

Development of eco-design and circular economy strategies for the built environment

CHALLENGE

The project addresses the main challenges of **design, production and consumption** patterns in Italy, as well as the **management** of end-of-life materials, products and production processes. The goal is the **transition** to more sustainable and circular paths within these sectors.

KEY ACTIVITIES/ACHIEVEMENTS

Explore the bio-economic potential of bio-residues in the Italian context by defining **scenarios for the reuse** of fibrous waste from agro-industrial supply chains aimed at the production of new materials and products with low environmental impact for a more sustainable built environment. The project is currently underway and focuses on defining **eco-design** strategies aimed at producing **new materials with low environmental impact**. This includes the development of bio-inspired composite materials, components and semi-finished products suitable for application in the building and furniture sectors. The experimentation will reach the Proof of Concept (POC) stage.

