

# Industry X

## Key figures and facts

### Main Objectives:

1. Strengthening Finnish companies and academia in becoming global leader in edge-enabled research and technology in chosen industry domains
2. Demonstrating efficiency and business potential in applying AI, multimedia, edge computing and 5G in industry.

Name	Industry X
Project type	Business Finland Veturi 2 – NOKIA
Coordinator	DIMECC
Partners	Nokia, Fastems, Glaston, Pemamek, Prima Power, Raute, Vacon, Vaski and Tampere University
Duration	09/2022 – 04/2025 (32 months)
Budget	16,3 M€
Core technologies	<ul style="list-style-type: none"><li>• Multimodal audio-video streaming for environment sensing</li><li>• AI for industrial adaptation and data processing</li><li>• Edge computing for high-speed and scalable processing</li><li>• 5G for ultra-low latency between distributed computing nodes</li><li>• Digital twins for visualization</li></ul>

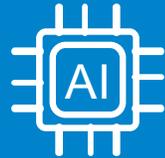
# Industry X Focus and partner roles

Industrial 5G  
Private 5G



# NOKIA

Artificial Intelligence  
EDGE computing  
Visual analytics



 Tampere University

Industry  
applications



 **Fastems**

**glaston**

**Pema**  
WELDING AUTOMATION

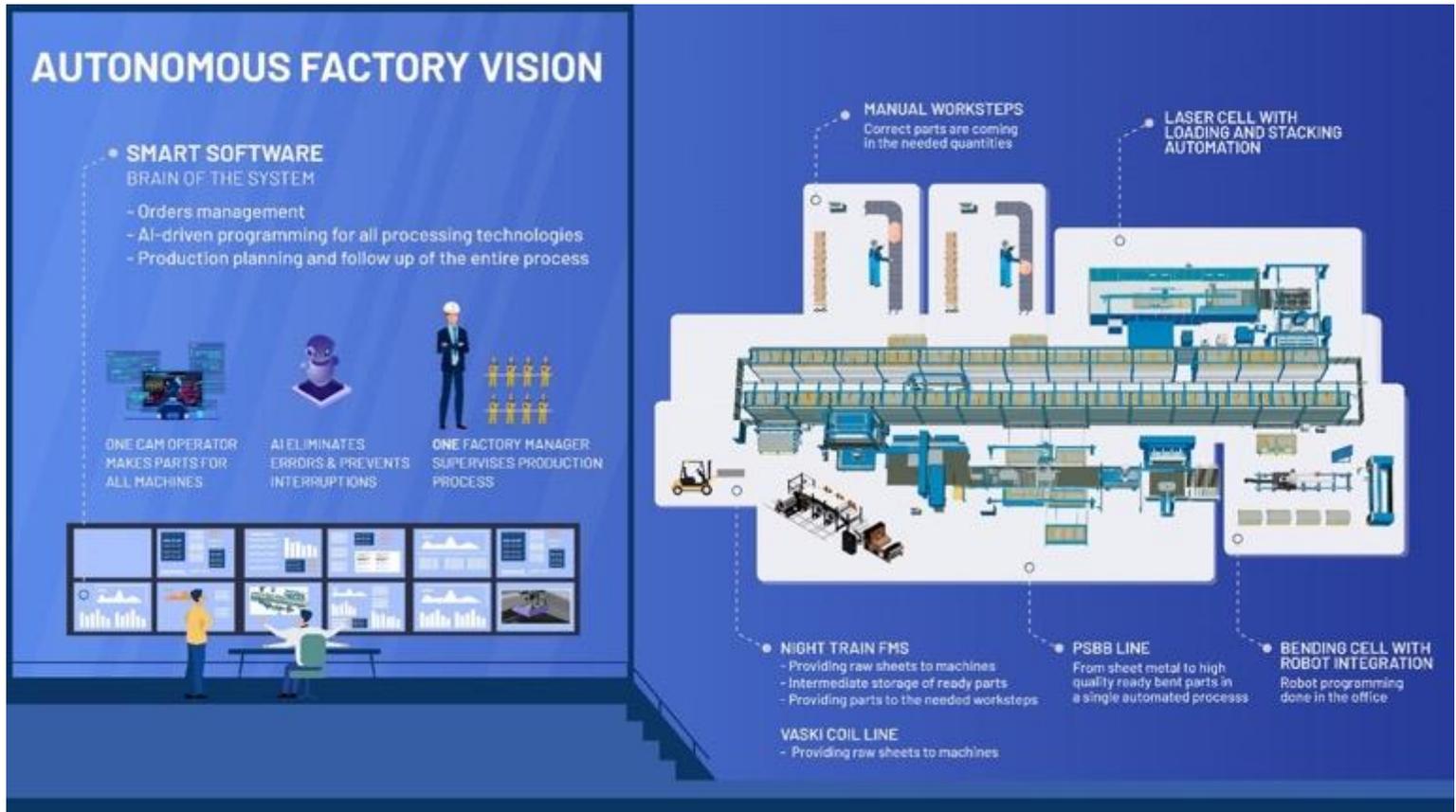
 **VASKI**  
 **Prima  
Power**

 **RAUTE**

**vacon**

# Industry X Impact

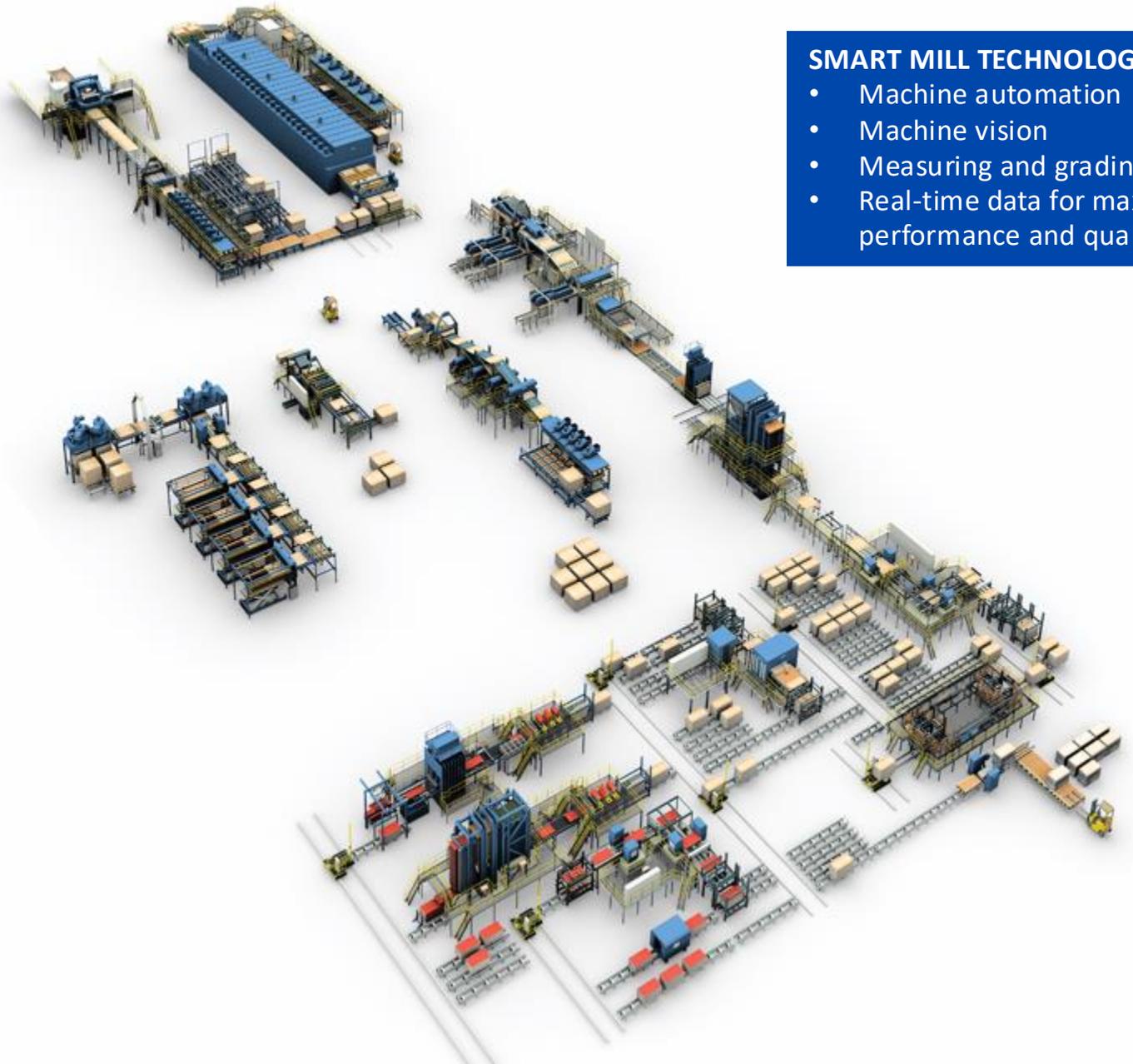
## Case PrimaPower



- ✓ Fully Automated sheet metal factory with machines managing different production phase including Vaski Coil line
- ✓ Manage / Optimize Full factory flow using Edge computing and customer specific configuration management
- ✓ Industrial metaverse for product life cycle

