Now

4. BIOCORNER

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Our Project BIO.CO.R.N.ER

BIOCORNER

BIO-waste for a **CO**ordinated and **R**egenerative **N**ew supply chain of eco-sustainable building materials in **E**milia-**R**omagna region

This project has received funding from the European Union's "Horizon Europe" programme under grant agreement 101092295

BIO.CO.R.N.ER

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- Consortium introduction
- Challenge
- Value proposition (Impact on circularity)
- Business potential

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BIO.CO.R.N.ER Consortium introduction

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A regional circular value chain from bio-waste to sustainable construction

CLUST-ER AGRIFOOD AGROALIMENTARE
Bio-waste ecosystem

→

CETMA
CENTRO DI RICERCHE EUROPEO DI TECNOLOGIE DESIGN E MATERIALI
Coordinator & material developer

→

UNIMORE
UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA
Material developer and scientific validation

→

SYSTEM NTC&R
Industrial end-user

Enabling support

LaRCo iOOS
Industrial scale-up

Levery
Digital solutions

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Who is who?

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CLUST-ER AGRIFOOD AGROALIMENTARE



Ecosystem builder

CETMA

CENTRO DI RICERCHE EUROPEO DI TECNOLOGIE DESIGN E MATERIALI



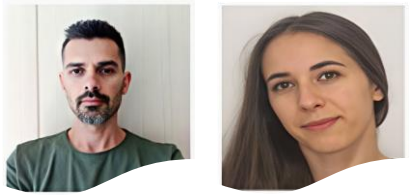


Coordinator & material developer

UNIMORE

UNIVERSITÀ DEGLI STUDI DI MODENA E REGGIO EMILIA





Material developer & scientific validation

SYSTEM NTC&R





Industrial end-user

BIO-INNOVATION FACES

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BIO.CO.R.N.ER Challenge

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The challenge is not only developing a new material — it is **connecting two traditionally separate value chains.**

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BIO.CO.R.N.ER Value proposition

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Turning bio-waste into building performance

Two materials. One circular value chain.



BIO-WASTE
Local residues, new value

BIO.CO.R.N.ER
VALUE CREATION

- Material development
- Industrial validation
- Digital traceability



MORTAR 1 TRL 8
Thermo-structural mortar
Marine + bio-based residues



MORTAR 2 TRL 6
Thermal insulating mortar
Rice-industry residues

- Less virgin raw materials
- Lower carbon footprint (CO_2)
- Regional circular supply chain
- New value for bio-waste

BIO.CO.R.N.ER does not simply reuse waste:
it transforms heterogeneous residues into **qualified, traceable** and **valuable** construction inputs.

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BIO.CO.R.N.ER

Business potential









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FROM LAB

BIO.CO.R.N.ER

Business potential

€6.3 M/year
Estimated 2027 revenues

120,000 m²/year
First industrial application potential

9 M kg/year
Potential STB demand

-50%
Application time

€4.5/m²
Net application advantage

€0.70/kg selling price | **€0.12/kg** unit margin | **€1.08 M/year** gross margin



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