

Next steps of AIIC

and introduction to demos

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November 22nd 2019



Aalto-yliopisto
Aalto-universitetet
Aalto University

Reboot IoT Factory

Digitalisation of manufacturing industry

- Co-innovation and experience sharing platform that solves industrial challenges

rebootiotfactory.com

In collaboration with:

SEED

5G TNF

AIF

SUPERIOT

SMACC

Analytics+



Grand Challenges

Grand Challenge 1:
Cognitive Supply
Network

Lead: Ponsse, UO

Grand Challenge 2:
Robotics Fusion

Lead: GE, VTT

Grand Challenge 3:
Labour at Digital Work
Environment

Lead: ABB Vaasa, UO

Grand Challenge 4:
Digital Production

Lead: Nokia, Aalto

Co-Innovation & Ecosystems (SME & Factory & Research)

Advanced Technology Research (Proof-of-Concepts)



ARTIFICIAL
INTELLIGENCE



DIGITAL TWIN

IoT Communities of Practice



A/V REALITY



3D
PRINTING



ROBOTICS



WEARABLES



DATA
ANALYTICS



ROBOTIC PROCESS
AUTOMATION

EIT Manufacturing

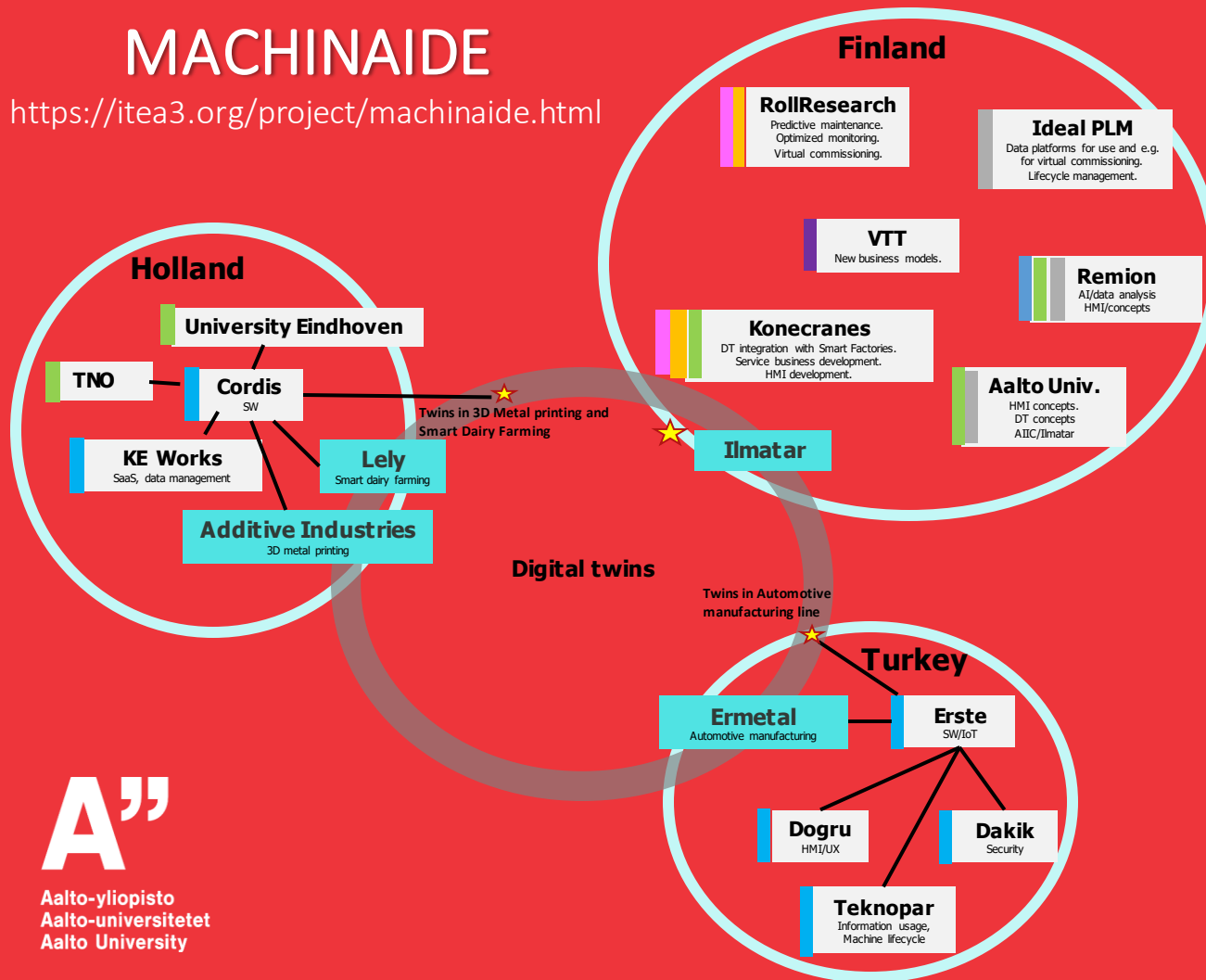


EIT Manufacturing is supported by the EIT,
a body of the European Union



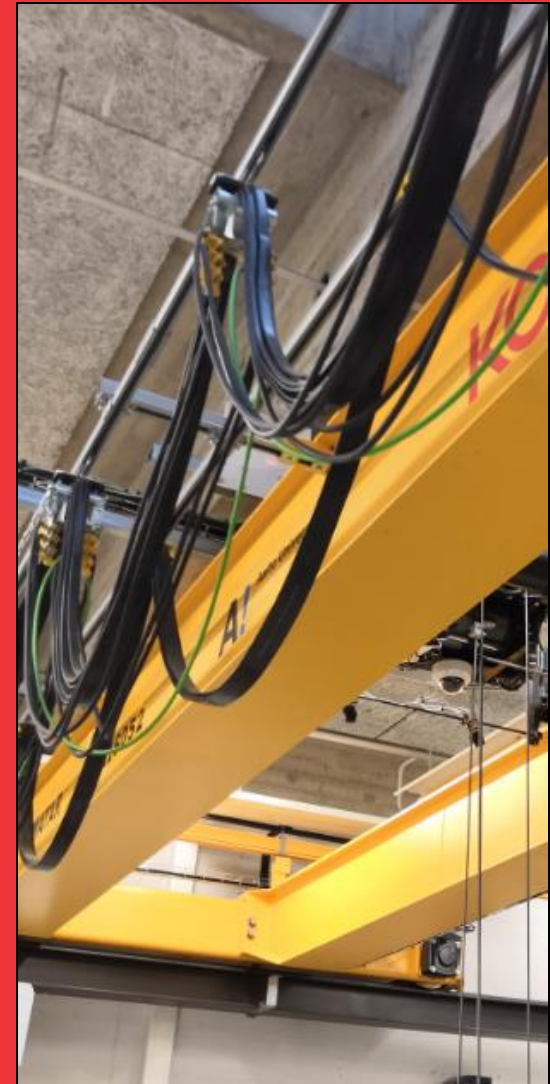
MACHINAIDE

<https://itea3.org/project/machinaide.html>



A"

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DigiTwin network

#digitwindemoday

#digitwinnetwork

Continues under Machinaide project

New LinkedIn group

- **DigiTwin network**

Domain: digitwin.network

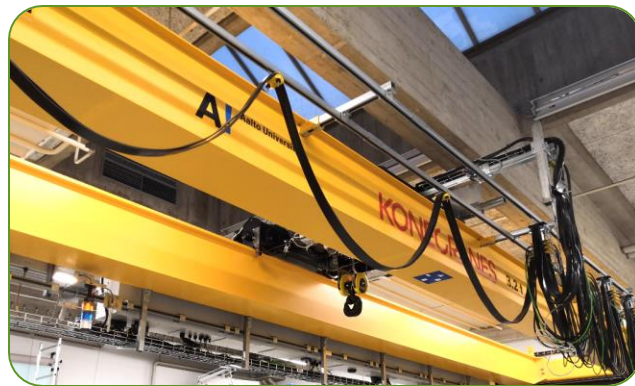
- **Redirected to the correct location**

- **Email list:**

digitwin@list.aalto.fi

- Join at <https://list.aalto.fi/mailman/listinfo/digitwin>
- Feel free to post to the list by sending a text-based mail to email address digitwin@list.aalto.fi

