

PROJECT

ZDZW

Non-Destructive Inspection Services for Digitally Enhanced Zero Waste Manufacturing

ZDZW develops digital non-destructive inspection (NDI) services as a set of strategic technologies to improve production efficiency, zero-defect, and sustainable manufacturing of European industries.



This project has received funding from the European Union's Horizon Europe Research And Innovation programme under Grant Agreement N° 101069681

27

PARTNERS

10

COUNTRIES

€11 M

TOTAL BUDGET

3

YEARS



IN ONE CLICK

Coordinator

IKERLAN S.Coop.

Programme

Horizon Europe

Period

2022-2025

Sector

Digital

Web

<https://www.zdzw-project.eu/>

01

Challenge

To pursue the main goal of reducing defects and the generated waste in manufacturing processes, ZDZW addresses defect minimisation and waste reduction in three key areas that cover the entire manufacturing process and product lifecycle.

02

Solution

ZDZW will demonstrate its zero-defect (ZD) and zero-waste (ZW) approach in 6 Pilots involving production processes with an important waste reduction potential (injection moulding, thermoforming, welding and painting, induction hardening, lithography and packaging) of key industrial sectors such as automotive, home appliances, renewable energy, e-health, and food and beverages.

03

Impacts

Interoperable and Interlinked Services and Solutions: Integrity, Visual and Thermal Inspection Solutions. Inspection-as-a-Service: new business models for inspection systems. Consultancy Services including Skills Development and Training Strategy: Looking to maximize industrial uptake. Industry 4.0 Factory Solutions: For manufacturers, inspection system providers, and new developers. Sustainability Assessments: To identify and most efficient routes leading to waste reduction.