new products directly from digital expressions of the physics and of functional requirements. For the first time, engineers can start a design—points, lines, angles, numbers, and all the rest of it—working directly from specifications and requirements, without having to resort to trial-and-error prototype testing and development.

This is computer-aided engineering (CAE), which complements computer-aided design (CAD). It is giving a powerful push to collaborative product development but there are new issues to be managed. SBD can result in an explosion of data with an unprecedented variety and complexity.

SBD is rapidly becoming embedded in new-product engineering from concept development to detailed design, then on through product integration to manufacturing, “mechatronics” (embedded controls), ergonomics, and assembly. SBD has also penetrated purchasing, field service, marketing, safety, sustainability (economic as well as ecological), regulatory compliance, traceability and much else.



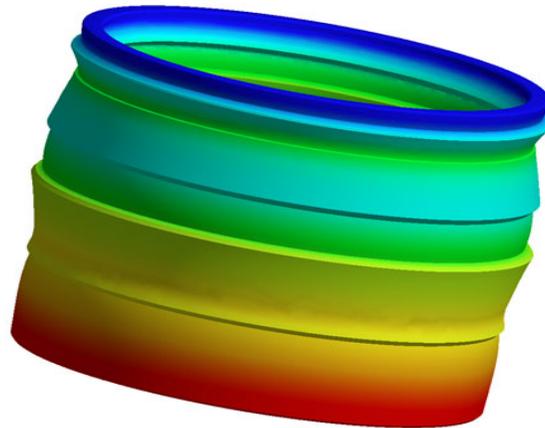
Dassault Systèmes’ SIMULIA Version 6 DesignSight product suite guides designers through a series of actions to prepare the model, run the simulation, and view the results. The designer interacts directly with the design to define load location, orientation. Courtesy Dassault Systèmes’

In the words of Louis Sullivan, “Form ever follows function. This is the law.” In mechanical design, CAD describes the form. CAE simulation evaluates (or predicts) the function. SBD is a cornerstone of the model-based enterprise or MBE, and we see that, indeed, form follows function. Simulation requires (and generates) far more data than is simply required to describe the product’s shape and geometry in a CAD system.

Peter Bilello, president of [CIMdata](#), frequently points out that, “thanks to SBD, far more information about the development of new products is available now than ever before. But compared to CAD and the very basic information-handling approach of product data management or PDM,” he cautions, “what is happening now presents significant challenges to engineering.”

He adds, “The complexity of SBD and its volume of data have the potential to stymie collaboration among engineers in new-product development. The good news is that collaboration itself offers solutions to SBD’s challenges. This is yet another reason why collaborative product development is the most important of all sustainable competitive advantages,” Bilello says. He adds that SBD is a vital component of product lifecycle management (PLM).

CIMdata PLM Industry Summary

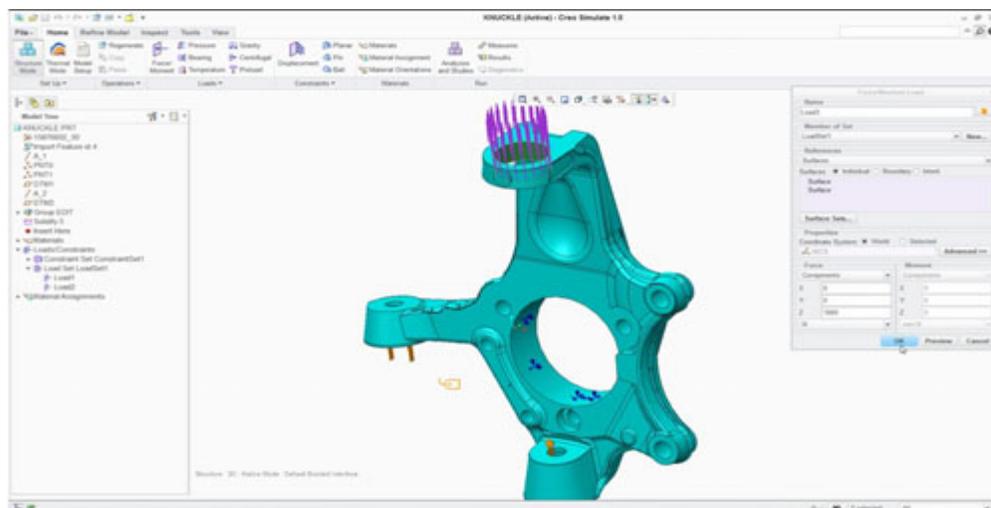


The auto-focus lens undergoing CAE analysis, in this case for shock loading and vibration. Courtesy SpaceClaim Corp.

The word “simulate” is of primary interest here. Simulation determines how well a new product will meet its design criteria, how well the capabilities will match the demands of the intended customers. Because SBD starts with simulation, it offers unprecedented opportunities to quickly engineer new products. SBD does this by changing the traditional CAD-first, then-CAE paradigm for new-product development. In the traditional approach, CAD operators define geometry for release to manufacturing. Prototype testing and simulation then evaluate the (completed) design’s performance, concurrently with its preparation for manufacturing. If a performance issue is found it results in disruptive design changes, which can be very expensive if manufacturing commitments have been made.

There are two key technology enablers for SBD. One is the ever-increasing speed of computers, combined with very capable software. Four decades ago, it would have taken 41 months to complete the engineering calculations that today can be done in one second. The other enabler is technologies to easily and rapidly create and modify geometry suitable for simulation. In particular, “direct modeling,” a CAD technology, frees simulation from dependence on CAD specialists to provide geometry. This potentially brings geometry inside the process where simulation is used to find optimum designs.

SBD enables better, more robust designs in less time and at less cost. In the engineering of manufactured goods, this part of the digital revolution is as compelling as Moore’s Law in electronics. Direct modeling systems are now offered by various providers, and are often integrated or coupled with simulation applications.



CIMdata PLM Industry Summary

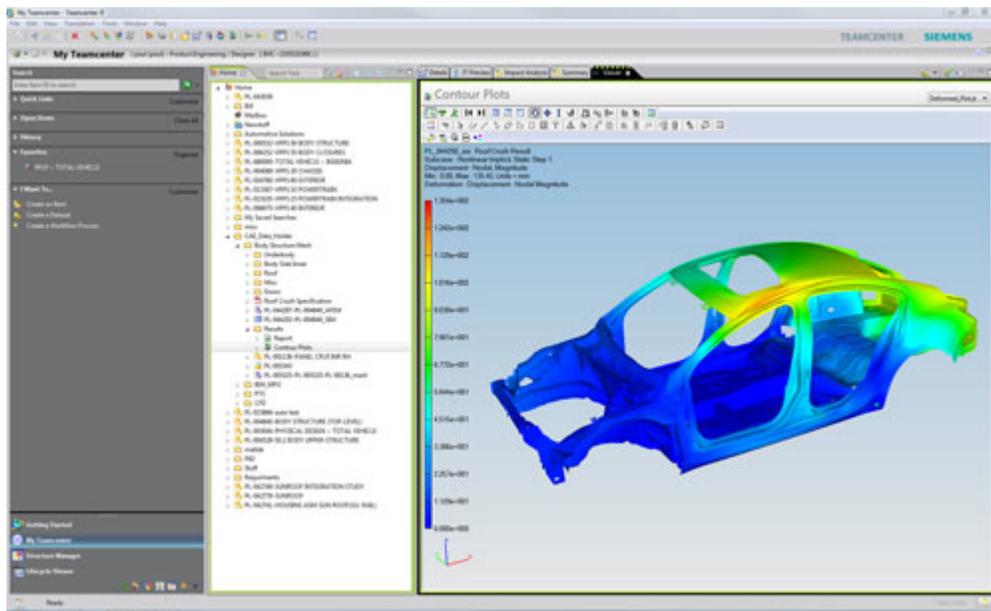
Creo Simulate- Applying Loads and Constraints. Courtesy of PTC

Every revolution, of course, has its “however.” To name just three for SBD:

- Many different product representations are required for simulation, depending on the physics involved; this makes the data management problem for CAE much more complex than for CAD.
- Using simulation to optimize designs and to analyze robustness to variation—in manufacturing tolerances or material properties, for example—can result in thousands of simulations rather than just one.
- MBE is an exercise in optimization across multiple functions, for example the cost, weight, strength, and durability tradeoffs involved in material choice.

CIMdata strongly believes Systems Engineering principles must be used to manage SBD, and that systems engineering activities like requirements management must be much more closely coupled to design and simulation than they have been in the past.

All the foregoing has big implications for collaborative product development, which is a key element in CIMdata’s business. CIMdata is the leader in market analysis and consulting to implement enterprise-level strategies, PLM in particular.



Visualization of CAE results using lightweight formats such as JT directly within the data management environment enables teams to collaborate more effectively for better decision making. Courtesy of Siemens PLM Software

Silos: Frustrations and Opportunities

Those who have been frustrated with implementing enterprise-level strategies often blame organization charts. “Org charts” are said to be littered with silos of expertise that do not or cannot or simply will not “talk to each other.” Blaming high-level systems failures on a supposed failure to communicate between specialized engineering units is unfair to the engineers in those silos, and unduly harsh to the managers who run the silos.

This lack of comprehension is the real cause of so many organizations’ inability to agree on how best to handle the explosion of data that they all share, sometimes painfully. Working with the silos—giving them the tools, systems and strategies they need— rather than approaching them as if they were the

CIMdata PLM Industry Summary

problems will ensure that silos are part of the solution. Resistance to change is real. Knowledgeable, persistent pushback by innovators is the only effective antidote.

The real challenge is the near total lack of standardization in the explosion in digital information that cascades through, and between, the silos. This calls for an in-depth understanding of the multitude of CAE formats and their specific purposes plus an intense focus on the flows of data within and between engineering units (silos).

Proven approaches include the venerable practice of data modeling and, in particular, “commonizing”—focusing on what SBD information and data have in common. Focusing on the differences, the usual approach, only leads to frustration. As a part of data modeling, commonizing and related technologies can mature into enablers for collaboration.

It must be considered that different functions or silos require different information, and that only some of their information is required to be shared to another silo. An automobile windshield provides a good example. The information required to manufacture the windshield is generally different than that required to ship it or to assemble it on to a vehicle, though the data required certainly has overlaps.

Different performance simulations require different representations of the windshield. For the aerodynamics of the car, the exterior surface is required. For occupant comfort, the interior surface is required. The windshield is also an important element in vehicle structural stiffness, where it is modeled as a sheet, meaning that the average of the interior and exterior surfaces is required. Other simulations for occupant safety, ergonomics, solar load, etc., all have unique requirements to describe the windshield.

There are proven approaches to overcome potential snags:

- Understanding why data is created, not just how, and who needs to reuse it.
- Using metadata, or data about data, to keep track of databases scattered across most of the planet’s time zones. Automakers have estimated that the engineering data for any new vehicle resides on as many as 20,000 CPUs, which run as many as 200 different CAE solvers.
- Determining whether FEA test and simulation data is to be kept in its “raw” form, as uncertainties may be introduced by pre-processing and post-processing.
- Deciding how best to handle specific file types. A file containing a first step in an analysis is reused very differently from an (finite element analysis) FEA results file.
- Recognizing why materials data is a source of variability equal in importance to part geometry. IT experts estimate that engineering-oriented companies have databases of hundreds of materials. Some have hundreds of attributes that are lifecycle-managed through dozens of versions.
- Determining levels of granularity, which embodies the tradeoffs between file size and relevant detail.
- Incorporating any custom translators developed among adjacent silos and departments, provided their users understand them.
- Acknowledging that software vendors contribute to the collaboration problem by continually segmenting their offerings for new organizational needs structures.
- Using lightweight file formats such as 3D PDFs for data redistribution.
- Managing engineering workflows with flexible templates.

CIMdata PLM Industry Summary

- Stifling extraneous “phantom” requirements that complicate workflows, slow down data transfers, or deter nervous users.

These challenges are not trivial and, taken altogether, can be daunting. But they are not insurmountable, either. Successful implementations are regularly achieved by determined, focused teams. The best teams contain users, software vendors, and experts from outside the company as well as from IT.

From our experience, such a team would start with what we call the shared-drives issue. Engineering information is scattered across hundreds of disk drives in dozens of locations. Effective collaboration requires that these drives and their contents are known. Nearly all new-product information is created on drives “shared” by engineering units and, yes, silos.

In CIMdata’s opinion, it is unrealistic to assume or plan that all engineering data will be consolidated in a single database. The data is distributed, much of it in functional silos. It is important to understand which data needs to be shared, and to come up with strategies to share information as required. OSLC (<http://open-services.net/>) is one such initiative.

The need for, and success of, SBD is driven by tough global competition, increasing regulatory scrutiny, concerns about environmental sustainability and “greenness,” excessive energy use, and transparency in supply networks. Nothing new there. Of the many impacts these drivers have on collaborative product development, two stand out:

- More people than ever have a hand in product development but many have little or no technical background, engineering or otherwise. The presence of all these people and their organizations/silos of expertise is often misrepresented as the big org-chart speed bump in the road to implementing enterprise-level solutions. These people are in fact the opportunity.

- Collaboration in product development is more important than ever—even as it becomes more difficult, partly as a consequence of widespread SBD adoption. This difficulty is addressed by commonizing data to minimize redrawing and re-creating as data is reused across the enterprise.

To come back to Peter Bilello, “meeting the data commonizing challenges can resolve many of the interoperability problems among engineers’ tools,” he points out. “This can provide incentives for engineers anywhere in the organization to buy into enterprise-level solutions. The benefits to future products, both near-term and long-range, will be well worth the effort.”

Clarifying the terminology:

S&A is a core process of new-product development and manufacturing, and CAE applications are its tools.

SBD is a goal toward which most engineering organizations are striving. PLM builds upon SBD (and CAD, CAE, and PDM) to create enterprise-level strategies for managing an organization’s intellectual assets. PLM unites people, processes and technology.

Keith Meintjes

Keith Meintjes is the Simulation & Analysis Practice Manager at CIMdata. He has over 30 years of experience in the development of simulation tools and in their application to transform product development. His career spans academia, industry, and consulting. He holds B.Sc. and M.Sc. degrees in Mechanical Engineering / Aeronautics from the University of the Witwatersrand, Johannesburg, South Africa. He also holds an M.A. and a Ph.D. from Princeton University.

 [Click here to return to Contents](#)

Company News

A New Instructor for Axial Compressor Fundamentals & AxSTREAM Workshop in Boston, USA (April 23rd – 27th)

10 February 2012

A new Turbomachinery Fundamentals Teacher / Consultant joins SoftInWay's team and efforts to advance the turbomachinery design practice and support our colleagues and clients in designing and optimizing more efficient compressors.

First class as a SoftInWay Teacher will be Axial Compressor Fundamentals.

Mr. Joseph Veres has over 40 years experience in design, analysis and optimization of axial and centrifugal compressors and turbo pumps. His extensive turbomachinery experience consists of research and management positions at NASA Glenn Research Center, Dresser-Rand (formerly Dresser-Clark) and Teledyne Brown (formerly Teledyne CAE). During his time at these research and manufacturing icons, Mr. Veres developed and worked on an impressive number of new turbomachines for Defense, Propulsion and Petrochemical application as well as participated in various Environmental and Educational initiatives.

To know more about Mr. Veres and other SoftInWay teachers, visit:

<http://softinway.com/education/teachers.asp>

SPECIAL BONUS: ALL attendees of the AxSTREAM Workshop will receive a 1-Month Complimentary License to use AxSTREAM software - a value of over \$20,000.

Past Students Testimonials:

"The course provided by SoftInWay Inc, fulfilled and in addition surpassed our requirements/expectations. After a thorough update on the theoretical part, the in house program of SoftInWay Inc AxSTREAM was interactively demonstrated by practical test cases, which were accompanied by extensive course material & illustrations. This is an intensive course which I can recommend to anyone in need of theoretical & practical knowledge on turbines."

Danny Ketelaar

Sulzer Turbo Services Rotterdam

Course Information:

The SoftInWay program for Boston, USA consists of 2 independent parts, Fundamental Theory of Axial Compressors and AxSTREAM workshop. All students are given the option to take one or both of these courses, based on their interests and objectives.

Part 1. Axial Compressor Fundamentals (April 23 - 24, 2012)

Axial Compressor Fundamentals is the theory part of the program and covers the fundamentals of thermodynamics, gas dynamics, structural analysis, and basics of Axial Compressors and their elements. This comprehensive course expands upon the engineers' existing knowledge base of axial compressor design and operation and helps them refresh and grow from the perspective of professional development

and engineering practice.

Part 2. AxSTREAM Workshop (April 25 - 27, 2012)

The AxSTREAM workshop is a part of the program that teaches the participants to design and optimize the flow paths of turbomachinery equipment using AxSTREAM. During this interactive, hands-on workshop, the engineers will use the AxSTREAM software to successfully perform preliminary design of turbomachinery flow paths, inverse and direct 1D/2D analysis and optimization, 3D profiling/stacking of the airfoils, 3D FEA and CFD, and exporting of results to 3D CAD programs.

The training includes break-out sessions, hands on tutorials, one-on-one design consultation with SoftInWay experts and review of actual test cases. Each attendee can choose a particular track of study based on his/her specific interests.

To register for this course, please visit:

[Http://Www.Softinway.Com/Indexe.Asp?Txtpage=Education/Registration.Asp](http://www.softinway.com/Indexe.Asp?Txtpage=Education/Registration.Asp)

 [Click here to return to Contents](#)

Apache Design's RTL Power Model Technology Honored with DesignCon 2012 Award

7 February 2012

A technology from [Apache Design, Inc.](#) — an [ANSYS](#) subsidiary — has earned an award for an electronics tools that simplifies customer design processes. RTL Power Model (RPM™) won DesignCon 2012's DesignVision Award in the System Modeling and Simulation Tools category. Launched in late 2011, RPM technology enables organizations to optimize a wide range of power-sensitive applications, such as ultra-low-power electronics. The product helps ensure that power-related decisions can be made with confidence early in the design flow by bridging the power gap from register-transfer-language (RTL) design to physical implementation.

This is the second DesignVision Award for Apache; its first was for PowerArtist™ technology in 2009.

DesignVision award winners were selected based on three criteria: how well the product met the market's vision and offered unique insight into customer needs; the originality of the solution and if it offered a new approach to meeting market needs; and the quality of the implementation and how well it fits the market requirements. RPM accurately predicts integrated circuit (IC) power behavior at the RTL level with consideration for how the design is physically implemented. As a result, the technology helps to enable chip power delivery network (PDN) and IC package design decisions early in the design process, as well as to ensure chip power integrity sign-off for sub-28nm ICs.

 [Click here to return to Contents](#)

ASCON and Lightworks Announce Results of Rendering Contest

8 February 2012

[ASCON Group](#) and [Lightworks](#) announced the results of a competition organised for users of the professional MCAD solution, KOMPAS-3D, with its Artisan Rendering system.

The photorealistic contest is a brand new event for both the organisers and for KOMPAS-3D users. Many of the participants were trying rendering for the first time – the projects were created by designers, engineers, students of institutes and even schools.

CIMdata PLM Industry Summary

The Contest's expert Judging Panel included specialists from ASCON and Lightworks as well as independent experts. The Panel's choice of winner was unanimous – and the best project was named "Summer House" by Leonid Platonov. He received a super-prize – a digital reflex camera.

The winning project: "Summer House" by Leonid Platonov

"Summer House" is compositionally well-designed with good placement of furnishings, - said Slava Kashirsky, International Product Manager at ASCON. - The jury concluded that there was an excellent choice of camera characteristics and perspective, as well as good use of light sources. The designer's skillful usage of all of these components led us to our choice of winner."

David Forrester, Managing Director at Lightworks agreed, adding "This image has good lighting, properly selected materials and demonstrated excellent photo montage!"

The finalists of the photorealistic contest were: "Compressor" by Alexander Kulbashnogo, "Steam" by Mary Shepelenko and "Room" by Alexander Voytyuk.

 [Click here to return to Contents](#)

AVEVA Opens New Office in Genoa, Italy

7 February 2012

AVEVA announced it has opened a new office in Genoa, Italy to support the growing Italian market. The office will offer sales and support for all AVEVA's products and solutions, as well as hosting training courses and customer events.

"AVEVA's product portfolios, particularly our Engineering & Design solutions in the plant and marine markets, has seen a significant growth in demand across Italy over the last year", said Daniel Gennaro, Country Manager – Italy, AVEVA. "In order to expand our services and support capabilities we required a space that reflects our rapidly expanding market position and will enable us to realise our growth objectives. The new office enables us to host key customers and prospects due to its locality, as well as the ability to offer essential product and solution services, such as onsite training".

Fredy Ktourza, Senior Vice President West EMEA added, "Genoa has a long tradition in the power, metal and shipbuilding industries and is an ideal location. It supports our drive to continue winning market share against our competitors and it will allow us to play a much greater role in the Italian market".

AVEVA has over 120 customers in Italy including major owner operators and EPCs in industries such as Power and Oil & Gas and shipbuilding

The new office address is:

AVEVA Italy

Piazza Borgo Pila, 39

Torre B - Piano 14

16129 Genoa

Italy

Sales Tel: +39 010 541 230

Sales Fax: +39 010 863 11 86

Sales email: info.it@aveva.com

Support email (Plant): supportplant.italy@aveva.com

Support email (Marine): supportmarine.italy@aveva.com

 [Click here to return to Contents](#)

Cadac Group Renews Microsoft Partner Network Status

7 February 2012

Cadac Group has successfully re-enrolled the Microsoft Partner Network with Gold and Silver competencies. The competencies certify the in-depth technical and business expertise of Cadac Group in Content Management, Collaboration, Web Development and Learning solutions.

