

3 important Business Cases

Cirtus Waste Processing

The Citrus processing waste for juice by-products pilot uses the waste from the production of orange juice to recover EO and then produce by-products such as animal feed, high quality molasses for food industry, and d-Limonene for cosmetic industry.

CFRP Waste for Drones

The CFRP waste for Drones pilot aims to use CFRP waste from the production of new composite materials to be re-used in the production of drones in the value chain.

WEEE for Magnets

The WEEE for Magnets pilot uses WEEE to extract PMs (bonded NdFeb and Sr-ferrite, and sintered Sr-ferrite) which are used (as SRMs) in the production of new magnets, aiming to increase their usage.

20 Partners
9 Countries



HELLAS



Plooto

Product Passport through Twinning of Circular Value Chains



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Our Vision

To develop a Circular and Resilient Information System (CRIS) that enables waste reduction and end-to-end traceability of SRMs through interconnected digital services for real-time decision-making, monitoring, and certification of materials and products, relying upon a digital transformation strategy pertinent to process industries.

Our Objectives

Objective 1: To establish a digital transformation framework for a circular value chain. **Objective 2:** To develop a Cognitive Digital Twin (CDT) platform to support circularity in industrial processes **Objective 3:** To develop a Circular and Resilient Information System (CRIS) for real-time decision-making and SRM monitoring **Objective 4:** To validate the solution in three real cases (pilots) in different industrial domains **Objective 5:** To maximize the impact through dissemination, policy recommendations and standardization activities so as every industry benefits from Plooto.

In a glimpse

→ 20 Partners

A diverse consortium consisting of large technology providers, innovative SMEs, universities and research centers across Europe.

→ 9 Countries


Partners from Italy, Greece, Norway, Germany, Slovenia, Romania, Cyprus, Spain and the United Kingdom have formed a consortium to deliver the Plooto system.

→ 3 Pilots

Plooto is developed around three different diverse pilots, namely the Cirtus Waste Processing pilot, the CFRP Waste for Drones, and the WEEE for Magnets.



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