Ilmatar Open Innovation Environment



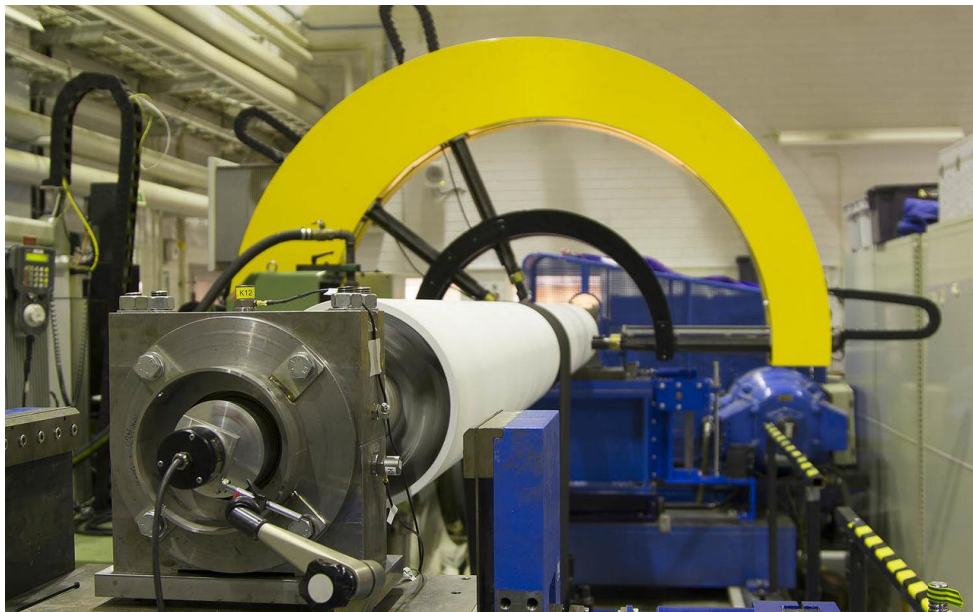
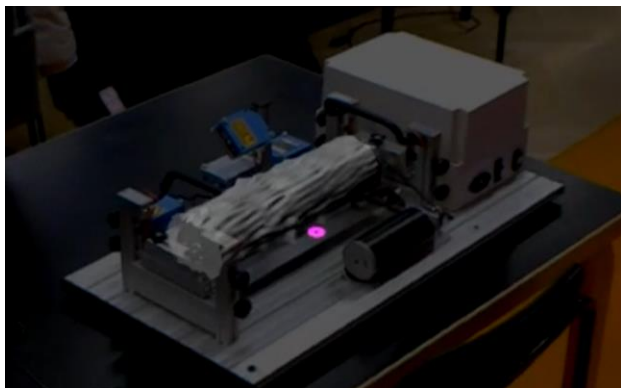
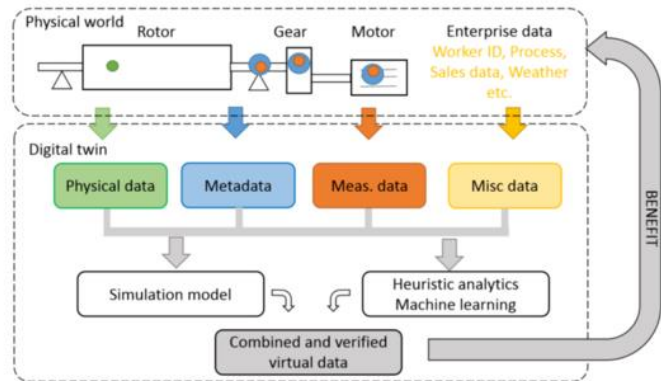
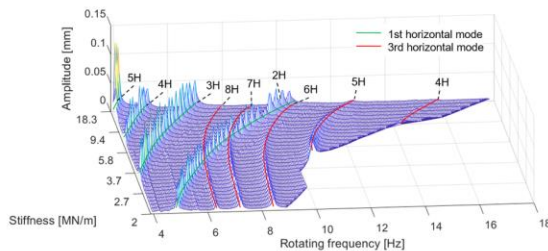
aalto.fi/ilmatar



TwinRotor Demo Day

December 13th 2019

<https://www.aalto.fi/en/events/twinrotor-demo-day-13122019>



Introduction to demos

11.15 Digital twin of a rotor system, ARotor laboratory at Aalto University

11.30 Smart mobility, Aalto University

11.40 Closed loop digital twin, enabling virtual commissioning and predictive engineering, IDEAL PLM & Siemens Osakeyhtiö

12.00 Plant engineering digital twin, Outotec

12.10 Model-based operational digital twin, VTT

Physics-based digital twin, Mevea

3D modelling capabilities required for 3D content generation, Reality Animation Oy

Large scale IoT solutions & services, Hypercell

12.40 Secure calibration and metrology data transfers, SmartCom at Aalto University

12.50 GraphQL interface for Ilmatar crane, Aalto University

13.00 Sensor management system for data collection, Aalto University

13.10 Simulation model and virtual shadow of an overhead crane, Visual Components

13.20 Crane usage analysis using Flow-based AI, Remion

13.30 RBS Design automation, digital twin solution, RD Velho

Innovating with students, Konecranes



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Follow the
dashed lines

Remember
to eat lunch

dtw.fi

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