Gold and Silver Competencies

Cadac Group has re-enrolled the Microsoft Partner Network with the following competencies:

- Gold – Independent Software Vendor (ISV)
- Gold – Content Management
- Silver – Portals & Collaboration
- Silver – Web Development
- Silver - Learning

Independent Software Vendor

Cadac Group is specialized in offering IT solutions to create, manage and share digital design information. Next to offering IT solutions, Cadac Group is an Independent Software Vendor developing on-premise and [cloud-based solutions](#) and applications on [Microsoft SharePoint](#) and [Windows Azure](#).

The [Cadac Organice Suite](#) is a suite of solutions for Engineering Document Management & Control and is entirely based on Microsoft SharePoint. It is successfully implemented worldwide at project-driven engineering companies in the Oil & Gas, Mining & Metals, Process & Power, Equipment Manufacturing, and Building & Construction.

The [Modus 2012](#) is a cloud-based solution for Building Information Modeling (BIM) and is based entirely on the Windows Azure platform. It is successfully implemented at customers in the AEC (Architecture, Engineering and Construction).

Learning Solutions

Training@Cadac, a subsidiary of Cadac Group, is a Microsoft Partner for Learning Solutions. As a Microsoft Certified Training Center, Training@Cadac distinguishes herself with a clear focus on Microsoft SharePoint training. The extensive knowledge and expertise in Microsoft SharePoint implementations is used by T@C to enrich training content with case studies. As a result, the training content comes very close to the perception of students and real life situations. The silver competency for Learning shows that T@C is an experienced training center for Microsoft's technologies.

Technical and business expertise

CIMdata PLM Industry Summary

The Gold competencies in ISV and Content Management and the Silver competencies in Portals & Collaboration, Web Development and Learning certify the in-depth technical and business expertise of Cadac Group. This enables Cadac Group to showcase unique skills to (potential) customers in engineering industries and supporting their business IT solutions with Microsoft's technologies.

 [Click here to return to Contents](#)

Dassault Systèmes Appoints Brand Equity Expert Monica Menghini to Drive Industry Solutions and Reveal New Strategic Horizons: 3DExperience

9 February 2012

Dassault Systèmes announced the recent appointment of Monica Menghini as Executive Vice President for Industry, Marketing and Corporate Communications, and a member of the Dassault Systèmes Executive Committee. This new executive position illustrates Dassault Systèmes' commitment to its strategy of opening up new horizons for evolving enterprises of the future with 3D Experience universes.

Monica Menghini will drive the development of a unique value creation framework that involves all Dassault Systèmes innovation stakeholders to better serve industries and deliver even greater value for customers.

“We have evolved the V6 platform with our customers over the last few years. The addition of intelligent information search-based technologies, social innovation capabilities and realistic 3D virtual experiences made us ready to pioneer a new technological wave: a 3D Experience platform to serve the ‘Social Enterprise’ of the 21st century,” said Bernard Charlès, president and CEO, Dassault Systèmes. “I am convinced that within this century, people will invent and innovate more than ever before. We must provide businesses and people with holistic 3D experiences to imagine sustainable innovations capable of harmonizing products, nature and life.”

“Our ambitious roadmap and the major social transformations that our customers are going through called for the reinforcement of our executive team. Along with the widening success of the V6 platform in a variety of industries, Monica’s marketer approach and strategic skills will contribute immense value for our customers and their ecosystem,” continued Bernard Charlès. “Her proven leadership and expertise will undoubtedly help us bring Dassault Systèmes to the next stage, while building a greater user experience with each of our brands. Her mission is simple in words, while critical in fact. She will connect the dots between brand equity, product innovation and marketing excellence to ensure we bring the best value to our customers in all the industries we serve together with our partners.”

Before joining Dassault Systèmes in 2009 as vice president for the consumer goods, consumer packaged goods and retail sectors, Monica Menghini spent 13 years at Procter & Gamble, helping build 20 successful brands in 11 different categories. She then spent eight years at Saatchi & Saatchi (Publicis Group) where she served as general manager, EMEA of Saatchi & Saatchi X, the company’s shopper marketing network.

Menghini, 49 years old, holds a degree in Law from the University of Rome. She is the proud mother of two children, fluent in four languages, and a former professional volleyball player.

 [Click here to return to Contents](#)

ESI Group Reinforces Its Leadership Team: Appointment of Naury Birnbaum as Chief Strategic

CIMdata PLM Industry Summary

Officer

6 February 2012

ESI Group announced the appointment of Naury Birnbaum as Chief Strategic Officer and member of the Group Executive Committee.

In this newly created position, Naury will strengthen the international management organization and contribute to the growth strategy focusing on industry sector diversification and M&A programs.

Alain de Rouvray, Chairman and Chief Executive Officer of ESI Group, commented: “We heartily welcome Naury Birnbaum as a new member of our Group Executive Committee. Naury will contribute a unique software industry experience having participating in several major industrial software ventures in the domain of Computer Aided Engineering (CAE)”. His international experience of this market and customer-focused thinking will be key drivers to lead our international development strategy.”

A pioneer in Mechanical CAE, Naury was President of PISCES International in the 1970’s and 80’s developing, marketing, and supporting the PISCES* software globally. From 1985 to 2005, Naury was co-founder and CEO of Century Dynamics (CDI) the provider of the renowned AUTODYN software with a substantial worldwide user base in energy and aerospace applications. In 2005, CDI was acquired by ANSYS. Naury became the ANSYS General Manager for Explicit and Offshore Products. More recently, Naury was entrusted as Vice President, Business Strategy at ANSYS, active in Industry Marketing, Corporate and Product Strategy, and M&A focused on key markets in Electronics, Automotive, Aerospace & Defense, Energy, Turbomachinery, Civil Engineering, Consumer Products, and Healthcare.

Naury commented, “I am very happy to join ESI Group at a time when the Company is remarkably well positioned to accelerate its comprehensive offering of world-class virtual prototyping solutions. As a member of ESI’s Group Executive Committee I am excited by the prospect of providing leadership in formulating and executing global strategies to spur innovative Virtual Engineering in key industries and to successfully propel ESI’s growth to the next level.”

*PISCES, a leading US software for simulating high energy physics of engineering materials, was later acquired by MSC Software in 1989.



[Click here to return to Contents](#)

NobleTek Announces IBM Business Partner Relationship for Tivoli Enterprise Asset Management Software & Solutions

10 February 2012

On February 7, 2012 announced that it has entered into a reseller agreement with IBM to begin selling its Tivoli Enterprise Asset Management software, Maximo. This relationship will be the second time the two have entered into a partnership to sell Enterprise Applications to their customers.

NobleTek has chosen Avnet Technology Solutions as their value-add distributor for the IBM software offerings because Avnet was clearly able to demonstrate its ability to help a new IBM software partner launch and maintain a successful IBM software reselling practice in several high-growth vertical markets, like energy and utilities. Avnet Technology Solutions, an operating group of Avnet, Inc., is a global IT solutions distribution leader that collaborates with customers and suppliers to create and deliver services, software and hardware solutions that address the business needs of end-user customers

locally and around the world.

Dr. Vijay Vasandani, Vice President and CTO at NobleTek, is very pleased with the development, stating "NobleTek's core business is to help its customer become more productive and efficient in delivering and managing the life cycle of their products. This partnership with IBM & Avnet Technology Solutions to extend our service offerings to cover the Tivoli Enterprise Asset Management suite of products is in line with our aggressive growth strategy. It will help consolidate our partnership with many existing customers in the aerospace and entertainment industries while opening doors for new partnerships with others in the Energy, Oil and Gas, & Transportation sectors."

"It is very beneficial to the market for Avnet, the solutions distribution leader, and NobleTek, a leader in asset management, to join forces to provide complete Tivoli Enterprise Asset Management/Maximo solutions," said Dan Bridenbaugh, Director of Software, IBM Solutions Group, Avnet Technology Solutions, Americas. "Through Avnet's SolutionsPath® methodology and Destination: Industry program, Avnet is positioned to help NobleTek expand its current relationships with end-user customers and accelerate growth with new customers in key vertical markets by including IBM software solutions."

NobleTek's Director of Engineering Business Services, Brett Ade, has been managing the EAM services team at NobleTek for the past year, and is looking forward to adding product sales as a value-added part of the EAM solution for its clients. Says Ade, "With the addition of Maximo, we are now able to help our customers solve problems beyond design and engineering - in fact, all the way through to maintenance and support. Maximo directly touches many aspects of the business that PLM and Engineering Services only peripherally address, such as Work Management, Inventory Management and Procurement. We look forward to leveraging our current skillset in addition to scaling up our Maximo team so that we can better partner with our customers to solve real world enterprise problems."

 [Click here to return to Contents](#)

SofTech Files Patent Application with the USPTO

7 February 2012

SofTech, Inc. announced that it has filed a patent application with the United States Patent and Trademark Office ("USPTO"). SofTech's invention provides for an intelligent, interactive information life management system for consumers that will serve as an "everything in one place" vault, where they can list all of their tangible assets. Once populated, the information system would provide the consumer with two significant benefits:

- An organized, systematic, intelligent interface that would remind the consumer when each asset required attention such as your automobile needs an oil change and an inspection sticker or the furnace in your vacation home needs a new air filter. The database would also provide a comprehensive capability for storing information about each asset such as owner's manuals, warranty information, original cost, service providers, serial and part numbers or any other data the consumer finds relevant; and
- Aggregated, anonymous data regarding the assets contained within the information system would be available to suppliers of goods and services for the purpose of making targeted, private offers to the consumers.

SofTech has been in the product lifecycle management business for two decades and its expertise in data

CIMdata PLM Industry Summary

management and workflow are particularly relevant to this invention.

"We have been providing complex information systems to some of the largest manufacturing companies in the world. These systems provide our customers with a platform to electronically manage, in an ultra-secure environment, their proprietary product designs that are the lifeblood of their business," said Bob Anthonyson, SofTech's vice president of business development.

Mr. Anthonyson continued, "Our daily lives grow more complex with each passing day. An organized, electronic information system that provides a one stop location to manage all of this data would be extremely beneficial. When the information system alerts the consumers that one of their assets needs attention it would also provide several offers from local service providers aggressively vying for the consumers' business. We believe this system would provide a valuable service to both consumers and suppliers."

"We believe this patent could give us core intellectual property that forms the basis for a new product offering that leverages our deep expertise in providing bullet-proof, secure information systems," said Joe Mullaney, SofTech's chief executive officer. "Our mantra is profitable revenue growth and this initiative is one such idea we have been working on since the March 2011 recapitalization."

 [Click here to return to Contents](#)

SolidProfessor Announces New Inbox Learning Series for SolidWorks Flow Simulation

8 February 2012

SolidProfessor, a SolidWorks Solution Partner focused on delivering the very best self-paced SolidWorks learning and productivity resources, announces a new Inbox Learning Series on SolidWorks Flow Simulation.

SolidProfessor's Inbox Learning Series provides a way to learn SolidWorks functions in just a few minutes per day by having lessons emailed directly to those who sign up. The SolidWorks Flow Simulation series is free to sign up. The series includes 10 lessons that are delivered via email over the course of 10 days, and cover the requisite theory of Computational Fluid Dynamics (CFD), and how [SolidWorks Flow Simulation software](#) behaves.

Jason Wright, Product Manager for SolidProfessor comments, "We have always known that it can be difficult to set aside extended time for learning when workdays for most people are already so busy. We developed the Inbox Learning Series to provide a convenient way to help SolidWorks users continually build new skills in just a few minutes per day. With over 1,200 signups within the first day of the series being announced, we are excited to see such a positive response in such a short amount of time."

The Inbox Learning Series for SolidWorks Flow Simulation steps users through a complete example of a fluid flow study, and offers a glimpse into what users can expect from SolidProfessor's full Flow Simulation course. Topics in the Inbox Learning series include: Introduction to CFD, Theoretical Background, Assumptions, Flow Study Wizard, Boundary Conditions, Engineering Goals, Equation Goals, and Analyzing Results.

To sign up for the Inbox Learning Series, please visit:

<http://www.solidprofessor.com/flow-inbox.asp>

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

SolidWorks' Let's Go Design Web Series Delivers "Hot Rod Baby Buggy"

10 February 2012

[Let's Go Design Project 3](#) from [Dassault Systèmes SolidWorks Corp.](#) is a wrap! Over the past several months, the Let's Go Design team has worked with the SolidWorks community to design and prototype a "Hot Rod Baby Buggy" from the ground up. The buggy is now a reality with every element -- except the bolts -- designed using SolidWorks® software. The final episode, which went live in mid January, recaps the successes and challenges of the project and demonstrates the buggy in motion.

The buggy is a vehicle built for dads, incorporating tank treads, a windshield and an innovative steering solution. The product had to fit on the sidewalk, be all-terrain, motorized, cool and—of course—safe for babies. The verdict in the series' final episode: mission accomplished!

"Crowdsourcing is growing as a design philosophy, and the 'Hot Rod Baby Buggy' is a great example of how to succeed with collaborative design," says Jeremy Luchini, SolidWorks Certification Manager and Let's Go Design team leader. "We got a lot of great ideas from our viewers, and tackled some big challenges together, such as adhering the tank treads to the buggy. We'll be discussing crowdsourcing at this year's [SolidWorks World](#) in February, and would love to hear opinions on the outcome of this project, as well as viewers' plans for crowdsourcing projects, at the show."

All episodes of Project 3, along with previous projects in the Let's Go Design series, including the [Ultimate CAD Chair](#) and a [Multisport Practice Cage](#), can be viewed online at <http://letsgodesign.tv/>. Project design files are also available for each project. The "Hot Rod Baby Buggy" will be on display at [SolidWorks World 2012](#), February 12-15 in San Diego.

 [Click here to return to Contents](#)

Synergis Achieves Platinum Status, Autodesk's Highest Tier for VARs

8 February 2012

[Synergis Technologies, Inc.](#) announced their designation as an Autodesk Platinum Tier Value-Added Reseller (VAR), with Manufacturing; Architecture, Engineering, and Construction; and Education authorization. Platinum Tier partners comprise the highest level of the Autodesk Value Added Reseller program, which incorporates Autodesk software solutions along with measurable technical expertise in a specific industry or unique business. Platinum partners provide their customers with best-in-class full solutions from pre- and post-sales support, consulting, training, implementation, and customization. Synergis works closely with Autodesk to help customers design, simulate and analyze their ideas, increase operational efficiencies and maximize their return on investment in Autodesk software solutions.

Autodesk considers those VARs that achieve the Platinum Tier status to be the best at implementing Autodesk solutions of a particular product division or for a specific customer type. To qualify for Autodesk Platinum Tier status, a VAR must demonstrate technical and industry expertise that includes a strong knowledge of customers' business needs in the areas of architecture, engineering, construction, manufacturing, or media and entertainment. Each qualified Platinum Tier partner has demonstrated the ability to meet rigorous sales, personnel, and customer satisfaction measurements to support their level of expertise and commitment to customer success.

"We wish to take this opportunity to thank our clients for their many years of loyalty, their honest and open feedback to help us continually improve, their earnest participation in the design communities and

CIMdata PLM Industry Summary

user groups we support, and the referral clients they recommend to Synergis," said Kristen Tomasic, vice president of Synergis' Engineering Design Solutions Division. "We are fortunate to work with clients who consider relationships paramount, and who value Synergis as a long-term partner in their success."

 [Click here to return to Contents](#)

Vuuch Eyes Growth, Rounds Out Executive Team with Industry Veterans

6 February 2012

[Vuuch](#) announced the addition of two experienced executives to the senior management team. Paul Cunningham and Peter Sliwowski have joined Vuuch as the vice president of sales, marketing and business development, and the vice president of products, respectively. Cunningham and Sliwowski will help lead Vuuch as the company expands and brings the power of social technology to an enterprise audience.

"Both Paul and Peter bring outstanding experience with two of the world's most successful business software companies," said Chris Williams, Vuuch president and CEO. "Paul has extensive experience and existing relationships with a wide variety of companies and partners. He will leverage his background in distribution, sales and strategic business development." Williams continued, "Peter is a highly accomplished software product executive with extensive development expertise, including product strategies and integration efforts."

Prior to joining Vuuch, Cunningham was executive vice president of worldwide sales, distribution and managing executive of the Arbortext business unit of PTC. As one of PTC's earliest hires (employee 47), Cunningham was instrumental in the early growth phase of the company and ultimately led the companies reemergence as a leader in the PLM space, driving revenues to over a \$1B. Sliwowski spent more than 20 years at Progress Software Corporation, most recently as the vice president of product development.

"Vuuch is an exciting solution that solves a significant business problem," said Cunningham. "The cloud-based offering gives users significant advantages, including speed of implementation and ease of use. The strong positive reaction to the product reminds me of the early days of demonstrating Pro/ENGINEER."

 [Click here to return to Contents](#)

Events News

Anark Announces MBEWorks™ for SolidWorks 2012

8 February 2012

Anark Corporation announced its new 3D MBE capability integrated into SolidWorks 2012 called Anark Core MBEWorks™. This new capability will be demonstrated for the first time at SolidWorks World 2012 (**booth #405**) held at the San Diego Convention Center in San Diego California.

Anark Core MBEWorks transforms SolidWorks 2012 parts and assemblies with 3D linear dimensions & tolerances, 3D GD&T, and other 3D notes into high-resolution 3D PDF and 3D HTML MBE documents. These open formatted documents contain manufacture-quality BREP geometry, interactive

CIMdata PLM Industry Summary

associativity (between features and their 3D Dimensions and Tolerances per ASME Y14.41 "visual response"), and "machine readable" semantic definitions for each component part.

Unleash the Model Based Enterprise™

With MBEWorks you can turn your SolidWorks 3D Parts, Assemblies with 3D Dimension and Tolerance data into 3D MBE Technical Data Packages (TDPs), Requests for Quotes, Digital Work Instructions, Inspection Documents and other 3D PDF and 3D HTML based manufacturing process documents.

MBEWorks is perfect for interacting with the Department of Defense (DOD) and can both create and consume 3D MBE TDPs and 3D MBE Manufacturing Process documents. 3D MBE is the new DOD Product data strategy outlined in MIL-STD-31000.

Adopting MBEWorks will give you a significant advantage over your competition when bidding for government contracts.

Reduce Costs Across the Model Based Enterprise

MBEWorks allows SolidWork's users to dramatically reduce the costs associated with communicating dimension and tolerance information (design intent) to their internal organizations, their suppliers and their customers by replacing redundant, hard to interpret and expensive 2D drawings with a single, complete and easy to interpret 3D Model Based Definition (MBD) document.

MBEWorks also saves SolidWorks users significantly on 3D MBD/MBE deployment costs since MBEWorks creates native Adobe 3D PDF and native HTML5 formatted documents that can be fully viewed and interacted with using the Free Adobe Reader and Free Web Browsers, unlike other solutions that charge for each user that wants to fully view and interact with 3D MBD/MBE information.

The 4-Easies for Creating 3D MBE documents

MBEWorks was developed with SolidWorks users in mind. Anyone can easily create "Fit for Purpose," lightweight 3D PDF and 3D HTML MBD/MBE documents directly from their SolidWorks Parts and Assemblies, 3D Dimensions and Tolerances, Process Plans stored within Excel Spread Sheets and other sources of manufacturing data. Like other SolidWorks capabilities, the beauty of MBEWorks is in its ease of use, intuitive approach and cost effective implementation. This means that your 3D MBD/MBE documents can be easily created and deployed without special IT staff, specialists in 3D animation or expensive consultants with scripting language and XML expertise.

This is made possible because MBEWorks was developed with these 4- principles in mind:

Make it easy to connect to all sources of 3D Design and manufacturing data,

Make it easy to author 3D MBD/MBE documents that are "Fit for Purpose,"

Make it easy to publish 3D PDFs and 3D HTML MBD/MBE documents and

Make it easy to regenerate these documents when there is a design or manufacturing change.

 [Click here to return to Contents](#)

AVEVA and LFM sponsor and exhibit at the FARO 3D Documentation Conference

9 February 2012

AVEVA announced that it will exhibit at the FARO 3D Documentation Conference. Attending this

CIMdata PLM Industry Summary

important event follows the signing of an interoperability agreement between AVEVA and FARO in December 2011 and AVEVA's acquisition of the LFM Software business from Z+F GmbH in October 2011.

"AVEVA and LFM will demonstrate its entire laser scanning solution with the theme "Two Worlds Combine" following the acquisition of LFM Software last year", said Gary Farrow, VP 3D Data Capture for LFM Software. "By demonstrating our hardware neutral software, we are showing our support to all hardware vendors, including FARO. 3D laser scanning is helping owner operators improve the efficiency and extend the life of their aging plant assets by capturing as-built environments and creating accurate 3D data and models. We are very much looking forward to this opportunity to showcase our unique products and partnership, as well as continuing to work closely with FARO in the future".

"FARO is very happy that AVEVA, as one of the leaders in engineering design and information management solutions, is attending our 3D Documentation Conference", added Oliver Bürkler, Senior Technical Product Manager, Laser Scanner, FARO. "Presenting the new point cloud capabilities of AVEVA's software will pave the way for even greater adoption of this exciting technology".

The FARO 3D Documentation conference will be held at the Gaylord Palms Resort and Convention Center, Orlando, FL.21-22 February, 2012.

To learn more visit – <http://www.aveva.com/events>

 [Click here to return to Contents](#)

Boeing Emphasizes Importance of Standards at the CADENAS PARTsolutions Industry Forum

9 February 2012

The Boeing Company presented at the [13th Annual CADENAS PARTsolutions Industry Forum](#) in Augsburg, Germany. Boeing shared their current program for defining an enterprise architecture that enables interoperability of part standards to fully integrate with multiple CAD and PDM delivery systems.

Darwin Reed, who leads the initiative for Boeing, showed how PARTsolutions 3D part catalog management software has enabled Boeing to have centralized, global access to proprietary, commercial, and standards-based 3D parts, which are configurable in any CAD-native format with all associated attribute information to ensure fast part access, reuse, and compliance. Reed also spoke about how the PARTsolutions geometric search and compare technologies have been implemented and are being utilized in Boeing's design reuse scenarios on various programs to reduce the introduction of duplicate parts to achieve dramatic cost savings.

