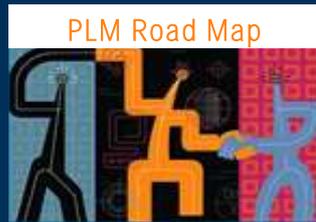


# Conference programme

## PLM Road Map 2019 and PDT 2019

The must-attend event for PLM professionals



# PDT

### USA

29-30 May | Washington D.C.  
The Marriott Hotel | Tysons Corner

### FRANCE

13-14 November | Paris  
Renaissance Hotel | La Defense

THEME 2019:

PLM for Professionals – Product Lifecycle Innovation

**eurostep**

**CIMdata®**

# MOST WELCOME TO PLM ROAD MAP AND PDT 2019

## **PLM for Professionals – Product Lifecycle Innovation.**

As PLM is naturally expanding its coverage there are plenty of opportunities opening for innovation across a product's entire lifecycle. Any PLM professional needs to manage the complex PLM legacy, as well as understand where all new capabilities in and around PLM can and most likely will take us. *PLM Road Map and PDT North America* is the meeting place where leaders will report on these two fronts—the classics of PLM and the upcoming PLM enablers. Pain points and trends!

In the camp of classic PLM are the pain points of understanding and deciding the borders between MBOM, EBOM, and SBOM—if the borders still exist! Configuration Management and Collaboration are additional areas that have been around where innovation can still provide significant advantages. New business models require rethinking. What was state of the art isn't anymore.

The PLM professional also needs to manage and plan for the introduction and democratization of Modeling & Simulation, Model Based Systems Engineering, Predictive Maintenance, Additive Manufacturing, Augmented Reality, and Cloud. Investment and training need to go where the best pay-off is, but PLM professionals must make sure recent and promising technologies are seamlessly integrated parts of the total PLM solution. Standardization at the right levels can enable an architecture where old and new will co-exist for the benefit of all in transformed digital networks.

*Today, PLM is a topic that is hotter than ever with a lot of recent VC investments, as well as a long list of mergers & acquisitions.*

*PLM is definitely a major part of any organization's Digital Transformation.*

## Agenda | Day 1 - May 29

7:30 a.m. – 8:30 a.m.	<b>Registration &amp; Continental Breakfast in the PLM Collaboration Café</b>
8:30 a.m. – 8:40 a.m.	<p><b>Welcome</b></p> <p><i>Peter Bilello, President, CIMdata &amp; Håkan Kårdén, Director of Marketing, Eurostep</i></p>
8:40 a.m. – 9:25 a.m.	<p><b>KEYNOTE: The State of PLM: Today's Market &amp; Leading Trends</b></p> <p>This presentation will review the current state of the PLM industry with emphasis on key trends and issues, including augmented intelligence and other emerging trends that are critical to the success of PLM implementation and adoption. CIMdata will share its views on these trends and the impact they have on companies implementing PLM and the PLM professional community in this increasingly challenging global business environment.</p> <p><i>Peter Bilello, President, CIMdata</i></p>
9:25 a.m. – 10:00 a.m.	<p><b>Best Practices for Multiple-view Bill of Materials (BOM) Management</b></p> <p>Today's PLM tools allow for multiple views of the BOM and product structures. This presents the possibility of giving each participant in the value stream a level of independence to optimize configuration for performance within their domain. However, such solutions require reconciliation and complex consumption methods. The multi-view BOM concept must facilitate a consistent representation of the product across its lifecycle, from Design Engineering to Manufacturing Engineering, Procurement, Certification, and post production services. Members of an A&amp;D multi-company project team will discuss progress made toward defining and instantiating industry best practices for managing multiple views of the BOM and how they can be used to enhance value from a company's chosen PLM solutions.</p> <p><i>Aleksander Przybylo, The Boeing Company</i></p>
10:00 a.m. – 10:30 a.m.	<i>Sponsor Thought-Leadership Vignettes</i>
10:30 a.m. – 11:00 a.m.	<b>Networking Break &amp; PLM Collaboration Café</b>
11:00 a.m. – 11:30 a.m.	<i>Sponsor Thought-Leadership Vignettes</i>
11:30 a.m. – 12:05 p.m.	<p><b>A Current and Future State Overview of PLM Interconnectivity for a Medical Device Company</b></p> <p>A major medical device company has invested in its PLM platform to address evolving business requirements that have resulted in a patchwork of interfaces to a growing number of both internal and external systems. Not all the systems are the typical ones used in PLM integration, e.g. ERP, as the PLM platform is easily leveraged for automating business processes outside of the usual change control processes for drawings, BOMs, and parts. This presentation will review the pitfalls, challenges, and benefits achieved by integrating PLM with disparate systems. The current state of integration along with the future roadmap that takes a more strategic approach to PLM integration to achieve a single source of truth will be presented.</p> <p><i>Gregory Yow, P.E., Manager Business Solutions – PLM IT, Teleflex</i></p>
12:05 p.m. – 1:15 p.m.	<b>Networking Lunch &amp; PLM Collaboration Café</b>

