



AI Platform for Integrated Sustainable and Circular Manufacturing

Ist Press Release

We Kicked Off | Milan, 06-07 July 2022

The 06th of July 2022 was a milestone for Circular TwAIIn, as members of the Consortium got together in the premises of Politecnico di Milano, in Milan, Italy for the Kick-off meeting. Throughout the whole meeting there was an online connection allowing for the Partners who were not able to travel, to attend remotely. The assembly lasted for two full days, giving all project members the chance to meet one another and engage in an extensive and productive conversation about the project's objectives, work packages and industrial applications, as well as our forthcoming steps, under the coordination of Engineering.



The Project in a Nutshell

Circular TwAI will research, develop, validate, and exploit a novel AI platform for circular manufacturing value chains, which will support the development of interoperable circular twins for end-to-end sustainability.

Based on the use of trustworthy AI techniques, the project will enable human centric sustainable manufacturing, fostering the transition towards Industry 5.0 as well as the integration and combination of different data from various sources, with the intent to exploit the advantages of seamless data sharing within trusted and effective manufacturing data spaces, over the entire product life cycle considering sustainability aspects.

Circularity and end-to-end sustainability through trusted AI technologies will be promoted in 3 industrial use cases, both in the discrete manufacturing and the process industry.

- De- and Re- Manufacturing Li-Ion Battery Packs in e-mobility by COBAT, RAEEMAN and POLIMI
- De- and Re- Manufacturing Consumer WEEE by RECYCLIA, REVERTIA and AIMEN
- Energy Optimisation in Petrol-Chemical Production Plants by SOCAR and TEKNOPAR

Partners

The Consortium consists of 21 Partners across 11 European countries. An experienced and multidisciplinary group that will contribute the most towards the achievement of the Project objectives.



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