

BatNet Green Platform

Summer gathering for the Norwegian Battery
Industry

June 16th 2025

Lars Lyshaug - Project Manager



BatNet

The slow pace of digitalization affects the ability of Norwegian industry to compete internationally.

Challenges are related to culture, adaptability, finances, expertise and technology.

BatNet's mission has been to secure Norway's place in the global battery value chain and accelerate the green transition in the Norwegian technology industry.



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The project will result in digital models for optimal product development and production, next-generation battery packs, and a full-scale catapult system for automatic product assembly.

Simultaneously, we develop expertise for faster digital transformation of established industry.



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So, How did we do?



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Project team and deliverables



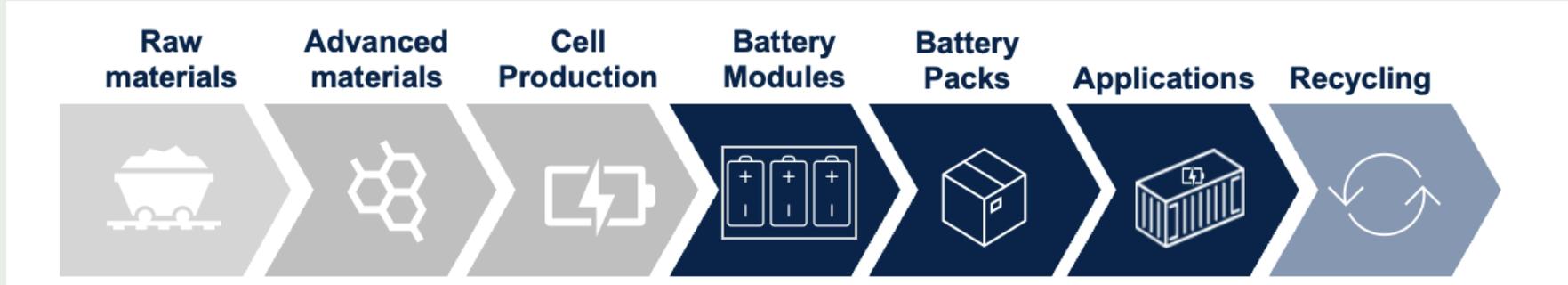
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BatNet is composed of Norway's leading players in research, technology development and industry.

We combine expertise to learn from each other and to exploit industrial digitalization.



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Highlights of results

Masterteam

Digital twin



Product Lifecycle Management



Change Management



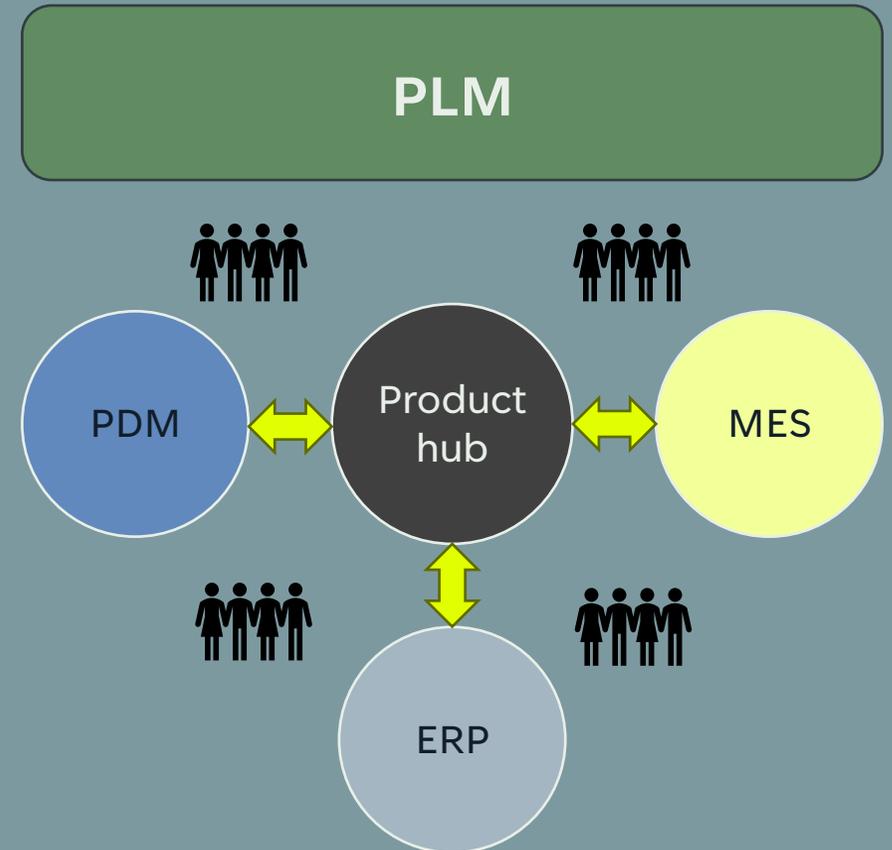
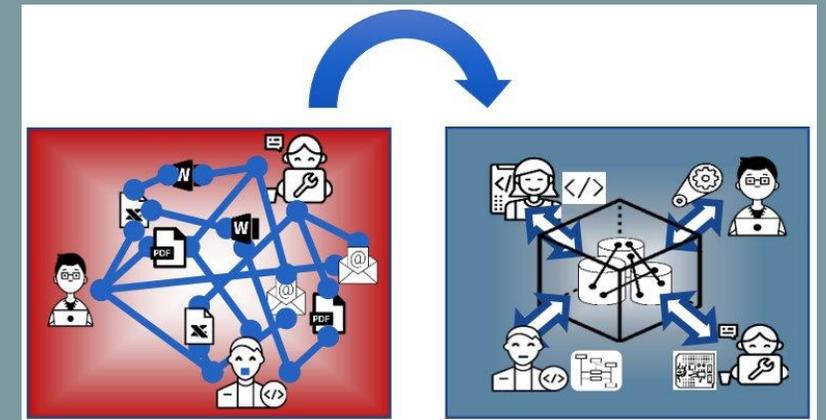
Masterteam