In 2011, Boeing was selected as a winner of [Managing Automation Media's seventh annual Progressive Manufacturing 100 \(PM 100\) Awards](#) for its implementation of its PARTsolutions 3D Part Catalog Management Software.

The PARTsolutions product suite delivers value to Boeing's supply chain through catalog solutions which streamline design collaboration for globally distributed teams. PARTsolutions is the only CAD-Native 3D part catalog management solution designed to preserve 3D standard part catalog content, independent of CAD system or CAD version, thereby enabling 3D standard part catalog stability for current and future engineering design environments. This allows Boeing's designers to find approved standard parts fast with confidence to incorporate into their designs, to reduce product development costs, first time quality improvements, and subsequent inventory costs.

 [Click here to return to Contents](#)

CEI to be the Exclusive Visualization Sponsor at the FLOW-3D World and European User Conferences

9 February 2012

Building on the momentum of the recently-announced collaboration between CEI (Apex, NC) and Flow Science to integrate EnSight into **FLOW-3D**, Flow Science announced today that CEI will be the exclusive visualization sponsor of its [FLOW-3D European Users Conference](#) and [FLOW-3D World Users Conference](#). At both conferences, CEI will offer free EnSight training sessions concurrently with advanced **FLOW-3D** training to be offered. The *beta* version of this EnSight integration into **FLOW-3D** will be unveiled this fall at the World Users Conference.

The **FLOW-3D** European Users Conference will be held June 25-26, 2012 at the NH Muenchen Deutscher Kaiser in Munich, Germany. Free advanced **FLOW-3D** and EnSight visualization training geared towards the casting and hydraulics industries will be held Wednesday, June 27 at Technische Universität München.

The **FLOW-3D** World Users Conference will be held in San Francisco, CA at the Hyatt at Fisherman's Wharf, September 13-14, 2012, preceded by free **FLOW-3D** and EnSight training on September 12.

“We will be soliciting design ideas for the new **FLOW-3D**/EnSight interface at the user conferences. Our goal is to include users in the design process early on so that we can deliver to them an easy-to-use, powerful, integrated tool for extracting key information from **FLOW-3D** simulations. We're excited to demonstrate to our user community the cutting-edge visualization capabilities that they will soon have at their fingertips to better understand and communicate their simulation results,” said John Ditter, Flow Science's Vice President of Software Engineering.

To learn more about **FLOW-3D**, visit www.flow3d.com. For more information about EnSight 10 visit www.ceisoftware.com.

 [Click here to return to Contents](#)

Concepts NREC Opens New Wilder Manufacturing Facility with a February 6 Open House

6 February 2012

[Concepts NREC](#) (CN) announced the opening of its new 10,000 sq. ft. manufacturing and products facility. The formerly-Woburn, MA-based manufacturing business has relocated to its new home to CN Corporate Headquarters in Wilder. To celebrate the opening, there will be an Open House on February 6, 2012 starting at 1:30 pm with a ribbon cutting, followed by tours of the entire CN facility.

CN's manufacturing unit supplies turbomachinery-specific production, inspection and testing services; and features multiple 5-axis CNC mills and turning centers capable of producing complex aerospace-quality prototypes, parts and assemblies. CN's existing manual machining equipment was also moved into the new building. In addition, CN's facility provides space for its VAROC® Air Brake-Dynamometer business consisting of assembly and test areas as well as inventory space for both machine shop and products. Dynamometers are used by military and commercial organizations throughout the world to facilitate the testing of high-speed turboshaft helicopter engines and other shaft-driven craft, without needing water or electric utilities.

CIMdata PLM Industry Summary

The move required the coordination of heavy rigging and moving contractors, electricians, and several certified 5-axis technicians working in sync to move the manufactured parts business (machine shop) and dynamometer production business line in less than two weeks and be ready for full operation in three weeks. CN can continue to supply its many outside customers with precision machined parts and assemblies, and better support CN's own engineering group with precision machined parts along with providing assembly space and equipment to support large project assemblies.

The move of the manufacturing business to Vermont has meant job growth for CN and Vermont. Hiring thus far has included several programmer/machinists, an advanced manufacturing engineer, a planner/expediter, and a product technician. Additional hiring is expected in several areas, including engineering, technicians, quality assurance, and materials management, along with personnel relocating from Massachusetts to work in Vermont. And, of course, the construction of the new manufacturing facility itself has provided opportunities for Vermont businesses led by Neagley & Chase the lead construction company from South Burlington.

The state of Vermont was pivotal in providing support for the effort. Vermont provided a portion of the building financing using Vermont Economic Development Authority funds at a very low interest rate. The Merchant's bank provided the remaining amount of funding. CN also took advantage of Vermont Employee Growth Incentive (VEGI) incentive funding provided by the state. And finally, the state is also providing offsetting training funds for the new employees.

CN, as part of the effort to relocate its Boston office once the manufacturing unit moved to Vermont, moved its remaining Massachusetts staff to a new office in Chelmsford, MA. Staff in Chelmsford includes those working in computer aided design (CAD), computer aided manufacturing (CAM) software development, project management, sales and marketing, products, and IT. The company also continues to have staff, as well as sales and technology partners, spread throughout the U.S. and the world, including CN offices in the U.K. and India.

CN, founded in 1980 by Dr. David Japikse, provides complete solution development from concept through detailed engineering, product design, performance testing, prototype manufacturing and product manufacturing. To complement its engineering services group, manufacturing and products, the company has developed, uses, and sells comprehensive turbomachinery design/analysis software. CN's Agile Engineering Design System suite of CAE/CAM Software is the only commercially available design and analysis software that encompasses and integrates the entire engineering process for radial, axial and mixed-flow turbomachinery components. In addition, CN also offers educational courses, publications and consulting services throughout the world. The company employs nearly 100 people.

CN is located off Route 5 at 217 Billings Farm Road, Wilder, VT, 05088 (Telephone: 802-296-2321. Fax: 802-296-2325). The Boston Office is located at 285 Billerica Road, Suite 102, Chelmsford, MA 01824-4174 (Tel: 781-935-9050. Fax: 781-935-9052).

 [Click here to return to Contents](#)

Delcam to Show Latest Dental Software in Australia

10 February 2012

Delcam will demonstrate a major upgrade of its software for the design and manufacture of dental implant restorations in Australia for the first time at the ADX exhibition at the Sydney Exhibition Centre from 23rd to 25th March. Significant developments in both the DentCAD design software and the DentMILL machining system will be on show.

CIMdata PLM Industry Summary

Delcam offers a complete, open implantology solution, from accurately capturing the implant position and orientation, through to the high-precision, multi-axis milling of customised abutments, implant bridges and dental bars, with a management system to track every stage of the process. The company remains committed to its drive to replace “closed” manufacturing methods, in which the user is restricted to the use of a limited range of equipment and materials, with “open” systems, in which manufacturers can combine their own choice of equipment and software, and then use a broad variety of materials. Thus, DentCAD can accept data from all leading dental scanning systems and output designs to any machining software, while DentMILL can take models from most dental design systems and generate toolpaths for a wide range of machine tools.

The major change in DentCAD is the introduction of a higher-definition method for modelling. This gives much better representation of fine details such as cusps and fissures on the tooth, and so allows a closer match to the surrounding teeth to be modelled.

It has also enabled the creation of a much more extensive and more realistic library of standard tooth designs for DentCAD. Designs much closer to real teeth can be selected from the library that require far less editing to produce the final model.

The second major change has been the incorporation of best-fitting algorithms from PowerINSPECT. These allow the positions of scan adaptors to be located to high levels of precision and so enable extremely accurate production of multi-implant restorations, such as dental bars.

Another key area for development has been dental bar design. This has been improved to give more control over the shape of the various profile sections of the bar and to make it easier to incorporate full custom abutments within the bar.

The most obvious change to DentMILL is improved integration into the DentCAD workflow, including the introduction of a new interface that replicates the cleaner style introduced in the 2010 version of DentCAD. This features a reduced number of toolbars to allow the maximum screen space for toolpath generation and simulation, together with bolder and clearer icons. The new interface has been designed in association with dental laboratories and milling centres to ensure that technicians with limited experience of computer-aided machining will find the software easy to learn and to use.

Material use has been made more efficient with improved and more flexible nesting tools to position the various restorations within the block. In particular, the ability to undertake part-to-part pinning has been added, rather than having separate sintering pins for each restoration. Background processing means that toolpath calculations can be started on the first items added to the block, while the remaining restorations are still being positioned. This approach can reduce the overall calculation times.

DentMILL has also benefited from enhancements to the latest version of PowerMILL on which it is based. These include a number of new strategies that offer smoother machining to give the best possible surface finish.

Closer integration has also been added between DentCAD and DentMILL and Delcam’s OrderManager workflow management software so that the system is updated automatically with design and manufacturing data as it is generated. This is in addition to the ability for the milling-centre staff to immediately see incoming orders, approve them and download scan data to begin the design or to download design data for machining. The additional automation makes it easier to use the system to manage all the manufacturing steps through to eventual dispatch, and to maintain a ‘real-time’ view of the centre’s total order status. Delcam’s OrderManager can be used with the full variety of manufacturing methods as it can easily be tailored to manage any milling centre’s individual process

steps.

Each customer has access to view all their orders, from initial order acknowledgement through to eventual dispatch, to check their progress without needing to contact the milling centre, so saving time for both customer and supplier. The laboratory is notified automatically if any further information is required, and when the order has been dispatched so that it can give the dentist the expected delivery date.

As well as incorporating a high degree of automation, the system has been designed to be extremely easy to use for staff at both the laboratory and the milling centre, thus minimising administration time whilst maximising feedback. All stages of each transaction are logged, providing complete traceability for every order.

 [Click here to return to Contents](#)

IBM, Samsung and GLOBALFOUNDRIES to Showcase Next-Generation Chip Technology at March Forum

10 February 2012

IBM, Samsung Electronics, Co., Ltd., and GLOBALFOUNDRIES -- forming the world's largest chip-making consortium -- will preview the future of silicon technology at the 2012 Common Platform Technology Forum to be held at the Santa Clara Convention Center on March 14.

The companies will address next-generation semiconductor innovation covering critical topics such as 28-, 20- and 14-nanometer processes, as well as innovations beyond 14nm and 450mm wafer manufacturing. Technology jointly developed by the Common Platform companies -- including more than 20 additional member companies -- power the majority of the world's mobile devices and consumer electronics.

Registration for the complimentary, one-day event at the Santa Clara Convention Center opens today. To register visit <http://www.meetingconsultants.com/CommonPlatform/IBMBLAST>

“The Common Platform alliance is built upon an unmatched legacy of invention and deep commitment to research and development from IBM. The expertise of the companies is driving breakthrough technology innovations for semiconductor manufacturing. Our extensive and open ecosystem, focused on core manufacturing capabilities, gives our customers a flexible way to bring a wide range of semiconductor products to market,” said Michael Cadigan, general manager of IBM's microelectronics division.

The Common Platform Technology Forum will include keynotes from industry leaders and presentations from senior members of the Common Platform partners' management and technical teams. The forum will focus on collaboration for technology delivery, highlighting the rich and broad ecosystem of design enablement and implementation partners through a Partner Pavilion featuring leading EDA, IP, library, mask, packaging and design services companies.

 [Click here to return to Contents](#)

Kenesto to Premiere at SolidWorks World 2012

7 February 2012

CIMdata PLM Industry Summary

Kenesto (<http://www.kenesto.com>) will demonstrate its business process automation system publicly for the first time at SolidWorks® World 2012, **booth 226**, in San Diego, CA from February 12 through February 15, 2012.

Kenesto™, now in beta testing, is a completely new, 100% cloud-based system that allows users in all departments of the manufacturing enterprise to create processes and manage work easily. Until Kenesto, users outside of engineering departments have resisted legacy systems like PLM because these systems are simultaneously complex, inflexible and expensive.

Kenesto overcomes users' reluctance to use previous-generation process systems by using computing concepts users already understand. By coupling an attractive design with sophisticated inference technology, Kenesto "learns" processes as users simply attach data and route it to the next person or organization in the process. There is no need to model a process in advance, deploy it to a process execution engine or install any client software. Kenesto runs in any HTML5-capable browser, including mobile devices running Android® and iOS®.

"We are excited to introduce Kenesto to the Dassault Systèmes community at SolidWorks World 2012," said Michael Payne, CEO, Kenesto. "We believe there is an affinity among SolidWorks customers and partners and Kenesto users. This community has always been among the first to adopt new products that are cost-effective, easy to use and which make their products more competitive. SolidWorks users who have seen Kenesto so far have confirmed that the product delivers these benefits. Now, we are pleased to share Kenesto with the wider Dassault Systèmes community."

At SolidWorks World **booth 226**, attendees and DS SolidWorks Partners will be able to see Kenesto in action and meet with the company's managers and the product definition team. One-on-one meetings will allow customers and partners to ask detailed questions in order to evaluate participation in the Kenesto beta program. Kenesto staff will be available to discuss specific processes and implementation. Customers and DS SolidWorks resellers are encouraged to contact the company in advance to set up individual meetings with company management and/or the product definition team. To request a meeting please email your request to sww2012@kenesto.com.

To learn more about Kenesto, download An Introduction to Kenesto at <http://www.kenesto.com/intro>.



[Click here to return to Contents](#)

Registration Opens For 2012 Collaboration & Interoperability Congress

6 February 2012

[Longview Advisors](#) organizers of the annual Collaboration & Interoperability Congress (CIC), announced that registration is open for the 2012 event to be held May 21 to 23 in Denver, Colorado. Design, engineering, manufacturing and IT professionals are welcome to register at (www.3dcic.com). Interested attendees are encouraged to register soon as time-limited discounts currently apply.

Now in its ninth year, the annual Collaboration & Interoperability Congress (CIC) brings together experts and executives from a wide range of discrete manufacturing industries, as well as representatives from government and defense communities. The conference addresses strategies, opportunities and solutions for improving innovation in such areas as global product development, manufacturing, logistics and support through improvements in collaboration and interoperability. The CIC event has rapidly grown into an essential forum for executives, managers, senior engineers and IT vendors.

This year's agenda includes featured general session speakers and information-packed breakout tracks,

CIMdata PLM Industry Summary

along with highly-interactive roundtable discussions with expert panelists, covering such topics as:

Building collaborative PLM into the global supply chain, including such topics as change order management, intellectual property security and management

Digital product data deployment beyond engineering

Integration of the supply chain into PLM processes

Leveraging social media within corporate environments and with suppliers

Design-analysis/simulation or design-manufacturing interoperability

PLM migration and legacy data management

Collaboration & interoperability technology and implementation

Longview Advisors also is pleased to provide free access to presentations and audio from prior events, now available at (www.3dcic.com).

 [Click here to return to Contents](#)

Sescoi's Complete Productivity Package at Metav 2012

7 February 2012

At Metav 2012 in Düsseldorf, Germany, SESCOI (**Hall 13, Booth D59**) will be demonstrating how its suite of productivity software can be used throughout the entire process chain.

Many manufacturing companies would prefer to use software from a single supplier to manage their processes from receipt of a request for quotation through to delivery and invoicing of the order. SESCOI showed how this is possible, without the need to invest in expensive software systems, at a recent seminar held with partner Ingersoll Tools in Germany. At Metav 2012, SESCOI aims to demonstrate again how its software solutions can improve the entire process chain, from the first customer contact, to CAD analysis, CAM programming for EDM, CNC machining, order delivery and invoicing. Its engineers and consultants will also show the latest developments in its WorkPLAN ERP, WorkXPlore 3D Viewer, WorkNC Wire EDM, WorkNC V21 CAD/CAM, WorkNC Electrode and WorkNC-CAD Hybrid Modeling, complementary suite of software systems.

[WorkPLAN](#) is used at the start of the process chain. This custom manufacturing ERP software shortens lead times and guarantees process reliability. The user enters the customer's request for quotation data and generates a realistic cost estimate with the help of a knowledgebase. Once the customer's order is received, the software creates a project folder that collates all information and tracks the order from creation through to invoicing, reducing administrative work and eliminating the risk of errors.

The [WorkXPlore 3D](#) viewer enables the user to examine the part to be produced in order to detect and avoid potential problem areas and to gather relevant data and dimensions in preparation for production. WorkXPlore 3D also enables a CAD model to be shared among all those people involved in a project, within the company or supply chain, facilitating communication and enabling users to work concurrently.

WorkNC Wire EDM is used for blank preparation. With minimal data entry, this software is able to generate 4-axis wire cutting paths from CAD data, making it possible to create a blank with optimized contours.

CIMdata PLM Industry Summary

Sescoi's flagship software is [WorkNC CAD/CAM](#), the latest version of which is V21. Enabling multi-threading and parallel processing, toolpath calculation times are now up to ten times faster in this new version, which also includes new features and strategies for simultaneous 5-axis machining.

Many parts feature structures and shapes which cannot be machined, and which need to be produced by erosion. SESCOI has software for this too. The interaction of WorkNC-CAD, WorkNC Electrode and WorkNC enables direct extraction of the required electrode shapes from the model geometry, which can then be milled. WorkNC is widely used in Germany, particularly within the automotive sector, where companies such as BMW, Volkswagen, Audi and Mercedes Benz are customers. WorkNC is particularly appreciated for its fast, high-quality and reliable toolpaths.

When they visit the SESCOI booth at Metav 2012 (**Hall 13, booth D59**), engineers and managers will be able to see how automated and integrated software can have a positive impact on process productivity and efficiency.

 [Click here to return to Contents](#)

Tacton Systems Showcases TactonWorks 4.4.1 at SolidWorks World 2012

6 February 2012

Tacton Systems announced that it will demonstrate TactonWorks 4.4.1 at the SolidWorks World 2012 Conference, held from February 12-15, 2012 at the San Diego Convention Center in San Diego, California, USA.

The 14th annual SolidWorks World Conference brings together designers, engineers, managers, and partners to discuss ideas, trends, and the technology shaping the future of product design. Show attendees will witness how TactonWorks and SolidWorks® software radically reduce customer-specific engineering work by automating repetitive design customization tasks.

As a SolidWorks Certified Gold Product, TactonWorks is fully embedded within the SolidWorks window, empowering users to interactively perform the design customization and sales configuration in any sequence they want, while continually viewing the updated model in SolidWorks.

“Now companies can get even more out of their investment in SolidWorks by using our add-in, TactonWorks for Design Automation and Sales Configuration, and increase their productivity. This is something that we look forward to showing the SolidWorks community at SolidWorks World”, says Anders Hellermark, Vice President Channels, Tacton Systems AB.

Tacton will showcase the upcoming 4.4.1 release of TactonWorks, which includes dynamic components (including dynamic mappings), dynamic constraints, copy & paste, improved 2D drawing control, performance improvements. and much more.

“Customers are demanding more creativity and efficiency from manufacturers, making product design and development even more challenging and putting additional pressure on engineers,” said DS SolidWorks Manager of Alliances Nick Iwaskow. “Working directly within the SolidWorks environment to access Design Automation and Sales Configuration via TactonWorks not only increases productivity, but also fuels innovation that helps engineers design better products.”

Tacton Systems can be found in **booth 625** in the partner pavilion during the conference.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

2012 ANSA & μETA Nordic Open Meeting, March 7, Göteborg, Sweden

7 February 2012

2012 ANSA & μETA Nordic Open Meeting

Wednesday March 7th, 2012

Quality Hotel 11, Göteborg, Sweden

BETA CAE Systems SA announces the 2012 Open Meeting that will take place on Wednesday March 7th 2010 at Quality Hotel 11, Göteborg, Sweden. The event aims to introduce the latest developments in ANSA and μETA Pre- and Post-Processing suite and to showcase its application in various CAE disciplines. The "Technical Discussions" session that will follow the event's closing will give participants the opportunity to meet in person with our engineers and discuss about the software features and their application.

There is no participation fee for this event.

However, for the better organization, they would appreciate if you register by email to congress@beta-cae.gr, no later than Friday February 24th, 2011.

The language of the event will be English.

The attire will be business casual.

Coffee servings and lunch are courtesy of BETA CAE Systems S.A.

Preliminary Agenda

8:00 - 8:30 Registration

8:30 - 8:45 Welcome and Product Roadmap

D. Angelis, President, BETA CAE Systems

8:45 - 9:20 ANSA Latest Developments

I. Charalampidis, BETA CAE Systems

9:20 - 9:55 μETA Latest Developments

N. Tzolas, BETA CAE Systems

9:55 - 10:25 Features & Applications in the Maritime and Offshore Industry

G. Korbetis, BETA CAE Systems

10:25 - 10:55 Coffee break

10:55 - 11:30 Invited speech:

Data and Process Management for NVH Analysis Pre-Processing in Volvo with ANSA

B. Ratama, Volvo Car Corporation

11:30 - 12:00 Simulation, Process, Data & Resources Management (SPDRM) - A New Solution from BETA CAE Systems

S. Seitanis, BETA CAE Systems

12:00 - 13:00 Lunch

CIMdata PLM Industry Summary

13:00 - 13:30 Invited speech:

Using ANSA and μ ETA for Interior Head Impact Analyses at Volvo Cars Safety Centre

A. Högberg, Volvo Car Corporation

13:30 - 14:00 Stability and Robustness of FE Dummy Models

I. Kolokythas, BETA CAE Systems

14:00 - 14:30 ANSA & μ ETA for Powertrain Analysis

I. Makropoulou, BETA CAE Systems

14:30 - 15:00 Coffee break

15:00 - 15:30 Invited speech:

ANSA as a CFD pre-processor in Vehicle Aerodynamics Education at Chalmers

A. Vdovin, Chalmers University of Technology

15:30 - 16:00 ANSA & μ ETA Latest Developments in CFD

E. Chatzivasiloglou, BETA CAE Systems

16:00 - 17:00 Closing & Technical Discussions

Venue

Quality Hotel 11 & Eriksbergshallen

Maskingatan 11

41764 Göteborg, Sweden

Web: <http://www.hotel11.se>

Important dates

Registration until: February 24th, 2012

Event: March 7th, 2012

Information & Registration

Ms Photini Paraskevopoulou

BETA CAE Systems S.A.

