

# AI for a more sustainable and circular EU Manufacturing and Process Industry

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October 26, 2023 - 16:45 - 17:45

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**THREE PROJECTS**

# HORIZON-CL4-2021-TWIN-TRANSITION-01-07

Artificial Intelligence for sustainable, agile manufacturing (AI, Data and Robotics + Made in Europe Partnerships) (IA)

- [AIDEAS](#), linked to [i4Q](#)
- [CIRCULAR TWIN](#), linked to [CIRPASS](#) and [DACAPO](#)
- [s-x-AIPI](#) linked to [CAPRI](#)

## Covering:

- Made in Europe
- Processes4Planet
- Data Spaces for manufacturing

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## SCOPE

AI assists not only in predicting, optimizing, and improving every aspect of a machine's life cycle

### **AIDEAS – AI for Machinery Industry**

– supporting the complete lifecycle of industrial equipment with AI solutions, from design and manufacturing to usage and the repair-reuse-recycle phases

### **Circular TwAI – AI for Circular Manufacturing**

– developing and experimenting an ecosystem of AI-enabled Digital Twins, aiming at supporting the transition of EU Manufacturing Industry towards a more sustainable and circular manufacturing

### **s-X-AIPI – AI for process industry**

– optimizing human involvement in the loop of creating and maintaining AI applications for industrial use, while exhibiting self-improving (self-X) capabilities

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## AGENDA

October 26, 2023 - 16:45 - 17:45

16:45 - 16:50 **Session introduction**

16:50 - 17:05 **AIDEAS** - *AI in machinery industry and AIDEAS project.*

Grigoris Tzionis and Georgia Apostolou, Centre for Research and Technology Hellas – Information Technologies Institute

17:05 - 17:20 **Circular TwAI** - *The role of AI in Circular Manufacturing networks, on electric cars' Batteries de- and re-manufacturing.*

Sergio Gusmeroli, Politecnico di Milano; and Davide Dalle Carbonare, Engineering Ingegneria Informatica

17:20 - 17:35 **s-x-AIPI** - *AI in process industry and s-x-AIPI project.*

Daniel Gómez and Aníbal Reñones, Industrial and Digital Systems Division, CARTIF Technology Center

17:35 - 17:45 **Closing remarks**

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# Thank you!

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