<p>1:15 p.m. – 2:00 p.m.</p>	<p><b>KEYNOTE: A Flagship Data Integration Project in Support of the Royal Navy’s New Carriers</b></p> <p>The United Kingdom’s Royal Navy commissioned the new aircraft carrier HMS Queen Elizabeth in late 2017. An aircraft carrier system is one of the most complex pieces of engineering one can imagine and any number associated with the carrier is mind-blowing. This presentation will consider the project from a product information management viewpoint, with all its complexity, diversity of stakeholders, and the value of data over time. Attendees will hear about the challenges and approaches for managing and maintaining data for this flagship project in order to support an operation meeting high standards for performance, availability, and safety.</p> <p><i>Roger Hobley, Technology Development Manager – Maritime Services IS&amp;S BAE Systems Surface Ships, BAE Systems</i></p>
<p>2:00 p.m. – 2:35 p.m.</p>	<p><b>The Minimum Digital Thread for Aircraft Certification</b></p> <p>The use of multiple software tools to create and consume model-based definition (MBD) data in different, often proprietary, formats results in substantial non-value-added integration costs and data interoperability issues. An open, vendor-neutral standard format as the common language is critical. Members of an A&amp;D multi-company project team are defining the minimum data content in MBD type design required to meet manufacture, inspection, and regulatory certification requirements. The Group has focused on ISO 10303-242 (STEP AP242), ISO 14306 (JT), and ISO 32000/14739 (PRC for 3D PDF), and commercial translation tools that support data exchange and interoperability requirements for existing MBD design processes. This presentation will describe the status of their work, and their plan to present detailed requirements, promote adoption, and achieve compliance within the PLM ecosystem.</p> <p><i>Dr. Ken Versprille, Executive Consultant, CIMdata</i></p>
<p>2:35 p.m. – 3:00 p.m.</p>	<p style="text-align: center;"><b>Networking Break &amp; PLM Collaboration Café</b></p>
<p>3:00 p.m. – 3:45 p.m.</p>	<p><b>Panel Discussion: PLM and Complexity</b></p> <p>In this panel discussion we will consider PLM and complexity.</p> <p>We will consider the following questions:</p> <ul style="list-style-type: none"> <li>- What can we all do to make PLM simpler?</li> <li>- When is PLM as simple as possible?</li> <li>- Where should we invest for success: In technology, people, or processes?</li> </ul> <p><i>Facilitated by Håkan Kårdén, Director of Marketing, Eurostep</i></p>
<p>3:45 p.m. – 4:20 p.m.</p>	<p><b>The Challenges of Model-Based Systems Engineering (MBSE) for NASA</b></p> <p>NASA is investigating methods and tools to shift away from legacy document-centric systems engineering toward Model-Based Systems Engineering (MBSE) solutions. While the legacy Systems Engineering (SE) approach provides a robust and proven methodology appropriate to systems that may be unprecedented, mission or safety critical, and operating in extreme environments, the agency seeks to adopt new model-based strategies capable of supporting distributed development, model reuse, and a more comprehensive analytical environment. This presentation will provide an overview of NASA SE processes, recent MBSE initiatives, and remaining challenges in interoperability and model integration yet to be addressed.</p> <p><i>Kurt Woodham, NASA and Nigel Shaw, Technical Fellow, Eurostep</i></p>
<p>4:20 p.m. – 4:30 p.m.</p>	<p style="text-align: center;"><b>First day summary</b></p>
<p>4:30 p.m.</p>	<p style="text-align: center;"><b>Conference Adjourns for the Day</b></p>
<p>4:30 p.m. – 6:00 p.m.</p>	<p style="text-align: center;"><b>Happy Hour - avoid the traffic and join us for drinks and snacks in the PLM Collaboration Café</b></p>