Tel: +30-2392-021914 +30-2392-021914 Fax: +30-2392-021828

Email: congress@beta-cae.gr



[Click here to return to Contents](#)

WorkNC Dental Open Dental CAD/CAM on Show Around the Globe

9 February 2012

Dental labs using WorkNC Dental state that they particularly appreciate the benefits of its open architecture and the machining expertise built into the software that makes it easy to use. WorkNC

CIMdata PLM Industry Summary

Dental engineers will be demonstrating the latest developments in the Version 3 of the software at a number of dental events taking place in the first quarter of 2012 - Dental Forum in Paris, ExpoDental in Madrid, the LMT Lab Day in Chicago and Dental South China in Guangzhou.

[WorkNC Dental CAD/CAM](#) software works with numerous CNC machine tool manufacturers, allowing dental laboratories to select the equipment, techniques and dental materials which best match their needs. At the Dental Forum show in Paris, WorkNC Dental will be shown in conjunction with Willemin Macodel, Charly Robot, Witech and Theis Dental. WorkNC Dental will be partnering Datron at the LMT Lab Day in Chicago; Roland and Iddentic at ExpoDental in Madrid; and Willemin Macodel at the Dental South China show.

WorkNC Dental can import scanned data from a range of dental CAD systems and scanners. The software provides margin line detection and automated nesting to make best use of the material. Users can then add support pins which will hold each prosthesis in place during the machining operations. WorkNC Dental's optimized machining wizards are tailored to all types of prosthetic material including zirconia, wax, cobalt chrome, titanium and PMMA, and to all types of machine tool. This enables dental technicians to cut dental restorations without any specialist knowledge of CNC programming and in a few clicks of the mouse.

At the upcoming dental shows, Sescoi's focus will be on the new [WorkNC Dental Implantology](#) Module. This Implantology module simplifies and automates the manufacturing of implants with the automatic import and nesting of each connector according to the scanned geometry of the implant. Dental professionals can ensure a perfect fit, regardless of the dental CAD system, and without having to change their existing equipment.

WorkNC Dental also includes machining sequences perfectly tailored to the connector geometries in its database. 3+2-axis and continuous 5-axis machining toolpath management is optimized according to the materials. The machining of prostheses, whether with or without undercuts, is completely automatic, with particular attention paid to connector finishing. The integration of the geometric data and the implant connectors within the CAM environment enables dental technicians, who are not experts in CNC machining, to machine with high precision.

Visitors to Sescoi's and partners' booths at this year's dental shows can also see [WorkNC Dental Automation](#), which starts and stops the machine tools, and plans the workshop loading, directing the workload to the next available mill. For dental laboratories, the automation of implant manufacture, combined with production management, will enable them to increase their product range and reduce administrative overheads.

Sescoi will be demonstrating WorkNC Dental at the following shows:

Dental Forum 2012, Paris, France 9-11 February 2012.

Booth: A2 and D79/C58

Expodental 2012, Feria de Madrid, Spain, 23-25 February 2012

Booth: Hall 9, Booth 9I26

LMT Labday, Sheraton Chicago & Towers, Chicago, 24-25 February 2012

Booth: 1406

Dental South China, Guangzhou, China, 7-10 March 2012

Booth:15.1 L17/18

 [Click here to return to Contents](#)

xPLM Solution to Showcase the Certified Gold SAP integration for SolidWorks Enterprise PDM at SolidWorks World 2012

26 January 2012

xPLM Solution announced that it will demonstrate its newly SolidWorks Certified Gold product, SAP integration for SolidWorks Enterprise PDM®, at the SolidWorks World 2012 Conference, being held from February 12-15, 2012 at the San Diego Convention Center in San Diego, California, USA. The 14th annual SolidWorks World Conference brings together designers, engineers, managers, and partners to discuss ideas, trends, and the technology shaping the future of product design. Show attendees will see how xPLM's SAP integration and SolidWorks® software allows customers to bi-directionally exchange documents, CAD files, BOMs, parts (material masters), classification, item status and more, bridging the gap between engineering and manufacturing with efficient and automated data integration.

As a SolidWorks Service and Solution Partner, xPLM Solution offers SolidWorks users an effective and intuitive integration with their SAP ERP system. Data and structures of both SolidWorks Enterprise PDM and SAP ERP are integrated and kept synchronized. SolidWorks Enterprise PDM users do not need to access SAP ERP interfaces, but can perform all integration activities using the SolidWorks Enterprise PDM menus and forms, thus increasing user adoption and satisfaction. In addition, robust customization capabilities are provided outside the SAP environment yielding lower support and maintenance costs to best achieve and optimize specific customer integration requirements.

“We are excited about achieving Gold certification for our SAP Integration for SolidWorks Enterprise PDM already in use by many SolidWorks customers, said Karl “Charly” Wachtel, Managing Director of xPLM Solution. “We have been working with SolidWorks Enterprise PDM customers for more than 5 years now to support their needs for efficient and automated integration between SolidWorks and SAP ERP. Our customers have been able to better integrate their engineering and manufacturing operations, streamline the release to manufacturing process while at the same time improve product quality and customer satisfaction.”

“Customers are demanding even more creativity and efficiency from manufacturers, requiring engineering and manufacturing operations to work better and closer than ever before,” said DS SolidWorks Senior Alliances & Partnership Manager Nick Iwaskow. “xPLM Solution's SAP integration helps companies to efficiently and effectively integrate their SolidWorks engineering and SAP ERP manufacturing environments. Users can now directly from within the SolidWorks Enterprise PDM environment access SAP functionality and data as well as automate the transfer of SolidWorks and other engineering data with their SAP ERP manufacturing system. This will greatly speed the release to manufacturing process and ultimately the release of new innovative products to customers.”

About xPLM Solution

xPLM Solution with headquarters in Dresden, Germany, specializes in providing integration solutions and deployment services to the PLM industry. xPLM Solution develops integrations between the leading PLM, CAD, ERP, DMU, Office and data exchange applications providing the prerequisites for carrying out successful PLM projects. The xPLM Solution team has more than 25 years of experience in the area of integration development and is at the forefront of the development and deployment of robust, multi-functional CAD, PLM and ERP integrations.

 [Click here to return to Contents](#)

Zero Wait-State to Showcase Enterprise PDM Solutions at SolidWorks World 2012

7 February 2012

[Zero Wait-State](#) announced that they will debut RAPIDaccess and RAPIDconnect, plug-in applications for SolidWorks Enterprise PDM, at SolidWorks World 2012 on February 12-15, 2012 at the San Diego Convention Center in San Diego, California. Located in **booth #137**, Zero Wait-State will also be drawing winners from their LinkedIn group, [Engineering Collaboration for PLM](#), on February 15th to determine the winner of an [Apple iPad 2 or Esmes Big Daddy rocket kit](#).

RAPIDaccess offers members of the purchasing department and others outside the engineering department ATM-like access to released drawings from a secure engineering vault. Project and program managers can also RAPIDaccess to create project reports based on the status of the engineering drawings.

RAPIDconnect allows the Agile enterprise PLM system to receive mechanical items from the SolidWorks CAD authoring tool directly through the SolidWorks Enterprise PDM interface. Featuring secure and simple access, RAPIDconnect enables Agile users to receive immediate time savings and increased data quality through its streamlined approach to design assets within the Agile environment.

“With RAPIDaccess, no one has to bother the engineers to receive drawing status information or PDFs of the released drawings. With RAPIDconnect, Agile users receive data from the source in Enterprise PDM, but in Agile item format. In both cases, everyone wins.” – Steve Ammann, Director of New Business Development at ZWS.

“I am pleased our services partner Zero Wait-State has made an additional offering to Enterprise PDM customers. EPDM is rapidly gaining market share and products like RAPIDconnect and RAPIDaccess will only enhance and accelerate the growth of EPDM” – Richard Allen, Senior Manager of PDM Product Management at Dassault Systèmes SolidWorks Corporation.

RAPIDconnect and RAPIDaccess are both available through selective SolidWorks resellers or at the Zero Wait-State [zStore](#) for download. 30-day trial versions will soon be made available as well.

 [Click here to return to Contents](#)

Financial News

Cadence President and Chief Executive Officer Lip-Bu Tan to Present at the Morgan Stanley Technology, Media & Telecom Conference

8 February 2012

Who:

Lip-Bu Tan, president and chief executive officer, Cadence Design Systems, Inc.

What:

Lip-Bu Tan will speak at the Morgan Stanley Technology, Media & Telecom Conference at the Palace Hotel in San Francisco. Tan will provide an overview of the company and participate in a question and answer session with analysts and investors.

CIMdata PLM Industry Summary

When:

Tan's address will be available live via on-demand webcast at 2:45 p.m. PST on Wednesday, Feb. 29, 2012. The presentation will be archived on the Cadence website and available for replay through 5 p.m. PST on Wednesday, March 28, 2012.

Where:

The webcast will be available online at: http://www.cadence.com/company/investor_relations

 [Click here to return to Contents](#)

Dassault Systèmes Posts Record Revenue and Earnings in 2011 as PLM Adoption Drives License Revenue Growth of 20% in Constant Currencies

9 February 2012

Dassault Systèmes reports IFRS unaudited financial results for the fourth quarter and year ended December 31, 2011. These results were reviewed by the Company's Board of Directors on February 8, 2012.

Summary Highlights

(unaudited)

- Fourth quarter revenue and earnings above objectives
- 2011 double-digit, constant currency revenue growth for new licenses, recurring software and services
- 2011 EPS growth of 28% to €2.33 (IFRS) and 17% to €2.92 (non-IFRS)
- Mid-term 30% non-IFRS operating margin objective achieved well in advance of target date
- Strong growth in Automotive and Aerospace, driven by CATIA, ENOVIA, SIMULIA & DELMIA
- 1,000 clients have adopted V6 as their 3D PLM business system
- 18,000 new 3D application customers in 2011

2011 Financial Summary

(unaudited)

In millions of Euros, except per share data	IFRS		Non-IFRS			
		Change	Change in cc*		Change	Change in cc*
FY 2011 Total Revenue	1,783.0	14%	16%	1,783.5	13%	14%
FY 2011 Software Revenue	1,616.9	15%	16%	1,617.4	13%	15%
FY 2011 EPS	2.33	28%		2.92	17%	
FY 2011 Operating Margin	24.0%			30.4%		

*In constant currencies

“2011 was a great year – record revenues, record earnings, record cash flows - and it was a great finish to the year, with our first half billion euro quarterly revenue milestone reached,” commented Bernard Charlès, Dassault Systèmes President and Chief Executive Officer. “Thanks to PLM adoption, we delivered double-digit growth in new licenses revenue, across our brands and geographic regions. Moreover, we achieved these results on a strong comparison basis, 2010, which makes this performance even more relevant. But more than our financial results, 2011 was a rewarding year as it very clearly showcased the success of our customers, advancing innovation by asking the demanding questions and

CIMdata PLM Industry Summary

challenging the status quo.

“The V6 platform has evolved with our customers in the last few years. The addition of Intelligent Information search-based technologies, social innovation capabilities and realistic virtual experiences, made us ready to pioneer a new technological wave: the 3D Experience Platform to serve the ‘Social Enterprise’ of the 21st century. We must provide businesses and people with holistic 3D experiences to change the way they imagine sustainable innovations capable of harmonizing products, nature and life.”

Fourth Quarter Financial Summary

(unaudited)

In millions of Euros, except per share data	IFRS			Non-IFRS		
		Change	Change in cc*		Change	Change in cc*
Q4 Total Revenue	512.1	11%	10%	512.1	10%	9%
Q4 Software Revenue	462.1	10%	9%	462.1	9%	8%
Q4 EPS	0.68	6%		0.87	5%	
Q4 Operating Margin	26.5%			32.8%		

In millions of Euros	IFRS			Non-IFRS		
	Q4 2011	Q4 2010	Change in cc*	Q4 2011	Q4 2010	Change in cc*
Total Revenue	512.1	462.7	10%	512.1	467.3	9%
Software Revenue	462.1	418.2	9%	462.1	422.8	8%
Services and other Revenue	50.0	44.5	11%	50.0	44.5	11%
PLM software Revenue	371.0	335.4	10%	371.0	340.0	8%
SolidWorks software Revenue	91.1	82.8	9%	91.1	82.8	9%
Americas	135.7	132.3	2%	135.6	134.1	0%
Europe	251.3	215.3	17%	251.4	218.7	15%
Asia	125.1	115.1	5%	125.1	114.5	6%

*In constant currencies.

IFRS and non-IFRS total revenue increased 10% and 9%, respectively, reflecting growth in both software and services and other revenue. IFRS and non-IFRS software revenue increased 9% and 8%, respectively. Services and other revenue increased 11%, the highest quarter for the year on an increase in V6 service engagements. (All figures in constant currencies.)

By region, revenue growth was highest in Europe, reflecting a number of multi-brand transactions, a strong dynamic in the automotive industry and good performance in Germany and France.

New licenses revenue increased 13% (IFRS and non-IFRS) in constant currencies.

Recurring software revenue rose 8% (IFRS) and 6% (non-IFRS) in constant currencies reflecting growth in maintenance from higher new licensing activity and strong maintenance renewals and rental licensing.

CIMdata PLM Industry Summary

PLM software revenue increased 10% (IFRS) and 8% (non-IFRS) in constant currencies. CATIA non-IFRS software revenue increased 7% in comparison to the year-ago fourth quarter. ENOVIA is seeing strong V6 interest, with non-IFRS software revenue growth of 3%, reflecting a significant amount of deferred revenue related to software development projects in new industries. Other PLM non-IFRS software revenue increased 14% led by SIMULIA. (All growth comparisons in constant currencies.)

SolidWorks (Mainstream 3D) software revenue increased 9% in constant currencies and totaled €11.1 million, with 12,136 new commercial seats licensed.

IFRS operating income increased 8.8% to €35.7 million and the operating margin was 26.5% compared to 27.0% in the 2010 fourth quarter. On a non-IFRS basis, operating income increased 5.9% to €167.9 million and the non-IFRS operating margin was 32.8%, compared to 33.9% in the year-ago period.

Earnings per diluted share increased 6% to €0.68 (IFRS) and 5% to €0.87 (non-IFRS).

2011 Financial Summary (unaudited)

IBM PLM operations acquired by Dassault Systèmes have been merged into the Company's operations within its PLM business segment since April 1, 2010. As previously disclosed, the IBM PLM share of Dassault Systèmes software revenue was estimated at approximately €50 million for the 2010 first quarter.

In millions of Euros, except per share data	IFRS			Non-IFRS		
		Change	Change in cc*		Change	Change in cc*
FY 2011 Total Revenue	1,783.0	14%	16%	1,783.5	13%	14%
FY 2011 Software Revenue	1,616.9	15%	16%	1,617.4	13%	15%
FY 2011 EPS	2.33	28%		2.92	17%	
FY 2011 Operating Margin	24.0%			30.4%		

*In constant currencies.

In millions of Euros	IFRS			Non-IFRS		
	FY 2011	FY 2010	Change in cc*	FY 2011	FY 2010	Change in cc*
Total Revenue	1,783.0	1,563.8	16%	1,783.5	1,580.0	14%
Software Revenue	1,616.9	1,411.0	16%	1,617.4	1,427.2	15%
Services and other Revenue	166.1	152.8	10%	166.1	152.8	10%
PLM software Revenue	1,275.9	1,099.5	17%	1,276.4	1,115.7	16%
SolidWorks software Revenue	341.0	311.5	12%	341.0	311.5	12%
Americas	488.8	456.5	12%	488.8	461.8	11%
Europe	827.1	702.9	18%	827.3	709.2	17%

CIMdata PLM Industry Summary

December 31, 2010. The Company's cash, cash equivalents and short-term investments totaled €1.42 billion and short-term and long-term debt totaled €228.9 million and €72.4 million, respectively at December 31, 2011 compared to €1.14 billion, €26.7 million and €93.4 million, respectively, at December 31, 2010.

Summary Business, Technology and Corporate Highlights

Dassault Systèmes Introduces Unique 3D Sketching Experience. CATIA Natural Sketch, a breakthrough 3D sketching experience, making sketching in 3D as intuitive as sketching on paper, was launched. CATIA Natural Sketch brings an experience that matches creative purposes while removing barriers towards 3D creation.

Medical Device Company Lumenis Unifies Engineering and Business Processes with Dassault Systèmes' ENOVIA V6. Lumenis, the largest medical laser company in the world, has selected ENOVIA V6 to fully master the company's engineering information and business processes. ENOVIA and its Life Sciences Accelerators will be implemented to respond to Lumenis' aesthetic, ophthalmic, and surgical entities' needs across its entire organization.

Pierre Fabre Laboratories Selects Dassault Systèmes' V6 Platform. Pierre Fabre Laboratories has selected ENOVIA V6 Life Sciences solutions to accelerate time to market and improve product traceability.

Nikon Corporation Adopts Dassault Systèmes' V6 Platform to Drive Designers' Idea-Generation Process. Nikon's Industrial Design Department has adopted V6 as its collaborative design platform. Nikon's Industrial Design Department is expecting CATIA V6 to serve as the idea-generation support solution for its designers and as the driver to further enhance quality through higher design precision and will utilize the ENOVIA V6 collaborative platform to streamline the data-sharing process, strengthen security and promote more efficient data management.

Fisker Automotive Eco-Luxury Car Effort Achieves Electric Success With Dassault Systèmes PLM Solutions. Fisker Automotive is designing and developing the world's first line of premium electric plug-in hybrids representing the company's firm belief that environmentally conscious cars need not sacrifice passion, style, or performance. Fisker Automotive has relied upon CATIA for virtual design and ENOVIA for product data management and collaboration in the development of its Karma and Surf models. Fisker also employs Dassault Systèmes' 3DVIA and SIMULIA solutions in its product development processes.

Capgemini Becomes A Dassault Systèmes Solutions Integrator. Capgemini, a world leader in IT consulting, technology services and outsourcing, and Dassault Systèmes have announced an alliance agreement with respect to the Company's V6 solutions.

Business Outlook

Thibault de Tersant, Senior Executive Vice President and CFO, commented, "We had an excellent finish to 2011, led by CATIA with a high level of activity with customers in Germany, France and China.

"For the year in total, we delivered 20% new licenses revenue growth in constant currencies, driven by an excellent dynamic of our industry solutions in Automotive and Aerospace in our core markets, as well as in Energy, Construction and Business Services in our new target industries. We benefited from adoption of our PLM business system, with our customers expanding their usage for innovation and product portfolio management. We reached our 30% non-operating margin goal ahead of our initial timeline, and delivered non-IFRS earnings per share growth of 17%.

CIMdata PLM Industry Summary

“Entering 2012, we see a good level of interest from our customers and key data points we track indicate a healthy demand environment. At the same time we think it is appropriate to take into account the potential for a more challenging economic backdrop around the world, including tighter credit markets, and so we have incorporated these factors in developing our baseline revenue objectives. We anticipate delivering a stable operating margin in comparison to 2011 which means we will continue to drive operating leverage in order to make internal investments in our businesses as well as offset potential dilution from acquisitions. All in all, we see a year of growth ahead even assuming less favorable market conditions.”

The Company’s initial 2012 financial objectives are as follows:

First quarter 2012 non-IFRS initial total revenue objective of about €425 to €435 million, non-IFRS operating margin of about 28% and non-IFRS EPS of about €0.63 to €0.68;

2012 non-IFRS initial revenue growth objective range of about 5% to 7% in constant currencies; (€1.86 to €1.89 billion based upon the 2012 currency exchange rate assumptions below);

2012 non-IFRS operating margin of about 30%;

2012 non-IFRS initial EPS range of about €3.00 to €3.10, representing growth of about 3% to 6%;

Objectives are based upon exchange rate assumptions for the 2012 first quarter and full year of US\$1.40 per €1.00 and JPY115 per €1.00.

The Company’s objectives are prepared and communicated only on a non-IFRS basis and are subject to the cautionary statement set forth below.

The non-IFRS objectives set forth above do not take into account the following accounting elements and are estimated based upon the 2012 currency exchange rates above: share-based compensation expense estimated at approximately €20 million for 2012 and amortization of acquired intangibles estimated at approximately €80 million for 2012. The above objectives do not include any impact from other operating income and expense, net principally comprised of acquisition, integration and restructuring expenses. These estimates do not include any new stock option or share grants, or any new acquisitions or restructurings completed after February 9, 2012.

Today’s Webcast and Conference Call Information

Today, Thursday, February 9, 2012, Dassault Systèmes will first host a meeting in Paris, which will be simultaneously webcasted at 10:00 AM London time/11:00 AM Paris time and will then host a conference call at 9:00 AM New York time/ 2:00 PM London time/3:00 PM Paris time. The webcasted meeting and conference call will be available via the Internet by accessing <http://www.3ds.com/company/finance/>. The webcast and conference call will be archived for 30 days.

Additional investor information can be accessed at <http://www.3ds.com/company/finance/> or by calling Dassault Systèmes’ Investor Relations at 33.1.61.62.69.24.

