

# Circular Construction Materials from Textile Waste - Transforming

QMS Business Consulting d.o.o. · Visoko, Bosnia and Herzegovina

HORIZON EUROPE — CONSORTIUM BUILDING



# The Challenge We Address

## Textile Waste

The EU and Western Balkans face growing volumes of underutilised textile waste with limited circular reuse pathways.

## Energy Inefficiency

Construction remains one of the largest contributors to energy consumption and CO<sub>2</sub> emissions.

## Material Gap

Lack of sustainable, locally sourced, and circular materials for insulation and interior applications.

**i** Waste streams and energy inefficiency are interconnected challenges requiring integrated, ESG-driven solutions.

# Solution: Panels and Bricks



## Panels

Modular acoustic and thermal insulation metal panels with recycled textile waste.

## Bricks

Architectural interior elements

Both with transparent CO<sub>2</sub> lifecycle tracking (EPD-certified).



## Integrated Production

Advanced nonwoven systems, automated digitalised manufacturing, and a textile waste logistics and pre-processing centre ensuring traceable raw material supply.

ESG-ALIGNED

EPD-CERTIFIED

CIRCULAR ECONOMY

# EU Policy Alignment & Our Contribution

## Aligned with EU Priorities



Circular Economy Action Plan



Energy Efficiency in Buildings



European Green Deal & industrial decarbonisation



Sustainable & Innovative Materials

## What We Bring to Consortia

- Development and validation of textile-based circular materials
- Pilot applications in architecture and interior design
- Acoustic, thermal, and environmental performance testing
- Digitalised, automated production systems
- Textile waste logistics and pre-processing hub
- Western Balkans market access as pilot region

# Seeking Horizon Europe Partners

We are open for ESG-driven partnerships and consortium development.



## Research Institutions

Materials science, LCA, and EPD validation expertise.



## Industrial Partners

Manufacturing, construction, and scaling capabilities.



## Project Coordinators

Horizon Europe consortium leadership experience.



## Architects & Designers

Pilot use cases in real-world environments.



## Investors & Strategic Partners

Scaling circular materials with significant commercial potential.



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