KDA

- Configuration management in a "model-based world" - Sintef
- Interconnection MES/ERP/PDM - Sintef
- Digital Networking Vertically and Horizontally – Sintef
- Parameters that affect the cost/benefit of digital transformation from traditional Systems Engineering to Model-Based Systems Engineering - USN

TechnipFMC

- Consequences and costs of changes in engineering - Sintef
- Lack of learning from own experiences - Sintef
- "Technical debt" in PLM structure and processes - Sintef



Change management

Technology is an enabler for accelerated productivity.

What are the pitfalls when implementing new technology in organisations?

How to manage change?



Kongsberg Technology Cluster

ISN Universitetet i Sørst-Norge

THE HUMAN FACTOR

KURS
Utviklingsprosesser i organisasjoner

Forelesere:
KRISTIN WOLL
SØREN MADSEN

Dato:
24 - 26 OKTOBER, 2023
Fra 09:00 til 16:00 på Krona

Systems Catapult

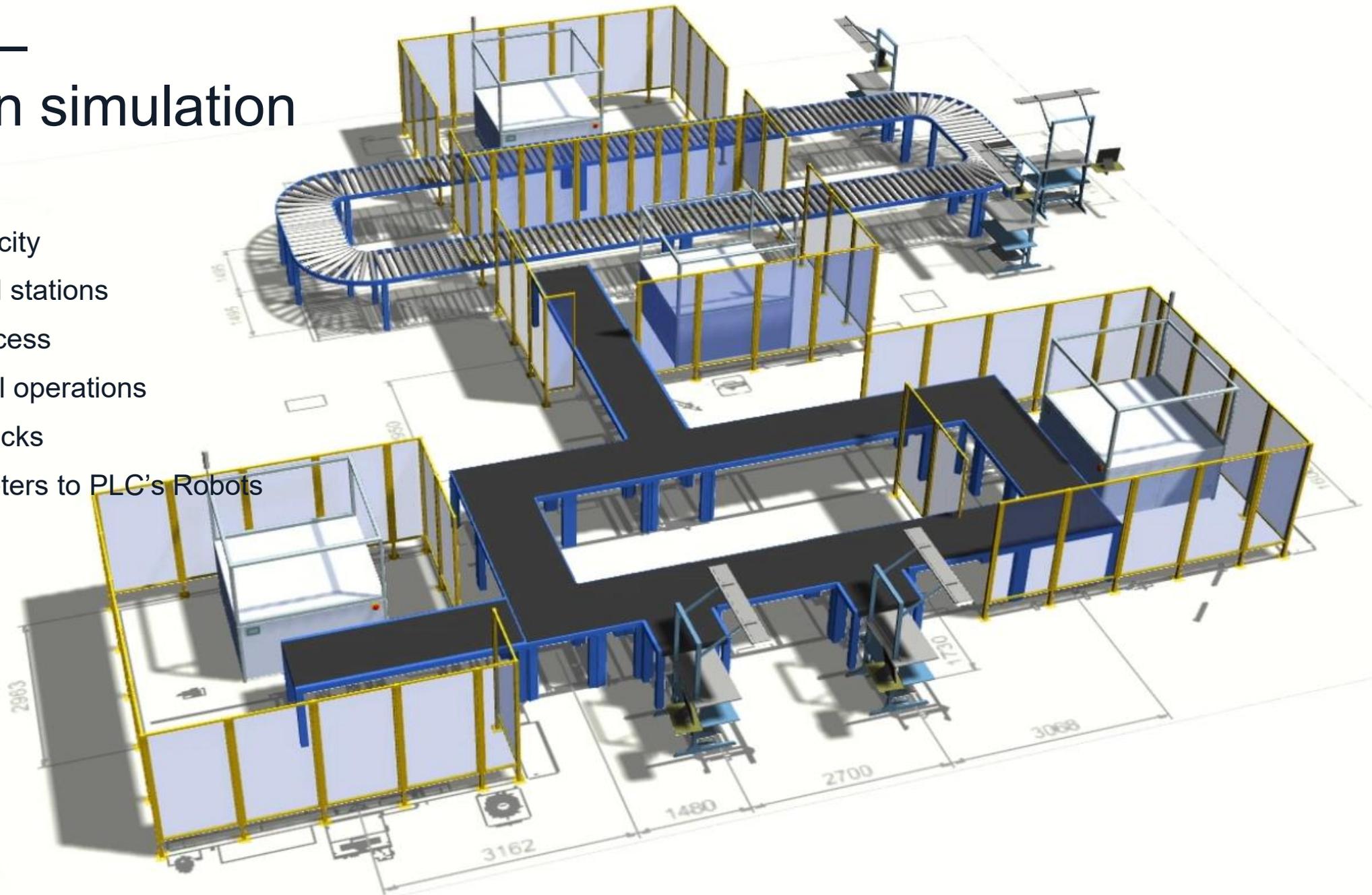
A circular inset image showing two people wearing hard hats and safety glasses, looking at something together. They appear to be in a workshop or industrial setting.