2012 Key Investor Relations Events

First Quarter Earnings, April 26, 2012

Second Quarter Earnings, July 26, 2012

Third Quarter Earnings, October 25, 2012

[Download the complete press release here.](#)

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

IFS Year-End Report 2011

8 February 2012

Highlights and Outlook

Strong license sales

OCTOBER–DECEMBER 2011 (FOURTH QUARTER)

- License revenue amounted to SKr 166 million (Q4 '10: SKr 135 million), an improvement of 26 percent currency adjusted.
- Maintenance revenue was SKr 220 million (Q4 '10: SKr 206 million), an increase by 8 percent currency adjusted.
- Consulting revenue amounted to SKr 355 million (Q4 '10: SKr 383 million), a decrease by 6 percent currency adjusted.
- Net revenue was SKr 745 million (Q4 '10: SKr 729 million), an improvement of 4 percent currency adjusted.
- EBIT amounted to SKr 126 million (Q4 '10: SKr 110 million). Cash flow after investments was SKr 18 million (Q4 '10: SKr 70 million).
- Earnings per share after full dilution grew by 31 percent and amounted to SKr 3.31 (Q4 '10: SKr 2.52).

JANUARY–DECEMBER 2011 (FULL YEAR)

- License revenue amounted to SKr 431 million ('10: SKr 402 million), an improvement of 13 percent currency adjusted.
- Maintenance revenue was SKr 823 million ('10: SKr 811 million), an increase by 7 percent currency adjusted.
- Consulting revenue amounted to SKr 1,311 million ('10: SKr 1,357 million), an improvement of 1 percent currency adjusted.
- Net revenue was SKr 2,576 million ('10: SKr 2,585 million), an increase by 5 percent currency adjusted.
- EBIT amounted to SKr 233 million ('10: SKr 221 million). Cash flow after investments was SKr 94 million ('10: SKr 234 million).
- Earnings per share after full dilution grew by 20 percent and amounted to SKr 5.96 ('10: SKr 4.96). Proposed dividend for 2011 amounting to SKr 3.50 per share ('10: SKr 3.00).

OUTLOOK

IFS expects strong organic license growth and improved EBIT in 2012.

[Download PDF](#)

CIMdata PLM Industry Summary

Financial Overview

SKr million	Q4 2011	Q4 2010	Full year 2011	Full year 2010
Net revenue	745	729	2,576	2,585
<i>whereof</i>				
License revenue	166	135	431	402
Maintenance and support revenue	220	206	823	811
Consulting revenue	355	383	1,311	1,357
Gross earnings	397	370	1,242	1,188
<i>whereof</i>				
Licenses	163	128	406	363
Maintenance and support	145	127	551	503
Consulting	88	113	283	316
EBIT	126	110	233	221
EBIT margin	17%	15%	9%	9%
Earnings before tax	122	101	218	189
Earnings for the period	86	69	156	134
Cash flow after investment operations	18	70	94	234

Chief Executive Summary

The financial year 2011 saw us executing well in our target markets, as reflected in license sales which grew, adjusted for currency, by 13 percent for the full year and by 26 percent in quarter four. As this growth was not the result of any single abnormally large deal, such as typically seen in for example Defense, means the underlying business has continued to show strong performance.

A number of global events disturbed the world economy in 2011 and trading conditions for the year became more difficult than expected at the onset. In particular, the conflict in Libya and the suspension of trading in that country had a negative impact on EBIT of an estimated SKr 16 million. Delays and changes in projects also negatively impacted our consulting business, and the reorganization of our Scandinavian business, even though beneficial going forward, led to a non-recurring charge in the third quarter of SKr 16 million. Also, even though we maintain focus on strict cost efficiency, we have increased our investment in sales & marketing. This we expect will yield results in the longer term but it has, in the shorter term, added to our cost base. Despite this, 2011 was yet again a year when we succeeded in improving our results as EBIT increased with 7 percent (currency adjusted) to SKr 233 million (221), a clear evidence of the resilience of our business.

The troubles of the global financial markets are a concern for all businesses, including IFS. However as was seen in 2008 and 2009, we were able to continue to grow because our target sectors—such as Oil & Gas, EPCI, Power Generation, Defense, and Homeland Security—tend to be less impacted by financial instability. Against this downbeat global economic backdrop industry analysts such as Gartner forecast the software market in general, and the enterprise application market in particular, to grow in the region of 6–7 percent in 2012.

We continue to be recognized as the intelligent choice for global businesses that need to implement sophisticated international business solutions in a timely and cost effective manner. The ERP market is largely a replacement business and our product, IFS Applications, is an increasingly attractive choice as it offers strong integrated industry functionality on a market leading technology platform.

CIMdata PLM Industry Summary

Overall product revenue adjusted for currency grew by 9 percent while consulting revenue increased by 1 percent. The higher growth stemming from license, maintenance and support revenue means product revenue as a percentage of total revenue increased to 49 percent (47), and this ongoing shift in revenue mix is important to maintain as we pursue higher EBIT margins.

In quarter four we acquired our partner in Brazil. This transaction provides us with a well-established direct operation in a country which sees strong activity in our target sectors; with many international customers having operations in the country or are planning to invest there. Brazil also provides us with a base from which to penetrate other Latin American countries. With this acquisition we now have a direct and established presence in all the BRIC economies. As previously commented upon, although we had identified and engaged with a number of other attractive targets during the year, we found the valuations required by their owners to be unattractively high. However, we remain committed to acquisitions. We reaffirm that our target of a 15 percent EBIT margin remains achievable over time and will be reached by a combination of organic and inorganic growth as has been demonstrated over recent years.

For 2012, we expect yet another year with strong organic growth in license revenue and an improved EBIT.

SIGNIFICANT EVENTS DURING THE QUARTER

A number of significant agreements were signed in the fourth quarter, including:

New solution for the Brazilian market

IFS released standard functionality that supports Brazilian legal requirements in the latest version of IFS Applications, thereby eliminating the need for expensive third-party solutions. Today, IFS has over 100 customers active in Brazil—many of which are global companies active within the oil and gas industry. The localized version caters especially to global companies that operate in Brazil and that use one central database for all of their sites worldwide. The new version complies with the large number of complex legal requirements that regulate the Brazilian market, including handling of a number of taxes and so-called nota fiscal documents.

Acquisition

On December 14, the Group acquired 100 percent of the capital stock in LatinIFS Tecnologia da Informação S.A. The fair value of identified net assets and liabilities in LatinIFS Tecnologia da Informação S.A. amounts to SKr -58 million, of which SKr 17 million in accounts receivable and tangible assets, SKr 16 million in customer relations, SKr 31 million in tax liabilities and deferred tax, and SKr 50 million in other liabilities. The remaining SKr 48 million represents group goodwill.

The goodwill recognized for the acquisition corresponds to the company's market position and its highly skilled and experienced workforce. Based in São Paulo, with an office in Rio de Janeiro, and with established partners across the Latin American region, the company is well positioned to benefit from the high forecast growth in IFS's target sectors (notably Oil & Gas, Utilities, and Engineering & Construction) in Brazil and across the wider region, leveraging its proven competence in selling and implementing IFS Applications.

CIMdata PLM Industry Summary

The acquired company is included in consolidated revenue for the fourth quarter with SKr 2 million and in EBIT with SKr 0 million. Deferred license revenue of SKr 19 million and acquisition-related expenditure, amounting to SKr 2 million and recognized as other operating expenses, has been recognized in the consolidated earnings for the period.

The prepared acquisition analysis is preliminary.

[Download Presentation in PDF format](#)

 [Click here to return to Contents](#)

MasterControl Reports Strong Fourth Quarter and Annual Sales

31 January 2012

MasterControl, Inc., a global provider of quality, audit, and document management software solutions, announced another record-breaking year, both for fourth quarter and annual sales. Fourth quarter sales were up 44 percent over the same period in 2010, and in spite of a weakened economy, MasterControl increased revenue 15 percent over the previous fiscal year.

It was also a record year for adding new customers. "We set a record for the number of new customers in 2011," says MasterControl CEO Jonathan Beckstrand. "We now have more than 550 customers worldwide. These customers run the gamut from startup companies with fewer than 50 employees to life science industry giants."

Beckstrand says MasterControl has significantly increased new hires both in the Salt Lake City headquarters and the EMEA region to meet the needs of a rapidly growing customer base. "We increased our Customer Service Department alone by 69 percent," Beckstrand adds. "The company as a whole grew by 19 percent."

"One of the most exciting events for us in 2011 was the release of MasterControl 10.0," he says. "This version introduced the new audit management software system that customers have been waiting for. With today's increased emphasis on FDA compliance, regulated industries are looking for tools that help their compliance managers handle the audit process. As government regulation in regulated industries increases, so will the need for powerful compliance tools. We plan to meet that need."

About MasterControl

MasterControl Inc. produces software solutions that enable companies doing business in regulatory environments to get their products to market faster, while reducing overall costs and increasing internal efficiency. MasterControl securely manages a company's critical information throughout the entire product lifecycle. MasterControl software is known for being easy to implement, easy to validate and easy to use. MasterControl solutions include quality management, document management/document control, product lifecycle management, audit management, training management, bill of materials, supplier management, submissions management, and more. Supported by a comprehensive array of services based on industry best practices, MasterControl provides customers with a complete information management solution across the entire enterprise. For more information about MasterControl, visit <http://www.mastercontrol.com>, or call: 800-825-9117 (U.S.); +44 (0) 1256 325 949 (Europe); or 03-6801-6147 (Japan).

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

MecSoft Announces Strong Sales Growth for 2011

26 January 2012

MecSoft Corporation, the developer of VisualMILL, RhinoCAM VisualMILL for SolidWorks, Alibre CAM and other computer aided manufacturing (CAM) software solutions, announced strong back to back sales growth for calendar year 2011.

"We were very pleased to realize yet another year of double-digit sales growth." stated Joe Anand, President and CEO of MecSoft. "This growth has been fueled by continued support from our existing global customer base and worldwide reseller channel. This support is based on the recognition of MecSoft's commitment to making our products more powerful and easier to use, while keeping them the most cost effective in the market today. We have some exciting new product releases slated for 2012 and I am looking forward to a strong sales growth in 2012 as well."

Some of MecSoft's highlights for 2011 include:

- Expanded international reseller channel including China and Brazil.
- Launched multiple language websites
- Established Autodesk partnership and released an Inventor® addin
- Hired key personnel in support and product development

 [Click here to return to Contents](#)

SpaceClaim Announces 110% Sales Growth and Continued Expansion of Sales Channel

7 February 2012

SpaceClaim announced today that its new license sales increased by more than 110% in 2011 and that it has more than doubled its number of resellers. In addition, the company announced new customers Ford, Bosch, Eaton, and Carl Zeiss.

"SpaceClaim continued to execute against its vision of bringing powerful, easy-to-use and CAD-neutral 3D to engineers in 2011. We introduced two major releases of SpaceClaim Engineer, adding new capabilities that have expanded the range of users and design applications we can support. SpaceClaim Engineer is now in its 8th release, making it the most mature direct modeling application for engineering. With over 70% of users mastering the product without classroom training, SpaceClaim Engineer is also delivering the lowest total-cost-of-ownership in the professional market," said Chris Randles, SpaceClaim President and CEO. "To increase our reach across market segments and geographies, we more than doubled the number of our authorized resellers to over 100, which was a key factor driving our 110% growth in license sales. We also added several new strategic OEM partners who are bringing innovative applications to market and driving adoption of SpaceClaim in vertical markets."

The SpaceClaim reseller channel has expanded with the addition of resellers who specialize in 3D design, CAE, CAM and manufacturing solutions. "By adding SpaceClaim Engineer to our portfolio, we are addressing an immediate market need for a 3D tool that dramatically reduces the time and effort needed to prepare geometry for CAE analysis and manufacturing," said Benno Wolter, President of Germany-based WDS. "We're thrilled to get in on the ground floor of this exciting and transformational 3D Direct Modeling product because traditional parametric CAD systems are just too complex and expensive to be used effectively by engineers in the manufacturing environments we serve."

CIMdata PLM Industry Summary

In addition, the company announced that it has completed its Series D financing, raising a total of \$11Million to fund the company's investment in R&D and continue the expansion of its global sales channels. Funding for this round came from the same group of investors that have been involved with the company since its founding at the end of 2005. Institutional investors in SpaceClaim include North Bridge Venture Partners, Kodiak Venture Partners, Borealis Ventures, and Needham Capital.

"SpaceClaim continues to have a major impact in engineering software with adoptions by global industrial companies and mid-market manufacturers alike," said Rich D'Amore, Partner, North Bridge Venture Partners. "We are pleased to continue as lead investor in the company as we see SpaceClaim Engineer changing the landscape of 3D design and delivering outstanding return on investment to its customers. SpaceClaim is making the right investments to ensure that it expands the market for 3D and remains the company to beat in direct modeling."

SpaceClaim announced several new partnerships in 2011, including direct integrations with CAE providers [COMSOL \(LiveLink for SpaceClaim\)](#), [Noesis Solutions \(Optimus\)](#), [ESTECO \(modeFRONTIER\)](#), [Comet \(Comet Performance Engineering Workspace\)](#), as well as a direct integration with [Geomagic Studio 2012](#). SpaceClaim also announced new OEM agreements with [C&R Technologies](#), which provides comprehensive solutions software for heat transfer analysis and fluid flow design, and [ITP](#), which provides a complete thermal analysis solution to the aerospace industry.

Supported by two major product releases ([SpaceClaim 2011](#) and [SpaceClaim 2011+](#)) in 2011, SpaceClaim Engineer helps designers and engineers address a wide variety of geometry challenges not addressed by traditional, feature-based CAD. In particular, SpaceClaim is the best 3D software solution for model preparation for CAE, CAM, and rapid prototyping, bid and concept modeling, reverse engineering, and sheet metal design. SpaceClaim's neutrality allows it to work well with data from all of the major CAD and 3D design systems, and its clean-up tools breathe new life into neutral formats such as JT, STEP, 3D PDF, and IGES.

 [Click here to return to Contents](#)

Synopsys Announces Earnings Release Date for the First Quarter Fiscal Year 2012

9 February 2012

[Synopsys, Inc.](#) announced it will report results for the first quarter of fiscal year 2012 on Wednesday, Feb. 22, 2012, after the market close.

A conference call to review the results will begin at 2 p.m. PT (5 p.m. ET) and will be hosted by Aart de Geus, chairman and chief executive officer, and Brian Beattie, chief financial officer.

Financial and other statistical information to be discussed on this conference call will be available on the corporate website at <http://www.synopsys.com> immediately before the call. A live webcast will also be available on this site. Participants should access the live webcast at least 10 minutes prior to the start of the call. A webcast replay can be accessed on the corporate website beginning Wednesday, Feb. 22, 2012, at approximately 5:30 p.m. PT. The replay will remain available until Synopsys announces its second quarter fiscal year 2012 results in May 2012. In addition, a dial-up replay of the conference call will be available beginning Feb. 22, 2012 at 4:00 p.m. PT, ending on Mar. 7, 2012 at midnight. The replay telephone number is USA (800) 475-6701, and International (320) 365-3844, Access Code 236854.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

2011: Lectra's Record Financial Performance, for the Second Consecutive Year

9 February 2012

Revenues: €205.9 million (+10%) (*)

□ Income from operations before non-recurring items: €28.9 million (+35%) (*)

□ Net income: €19.2 million

□ Free cash flow: €14.2 million

□ Net cash: €8.6 million

□ Dividend: €0.22 per share (+22%)

(*) like-for-like

Today, Lectra's Board of Directors, chaired by André Harari, reviewed the consolidated financial statements for the fiscal year 2011.

(Unless stated otherwise, detailed comparisons between 2011 and 2010 are like-for-like.)

Q4 2011

Orders Slowed by a Renewed Deterioration of Economic Conditions

The vigorous sales growth seen in the first half of 2011 (+24% in orders for new software licenses and CAD/CAM equipment relative to the first half of 2010) was weakened in Q3 (+4%). The accelerated deterioration of the economic, financial and monetary climate in the closing months of 2011 increased concerns and weighed heavily on companies' investment decisions, leading to a significant fall in orders in Q4.

Orders for new software licenses and CAD/CAM equipment (€14.7 million) were down 34% compared to Q4 2010.

Revenues and Financial Results in Line with Company Expectations

Revenues (€2.6 million) were up 4% (+5% at actual exchange rates).

Revenues from new systems sales (€24.3 million) were up 6%. Recurring revenues (€28.3 million) were up 2%, reflecting a 1% increase in revenues from recurring contracts and a 3% increase in revenues from spare parts and consumables.

Income from operations amounted to €7.2 million, and the operating margin was 13.8% (+€0.7 million and +0.9 percentage point, relative to income from operations before non-recurring items and to the operating margin before non-recurring items for Q4 2010). They increased €1 million and 1.4 percentage points at actual exchange rates.

Net income (€4.6 million) increased €0.9 million at actual exchange rates compared to Q4 2010, when net income was reduced by a non-recurring charge of €1.1 million.

Free cash flow was €1.4 million, which was lower than the Company's expectations of October 27 due to weak orders.

2011: Performance all the More Remarkable Given the Worse-than-Expected Macroeconomic Environment

CIMdata PLM Industry Summary

The rebound in activity in 2010 led to record financial results for Lectra and enabled it to enter 2011 with stronger key operating ratios, a radically transformed balance sheet, and a solid order backlog. This performance constituted a high basis of comparison for 2011.

Financial results for the year are in line with the central scenario announced by the company on February 10, 2011, as updated only by the impact of exchange rate fluctuations.

Lectra registered another record financial performance in 2011, after that achieved in 2010.

Orders Remain Stable, Coming After Very Strong Growth in the First Half

Overall, orders for new software licenses and CAD/CAM equipment (€78.4 million), increased 2% relative to orders in 2010. The latter had already increased 51% relative to 2009, a year severely affected by the crisis.

While the automotive sector once again recorded a very strong increase (+64%) after a rise of 115% in 2010, the fashion sector was down 22%. For the first time in the company's history, the relative share of the automotive market (41% of total orders as opposed to 26% in 2010) was very close to that of the fashion sector (45% as opposed to 58%).

Orders booked in the Americas jumped 17%—driven by the United States and Mexico—while they rose 10% in the Asia-Pacific region. In Europe they were down 5%—with the Eastern European countries registering strong growth and the others a decline—and in the rest of the world (Northern Africa, South Africa, Turkey, the Middle East, etc.) they were down 35%. Orders in emerging countries increased 7%; those in developed countries dropped 3%.

While the vitality of the emerging countries—powered by China (+17%), Brazil (+28%), and Mexico (+77%)—have for the most part caught up after their shortfall, now behind by only 6% compared to 2007, developed countries are still lagging behind by 42%. Currently, emerging countries account for the majority of aggregate orders, their share rising from 41% in 2007 to 53% in 2011.

Revenues Continue to Grow

Revenues (€205.9 million) were up 10% like-for-like and 8% at actual exchange rates, compared to 2010. In 2010, they had already risen 20%, following sharp falls in 2008 and 2009.

Growth worked out to 3% in Europe, 12% in the Americas, and 30% in the Asia-Pacific region. These three regions accounted for 49% (including 10% for France), 21%, and 25% of total revenues respectively.

Although orders were stable, revenues from new systems sales (€97.7 million) increased 18% thanks to the strong opening order backlog. Recurring revenues (€108.2 million) increased 3%, with a decrease of 1% in revenues from recurring contracts and an increase of 10% in revenues from spare parts and consumables. The latter registered a historic record of €43.7 million (representing 21% of aggregate revenues), reflecting the growth in production volumes and the expanding installed base.

Orders for new software licenses and CAD/CAM equipment were below corresponding revenues; the order backlog (€10.5 million) is thus down sharply relative to December 31, 2010 (€18.5 million). This decline is a direct result of the slowdown in orders in the closing months of the year.

Income from Operations and Net Income Up Very Sharply—Operating Margin Rises to a New Historic High

Income from operations reached €28.9 million. Like-for-like, it was up €7.9 million (+35%) relative to

CIMdata PLM Industry Summary

income from operations before non-recurring items in 2010 (+6.1 million, or 27%, at actual exchange rates).

The operating margin (14%) rose once again compared to the operating margin before non-recurring items in 2010, which had already reached a record 12%. Its highest previous level was 10% in 2000. Like-for-like, it was up 2.7 percentage points.

Net income was €9.2 million, representing 9.3% of revenues.

A Transformed Balance Sheet, Returning to a Positive Net Cash Position

With free cash flow of €4.2 million (bringing cumulative free cash flow before non-recurring items generated in 2010 and 2011 to €45.2 million, and to €58.6 million after non-recurring items), the net cash position is positive at €8.6 million at December 31, 2011, whereas the company had net financial debt of €2.4 million at December 31, 2010, and of €47.8 million on December 31, 2009. This therefore represents an improvement of €1 million in the fiscal year and €56.4 million in two years, after payment of a total dividend of €5.2 million in May 2011.

Shareholders' equity rose €6.7 million to €58.7 million.

Restated for the (French) research tax credit of 2010 and 2011, which has not been received and has not been offset against a tax charge, the working capital requirement was negative at €11.5 million. This is a key feature of the company's business model.

A Dividend Increase

Confirming its confidence in the company's future prospects, despite new macroeconomic turbulence, the Board of Directors will propose at the upcoming Shareholders' Meeting of April 27, 2012, that a dividend of €0.22 per share be declared in respect of fiscal 2011, representing a 22% increase. Subject to approval by the Shareholders' Meeting, the dividend will be made payable on May 10, 2012.

Outlook

The year 2011 ended with the return to a situation of economic, financial, and monetary crisis, of unknown scale and duration, in addition to downward revisions of growth forecasts for 2012 and 2013 for most developed and emerging countries. Upcoming elections in several countries could further accentuate these uncertainties.

The alternation of good news and bad news, the lack of visibility, and the growing concerns of companies so long as there are still no signs of a sustainable improvement in the economy will weigh heavily on those companies' investment decisions.

The clear and ambitious 2010-2012 strategic roadmap, formulated at the end of 2009, amply demonstrated its pertinence in 2010 and in 2011. Today, its overriding objectives remain unchanged.

