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### Project Coordinator:

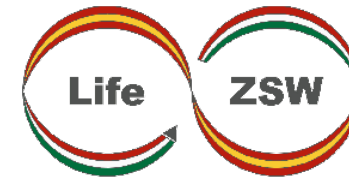


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### Project Partners:



## LIFE22-ENV-IT-LIFE ZSW



### ZERO STONE WASTE

**Demonstration of an innovative, environmentally friendly and economically feasible technology for the recycling and valorization of ornamental stone waste**

**PROJECT LOCATION** Italy & Spain  
**PROJECT PERIOD** July/2023 – December 2026  
**WEBSITE** [www.zerostonewaste.eu](http://www.zerostonewaste.eu)



## Abstract

LIFE ZSW project aims at demonstrating the technical, environmental and economic feasibility of an innovative technology for **recycling and valorizing stone wastes produced in quarries and processing industries**, which are at present mainly landfilled or not valorized. The high-quality end-materials obtained will be useful for the sustainable construction and agricultural sectors. The techniques and methodologies that will be demonstrated within LIFE ZSW will provide a smart solution to SMALL AND MEDIUM BUSINESSES for the recycling of the of the wastes produced by the extraction and processing.

## Objectives

The general objective of the LIFE ZSW project is the valorization of stone waste of different origins (marble, granite, basalt, etc.) and their transformation into MPS (Secondary Raw Material) to be used as components for pre-mixed and other END-PRODUCTS intended for the construction industry. The proposed technology is sized for SMEs and allows for stone waste to be reduced to a minimum, creating new business opportunities with new CAM certified products.

The LIFE ZSW project has the following **specific objectives**:

1. Demonstrate the ability of the LIFE ZSW solution to work on an industrial scale and achieve a solution to TRL8.
2. Certify the final products obtained both in chemical-physical, "performance" and environmental terms in order to guarantee their "marketability" as CAM type products.
3. Reduce the environmental footprint of the ornamental stone industry.
4. Transfer the LIFE ZSW solution to other sectors and replicate it both in Italy and other EU countries
5. Develop a detailed exploitation plan and business plan to guide the commercialization of the ZSW solution immediately after the project ends.

## Project actions

The **Preparatory Activities (WP2)**, include the planning and construction of the different equipment which compose the plant.

The **Demonstration activities (WP3)** include the operation of the plant in real conditions, in three sites (two in Italy and one in Spain) for testing and measuring the performances of the plant for producing different types of CAM end-products by starting from different kinds of wastes. The WP3 include the CERTIFICATION of the end-products.

The **WP4** deals with the study of Sustainability, replicability and exploitation of project results.

The **WP5** monitors and evaluate the impacts and KPIs of the project.

The **WP6** includes all actions related to communication and dissemination.

## Expected results and impacts



### Technological

- Demonstration of the performances (production of end-products) of the ECOGEO plants
- **INTRODUCTION OF CIRCULAR ECONOMY PRACTICES INTO THE STONE INDUSTRY.**



### Environmental

- **Reduction by 100% of the stone waste accumulated.**
- **Recycle** of all types of stone waste in "green" end-products – NO land lost or pollution for disposal.



### Socio-economic

- Reuse of wastes in agriculture and constructions
- Saving money for avoiding transport and landfilling.