IndustryX Talk ᴱᵁ

Human-Centered AI: Data-Driven Transformation in Manufacturing

November 2026
TBC

DAY ONE

Time	Session
08.15 - 08.50	**REGISTRATION**
08.50 - 09.00	**WELCOME & CHAIRPERSON'S OPENING REMARKS FOR DAY ONE**

09.00 - 09.30

Achieving highest operations excellence by digitally enhancing the capabilities of our people and assets
- Our future mill vision and approach puts the humans at the center supported by new ways of working, remote operations, digitalization, competences and capabilities
- Our "Quality Advisor" solutions are a prime example of innovation and collaboration. They offer tailored solutions for various production areas and set new standards in quality control and monitoring
- From Proof-of-concept to company wide scale-out, only solutions which are of value are selected and productized
- A particular focus is on the development of "Advisor" solutions into "Closed-Loop" applications
- This has not only increased efficiency but also revolutionized the human-machine interface. We have learnt how important it is to optimize the interaction between humans and machines to achieve the best possible results

09.30 - 10.00

Lighthouse Project for an Industrial Data Platform
- Designing and implementing data platform to improve data availability to business analysts
- Improve maintenance strategy for manufacturing equipment
- Optimize and Modernize architecture of their infrastructure of how to make data available to different applications and users
- Results and a look at what next

10.00 - 10.30

Minimize Downtime through Data driven AI to Maximize Throughput
AI-driven Spare Parts Management ensures uninterrupted operations and accelerates process optimization.
- Optimize Inventory with Precision: Reduce excess, avoid shortages, and align stock with real demand.
- Data-Backed Decision-Making: Empower teams with accurate forecasts and real-time insights.
- Remove Supply Chain Blind Spots: Eliminate bottlenecks and uncertainty before they impact delivery.
- Clean Up Dirty Data: Turn fragmented data into a reliable planning and procurement foundation.
- Automate the Mundane: Cut manual tasks, reduce errors, and free engineers to innovate.
- Reveal Hidden Risks & Redundancies: Uncover obsolete or duplicate parts before they cost you.
- Enhance Your ERP—Without Replacing It: Extend existing systems with scalable AI integration.

Time	Session
10.30 - 11.20	**COFFEE BREAK & MEETINGS**

11.20 - 12.10

Roundtable Discussions: *For 4 to 10 participants to discuss and debate on one of the selected topics:*

1. Digitalization of Daily Production Management
2. Moving Beyond Pilots to Scale Effectively
3. The Connected Worker: Tools or Culture Catalysts?
4. Accelerate the digital and cultural transformation required to make industrial plants truly data-driven
5. Workforce Development & Preparation for the Digital Era
6. Digital Transformational Leadership: Bridging Strategy to Reality
7. Lean Strategies/Lean 4.0/Continuous Improvement

12.10 - 13.10

One to One Meetings & Investment Areas
- Industry 5.0
- Manufacturing Data Cloud
- Manufacturing Data Lakes
- Advanced Data Analytics For IIoT and Smart Manufacturing
- Engineering Edge Solutions
- Artificial Intelligence (AI) and Machine Learning (ML)
- Gen AI
- Hybrid Cloud
- Hybrid MES
- ERP Modernization
- Digital Twin
- AI Driven Digital Twins
- Edge Computing
- OT Security
- Industrial Augmented Reality
- The Human Centric Approach
- Change Management
- Sustainability
- Connected Worker Platforms
- AI Driven Digital Twins
- Operational Excellence / Continuous Improvement
- Smart Factory

12.10 - 12.40

AI Powered Manufacturing Analytics
- Contextualization and aggregation of Data from multiple Data sources
- Correlation of data from Manufacturing IT/OT systems to break down Silos
- Using AI models to predict and give real time insights.
- Insights to Prompts / Exploratory Dashboards

12.40 - 13.10

A Manufacturing Data Cloud Journey
- Data Cloud Platforms to forge faster IT/OT Integration
- Edge to Cloud data visibility across manufacturing
- Accessible data and easy-to-use AI to optimize production and shop-floor operations at scale
- Eliminate Data Silos and enable great collaboration to drive agility and flexibility