The Company has Decided to Focus its Long-Term Strategy

The company enters 2012—which, experts agree, will be not only difficult but also unpredictable—with totally different financial and operating fundamentals compared to the eve of 2008-2009.

Its historic financial performance in 2010 and 2011 has again demonstrated its resilience. Its balance sheet has been radically transformed and is now very strong, thereby eliminating any liquidity risk for the coming years. In addition, the company has continued to invest in R&D, and has renewed and expanded its technology offer. Finally, despite even tougher competition as a result of the economic climate, Lectra has successfully raised its operating margin from 5% in 2007 to 14% in 2011.

CIMdata PLM Industry Summary

Should the euro's weakness against the dollar continue, the parity having started the year below the \$1.30 /€ mark, this would be a beneficial factor in the company's competitiveness.

On the other hand, the sharp drop in sales activity in the closing months of 2011 penalized the order backlog at January 1, starting the year €8 million below the prior year's figure. Orders could remain weak for all or part of the year, until business investments pick up again.

Given this lack of visibility, caution and vigilance must be maintained.

In this context, the company has decided to give precedence to its long-term strategy rather than to profitability in 2012—which will nonetheless remain higher than its pre-crisis level. Its first established priority is to bolster its roadmap for accelerating its growth and its capacity to create value for its customers—its primary objective—and hence also for its teams and shareholders.

The strengthening of Lectra's sales and marketing teams and the continuation of its steadfast investment in R&D constitute the keys to accelerating the company's full-scale transformation plan over the next 24 months, so as to enable it, as soon as the economic crisis ends, to fully realize its growth potential in its most promising geographic markets and market sectors. Considering the drastic cuts already made over the last few years, these expenditures to build for the future will therefore result in a more significant rise in fixed overhead costs than in 2011.

2012 Outlook

As in previous years, the main uncertainty concerns the level of revenues from new systems sales. Regardless of the hypotheses used regarding orders for new systems booked, revenues would continue to be affected by the low order backlog at the beginning of the year and would be lower than the total figure for corresponding orders in 2012.

Given the level of the order backlog at January 1, Q1 2012 revenues and income from operations are expected to be down relative to Q1 2011, reaching approximately €47 million and €3 million respectively.

The Group has assumed an average parity of \$1.30/€ in 2012 (variations are like-for-like).

Assuming economic conditions in the first half of the year remain as deteriorated as they were in Q4 2011 and then return to their level of the first half of 2011, orders for new systems in fiscal 2012 could rise 4% relative to 2011, with revenues from new systems sales declining approximately 9%, resulting in total revenues of around €206 million (stable relative to 2011 at actual exchange rates, and – 3% like-for-like). Income from operations before non-recurring items would come to around €21 million (– 34%), thereby generating an operating margin before non-recurring items of around 10% and a net income of around €14 million (– 27% at actual exchange rates).

The company's ambition is to achieve higher growth.

Free cash flow should exceed net income less the 2012 (French) research tax credit (around €5.7 million), capital expenditures being limited to around €5-6 million (and R&D expenditures being expensed in full).

Net income and free cash flow expected for 2012 will continue to bolster the company's cash position and its balance sheet. Lectra's current objective is to continue its dividend payment policy and to preserve its cash in order to finance targeted acquisitions in the future, should such opportunities arise, with organic growth financed out of its own cash thanks to the company's business model.

Bolstered by its performance in 2011 and with the pertinence of its 2012 action plan, the company is

confident in the strength of its business model and its growth prospects for the medium term.

First quarter earnings for 2012 will be published on April 26. The Annual Shareholders' Meeting will take place on April 27, 2012.

Management Discussion and Analysis of Financial Conditions and Results of Operations for Q4 and the fiscal year 2011 are available at <http://www.lectra.com/>. Audit procedures have been applied to the consolidated financial statements. The statutory auditors' certification report will be issued after the Board of Directors meeting on February 23, 2012, which will approve the notes to the consolidated financial statements.

For financial tables, click [HERE](#) for the unabridged press release.

 [Click here to return to Contents](#)

Implementation Investments

Autodesk Alias Software Helps Volvo Car Corporation's Vision of Luxury and Good Design

8 February 2012

Volvo Car Corporation (Volvo) has revealed that [Autodesk design and visualisation](#) software was key to the successful design of its [Concept You](#) car. The fully-functional concept model was unveiled to great critical acclaim at the Frankfurt Motor Show last autumn.

Following the earlier success of Volvo's Concept Universe at the Shanghai Motor Show in April 2011, the Volvo design team was under extreme pressure to further refine its ideas and produce a working model with full interior in a matter of months, in time for Frankfurt. Both concepts were created to demonstrate Volvo's vision for the future of luxury cars under its new ownership.

Using [Autodesk Alias software](#), the concept modelling team was able to quickly create [digital prototypes](#) from the designer's initial sketches. This enabled the team to hone and test the design on screen, helping to save time and maintain the original design integrity behind the concept. As a result, designers were able to get to the best option with the technical surfacing and visualisation of the car as quickly as possible without having to start from scratch with every iteration.

Although the Volvo team was working under a particularly tight deadline, timescales such as this are becoming typical in such a competitive industry. Cars are becoming increasingly complex and sophisticated with a high technical content, yet manufacturers are under pressure to design them faster, while incurring lower costs. Like Volvo, a growing number of manufacturers are using Autodesk Alias to accelerate the entire design process from concept to class A modelling.

As part of the design workflow, Volvo also used [Autodesk Showcase software](#) for advanced visualisation of its ideas. This enabled the concept to be quickly communicated to the design management team and board so that they could easily understand what was being created. Despite the punishing time-frame, Volvo's new concept was ready in time to create a real talking point at the show. The automotive press was full of accolades, describing the car as, "beautifully done", "a much-needed tonic" and simply "stunning".

A long-term user of Autodesk software, Volvo has recently become a Platinum Support customer which gives it direct access to Autodesk experts, promoting a two-way dialogue to help influence future development of Alias and other products.

 [Click here to return to Contents](#)

Bentley Partners with Crossrail to Provide Collaborative BIM tools for Europe's Largest Construction Project

10 February 2012

Bentley Systems announced two key initiatives to support the construction phase of Crossrail – Europe's largest construction project. The initiatives are aimed at integrating the whole Crossrail supply chain to create best practices in information modelling for construction. Moreover, they are in keeping with the U.K.'s Government Construction Strategy, which calls for replacing adversarial cultures in projects with collaborative ones. At the recent Crossrail Tier 1 Contractor Briefing held at Bentley U.K. headquarters, Bentley announced that:

1. Crossrail's Enterprise License Subscription (ELS) for Bentley's application software portfolio will be broadened to serve the extended "Crossrail enterprise" – now encompassing its Tier 1 contractors. Crossrail's ELS connects project participants through the ProjectWise system of collaboration servers and services and eB software for controlling project information.
2. A newly chartered Crossrail/Bentley Construction/BIM Academy will support the Crossrail "extended" enterprise with innovative applications of Building Information Modelling (BIM) for the Crossrail construction phase. The new academy will help Crossrail project participants discover and assess, in a collegial environment, the benefits of advanced technology. It also will offer advice on accomplishing technology deployments in a coordinated manner, and is designed to support Crossrail's goals of efficiency, cost savings, and increased safety.

These two initiatives are the first components of an agreement between Crossrail and Bentley to augment the intent of BS1192 – the British standard for collaborative production of information – by introducing a project role for a strategic technology partner. Crossrail has asked Bentley to serve as this partner for its "construction enterprise" to enable the Crossrail contractors to collaboratively contribute to information modelling and business processes.

Crossrail Chief Executive Andrew Wolstenholme said, "Infrastructure projects of the scale and complexity of Crossrail do not come around very frequently. I want to use the Crossrail opportunity to move the whole industry forward in a number of areas which includes the use of Building Information Modelling (BIM) through the delivery and lifecycle phases of major projects. Many of our project contractors are already developing their own capabilities in this important area. BIM is not simply about the application of new software – it's about a different way of working. If we are to take advantage of the opportunity BIM offers the programme, and our contractor organisations, we need to collaborate closely with our supply chains to make it happen. We are glad that Bentley has responded in creative ways to help us add an information modelling innovation stream to our construction enterprise."

[Bentley Systems](#) CEO Greg Bentley said, "We are delighted to have the opportunity to continue our strategic technology partnership with Crossrail by helping to introduce innovation in information modelling. We share Crossrail's view that there is much about construction that information modelling can advance in terms of efficiency, safety, quality, and more. I am very enthusiastic about the two initiatives announced today – the broadened Crossrail enterprise license subscription and the Crossrail/Bentley Construction/BIM Academy. Both represent unprecedented ways to assure the furthest and fastest take-up of technology best practices for this exemplary project."

About Crossrail

CIMdata PLM Industry Summary

The Crossrail route will pass through 37 stations and run 118 km (73 miles) from Maidenhead and Heathrow in the west, through new twin-bore 21 km (13 miles) tunnels to Shenfield and Abbey Wood in the east.

When Crossrail opens it will increase London's rail-based transport network capacity by 10%, supporting regeneration across the capital, helping to secure London's position as a world leading financial centre, and cutting journey times across the city. Crossrail services are due to commence through central London in 2018.

 [Click here to return to Contents](#)

CDS Catalog, CAD Download and eCommerce Solution Live on GAM, Inc. Website

7 February 2012

CDS ([Catalog Data Solutions](#)) announced that [GAM, Inc.](#) has selected its CAD download solution for their website.

Illinois based and U.S. owned GAM, Inc. designs and manufactures high precision gear reducers, servo couplings and linear slide kits. "Our customers are design engineers and enabling them to search our product range online, view models of our products in any browser and to download CAD to whatever CAD system they happen to use saves them a tremendous amount of design time," said Craig Van den Avont, President. "Enabling an excellent customer experience, including online purchasing, is fundamental to our business success and our website is key to presenting that experience to the world at large. After a thorough evaluation of various competitors we liked CDS's flexibility to our needs and selected [CDS Catalog](#) and [CDS ModelServer](#) as the best online product Catalog, eCommerce and CAD download solution for an Industrial Supplier like GAM."

"CDS is delighted to be providing this solution for GAM", said John Major, CEO CDS. "As product selection and buying continues to change and evolve, sales and marketing organizations need to continually come up with ways to get in front of the selection and buying cycle. GAM has done just that, with an online product catalog and CAD downloads that ensure their products both remain in contention and exploit a new advantage made possible by the new process. Of the many types of online marketing content (e.g. white papers, case studies, brochures, videos, demos, recorded webinars, reviews, CAD model downloads, etc.) only one is known to lead to a sale nearly 50% of the time! CAD downloads may be the most efficient online marketing tool available."

CDS helps industrial suppliers and distributors grow sales and strengthen customer loyalty through interactive online product catalogs, ecommerce, 3D CAD model delivery and product configurator solutions.

 [Click here to return to Contents](#)

CSR Selects Synopsys for Advanced-Node SoC Design

9 February 2012

Synopsys, Inc. announced that CSR plc, a leader in wireless, location and audiovisual technology, has deployed Synopsys' Galaxy™ Implementation Platform for the design of its 40-nanometer (nm) system-on-chips (SoCs). CSR cited the Galaxy platform's ability to deliver a robust hierarchical SoC design flow while converging on aggressive timing, area, and power goals as a key advantage of collaborating

CIMdata PLM Industry Summary

with Synopsys. CSR design teams are globally distributed, with key SoC groups in Cambridge, UK; Haifa, Israel; Shanghai, China and Phoenix, Arizona. Synopsys' highly responsive global support and expert consultants in efficient flows for ARM® CPU-based design were instrumental in CSR's decision to select Synopsys.

"We maintain our leadership in digital cameras, automotive navigation processors and other consumer markets by delivering innovative SoCs to our customers on time," said Babak Bastani, vice president of global chip design at CSR. "By using the silicon-proven Galaxy Platform, we are able to predictably tape out differentiated designs that deliver superior performance with low power consumption, which is critical to our success in these mobile computing markets."

CSR successfully adopted the Galaxy platform for its 40-nm, high-end Coach14 digital camera chip. This very complex SoC has millions of instances and intellectual property (IP) blocks, including Synopsys' DesignWare® USB 2.0 and DDR IP. Because logic synthesis, physical implementation and signoff are all tightly integrated in the Galaxy platform, CSR was able to deploy a hierarchical flow from synthesis to place-and-route to signoff and achieve on-time tapeout while meeting all of its design specifications.

Key components of the Galaxy platform include:

Design Compiler® Graphical with IC Compiler: Provides faster RTL-to-physical convergence from initial design exploration through concurrent multi-corner/multi-mode (MCMM) optimization, and closure for timing, power, testability and area;

IC Compiler Zroute technology: Offers concurrent design-for-manufacturability (DFM) routing for advanced process technologies. Coupled with In-Design physical verification via IC Validator, IC Compiler enables fast multicore, lithography-aware routing and delivers full compliance with complex DRC rules required for advanced silicon nodes; and

PrimeTime® HyperScale technology: Speeds block-level timing closure in the context of the top-level design, dramatically accelerating signoff of complex, hierarchical designs.

"Our collaboration with CSR demonstrates that the Galaxy platform delivers the results needed at advanced nodes so leading design teams can predictably and successfully bring new products to market," said Antun Domic, senior vice president and general manager of Synopsys' Implementation Group. "With each new process geometry, design teams face many new challenges. The Galaxy Implementation Platform provides an integrated solution from RTL to GDSII so engineers can tape out designs that meet their aggressive specifications with greater confidence."

 [Click here to return to Contents](#)

Delcam's PowerMILL "the Best For Five-Axis" Claims Viking Yachts

9 February 2012

"When it comes to CAM for five-axis programming, Delcam's PowerMILL is hands down the easiest and best I have ever used," states Jason Taylor, five-axis CNC programmer at Viking Yachts. His company first added the Delcam software after it acquired an MR125 gantry milling system able to handle parts fifty feet long by twenty feet wide and ten feet high. This machine can mill patterns as large as a vessel's bridge and helm, as well as Viking's smaller hulls, in one piece.

The Viking Yacht Company was started by brothers Bob and Bill Healey in 1964 when they bought

CIMdata PLM Industry Summary

Peterson-Viking Builders, a small, struggling New Jersey builder of 37-foot, wooden sport-fishing boats. The renamed Viking Yachts has grown to become a world leader in semi-custom fibreglass yacht production, with over 4,000 luxury/performance sport-fishing and cruising yachts delivered to happy customers.

Viking prides itself on its in-house manufacturing capabilities, which have been an important part of its highly-regarded reputation. From the initial design to the finished product, the company is committed to producing ninety per cent of the boat in house. Except for components such as engines, transmissions, pumps, hoses, air conditioning units, electronics and entertainment systems, virtually everything else is produced in-house by the company's talented workforce.

"I have been programming with PowerMILL for over five years now," said Mr. Taylor. "Here at Viking Yachts, we use cutting-edge software for all our engineering needs. PowerMILL helps us stay on top of the competition."

"When I first started using PowerMILL, we were on version 5," he added. "Now, after at least eight major updates, we are running the 2011 version. With each update, Delcam and the team at our reseller, DM Solutions, make my job easier while saving our company time and money."

"We machine all our parts with two five-axis routers," he explained. "Those parts range in size from a few inches, all the way up to fifty feet in length. We also use some very unique tooling and materials. PowerMILL handles the big files without a hitch, and creating the custom tools is really easy. Even with parts that contain thousands of surfaces, creating boundaries, patterns, work-planes and toolpaths is fast and very simple. Most of our machined parts have very tight corners and difficult areas that the tools need to get into, so we rely heavily on PowerMILL's collision avoidance and simulation tools prior to running the NC programs."

"The best part of using Delcam software is the support," added Mr. Taylor. "Getting help is quick and easy, unlike other suppliers I've used for programming software. DM Solutions provides everything from basic support to new programming strategies. Jeff Fischer and the rest of the support staff are always there to assist us in our time of need. DM Solutions and Delcam never leave us waiting for an answer, and that is very important to us because downtime can be very costly in our business."

 [Click here to return to Contents](#)

Engineered Arresting Systems Corporation (ESCO) Selects MSC Software's Adams

7 February 2012

[MSC Software Corporation](#) announced that Engineered Arresting Systems Corporation (ESCO), a division of Zodiac Aerospace, has selected MSC Software's flagship multibody dynamics simulation software, [Adams](#), to complement existing CAD and analytical software used for product development.

As a member of the Zodiac Emergency Arresting Systems Division (EASD), Engineered Arresting Systems Corporation creates technology that stops motion, absorbs energy and promotes safety. The EASD is the world's leading supplier of emergency land-based arresting systems for military and commercial aircraft. Increasing the amount of dynamic modeling and the effects on equipment will lead to more efficient designs by eliminating excess weight and complicated design challenges without reducing safety or functionality.

Engineered Arresting Systems Corporation's commitment to saving lives and protecting high value assets means that expensive full scale physical tests have always been required. With current full scale

CIMdata PLM Industry Summary

testing exceeding \$70,000 per day, any delay can quickly raise the cost of testing and extend testing time to unacceptable levels. The company will be using Adams to virtually exercise designs to ensure component optimization and performance confidence before any testing is performed. Adams is a perfect fit for ESCO's push towards innovation and commitment to being the global leader in mastering safety in motion.

Rich Orner, Vice President of Engineering at ESCO, stressed the importance of having a powerful tool such as Adams at its disposal: "In today's economy, it is critical to reduce time to market, reduce physical testing, increase quality, and meet rapidly changing customer requirements in order to maintain Engineered Arresting Systems' place as the world leader in energy absorption equipment. Using Adams' simulation and optimization capabilities will help us to achieve our objectives."

About Engineered Arresting Systems (ESCO)

Engineered Arresting Systems (ESCO) is the manufacturer of aircraft arresting systems and energy absorption products. ESCO's headquarters and main production facility are located in Aston, Pennsylvania. For more than 50 years, Engineered Arresting Systems Corporation, the cornerstone of the Zodiac Aerospace Emergency Arresting Systems Division (EASD), has harnessed mechanical energy to provide customized arrestment and containment solutions for aircraft and transport vehicles. For more information, visit www.esco.zodiacaerospace.com

 [Click here to return to Contents](#)

Hydrovolts Uses Autodesk Software to Create Plug-and-Play Water Turbines

8 February 2012

Clean technology [Hydrovolts](#) is using software from Autodesk, Inc. to create hydrokinetic turbines that are more easily installed in rivers, canals and other waterways for faster generation of renewable energy. The company's smaller turbines can be quickly installed and generating power in less than an hour.

Digital Prototyping Streamlines Product Development

As a member of the [Autodesk Clean Tech Partner Program](#)— which provides software to established and emerging clean tech companies in North America, Europe, Japan and Singapore — Hydrovolts gained access to a variety of [Digital Prototyping](#) tools to help develop and optimize its turbines.

“[Autodesk Inventor](#) software and [Autodesk Inventor Fusion](#) software are invaluable tools for helping us digitally visualize and then revise our designs,” said Burt Hamner, CEO of Hydrovolts. “And by using the [Eco Materials Adviser](#) within Inventor, we can weigh all ecological impact together with performance and financial impacts of materials for our turbines. Autodesk technology is simply more efficient than anything we've tried.”

Using Inventor and Inventor Fusion on a recent project for the Bureau of Reclamation, a federal government agency, enabled Hydrovolts to accurately model a turbine for the proposed installation site, and then make appropriate changes to the prototype design in less than a week. Meanwhile, [Autodesk Vault](#) software provided complete document control, ensuring every iteration was recorded and traceable.

Smart Design Makes Turbines Easy to Use

Much of the speed of installation is due to the highly efficient design of the Hydrovolts turbines. All of the different classes of turbine have been engineered for easy “drop-in” installation — eliminating the

need for dams or other permanent constructions. The turbines are held in place by mooring lines, while an output cable plugs directly into the power load onshore.

In addition, the Hydrovolts turbines are specifically engineered to easily accommodate different types of rotor blades for optimal efficiency in the existing current. This adaptability enables users to select the blade that can deliver the most power for the least cost, based on a waterway's unique flow.

About the Clean Tech Partner Program

The Autodesk Clean Tech Partner Program supports the efforts, innovations and environmental advancements of clean technology pioneers, providing software to design, visualize and simulate their ideas through Digital Prototyping. Clean tech companies in North America, Europe, Japan, and Singapore are invited to apply to receive up to \$150,000* worth of software for only \$50. Access to a collection of Autodesk industry-leading software includes up to five licenses each of Autodesk Product Design Suite Ultimate, AutoCAD Revit Architecture Suite, Autodesk Simulation Mechanical, Autodesk Inventor Publisher and Autodesk Vault Professional software. Get [more information](#).

About Hydrovolts

Incorporated in 2007, Hydrovolts offers new in-stream hydrokinetic turbines for clean energy generation around the world.

*Value is based on up to five commercial licenses of each application.

 [Click here to return to Contents](#)

Jaguar Land Rover Selects EMC Isilon to Drive its Simulation Operations

7 February 2012

[EMC Corporation](#) announced that Jaguar Land Rover (JLR), the U.K.'s largest manufacturer of premium vehicles, has deployed [EMC® Isilon® scale-out NAS](#) to simplify storage for its Big Data capacity and performance. The demand for new products in shorter timeframes whilst reducing dependency on physical testing had put pressure on JLR engineers to improve and streamline virtual simulation processes and deliver actionable analysis to the manufacturing teams.

JLR depends on advanced Computer Aided Engineering (CAE) and High Performance Computing (HPC) to develop, deliver and verify each new design to ensure that every vehicle is optimized across a range of customer attributes such as safety, quality, robustness, dynamics, aerodynamics and performance and economy. In 2010, the company undertook a project to decrease reliance on physical testing and increase its simulation operations, a project for which it has won the [2011 Project Excellence Awards](#) for Business Project of the Year from [BCS](#), The Chartered Institute for IT. The award recognized the company's work in aligning the right technologies to meet its changing business needs. Among those needs was new storage architecture capable of scaling in line with JLR's growing demand for simulation analysis – this was provided by EMC Isilon.

