



Nordic Model Based Enterprise Forum

11-12 September 2025 Malmö

Day 1: Industry Insights and MBD Implementation

08:00 – 08:30

Registration & Coffee

Arrive early, check in, and enjoy a welcoming cup of coffee while connecting with fellow attendees.

08:30 – 08:45

Opening Remarks

Mirosław Chamera, CEO, ARIADNE Engineering

Kick off the conference with an introduction to the Model-Based Enterprise (MBE) concept and an overview of the event's goals.

08:45 – 09:35

Keynote – Digital Twins & Model-Based Definition: A New Era in Component Qualification

Narendra Akhadkar, Schneider Electric

Explore how digital twin technology combined with Model-Based Definition (MBD) transforms component qualification, predictive maintenance, and design iteration—enhancing efficiency and sustainability.

09:35 – 10:10

Lessons Learned from Model-Based Implementations

Dan Feighery, Action Engineering

Successfully adopting and integrating digital practices and technologies in pursuit of a Model-Based Enterprise is more than just incorporating new tools into an organization's software stack and digitizing data. Gain insights from recent MBD and MBE projects to optimize digital product definition authoring practices for data re-use throughout the product life cycle.

10:10 – 10:30

Coffee Break & Networking

10:30 – 11:05

 Real-World Quality Control Use Cases for MBD

Aleksa Dopudja, Capvidia

Discover the impact of MBD in industries like aerospace, automotive, and consumer goods, including case studies that show how MBD improves collaboration and operational efficiency.

11:05 – 11:40

 MBD Journey @ Hitachi Energy

Fredrik Montelius, Hitachi Energy Components

Learn how Hitachi Energy implemented MBD to improve supplier information management, quality control, and tolerance analysis.

11:40 – 12:15

 The Digital Thread, Model Based Enterprise, Model Based Definition, and Mechanical Variation Management

Ed Walsh, Sigmetrix

This presentation will attempt to provide a better understanding of how manufactures are attempting to create a "digital thread" that connects product requirements, engineering, manufacturing, quality, and more. It will offer practical suggestions of the benefits to a company and the required investments based on real world interaction with global manufacturers. It will also offer observations on why companies are struggling to successfully achieve these objectives.

12:15 – 13:15

 Lunch Break

13:15 – 13:50

 From MBD data to MBE value: Bridging the Collaboration Gap

Patrick Dunfey, ANARK

The value of PLM and CAD investments stalls when model-based data must move beyond engineering. This “collaboration gap” leaves manufacturing, quality, and suppliers struggling with manual data conversions, outdated documents, untraced communication, and unforeseen costs. This session explores how leading companies are turning MBD data into MBE value by making product data secure, accessible, and actionable across the enterprise. Attendees will gain practical insights into digital thread enablement, supplier collaboration, and standards-based deliverables—learning how to accelerate adoption, improve quality, reduce errors, and unlock the full promise of the model-based enterprise.

13:50 – 14:25

 **Advanced MBE Methods that Inform Bidirectional Communication
Between Manufacturing and Quality Disciplines**

Tom Groff, Kotem

Discover advanced model-based methods that enhance interoperability and feedback loops between manufacturing and quality disciplines—ensuring consistency, precision, and process alignment.

Parallel Sessions:

14:25 – 15:00

 How to make your CAD models MBD ready?

Jan Stothfang, B&W Software

*Successful MBD/MBE initiatives require that documentation data in CAD models is created **quickly, reliably, and consistently**. This means moving beyond replicating old 2D workflows, and instead providing clear modeling guidelines and tools to structure product manufacturing information (PMI) for seamless downstream use. In this session, you will learn how **SmartMBDTools for Creo** support both new and existing models in an MBD environment. We will cover easier handling of Combined States, automation with Contexts, the use of colour coding, and strategies for managing multi-language annotations.*

14:25 – 15:00

 Design Efficiency: The Impact of Automated Tolerance Allocation

Declan Kemble, Manufacturing Technology Centre (MTC)

Declan will present on automated, 3D, MBD-based tolerance analysis and its impact on product quality and manufacturing cost.

15:00 – 15:30

 Coffee Break & Networking

Parallel Sessions:

15:30 – 16:05

 ASME Model-Based Standards Activities

Fredric Constantino, ASME

ASME is actively working to develop and modernize standards for model-based operations. The MBE Standards Committee and the MBE & Y14 Harmonization Committee focus on supporting and guiding the development of MBD and datasets within the Model-Based Enterprise. ASME works closely with ISO TC 10 to harmonize digital product definition and MBD content between ASME Y14.41, ASME Y14.47, and ISO 16792. During the presentation, current activities and how to get involved will be discussed, which is important for maximizing the value of model-based investments.

15:30 – 16:05

📌 Modular Model-Based Enterprise

Jakob Åsell, CTO, Modular Management

Explore the concept of a modular Model-Based Enterprise and how it supports scalable product configuration, platform strategies, and digital continuity across the value chain.

