

PRESS RELEASE

CIRCULOOS brings circular economy perspective to I4MS2's launch webinar on Zero Defect Manufacturing for SMEs

- CIRCULOOS emphasised the role of data-driven tools in enabling circular use of materials during the webinar's roundtable discussion.
- Participants discovered how SCAMM is using AI-powered machine vision to detect defects in sheet metal processing; and REINOVA is using Large Language Model (LLM)-based assistants to enhance automotive testing accuracy.

Barcelona (Spain), March 28th – The CIRCULOOS project, as part of the I4MS2 initiative has just participated in the webinar “AI for zero defect manufacturing – Challenges and Opportunities for SMEs”. Since Europe's manufacturing sector accelerates its digital transformation, small and medium-sized enterprises (SMEs) face mounting challenges to reduce defects, enhance productivity, and remain competitive. To address these pressing needs, I4MS2 has organized this session. This online event has explored how Artificial Intelligence (AI) is redefining quality control, predictive maintenance, and defect detection—transforming traditional manufacturing into smart, resilient, and efficient operations.

Empowering SMEs Through AI

Participants heard from innovation leaders and European SMEs who are successfully integrating AI technologies into their manufacturing lines. It includes **SCAMM**, who is applying machine vision systems to detect defects in sheet metal processing; and **REINOVA**, who is using Large Language Model (LLM)-based assistants to enhance automotive testing accuracy.

The session has also included an interactive roundtable where attendees have engaged directly with project experts to explore practical solutions and gain insights into adopting AI on a scale and with cost efficiency.

From the CIRCULOOS, project's coordinator Anastasia Garbi from European Dynamics participated in the roundtable while commenting on the potential for circularity from the speaking SMEs of the webinar:

“CIRCULOOS offers advanced material tracking to enable proper re-use within circular supply chains. In SCAMM's case, production data could be leveraged to classify material defects and redirect unusable materials into alternative value chains. This approach not only reduces waste but also contributes to the creation of more resilient, resource-efficient manufacturing ecosystems.”

About the I4MS2 initiative

This event is part of the **I4MS2 initiative**, a European effort to support the digital transition of the manufacturing sector. I4MS2 encompasses cutting-edge projects such as **CIRCULOOS**, **WASABI**, **AI REDGIO 5.0**, and **AIRISE**. These projects empower SMEs by offering tools and funding to adopt technologies that boost competitiveness, sustainability, and resilience. I4MS2 (ICT Innovation for Manufacturing SMEs) builds on its predecessor I4MS to support digital innovation across Europe. It provides hands-on support, digital tools, and financial assistance to help SMEs implement Industry 5.0 solutions aligned with circular economy goals.