Customer Benefits:

Reduced complexity and costs: JLR consolidated its workflow to a single file system and point of management, simplifying the IT infrastructure, accelerating productivity, increasing both capacity and performance and reducing costs.

Reduced environmental impact: JLR achieved increased power efficiency and decreased its

CIMdata PLM Industry Summary

environmental impact, both in the data center and in simulation operations.

Disaster Recovery: By deploying Isilon X-Series and NL-Series scale-out NAS, with an N+3 protection setting, JLR ensured that even in the event of a total three node failure crucial data will remain immediately available.

Customer Challenges and Solution:

To fully utilize CAE to deliver its new vehicle programs, JLR invested in technologies to increase simulation capability. The increased virtual simulations created a significant growth in high performance data storage which could not be supported by the existing legacy CAE storage architecture.

JLR evaluated a number of different solutions and selected an EMC Isilon scale-out NAS system due to its "no-compromise" approach to performance and capacity. The company deployed 54 nodes within the cluster of the Isilon [X-Series](#) platform, providing a central CAE storage area that mounts to the client infrastructure. The HPC clusters provide a single CAE data management solution for virtual simulation and physical tests including safety, durability, chassis, aerodynamics, ride and handling. Additionally, JLR is using a separate Isilon [NL-Series](#) cluster for disaster recovery and backup, with Isilon [SyncIQ](#) software application providing asynchronous data replication between the primary X-Series cluster and remote NL-Series cluster.

EMC Quote:

Sam Grocott, vice president of marketing, EMC Isilon

"JLR produces some of the best luxury SUV's and sports cars the industry has to offer. They need a storage solution to match the rapid advances in simulation technology to help sort through the resulting Big Data. EMC Isilon delivers a simple, flexible and scalable platform that JLR has leveraged to maximize performance and capacity, while simplifying management and lowering overall environmental impact of their operations."

About Isilon

Isilon, a division of EMC, is the global leader in scale-out NAS. We deliver powerful yet simple solutions for enterprises that want to manage their data, not their storage. Isilon's products are simple to install, manage and scale, at any size. And, unlike traditional enterprise storage, Isilon stays simple no matter how much storage is added, how much performance is required or how business needs change in the future. We're challenging enterprises to think differently about their storage, because when they do, they'll recognize there's a better, simpler way. Learn what we mean at <http://www.isilon.com>.

 [Click here to return to Contents](#)

KKCL (KILLER JEANS), the Largest Denim Brand in India, Installs TUKAsystems

9 February 2012

Tukatech and Killer Jeans finalized a deal that will provide software solutions to Kewal Kiran Clothing Limited (KKCL), one of India's leading producers of high-quality branded clothing for men and women of all ages.

In 1989, KKCL developed the Killer line of denim which became one of the most popular brands in India. Since then, the company has implemented cutting edge garment design and manufacturing technology to maintain their dominance in the worldwide apparel marketplace. KKCL has also

CIMdata PLM Industry Summary

established a large retail presence selling their brands directly to the consumer, and currently operates more than 240 outlets across India with plans for further expansion.

KKCL's decision to install Tukatech's TUKAcad and TUKA3D for fit development is part of their continued use of innovative technology.

KKCL credits much of their success to their large and efficient manufacturing processes. With an enormous capacity that can accommodate sourcing, finishing, and everything in between, KKCL's ability to produce high quality garments with quick turnarounds will be streamlined by using Tukatech's products. TUKAcad, Tukatech's award-winning CAD system, will allow each pattern maker to make and grade patterns with better accuracy in a shorter amount of time, and SMARTmark will allow marker makers to maximize fabric usage in the cutting room.

In addition to manufacturing garments, KKCL have developed several leading brands that combine the company's popular designs with their exacting production standards. By adopting TUKA3D, KKCL will be able to create realistic 3D prototypes that demonstrate color, texture, fit, and movement in complex clothing patterns, reducing the new product development time and allowing them to be more innovative and offer more choices to their consumers.

The Killer brand is one of the most recognized brands in India, and KKCL has been very successful in developing other brands and product lines such as LAWMAN, INTEGRITI, EASIES, and CHICA, with more in development. From shoes to hats, belts to cologne and deodorant, the stores offer a lifestyle appropriate to their brand name and fashion.

KKCL has advanced their own garment technology by developing patented seams, stitches, and washes for their own brands, all of which were created by the company's designers. By using TUKA3D to design and test future innovations, KKCL will be able to immediately assess and visualize their work on a life-like, three-dimensional avatar that demonstrates how the clothes look, fit and drape on a human being. As KKCL continues to pioneer new ways to make garments, Tukatech will offer both technology and support to turn their vision into reality.

"Tukatech is proud to work with Kewal Kiran Clothing Limited, one of India's most prestigious manufacturers and the home of several of the nation's leading brands," said Tukatech founder and CEO Mr. Ram Sareen. "We are excited to add them to our list of partners that include 'W', BIBA, Globus, Juliet, Jockey, Zadex, Jade Blue, Kids Studio, Tarun Tahiliani, WildCraft, ColorPlus, Zaab, Sweet Dreams, TATA Trend and many more in our family of domestic brands in India gaining international fame."

"We wanted to get the best technology along with experienced guidance from the TUKATECH team and Styku's 3D systems and in-store body scanners. We are really excited to begin working together," commented Mr. Dinesh Jain, one of the four brothers running KKCL.

 [Click here to return to Contents](#)

Mitsubishi Aircraft Selects PTC to Ensure New Regional Jet Meets Aircraft Reliability and Maintainability Goals

7 February 2012

[PTC](#)[®] announced that Mitsubishi Aircraft Corporation has selected PTC as its strategic partner for developing a reliability and maintainability management platform for its Mitsubishi Regional Jet (MRJ) next-generation aircraft program.

CIMdata PLM Industry Summary

The MRJ leverages leading-edge aerodynamic engineering and noise analysis technologies to deliver competitive economics and outstanding cabin comfort. With production planned for 2012, the MRJ is a compelling new offering in the global regional jet market, and the first new airliner produced in Japan in nearly 50 years.

To ensure its customers achieve maximum operational efficiency with each purchase, Mitsubishi Aircraft sought an advanced solution to support its reliability and maintainability management activities. This required a solution that centrally manages product improvements and enhancements (including a detailed product history), gathers and analyzes field data, and communicates necessary improvements to internal organizations and external partners.

After a thorough review of competitive solutions, Mitsubishi Aircraft selected PTC's Windchill® Quality Solutions (formerly known as Relx®) and PTC's Arbortext® Service Information Solutions. The company will implement the PTC solutions in its customer support organization, with the system expected to go live before the first aircraft delivery.

“Today, PTC is proud to have achieved preferred partner status with some of the biggest and most innovative brands in the aerospace and defense industry,” said Jim Heppelmann, president and CEO, PTC. “With its next-generation MRJ, Mitsubishi Aircraft is challenging the status quo of the regional jet market. We are confident that together we can help the MRJ meet the company's high standards for quality, meet the industry's requirements for safety, and meet their future customers' need for reliability.”

Once deployed, the PTC solutions will enable greater collaboration across the MRJ project teams focused on ensuring the quality, reliability, and maintainability of the aircraft. PTC's quality and reliability management solutions are used today to help companies identify potential failure modes of a system, control or prevent their occurrence or effects, and track the compliance of parts and products against a wide range of commonly-used industry standards.

PTC solutions that support the needs of the aerospace and defense industry are designed to support product design and lifecycle management activities of aircraft manufacturers and suppliers, as well as of airlines and government/military organizations. PTC is a leading provider of reliability and maintainability solutions for the A&D industry, delivering solutions to 18 out of the top 20 companies, such as Boeing, Airbus, and other leading organizations.

Additional Resources

[PTC solutions for aircraft manufacturers and airlines](#)

[PTC solutions for aerospace and defense](#)

[PTC's Windchill Quality Solution overview](#)

[PTC's Arbortext solution overview](#)

[MRJ Media Center](#)

About Mitsubishi Aircraft Corporation

Mitsubishi Aircraft Corporation commenced operation on April 1, 2008 to conduct the design, type certification, procurement, sales & marketing and customer support of the Mitsubishi Regional Jet (MRJ). The MRJ is a family of 70- to 90- seat next-generation regional jet which will offer both top-class operational economy and outstanding cabin comfort. Mitsubishi Aircraft Corporation is capitalized at 100 billion yen, with financing furnished by, among others, Mitsubishi Heavy Industries, Ltd., Toyota

CIMdata PLM Industry Summary

Motor Corporation, Mitsubishi Corporation, Sumitomo Corporation and Mitsui & Co., Ltd.

About MRJ

The Mitsubishi Regional Jet (MRJ) is a family of 70- to 90-seat next-generation regional jets developed by the Mitsubishi Aircraft Corporation. By featuring state-of-the-art aerodynamic design, noise analysis technologies and a game-changing engine, the MRJ will significantly cut fuel consumption, noise, and emissions. By offering both top-class operational economy and outstanding cabin comfort, the MRJ will also improve airline competitiveness and profitability. The MRJ features a four-abreast seat configuration, large overhead bins, and feature an innovative slim seat offering heightened passenger comfort.

 [Click here to return to Contents](#)

SofTech Case Study: Cryogenic Industries Gels with ProductCenter PLM

9 February 2012

SofTech, Inc. announces its latest ProductCenter® PLM case study featuring Cryogenic Industries headquartered in Murrieta, California.

“Global Management of SolidWorks Design Libraries and Toolbox within PDM”

Cryogenic Industries (CI) is comprised of several affiliated companies, including ACD, Cosmodyne, Cryoquip and Rhine Engineering that engineer, manufacture and service equipment for the industrial gas, petrochemical and new energy industries worldwide.

With this implementation Cryogenic Industries has achieved the following benefits:

- Global deployment enabling collaboration across CI’s businesses located in the United States, Europe and Asia
- Management of the SolidWorks®, Autodesk® Inventor®, AutoCAD® Mechanical and AutoCAD® Electrical product design data of the different businesses
- Guaranteed accuracy, reliability and availability of intellectual property (IP) documented through product engineering drawings improves the release to manufacturing process
- Control of critical business documents for supporting compliance standards such as the American Society of Mechanical Engineers (ASME), European Pressure Equipment Directive (PED), Special Equipment Licensing Office (SELO) in China and Korean Gas Safety (KGS).

“We are looking to ProductCenter to increase visibility, accessibility and security. Cryogenic Industries views ProductCenter not just as an Engineering solution but as a global business solution that proves to be a tremendous benefit to our company’s success,” states Ted Pardo Jr., Director Global Information Technology for Cryogenic Industries.

For the complete case study on ProductCenter PLM at Cryogenic Industries visit the SofTech Web site at <http://www.softech.com/success/customer-success?ref=prci>.

As a note, at the SolidWorks World 2012 Certified Partner Theater on February 12, 2012 at 7:15PM, SofTech along with Cryogenic Industries will present “Global Management of SolidWorks Design Libraries and Toolbox within PDM” which highlights how globally dispersed product development organizations can become more productive with SolidWorks. This presentation will include the

CIMdata PLM Industry Summary

management of the complete SolidWorks design within ProductCenter including drawings, project specific components, reusable components accessible from the Design Library, and industry standard parts accessible from Toolbox.

 [Click here to return to Contents](#)

Strand Aerospace Malaysia Uses MSC Software to Improve Structural Analysis Efficiency

9 February 2012

MSC Software Corporation announced that Strand Aerospace Malaysia (SAM) utilized [MSC Nastran](#) and [Patran](#) to improve structural analysis efficiency.

The analysis of structures is required to develop a sound understanding of their behavior when subjected to loading conditions resulting from a combination of operational usage, the environment and in-service degradation. The challenge is to design the structures such that they provide efficient load transfer, and offer lightweight and high performing solutions.

MSC Software technology currently used at Strand include Patran for pre- and post-processing and MSC Nastran for structural analysis, both of which are used by engineers as a result of becoming broadly accepted tools for linear and multidisciplinary analysis within the aerospace and aviation industry. Strand engineers are developing new skills in using these tools, such that there is seamless transfer of data between all organizations in which the company does business.

“We are looking to develop a large number of engineers with Finite Element Modeling (FEM) skills and competency since we recognize the important need for such capability within the aerospace / aviation industry, and in other industries where structural engineering problems need solving,” said Mr. Naguib Mohd Nor, Chief Operating Officer.

“We are proud to be part of the mainstream solution technology portfolio that supports Strand Aerospace Malaysia in their expansion in the ever changing CAE landscape in Aerospace today,” said Mr. Alias Mahamad Isa, Country Manager/Regional Director, at MSC Software ASEAN ANZ.

About Strand Aerospace Malaysia

Strand Aerospace Malaysia (SAM) has been in operation since 2006 and has served the worldwide aerospace industry in the phases of initial design, manufacturing, flight test and certification up to continuous product development. SAM has extensive experience in statics, composites, and fatigue and damage tolerance analysis for aircraft primary, secondary and tertiary structures. SAM is an Airbus (300135) and AS9100 (2009/32562a) approved company. For further information about SAM, please visit: www.strandeng.com or email: analysis_m@strandeng.com

 [Click here to return to Contents](#)

Turkey's Largest Public Banking Organization Selects EMC Documentum to Drive Business Transformation

8 February 2012

EMC Corporation announced that Ziraat Bank, the largest public banking organization with the widest service network in Turkey, has selected [EMC Documentum](#) to improve its organizational processes across 1,400 branch offices and subsidiaries worldwide. EMC Documentum is a comprehensive

CIMdata PLM Industry Summary

[enterprise content management](#) (ECM) platform that enables customers to collaborate, manages, access, distribute and control information securely anywhere, at any time, from any device. The EMC solution combines [enterprise content management](#) (ECM), [business process management](#) (BPM) and [intelligent capture](#).

With more than 22,000 employees and an aggressive strategy to grow its service network, Ziraat Bank needed a comprehensive and highly-integrated ECM solution for managing its entire information life-cycle with superior security and governance. After a rigorous evaluation process and working with EMC's [Information Intelligence Group's Services](#) organization, the company chose an enterprise-wide approach to managing its information and deployed Documentum as its intelligent information foundation combining ECM, [business process management](#) (BPM), and [capture](#) capabilities within a unified information management platform.

By deploying Documentum, Ziraat Bank can now implement internal correspondence and regulation processes to ensure global compliance and operational efficiency, and automate application processing to accelerate transactions and increase productivity across various internal departments. These processes are streamlined and coordinated across functional boundaries both inside and outside the organization, providing the visibility into business operations to enhance decision quality and service levels.

 [Click here to return to Contents](#)

Product News

Cadence Collaborates with Samsung Foundry to Deliver Design-for-Manufacturing Solution for 32-, 28- and 20-Nanometer Chip Design

6 February 2012

Cadence Design Systems, Inc. announced that Samsung Electronics' Foundry business, Samsung Foundry, has collaborated with Cadence® to develop a world-class design-for-manufacturing (DFM) infrastructure to produce the most advanced chips. Working closely together, Cadence and Samsung Foundry have developed “in-design” and signoff DFM flows to tackle physical signoff and electrical variability optimization for 32-, 28- and 20-nanometer SoC designs. The new flows address both random and systematic yield issues, providing customers with a proven foundry option for advanced-node designs built on the Cadence Encounter® digital and Cadence Virtuoso® custom/analog implementation solutions.

The unique Cadence in-design approach to Silicon Realization moves traditional DFM steps into the implementation stage of digital and custom chip design. This approach is aimed at boosting productivity, predictability and profitability while reducing risk. The DFM flows developed at Samsung Foundry leverage [multiple groundbreaking technologies](#), including Cadence Pattern Classification and Search, Cadence CMP Predictor, Cadence Litho Physical Analyzer and Cadence Yield Analyzer and Optimizer.

“As we expand our customer base at advanced process nodes, customers require various design flows,” said Kyu-Myung Choi, senior vice president of Infrastructure Design Center, Samsung Electronics, “By teaming with Cadence to build a strong foundry ecosystem for advanced node designs, we’ve achieved numerous benefits we can pass along to our customers such as reducing risk and speeding time to market. We’ve enjoyed great success at 32 and 28 nanometers with Cadence, and we have now extended our advanced DFM flow to 20 nanometers as well.”

CIMdata PLM Industry Summary

Manufacturing complexity is growing exponentially at advanced nodes, and it impacts design cycle time and time to yield compared to previous nodes. With the new infrastructure optimized for advanced nodes, Samsung Foundry is able to use the hierarchical design approach and pattern matching to perform effective and accurate systematic failure analysis. And the Cadence production-proven in-design DFM prevention and optimization in Cadence Encounter® digital and Cadence Virtuoso® custom/analog implementation solutions enables first-time-correct silicon.

The Cadence pattern classification technology allows Samsung Foundry to classify the yield detractor patterns into easily usable pattern libraries. The infrastructure enables Samsung Foundry's customers to leverage the in-design and signoff pattern matching with automated fixing flows in Encounter and Virtuoso. Another new innovation from this collaboration is the development of a Chip-based CMP analysis flow to enable early convergence of topography yield issues in advanced digital and custom designs.

“As the provider of cutting-edge technologies and methodologies for leading foundries, we worked closely with Samsung Foundry to integrate our robust DFM suite, which continues to gain momentum as the advantages of in-design DFM become increasingly evident,” said Tom Beckley, senior vice president, Custom IC and Signoff, Silicon Realization Group at Cadence. “The flows and underlying infrastructure our companies created together can provide a significant competitive edge by enabling engineers to meet tight deadlines while reducing the risk of costly errors.”

 [Click here to return to Contents](#)

Dassault Systèmes Opens New Horizons with 3D Experience

9 February 2012

Dassault Systèmes announced the pursuit of a new strategy based on a 3D Experience platform that will change the way industry leaders and marketers create value for their end consumers. The 3D Experience platform transforms the way “innovators will innovate with consumers” by connecting designers, engineers, marketing managers and even consumers, in a new ‘social enterprise’.

“We have evolved the V6 platform with our customers over the last few years. The addition of intelligent information search-based technologies, social innovation capabilities and realistic 3D virtual experiences made us ready to pioneer a new technological wave: a 3D Experience platform to serve the social enterprise of the 21st century,” said Bernard Charlès, President and CEO, Dassault Systèmes. “I am convinced that within this century, people will invent and innovate more than ever before. We must provide businesses and people with holistic 3D experiences to imagine sustainable innovations capable of harmonizing products, nature and life.”

3D Experiences are a catalyst for innovation, enabling any enterprise stakeholder to participate in the innovation process, contributing to drive value for the end consumer.

“The way enterprises work internally and externally will change significantly in the next coming decades,” said Monica Menghini, recently appointed Executive Vice President, Industry, Marketing and Corporate Communications. “Therefore, our objective is to provide our clients with a powerful platform, which uses the universal language of 3D and the Web as the user interface, to help them to connect the dots for a game-changing increase in end-user value.”

“3D virtual store applications, 3D visual logistics applications, as well as easy and real-time-connected business dashboarding have already changed the way companies operate. With the launch of our

CIMdata PLM Industry Summary

3DSwYM brand, the acquisition of Internet companies such as Exalead and [Netvibes](#) (announced today), we are further reinforcing the Social Business Apps which are part of our 3D Experience platform,” said Bernard Charlès.

“Are customers in the business of PDM or CAD or process management? No. Our customers are looking to design the safest, greenest and smartest vehicle, but also how to create the desired, valuable customer experience suiting each market need,” continued Monica Menghini. “We want to help them move from vehicle attributes to vehicle experience. We are looking at the world through their eyes. The 3D Experience platform will help them create winning consumer experiences.”

In today’s Fourth Quarter and Full Year 2011 results, Bernard Charlès explained how Dassault Systèmes’ excellent financial performance was driven strongly by the 3D Experiences already made possible. “Working with very prestigious companies for many years, such as Ford, Boeing, BMW, Guess, Honda, Airbus, Carrefour, Johnson & Johnson, P&G, Benetton, and GE, to name a few, it became clear to us that we are ready to provide ‘Social Industry 3D Experiences’. It was time to open new horizons,” declared Bernard Charlès.

To find out more about 3D Experience: <http://www.3ds.com/>.

 [Click here to return to Contents](#)

DigAnaRS Releases DARS v2.08: Cutting-edge Chemistry Simulation for Advanced Combustion Engineering

7 February 2012

DigAnaRS announced the launch of DARS v2.08, the latest release in the DARS family of advanced simulation tools for the analysis of complex chemical reactions. The new release includes novel models and provides improved predictive capabilities and further reduced simulation times (25 times faster for the spark ignition engine and 3 times faster for the directly injected compression ignition engine).

“Further development in parallelization, load balancing, and particle clustering makes DARS an even faster and more efficient tool for the analysis of all kind of reactive flows” says Fabian Mauss, President and Founder of DigAnaRS. “The CPU time needed for an engine cycle simulation with DARS SRM model with 100 particles is today at 5 seconds. This allows for efficient model parameter optimization, when using reduced reaction mechanisms.”

DARS v2.08 further builds upon its 1-D simulation capabilities that can be used to model reactor-networks such as exhaust systems. Combined with the predictive reactor and engine models, DARS v2.08 also delivers closer processes optimization. Kinetic mapping gives users insight into the effect of changing the composition of a fuel - for instance by adding biofuel - influences process efficiency and emissions.

Available now for download, DARS will be officially launched at the dedicated [DARS Workshop](#) that will form part of the [STAR Global Conference 2012](#) (March 19-21, 2012, The Netherlands).

New models:

Transient Stochastic Pipe

With the addition of this model, users can simulate burnt gas behavior in the exhaust manifold or piping, and investigate post-combustion conditions of exhaust gas mixture.