16:05 – 17:05

🔧 Workshops: Hands-On MBD Applications

Join interactive breakout sessions focused on practical MBD tools, standards, and implementation:

- **Automation of Metrology Processes with QIF**
- **Using ISO GPS to Define Products in 3D**
- **Practical Application of ISO 22081**
- **Dimensional Management for Managers**

19:00 – Late

🍷 Dinner & Networking

Unwind after a day of insights and innovation. Enjoy food, drinks, and conversation with fellow professionals, speakers, and sponsors.





Day 2: Enterprise Integration & Future Trends

08:00 – 08:30

 **Coffee & Networking**

08:30 – 09:20

 **Keynote – Okay to Fail: The Entrepreneurial Spirit of Digital Transformation**

Andrew Pierce, GE Appliances

Andrew discusses how GE Appliances fosters an entrepreneurial spirit to drive digital transformation, focusing on the role of innovation, failure, and iterative processes in achieving success.

09:20 – 09:55

 **MBD Implementation @ Vestas**

Dennys Gomes, Vestas

Vestas shares its journey in adopting a drawingsless approach to product development, highlighting the role of MBD in tolerance analysis, quality control, and downstream processes.

09:55 – 10:30

 **Model-Based Tolerance Analysis**

Karl Henrik Ryttersson, ARIADNE Engineering AB

Model-Based Tolerance Analysis ensures accurate and efficient product development by seamless integration with 3D CAD. It supports automation and balances quality with manufacturing costs. Defining product geometry with ISO GPS, functional reference systems, and capturing product function guarantees maintainability, quality, and simplifies quality control processes. This foundation enables automation which requires high-quality input data achieved through Model-Based Tolerance Analysis. Correctly defined and optimized tolerances result in an ideal balance between desired quality and manufacturing cost.

10:30 – 10:50

 **Coffee Break & Networking**

10:50 – 11:25

✦ **From 3D Model to CMM – Automatization of Metrology with 3D PMI & QIF**

Marcus Grahn, Hexagon & Mats Johansson, Dynamate

This session explores how 3D models with semantic PMI are integrated into Hexagon's PC-Dmis software for automated metrology, improving the accuracy of inspections.

11:25 – 12:00

✦ **How is PTC supporting MBD/MBE**

Jonas Ljungsten, PTC Sweden

This presentation provides an overview of PTC Products to support the authoring and management of MBD information. It will be an overview of CREO for authoring and Windchill for the management of the (MBD) and datasets within the Model-Based Enterprise.

12:00 – 13:00

 Lunch Break

13:00 – 13:35

✦ **Smart Manufacturing & MBE: The Role of Metrology**

Helena Björk, RISE

*Helena discusses how metrology is evolving in the context of smart manufacturing, and the critical role MBE plays in enhancing manufacturing efficiency and **precision**.*

13:35 – 14:10

✦ **From Digital Design to Manufacturing: MBD-Driven CAM Automation**

Fredrik Svensson, Sandvik Manufacturing Solutions

This session demonstrates how Sandvik, using the Up2Parts AI platform combined with GibbsCAM or Mastercam, leverages 3D models enriched with Product and Manufacturing Information (PMI) to automatically generate NC programs. That greatly reduces CAM programming time, minimizes human error, and shortens lead times from design to first article.

14:10 – 14:45

✦ **Digital Thread: Characteristics**

George Rendell, Siemens Digital Industries Software

Siemens introduces first traceable Digital Thread for Characteristics. DMSC specification for Model-Based Characteristics are supported through Design, Manufacturing, Quality, and PLM workflow. New Characteristics capabilities are built on the industry's leading capabilities for Product Manufacturing and Information (PMI) and Model Based Engineering (MBE)

14:45 – 15:15

 **Coffee Break & Networking**

15:15 – 15:50

 **Model Based Definition for Digital Thread in Industry: Why, How, What?**

Dr. Sven Kleiner, Em engineering methods AG, Germany

Digital masters and digital twins are key to the product lifecycle, requiring digital and fully associated data as MBD, MBSE, MBM, etc. MBD based on 3D CAD and ISO-GPS with PMI enables the digital thread and seamless integration in a Model-Based Enterprise (CAD/CAM, CAD/CAQ, supply chain). This session covers new workflows, best practices, technology solutions, use cases, success stories, and lessons learned across industries such as aerospace, automotive, and machinery. A future outlook on digital masters and twins in engineering, manufacturing, and operations concludes the presentation.

15:50 – 16:30

 **Panel Discussion – Overcoming Common Challenges in Implementing MBD Across the Enterprise**

Industry leaders discuss how to extend MBD across all departments—from R&D to production, procurement, suppliers, and customers—focusing on digital transformation strategies, challenges, and success stories.

16:30 – 16:45

 **Conference Wrap-Up & Final Q&A**