PlantSim – Production simulation



Simulate:

- Production capacity
- Need for manual stations
- Verify Bill of Process
- Optimize manual operations
- Identify bottle necks
- Transfer parameters to PLC's Robots







The road ahead



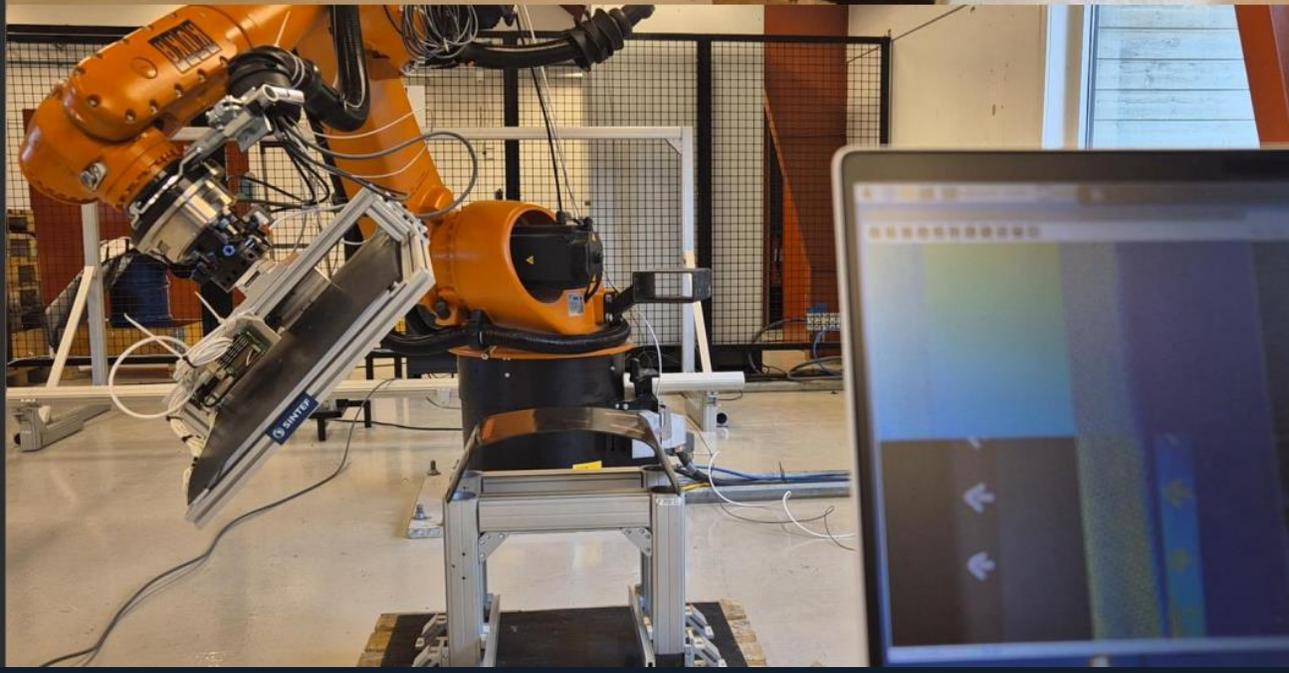
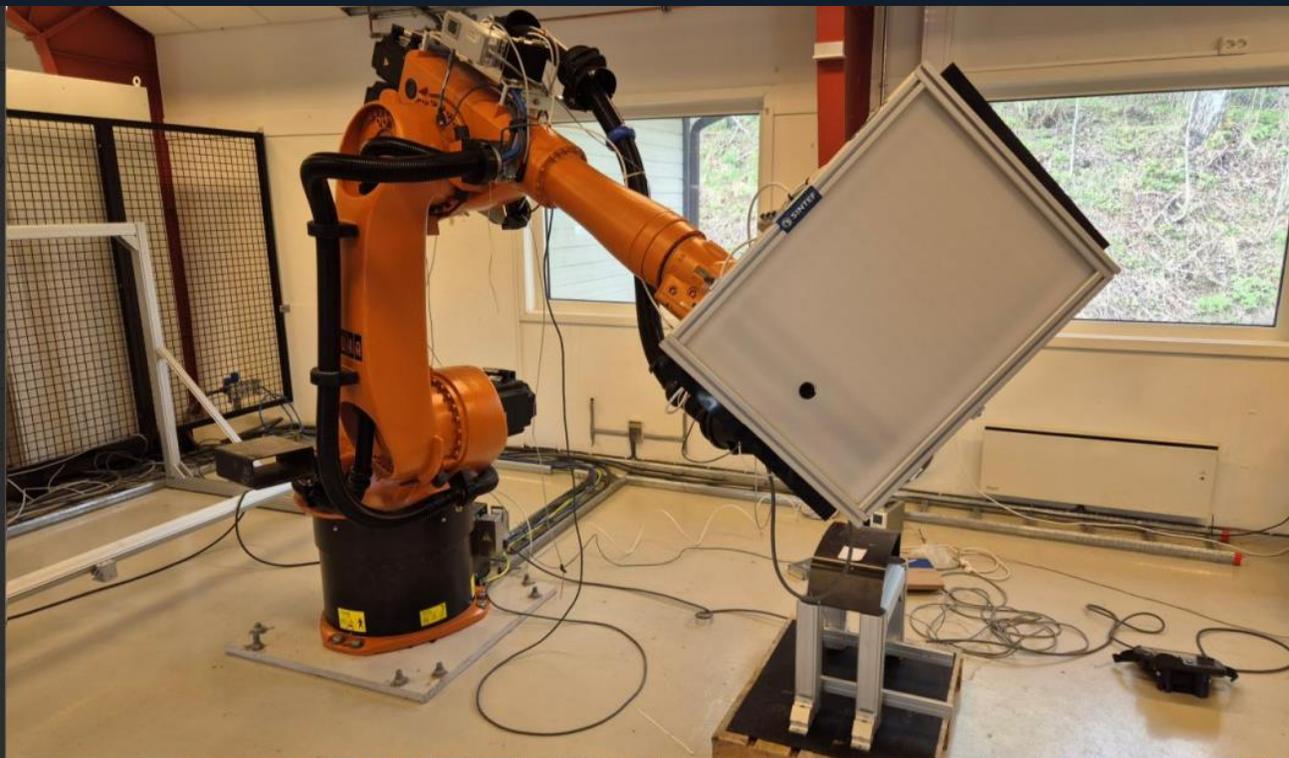
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"BatNet is not just a project;
It's a commitment to shaping our
technological future"

Dr. Omid Razbani
Associate Professor in Systems Engineering
USN



Automated Visual Quality control of advanced composites



Curious? Wanna visit?
Just get in touch!

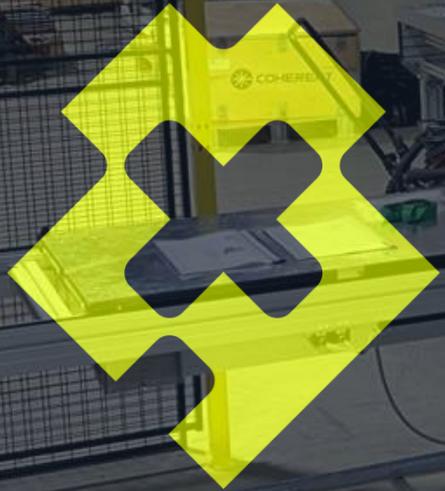


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