Potential application of the new pipe model areas:

Conditions for igniting unburned hydrocarbons in the exhaust piping

Inlet conditions for catalysts

After-treatment in automotive and power generation engineering

Combustion applications in chemical, environment and heavy industries.

Predictive flame propagation model for spark ignition engine simulation

This model replaces or complements the Wiebe function for burning speed with predictive capabilities. The approach takes into account 3D geometry of the cylinder, the turbulence level and the laminar flame speed of the fuel. Application areas encompass engine knock investigations.

Additional features for the Flame calculations

Improved calculation capability with cold start option

Calculations speedup and solver convergence

Particle Clustering technique

The clustering is based on proximity in phase space. The method enables a reduction in the number of individual calculations per particles and therefore a significant speed-up, while still maintaining of the accuracy of detailed chemistry.

Improved convergence for very stiff chemical mechanisms

For information on all new features in DARS v2.08 please visit <https://support.cd-adapco.com> or www.loge.se.

 [Click here to return to Contents](#)

InterSpec Announces New e-SPECS Navisworks Plug-In Console

7 February 2012

[InterSpec Inc.](#), a provider of BIM integrated construction specification software and services, announced today a major new addition to its popular e-SPECS software solutions. e-SPECS for Navisworks enables intelligent and dynamic access to construction project materials data, project specifications and accompanying project related files directly within the Autodesk® Navisworks® application.

Architectural and engineering firms doing drawing coordination or merging engineering models can better collaborate with direct access to specified information. Contractors can save time and money during their estimating, bidding and construction phases with electronic access to the coordinated specifications and the storage and quick retrieval of project related files. Being able to review and comment on submittal items online streamlines the procurement of materials and quickens the processing of the required submittals. Owners are able to review and verify their product and system preferences from design phase, through bidding and construction sequences, and into facility management.

e-SPECS for Navisworks enables direct access to project construction information, coordinated specifications and related project files enabling the following benefits:

- Advanced collaboration of Design and Construction teams in Navisworks' visual project review application

CIMdata PLM Industry Summary

- Dynamic access to detailed material requirements for Bidding and Estimating through selected Navisworks elements
- Faster review and return times of required submittal documentation through electronic access
- Easy document markup for creation of as-built specifications within Revit or Navisworks
- Instant graphic representation of required building material locations and quantities for coordination and construction planning and owner confirmation.

The e-SPECS Navisworks Plug-In Console is scheduled for official release in March 2012. Current e-SPECS for Revit customers may add on the e-SPECS Navisworks Plug-In Console and take full advantage of the current BIM integration directly within Navisworks. Promotional incentives are available through March 31, 2012. Contact Sales@e-SPECS.com for more information.

 [Click here to return to Contents](#)

Invention Machine Launches Breakthrough Software to Boost Innovation & Productivity

7 February 2012

Invention Machine unveiled Goldfire Connect™, new software to help global manufacturers deliver greater efficiencies and market-leading products. Goldfire Connect enables companies to work faster, smarter, and more productively by connecting personnel to intelligence, experts, consumer sentiment, and the latest competitive and technology trends.

Studies by Invention Machine and by leading analysts and consultants have demonstrated that a lack of collaboration and insufficient connectivity to knowledge – inside and outside of the organization - reduces efficiencies by 30 to 45 percent or more. These inefficiencies result in significant waste, rework, and redundancy.

Goldfire Connect, the newest module of Invention Machine's Goldfire® Innovation Intelligence Platform, addresses the connectivity needs of today's global manufacturers. Powered by Invention Machine's multi-patented, multi-lingual semantic research technology, Goldfire Connect delivers the precise, relevant meaning captured within document repositories inside and outside the company - making content actionable.

Only Goldfire Connect gives companies the on-demand ability to:

■ **Connect People to People.** Goldfire Connect's collaborative framework enables individuals and teams to share ideas and work together to solve problems.

■ **Connect People to Experts.** Goldfire Connect identifies domain experts from within and outside the organization so expertise is appropriately leveraged.

■ **Connect People to Internal & External Knowledge.** With Goldfire Connect, engineers and scientists can tap into institutional memory to uncover proven solutions, best practices and lessons learned. Innovation workers can also easily access and apply rich technical knowledge outside the enterprise - on the Internet, in the 'Deep Web', and in journals, patent collections, and Goldfire's specialized collections of multi-disciplinary scientific content.

■ **Connect People to New Markets.** Goldfire Connect includes a packaged set of analytic tools that help companies identify new markets and roadmap and develop products more strategically, giving them a rapid understanding of the latest market, technology and competitive trends.

CIMdata PLM Industry Summary

■ **Connect People to Consumer Opinions.** Goldfire Connect's Consumer Sentiment utility connects companies to the Voice of the Customer as expressed in blogs and social media sites like Facebook and Twitter.

Goldfire Connect began shipping the first of February and is available directly from [Invention Machine](#).

 [Click here to return to Contents](#)

Latest Round of Innovations for SAP Business Suite Anticipates Customer Needs

6 February 2012

Following its commitment to deliver regular and digestible innovation to customers, [SAP AG](#) announced the second wave of extensive usability and functionality improvements for industry and line-of-business solutions. Launched in [October 2011](#), the accelerated delivery model for [SAP Business Suite](#) software allows the delivery of incremental updates without disrupting customers' business — driven by business needs, not technical requirements. The innovations will include new user experiences for professional and casual users, such as landing pages and side panels with integrated analytics.

Application stack simplifications will help customers better manage the total cost of ownership (TCO) of their IT landscape. Functional enhancements to SAP applications will address a wide range of important business processes:

For the supply chain, the SAP Supply Network Collaboration (SAP SNC) application will be enhanced to improve analysis of suppliers' performance and drive increased adoption within a partner ecosystem.

For marketing, a new user interface (UI) is planned to allow users to interactively compile target groups for marketing campaigns from multiple high-volume data sources. Better targeted campaigns will help to save marketing money and increase campaign effectiveness.

A new UI in the SAP Enterprise Asset Management (SAP EAM) solution will enable maintenance workers to carry out their daily tasks more easily and efficiently. Integrated functionality for worker safety and risk management will help make operations of technical objects, including pipelines or power grids, safer.

For business travelers, the SAP Travel Management application is planned to simplify receipt management and accelerate reimbursement processes. Easy access to travel information will help travelers plan trips better and save money.

Side panels with contextual information will be provided to improve the user experience for professional finance users. Notes, attachments, analytical and Web content will help professionals in making informed decisions.

Manufacturers will gain the ability to increase their operational efficiency in production with planned enhancements to batch handling, cost planning, and label printing in the enterprise resource planning (ERP) application SAP ERP.

The consume-to-cash process is planned to support end-to-end prepaid processes and to be deeply integrated with CRM. This will help simplify and accelerate the modeling and deployment of innovative products and services.

 [Click here to return to Contents](#)

Mastercam X6 Mill Brings Efficiency and Automation

9 February 2012

Mastercam X6 Mill offers expanded machining flexibility and an increased emphasis on speed and automation. In-process stock models, new toolpaths, Dynamic Toolpath enhancements, and the new Blade Expert add-on combine with dozens of additional new enhancements in a package intended to improve shop floor productivity.

Here are some of the most significant highlights and new functionality in Mastercam X6 Mill:

Stock Model

A precise machining stock model delivers a variety of benefits—viewing and verifying work as it progresses, performing stock model comparisons, and easily choosing existing stock for rest machining. Mastercam gives you the power to create accurate, fully-associative stock models at any point in your machining process.

OptiRest Toolpath

Mastercam's latest 3D High Speed Toolpath performs Rest Milling operations to remove remaining material with optimized roughing motion. This powerful new toolpath can use the new stock model functionality for defining stock removal areas.

Hybrid Finish Filler Passes

3D high speed Hybrid toolpaths now maintain all of the Z level cuts in the steep areas of your parts while filling in the shallow areas with scallop motion within a single Z section. These toolpaths combine the best of both worlds with waterline (constant Z) motion and scallop where needed. Now you can have both waterline and scallop motion at the same Z section, section after section. The result is a much better finish and more efficient use of the tool.

Blade Expert Add-on

Mastercam Blade Expert greatly simplifies the toolpath creation process for any multi-bladed parts, including fans, propellers, impellers, turbines, marine screws, and more. There is no limit to the number of blades, splitters, or sub-splitters that can be programmed. Blade Expert includes a variety of powerful and flexible multiaxis roughing strategies. Automatic tool axis control ensures smooth machine motion.

Other new enhancements include:

- 2D HST Region Chaining
- 2D HST Dynamic Toolpath Improvements
- 64-bit support
- OptiRough strategy now offers OptiCore and OptiArea
- And much more.

For more information on Mastercam X6, and to view videos on the new software features, please visit <http://www.mastercam.com>.

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

MecSoft Announces VisualMILL® 2012

8 February 2012

MecSoft Corporation, the developer of VisualMILL, RhinoCAM, VisualMILL for SolidWorks, Alibre CAM and other computer aided manufacturing(CAM) software solutions, has announced the availability of VisualMILL 2012, a major version upgrade to its current VisualMILL 6.0 version.

In addition to over hundreds of enhancements and improvements to the existing VisualMILL 6.0 product, VisualMILL 2012 features a new 5 Axis continuous milling module, powerful new toolpath generation methods along with processing and productivity improvements. This version raises the bar on productivity and performance.

"This release is the culmination of multiple years of hard work spent in improving and enhancing the functionality offered in our industry leading product VisualMILL. We are proud of this product release and expect it to do extremely well in the market place." says MecSoft's President Joe Anand.

The product is available for immediate download at MecSoft's web-site <http://www.mecsoft.com>

 [Click here to return to Contents](#)

SmartCAM V18 Features New Mill/Turn Sub-Spindle and B-axis Support, Milling Morph Pattern; Updated ACIS Kernel, Usability Improvements Also Added

8 February 2012

SmartCAMcnc has announced the release of SmartCAM® V18.5. Version 18.5 delivers new and improved functionality to the SmartCAM turning and milling suite of products, and several core usability enhancements to the entire SmartCAM suite of computer-aided manufacturing (CAM) system software. The SmartCAM product family consists of applications for Computer-Numerical Control (CNC) milling, turning, fabrication and wire EDM.

SmartCAM Version 18.5 was built on three central themes: turning and mill/turn improvements; mill roughing improvements; and core usability enhancements requested by customers.

Sub-spindle support is introduced to the SmartCAM Advanced Turning™ product, and is one of three major turning improvements in V18.5. It allows machining operations to be defined on workplanes designated for the sub-spindle. SmartCAM toolpath generation routines now allow toolpath to be created using main- or sub-spindle plane orientations, and a sub-spindle offset parameter allows the sub-spindle origin to be offset from the main-spindle origin by a specified distance. Turret synchronization now allows turning operations to be synchronized across spindles, and new code generator template words provide support for independent spindle control, and conditional sub-spindle output.

"In version 17.5 we began a significant effort to expand the Mill/Turn capabilities of our Advanced Turning product. With V18.5 we continue to demonstrate our commitment to the Mill/Turn market with the addition of sub-spindle, B-axis indexing, C-axis face indexing and canned-cycle roughing support," said Douglas Oliver, SmartCAM's Senior Product Manager. "SmartCAM users with multi-function turning machines will now better utilize their equipment, and achieve higher levels of efficiency and reduced cycle times, saving significant time and money in the process."

B-axis Indexing Support is the second major turning improvement added to SmartCAM Advanced Turning. It allows live tools on machines with a pivoting B-axis to be positioned to machine on the face or side of a part, as well as on skewed planes. The Show Path and ShowCut toolpath and material

CIMdata PLM Industry Summary

removal verifications have been enhanced to display the tool pivoting into position, providing a more accurate and realistic representation of the machine movement, and the Code Generation module has been enhanced to output the corresponding B-axis positions and commands.

The third significant turning improvement, Live Tool C-Axis Face Indexing, is found in SmartCAM Advanced Turning. The C-axis indexing capabilities of Advanced Turning have been extended to include the ability to index user defined workplanes whose local Z axis is parallel to the world Z axis. This new capability allows machines with a Y axis to machine repetitive face features by indexing the C axis to each feature position then using XY motion to cut the feature.

The final major turning improvement, Canned-cycle Roughing Support, is found in both SmartCAM Production Turning and SmartCAM Advanced Turning. This new support takes advantage of a machine control's built-in roughing cycles by outputting the necessary canned-cycle commands and part profiles, while still providing in-SmartCAM verification that accurately simulates the material removal.

Also in V18.5, all SmartCAM milling products provide a new Rough Milling Morph pattern which allows a variety of pocket and face features to be machined with a continuous toolpath that blends between an outer boundary and an inner point or island. This new pattern type ensures the specified cut type (climb or conventional) is consistently maintained throughout the entire toolpath while eliminating retracts and re-entries which can often lead to reduced feedrates and tool breakage. The Advanced Milling products (Advanced Milling and FreeForm Machining) include a new Closed Profiles Planar Rough Process option that provides further control by allowing machining to be restricted to closed areas only.

As with all SmartCAM releases, numerous customer-requested core usability improvements can be found in all SmartCAM V18.5 applications. Improved workplane definitions, a new right-mouse button menu for instant access to workplane commands, an improved Element Data command which allows elements inside a Container to be viewed, and new viewing controls that allow standard views to be displayed relative to any workplane were all suggested by SmartCAM customers.

Other notable improvements include:

Second Back-offset can be specified and outputted when profiling with groove tools (all turning products)

ACIS R22 Modeling kernel update (all products)

Updated Data Translation for SolidWorks, Inventor, and Autodesk DXF/DWG (all products)

User-definable lists and insert step selection in the Job Operation Planner (all products)

About SmartCAM & SmartCAMcnc

The SmartCAM family of computer-aided manufacturing software provides toolpath modeling and CNC programming for prismatic production work to complex molds, dies, and prototypes. SmartCAMcnc provides affordable maintenance contracts, updates, upgrades and technical support for all SmartCAM users, regardless of version. All SmartCAM products include updated data translators and NC editing software from Predator Software, Inc (<http://www.predator-software.com>).

 [Click here to return to Contents](#)

CIMdata PLM Industry Summary

Sustainable Minds Announces Custom Data Creation Program for Greener Product R&D

6 February 2012

Sustainable Minds (SM), leaders in cloud-delivered software used by product teams for greener product development, announced another innovation: their [Custom Data Creation Program](#).

This program gives customers a new option when modeling the life cycle environmental performance of their products. Now they can opt for using their own supply chain and primary data, or industry average-based proxies formulated specifically for their materials and processes to benchmark, model and compare product concepts in the earliest stages of R&D.

“Today, as environmental performance increasingly drives product innovation and differentiation, using industry average data is often not good enough”, said Terry Swack, CEO. “Manufacturers want data specific to their materials, processes and supply chain. With our new Custom Data Creation Program, they can have it.” SM’s cloud & service delivery model means data can continually be updated and new data quickly added so product teams have what they need, when they need it.

The new program has been enthusiastically received by customers. Jeffrey Best, Director of Marketing for Spartech Corporation, noted: "Being able to add all the specific data we need for the materials and processes we use provides us a credible and actionable way to work with our customers to make their products greener. We can then choose to share with the general public, or deem them strategic and use in a proprietary database, which we can share with our customers. This gives us a lot of flexibility in shaping our sustainability, sales and marketing strategies and programs going forward.” [Read the full story >](#)

“Our dataset grows as our customers grow, so everyone benefits”, Ms. Swack continued. “Now it's easy to request and add impact factors for the life cycle data you need to model your products. Customers can use the Data Browser to view the current dataset, and the Data Request Form to submit requests. We help you describe and source, then verify and add the data you need for materials, processes, use stage consumables, transportation, and end of life methods. We offer a private cloud solution for companies who want to keep their data proprietary. This capability also paves the way for material manufacturers to get their products in front of product teams looking for improved and alternative material choices.”

Ken Harris, IDSA, principal at fredsparks, commented: "Custom data from SM is essentially an extension of my team. It allows us to approach any client or project of any size with the confidence that we'll be able to deliver innovative and sustainable solutions, and it **allows us to manage overhead by not requiring us to need an in house expert**. When that support is required – SM has our back. A recent example was our Misura Eyewear line. When we sourced new exotic hybrid material blends for their sustainable qualities, SM custom impact factors let us credibly demonstrate that those blends were more sustainable than current market practices.” [Read the full story >](#)

Weekly Webcast Feb 7, 2pm ET/11am PT: Learn about the Data Creation Program and how leading product teams are using Sustainable Minds to respond to market opportunity. [Register >](#)

[↑ Click here to return to Contents](#)

TurboViewer Pro v1 Debuts for Android

8 February 2012

IMSI®/Design announced [TurboViewer](#)™ Pro v1 for Android™.

CIMdata PLM Industry Summary

"TurboViewer is the first and only 2D and 3D CAD viewer on Android," stated Royal Farros, Chairman and CEO of [IMSI/Design](#). "It brings a host of really powerful, useful viewing features to this exploding platform."

Based on TurboViewer TurboViewer Pro for Android includes everything in [TurboViewer](#), plus:

Hidden line

X-ray

Shaded

Shaded with edges

Grayscale mode

Adjust edge color range from white-gray-black

Adjust x-ray transparency factor

Option to use default or model lights (if any in drawing)

Option to render both inside and outside model (force two-sided rendering)

Layer Manager (turn on/off layers, invert layers, turn all layers on/off)

Additional settings (turn on/off 2D/3D autosense navigation, option to use two fingers to 3D rotate/tumble or constrain orbit, etc.)

No onscreen advertising

"We built TurboViewer from the ground up for mobile devices... but what we've found is TurboViewer may be the fastest 2D and 3D drawing viewer on *any* platform," added Farros.

Availability and Pricing

TurboViewer Pro v1 for Android has a limited time 50% off introductory price of \$9.99 and is available now at the Android Market. For more information, please visit <http://www.IMSIdesign.com/TurboViewer>.



[Click here to return to Contents](#)

Zuken Announces E³.WireWorks Unified Release

7 February 2012

Zuken announced the release of a new version of its [E³.WireWorks](#) software – E³.WireWorks Unified – which is now a full part of Zuken's complete [E³.series](#) solution.

E³.WireWorks Unified now uses native E³.series files and provides users with access to modules that were previously only available in E³.series. E³.WireWorks users join Zuken's E³.series global license community of more than 25,000 users.

E³.WireWorks is the E³.series edition of Zuken's complete solution for schematic, cable, panel and fluid systems design, specially configured for seamless flow with SolidWorks®.

Dominic Locas, Fortress Technology says: "The design automation features and flexible application programming interface were key reasons we chose E³.WireWorks, and we've now achieved significant

time savings by automating many of the drawing functions."

Expanded links to SolidWorks

Closer ties to SolidWorks include SolidWorks Enterprise PDM integration for bill of material management, completing the existing design workflow and lifecycle control capabilities. Additionally, fluid schematics created in E³.WireWorks can now be imported to SolidWorks via the P&ID import utility found in routing.

Navigation has been improved through more intuitive menus to achieve reduced click rates, plus a fresher user interface.

Building on pedigree

This new version of E³.WireWorks includes the significant time saving and efficiency developments incorporated into the [E³.series 2011](#) release, such as:

Advanced variant management in [E³.panel](#) to create different variant panel layouts within the same design.

Improved connector handling with functions such as supporting bulkhead connectors, connectors with pins within pins, and connectors with several plug sides, and automatic connector pin terminal and wire seal selection.

Simplified signal management by classifying signals into groups, allowing users to connect signals with different names to a common point in the design.

Expanded module support improves productivity

As part of the full E³.series suite, E³.WireWorks users can now add any of the modules within the E³.series tool chest. These include:

[E³.topology](#) – for topology and functional design creation; offering detailed early planning and design leading to a reduction in design time and iterations.

[E³.RevisionManagement](#) – compare, report and track the design of wiring, harnesses, cable assemblies and control panels, verifying compliance with industry standards.

Select Additional Parts utility – a free tool allowing designs that need additional parts (often non-drawn items such as screws and fixings) to be brought into the E³.WireWorks project through a selection dialog box.

E³.WireWorks customers on a maintenance contract will be entitled to this upgrade.

For more information about E³.WireWorks:

Web: visit www.zuken.com/e3-wireworks to find a reseller near you

Blog: read more about E³.WireWorks Unified on the [Zuken blog](#)

Linkedin: join the E³.series community through the [E³.series World](#) LinkedIn group

 [Click here to return to Contents](#)

ZW3D 2012 Beta 2 Arrives with Extended Modeling Enhancements

9 February 2012

CIMdata PLM Industry Summary

ZWSOFT released Beta 2 for its forthcoming release of ZW3D 2012. Compared with beta 1 (released on January 18), this beta adds functions in the areas of the user interface, 2D drawings, sheet metal design, and translation.

What's Updated in ZW3D 2012 Beta 2

ZW3D 2012 Beta 2 adds the Dynamic Copy-Move Entities command, which allows users to move, rotate, and copy entities interactively. Two surface commands (Trim to curves and Split with curves) support intersecting faces direct operation, no longer need curves definitions.

The view origin can now be defined automatically: when users right-click during edge and face editing, the pick point becomes the view origin -- unless they specify otherwise. The Drag Datum command has been added for resizing datums.

In 2D drawings, detail views now support hole dimensions, and dimension tolerances can consist of just one tolerance. In the area of sheet metal design, the Update Fold Along a Line command now supports 3D lines and sketch lines.

The user interface has been enhanced through a new user-customizable Window Pick cursor. The TransMagic import menu is merged with the native Import menu; this convenience means that users no longer deal with two menus.

Pricing and Availability

ZW3D 2012 Beta 2 is a no-charge, time-limited testing program and is already available for download from <http://www.zwsoft.com/en/zw3d-2012-beta-test/>.



[Click here to return to Contents](#)