Time	Session
13.10 - 14.00	**NETWORKING LUNCH**

Please note: agenda and speakers are subject to change

Global Manufacturing Strategies

Time	Content
14.00 - 14.30	**How the manufacturing workforce takes an Industry 5.0 approach to the next level of plant operations** • Human centric digitalization • Key Elements of our strategy • Core Challenges • How we ensure user acceptance • Why we as the production drive the digitalization at the forefront
14.30 - 15.00	**Digital Lean – aspirational and transformational** • Driving Lean and Digitalisation. These are not separate and decision makers should choose how close they should be • What are our visionary objectives? Lean and Digitalisation is very much driven from top management but everybody needs to participate in finding the synergies. • What is the reality? A reflection of what this means for our lean culture. • What are the benefits? We believe in many benefits, but we need to know
15.00 - 15.30	**Empowering a Human-Centric Industry for the Twin Transitions** • Is Industry 4.0 enough? Or shall we know start talking about Industry 5.0 • 3 key pillars of the EU framework on Industry 5.0 • Human Centricity approach by promoting talent, diversity and empowering our workforce by deploying resilient, flexible and adaptable technologies for a more sustainable evolution. • Community of Practice - sharing best practices
15.30 - 16.20	**COFFEE BREAK & MEETINGS**

16.20 - 17.50

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16.20 - 16.50 — Revolutionizing Manufacturing with AI and Generative AI
- GEN AI as a Game Changer
- Generative AI's Role in the Smart Factory of the Future
- Scale up and Specific Use Cases- Harnessing the power of AI and Advanced Data Analytics to boost manufacturing productivity
- Adopting an Iterative approach to GEN AI in Manufacturing
- Aligning long term goals, integration & employee engagement to deliver sustainable business outcomes for the future
- What are the productivity and business gains?
- Will it deliver a measurable ROI?

16.50 - 17.20 — 20 years of Internet, 20 months of AI: Are you ready for exponential industry?
- Lessons from real industry: from ceramics to data-driven manufacturing
- 20 years of Internet vs 20 months of AI: why change now happens exponentially
- Building a single source of truth, where systems, people, and AI learn, decide and improve together
- The role of RAILES MES in turning factory data into intelligence (This is where RAILES and the three use cases come in).
- Ready or not? The exponential era has already begun

17.20 - 17.50 — Human-machine collaboration – the key to success
- Upcoming trends and their influence on the way we manufacture and their impact on productivity.
- Why is in times of digitalization human-machine collaboration key to success?
- Importance of technology adoption and trained employees to support transformation towards digitalized factories.

Time	Content
17.50 - 18.20	**Bridging the Talent Gap: Reskilling and Upskilling for the Next Generation of Manufacturing Jobs** • Developing training programs and educational pathways to prepare the workforce for advanced manufacturing technologies • Strategies for fostering collaboration between industry, academia, and government to address skills shortages and evolving job roles • Success stories of organizations that have effectively reskilled their workforce and the impact on productivity and innovation
18.20	**CHAIRPERSON'S CLOSING REMARKS AND END OF DAY ONE**
18.30	**COCKTAIL RECEPTION**

Global Manufacturing Strategies

DAY TWO

08.50- 09.00 — **CHAIRPERSON'S OPENING REMARKS FOR DAY TWO AND SUMMARY OF DAY ONE**

09.00 - 09.30

Unleashing the Power of Machine Learning and Artificial Intelligence
- This case study explores approaches to leveraging AI and machine learning to improve productivity on your shop floor?
- What are some practical applications of AI and machine learning that can help you upgrade and improve your manufacturing processes?
- How can the system learn and improve the algorithms to fix itself?
- Is it possible to develop built-in AI capabilities to improve your asset performance?