# Industry X Impact

## Case Raute



### SMART MILL TECHNOLOGIES

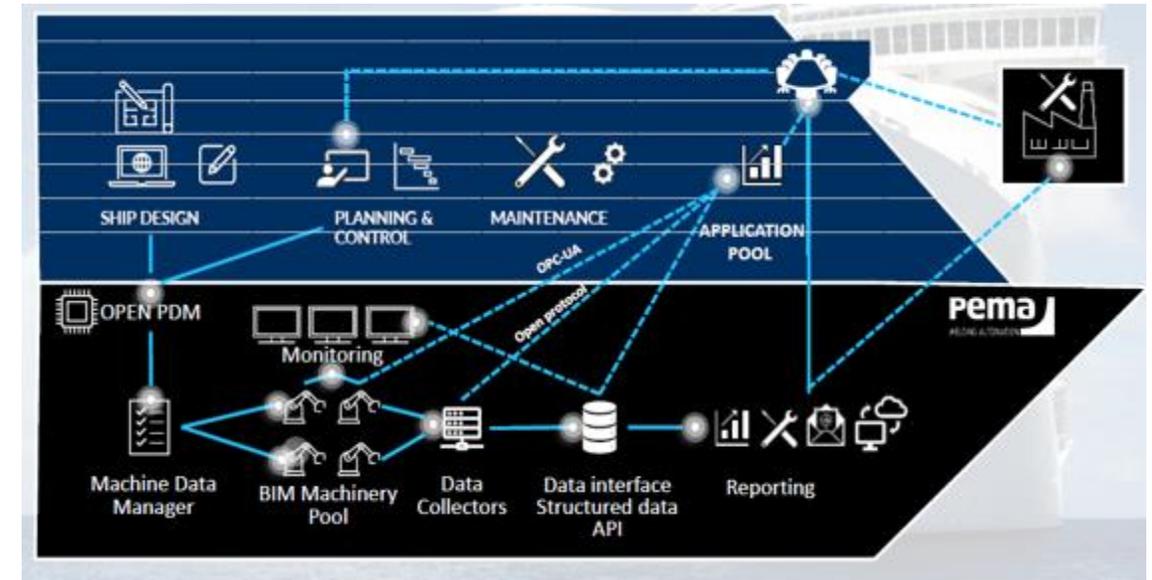
- Machine automation
- Machine vision
- Measuring and grading
- Real-time data for maximized performance and quality

# Industry X Impact

## Case Pemamek

- Seamless integration of design data
- Digital service platform for the customers and for Pema's own development
- Creation of lifecycle services

Digital tools must be developed for both small workshops and the world's largest shipyards



# Industry X Final seminar

## FIIF EVENT: INDUSTRY X RESULTS SEMINAR (WED. NOV. 26, TAMPERE AND ONLINE)

### EVENTS

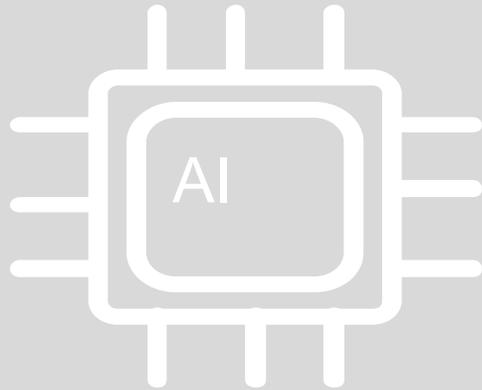
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FIIF Event [Industry X](#) results seminar (Wednesday Nov. 26 Tampere, 9-12, Nokia Arena, Paidia and online)

Artificial Intelligence, edge computing, and high-speed wireless communications are key technologies driving the ongoing industrial revolution.

In this FIIF event, we will present the key results of the three-year *Industry X* project, funded by Business Finland, which will conclude its operations at the end of December 2025.

The Industry X project has focused on demonstrating both efficiency gains and business potential through the application of AI, multimedia, edge computing, and 5G technologies across several industrial sectors. Project partners include Nokia, Fastems, Glaston, Pemamek, Prima Power, Raute, Vacon, Vaski, and the University of Tampere.



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