## Agenda | Day 2 - May 30

7:30 a.m. – 8:30 a.m.	<b>Registration &amp; Continental Breakfast in the PLM Collaboration Café</b>
8:30 a.m. – 8:40 a.m.	<p><b>Welcome</b></p> <p><i>Peter Bilello, President, CIMdata &amp; Håkan Kårdén, Director of Marketing, Eurostep</i></p>
8:40 a.m. – 9:25 a.m.	<p><b>KEYNOTE: Navigating the Journey to Industrie 4.0. The Good, The Bad, and Making the Ugly – Less Ugly!</b></p> <p>Manufacturing IT infrastructure has evolved in an adaptive emergent way for more than 30 years. Today, Industrie 4.0 represents the greatest disruption in business models and platform-based technology opportunities in more than a generation. This presentation will share insight based on recent surveys and discussions with leading manufacturers about the journey to Industrie 4.0 and ideas about how to mitigate key risks during that journey.</p> <p><i>Dr. Marc Halpern, P.E., Vice President, Gartner</i></p>
9:25 a.m. – 10:00 a.m.	<p><b>Identifying Value in Product Lifecycle Innovation using Integrated Product, Process, and Logistics Viewpoints</b></p> <p>The White House's National Security Strategy says producing needed parts and systems, healthy and secure supply chains, and a skilled U.S. workforce is essential for ensuring the Nation's economic and national security. In executing a Digital Engineering Strategy, the United States Department of Defense believes a successful digital transformation of manufacturing using digital and model-based engineering practices will address enduring challenges associated with complexity, uncertainty, and rapid change in deploying and using systems. There is a lot of hype around the digital transformation of manufacturing. Industry, especially large enterprise, is accepting of digital technologies. However, small-to-medium enterprises (SMEs) cannot afford to slow down or disrupt their production processes. Those manufacturers must take a more cautious approach to going digital. The caution among SMEs should not be misunderstood as a lack of strategic alignment.</p> <p>The world of manufacturing is complex and is made up of countless distributed pieces that must come together to deliver goods. SMEs cannot afford to completely redesign their manufacturing systems. SMEs need ways to leverage the capabilities in which they have already invested and add the appropriate new technologies that will increase their productivity and profits. This presentation will show that technology alone cannot solve these challenges, nor is technology the hardest challenge to address.</p> <p><i>Thomas Hedberg, Jr., Ph.D., P.E., Research Mechanical Engineer, NIST</i></p>
10:00a.m. – 10:30 a.m.	<b>Networking Break &amp; PLM Collaboration Café</b>
10:30 a.m. – 11:05 p.m.	<p><b>Optimization of Supply Chain Collaboration Practices</b></p> <p>The electronic definition of product has disrupted decades of industry standard practice for data transfer (i.e., paper and scan/fax) between OEMs and their supply chain. Supplier agreements still refer to paper processes instead of aligning with 3DMBD and advanced technology. Intellectual property, level of detail, connectivity technology, and data format quickly rose as inhibitors to electronic data definition and transfer. What has emerged as best practice for moving forward? Members of an A&amp;D multi-company project team has developed templates for a data exchange setup and process protocols consistent with industry standards. This presentation will detail the mechanics of configuring and integrating an OEM and supplier in a consistent and optimized state.</p> <p><i>Speaker from the Aerospace PLM Action Group</i></p>