09.30 - 10.00

People-centric AI: The Smart & Sustainable Transformation of the Automotive Industry
- From data to decision: a new era in the automotive industry
- People at the center of change
- From theory to action: AI in Martorell
- Technology with purpose
- Building the future of mobility

10.00 - 10.30

AI Decision Matrix -From Infrastructure to Intelligence
- How far is AI from Hi ? Competitive Stats & Results
- Who can be my AI partner ? Practical Decision Matrix
- Which is the Ideal AI Tool in Cloud ? A Service-by-Service Breakdown of Cloud AI Spectrum
- Has Cloud AI created any value for any business ? Calculating ROI on AI from real world examples
- Ready for your AI strategy Decision Making Time

10.30 - 10.55 — **COFFEE BREAK & MEETINGS**

11.00 - 11.50

Roundtable Discussions: For 4 to 10 participants to discuss and debate on one of the selected topics:

1. Accelerating MES deployment to enhance Real-Time Visibility, Traceability, and Operational Efficiency on the Shop Floor.
2. Collaboration with Cross-Functional Teams to Align IT OT, Leveraging Smart Factory Initiatives and Industry 4.0 Principles.
3. Data-driven Performance Improvement, focusing on Analytics to Boost Productivity and Reduce Downtime
4. Driving Continuous Improvement and facilitating the Digital Transformation Journey
5. Workforce Development & Preparation for the Digital Era
6. Human-Centric Digital Adoption: Myth or Method?

11.50 - 13.20

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11.50 - 12.20

Cloud and AI Making Additive Distributed Manufacturing
- How software, cloud technology, and AI are opening new fields of opportunities for additive manufacturing
- Distributed production, meeting customer requirements, and needs on demand
- Bringing production closer to the demand we will have

12.20 - 12.50

Robotics as a Valuable Source of Data and Information for Improved Uptime
- Data vs. Information
- Information that can be provided by robotics
- Availability of data as a precondition for valuable information
- How can data be used?

12.50 - 13.20

Accelerating Employee Engagement to drive business results
- Why engagement is important when we move from industry 4.0 to Industry 5.0
- What gets measured, gets done – why an annual survey is not good enough
- Accelerate - Put the pedal to the METAL on employee engagement

13.20 - 14.20 — **NETWORKING LUNCH**

Global Manufacturing Strategies

14.25 - 14.55

A Sustainable Innovation Framework Based on Lean Six Sigma (LSS) and Industry 5.0
- As we venture into the era of Industry 5.0, marked by unprecedented levels of connectivity and collaboration between humans and machines, Lean Manufacturing stands out as a cornerstone for success
- Industry 5.0 places a renewed emphasis on the human element, integrating advanced technologies to augment human capabilities. Lean principles, with their focus on empowering employees and fostering collaboration, align perfectly
- By integrating LSS into a human-oriented discipline, we can achieve a harmonious blend of more humane processes and a conducive result-driven environment with this paradigm shift.
- Case study to demonstrate the practical application and outcomes of LSS 5.0 tools
- Implementation and results

14.55 - 15.25

How is AI assisting Digitalization on the Shop Floor
- Why AI is a crucial component in the digitalization process?
- How have we identified & qualified use-cases?
- Finding the right AI method to support each use case
- The design and development process for AI solutions
- Key considerations for deploying AI solutions in a real-world environment
- The benefits of AI-assisted digitalization and its stakeholders
- Future for AI implementation

15.25 - 15.55

Open Panel Discussion

Building Digital Talent to Accelerate Transition to Industry 5.0
- Looking across Europe's industrial sector, how big is the challenge of the Digital Skills gap?
- What is your advice to organisations about how they can start to close this gap? Who is doing it well?
- How successful has your business been, so far, with digital transformation & how has effective talent contributed to the success?
- Have you formally attempted to retrain staff for digital roles? How successful has it been? What has worked? What has not?
- The need for digital skills is outpacing supply – What are you doing to attract & retain new talent?
- Successful transformation requires integrators. staff who bridge the gap between the traditional and digital parts of the business.
- Where have your integrators come from?

15.55   CHAIRPERSON'S CLOSING REMARKS

16.00   COFFEE &REFRESHMENTS/CLOSE

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