



Nordic Model Based Enterprise Forum

11-12 September 2025 Malmö

Preliminary Agenda

Day 1: Industry Insights and MBD Implementation

08:00 – 08:30

 **Registration & Coffee**

08:30 – 08:50

 **Opening Remarks**

Miroslaw Chamera, CEO, ARIADNE Engineering

Welcome and introduction to the Model-Based Enterprise (MBE) concept and the conference.

08:50 – 09:40

 **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.

09:40 – 10:15

 **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.

10:15 – 10:45

 **Coffee Break & Networking**

10:45 – 11:20

✦ **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.

11:20 – 11:55

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

Markus Grann, Hexagon & Mats Johansson, Dynamate

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

12:00 – 13:00

🍽️ **Lunch Break**

13:00 – 13:35

✦ **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.

13:35 – 14:10

✦ **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 Model-Based Definition (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.

14:10 – 14:40

☕ **Coffee Break & Networking**

14:40 – 15:15

📌 **Advanced MBE Methods that Inform Bidirectional Communication Between
Manufacturing and Quality Disciplines**
Tom Groff, Kotem

15:15 – 15:40

📌 **Modular Model Based Enterprise**
Jakob Åsell, CTO, Modular Management

15:40 – 16:40

🔧 **Workshops: Hands-On MBD Applications:**

- 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**



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

✦ **Design for Manufacturability & Cost in Future MBE Automation**
Leo Broers, Coresy Inc

Learn about the future of MBE and AI integration in design for manufacturability and cost optimization, and how it transforms the manufacturing process.

11:25 – 12:00

✦ **Democratization of Dimensional Management & Tolerance Analysis**
Ed Walsh, Sigmetrix

Ed Walsh explores how tools like CETOL and EZtol are democratizing tolerance analysis and making dimensional management more accessible in the MBD environment.

12:00 – 13:00

🍽️ **Lunch Break**

13:00 – 13:40

✦ **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**.*

13:40 – 14:20

✦ **From Digital Design to Manufacturing: MBD-Driven CAM Automation**
Coskun Islam, 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.

14:20 – 14:55

✦ **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.

14:55 – 15:25

 **Coffee Break & Networking**

15:25 – 16:00

  **Design Efficiency: The Impact of Automated Tolerance Allocation**
Kieran Ciniewicz, Manufacturing Technology Centre (MTC)

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

16:00 – 16:40

 **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.

16:40 – 17:00

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