11:05 a.m. – 11:50 a.m.	<p><b>KEYNOTE: DoD Digital Engineering Initiative</b></p> <p>Presentation description to come.</p> <p><i>Philomena “Phil” Zimmerman, Deputy Director of Engineering Tools and Environments, Office of the Deputy Assistant Secretary of Defense for Systems Engineering</i></p>
11:50 a.m. – 1:00 p.m.	<p><b>Networking Lunch &amp; PLM Collaboration Café</b></p>
1:00 p.m. – 1:35 p.m.	<p><b>Title to come.</b></p> <p>Description to come.</p> <p><i>David Sherburne, Executive Director, Carestream</i></p>
1:35 p.m. – 2:10 p.m.	<p><b>Enabling Model-Based Systems Engineering Data Interoperability</b></p> <p>The digitization of the product development process from the early conceptual design stage all the way through the entire product lifecycle is a major business goal across all manufacturing industries today. This is especially true in aerospace and defense programs due to the design complexities of cyber-physical systems with ever-increasing amounts of embedded software and electronics. Members of an A&amp;D multi-company project team evaluated current data interoperability standards, enabling a Model-Based Systems Engineering (MBSE) conceptual design process. The activity was to assess the feasibility of exchanging digital requirements and systems architecture models instead of documents within a collaborative product development activity. In this presentation the team will discuss their findings and recommendations for the short and longer term.</p> <p><i>Speaker from the Aerospace PLM Action Group</i></p>
2:10 p.m. – 2:45 p.m.	<p><b>PLM, Model-Based Systems Engineering, and the supply chain—challenges and opportunities</b></p> <p>The typical current situation in many enterprises is that PLM and ALM are well established but distinct and the increasing take up of Model-Based Systems Engineering (MBSE) cuts across these domains. There is an increased emphasis on simulation too, adding SDM. Many enterprises have document-based processes in place and the shift to go fully digitized and really apply MBSE presents real challenges and great opportunities. Including joint ventures and supply chain design partners adds to the mix. So does considering the full lifecycle and the different views (BOMS) used through life. This presentation will look at the challenges and some of the initiatives currently addressing them, both in the standards arena and in commercial practice.</p> <p><i>Nigel Shaw, Technical Fellow, Eurostep</i></p>
2:45 p.m. - 3.00 p.m.	<p><b>Networking Break &amp; PLM Collaboration Café</b></p>
3:00 p.m. - 3.35 p.m.	<p><b>Is it Really a Digital Twin If We Don’t Know the As-Built Configuration?</b></p> <p>The promise of the digital twin will be curtailed if we don’t know the exact as-built configuration of its corresponding physical product instance. Further, it will be challenging to apply what we learn from comparing the predicted behavior of the twin to the actual behavior of its physical counterpart if we lack a comprehensive and accurate digital thread that enables us to trace from the as-built configuration back to the as-planned, as-designed, and as-specified configurations. It’s almost as if we’re getting ahead of ourselves in digital twin/thread initiatives. The challenge of configuration management across the product lifecycle, from cradle to grave, predates digital twin and thread by decades and remains largely unaddressed, putting these advanced initiatives at risk. There are some emerging strategies to help us address this need. This presentation will focus on holistic, cross-lifecycle product configuration management strategies, limitations, and direction.</p> <p><i>Stephen Denman, R&amp;D Systems Engineer, SANDIA National Laboratories</i></p>

3:35p.m. – 4:05 p.m.	<p><b>KEYNOTE: Bringing all the Trends Together, what's next?</b></p> <p>Description to come.</p> <p><i>Peter Bilello, President and CIMdata Dr. Marc Halpern, P.E., Vice President, Gartner</i></p>
4:00 p.m. – 4:15 p.m.	<b>Conference summary</b>
4:15 p.m.	<b>Conference Adjourns</b>

<b>Cost to Attend</b>	
<b>Industrial End-Users</b>	US\$995
<b>Government &amp; DoD</b>	US\$495
<b>Solution Providers</b>	US\$1,495

*CIMdata PLM Action Group Members and CIMdata PLM Community Members:  
Check to see if you qualify for a free ticket!*

### Who Should Attend?

- Systems Engineers
- Certification Engineers
- PLM Program Managers
- PLM Solution Architects
- PLM Solution Planners
- Supply Chain Managers
- Chief Architects
- Chief Engineers and Engineering Managers
- Chief Innovation Officers
- Chief Technology Officers
- Design Engineers
- Engineering IT Executives
- Information Strategy Managers
- IT Professionals
- Mechatronics Experts
- NPD Leaders
- PLM Champions
- Process Designers and Improvement Experts
- Procurement Managers
- Product Development Innovation Experts
- Product Platform Managers
- Product Portfolio Managers
- Software & Service Professionals
- Solution Managers & Providers

### What are the Benefits of Attending ?

#### **It's about MEANINGFUL TRANSFORMATION**

How do you develop a meaningful global transformation and implementation framework for your company? You will take away a road map of actionable items that will enable the meaningful transformation of your enterprise.

#### **It's about NETWORKING**

How often are you able to spend meaningful time away from the day-to-day distractions of work while having the opportunity to network with a large group of like-minded peers? You will have plenty of time to focus on the tough issues while making valuable connections and additions to your network.

#### **It's about CONTINUING YOUR EDUCATION**

Product development continues to evolve at a rapid pace but how do you keep up with all the trends and changes? At PLM Road Map & PDT you will have the opportunity to listen to our top-of-class speakers and world class experts as they share with you their successes and experiences of making the technology work.

#### **It's about COMMUNITY**

Do you ever feel that the PLM events you attend leave you out in the cold after they end? At PLM Road Map & PDT this will not happen as attendees are part of our wider PLM community.

#### **It's about INNOVATION**

Do you feel vulnerable to competitor innovation challenges and want information on what will be available tomorrow – today? You will have the opportunity to meet with the industry's top solution providers from your space to find out what is available now, and what to expect in the future, allowing you to make innovative choices ahead of the

*The organizer reserves the right to make changes to the program.*

