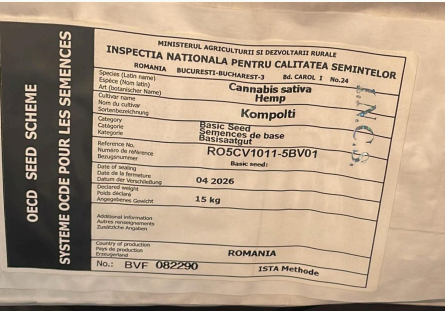




Field check, Brașov area, 2026. Industrial hemp at ≈3 m, measured before harvest. Plot monitored by AgriMesh.



Certified seed, in the chain.
cv. Kompolti (C1) · basic seed lot RO5CV1011-5BV01 · 15 kg · sealed 04/2026 · INSCS, Romania.

New European Bauhaus fit

SUSTAINABLE — locally grown, renewable, low-impact materials.

BEAUTIFUL — architecture that makes natural materials visible and desirable.

TOGETHER — farmers, researchers, architects, authorities and future residents around a shared housing model. Brașov as demonstration territory; a method built to be replicated.

FROM FIELD TO BUILDING

One plant. One measurable chain.

The idea in one sentence: REGENESIS is a Living Lab in Brașov connecting industrial hemp cultivation, bio-based building materials and continuous digital monitoring — from the field to real buildings — to make healthy, affordable, low-impact housing measurable and replicable across Europe.

01 WHAT EXISTS TODAY · 2026

A first full-scale demonstrator is in place in the Brașov area: locally cultivated industrial hemp, and a pavilion built with a hemp-based material and mineral binder. **The material already holds technical approval for use.** The pavilion is a physical platform for research, measurement and validation.

AgriMesh records field, environmental and traceability data; **LivingMesh** monitors building elements and material behaviour. A digital traceability architecture links field, biomass, material batch and building element.



The demonstrator pavilion during construction, beside the hemp plots. Cast hemp–mineral walls, unfinished.



AgriMesh field unit · LivingMesh building unit.

02 PROVEN

- Genetics and certified seed — cv. Kompolti, category C1
- Cultivation at field scale, measured and monitored
- Full-scale construction with an approved material
- Live monitoring — AgriMesh (field) and LivingMesh (building)

03 OPEN — NEXT RESEARCH

- Processing, feedstock characterisation, formulation
- Laboratory testing: hygrothermal, mechanical, fire, durability
- Sustainability assessment and pre-standardisation
- Full-scale validation and replication

04 EUROPEAN PATHWAY

EIC Pathfinder Open — HEMPESH	Coordinated proposal, submitted 2026.	UNDER EVALUATION
Horizon Europe — HEMP-NORM	Feedstock → processing → performance → validation → pre-standardisation.	IN PREPARATION
EIB Group — Project Development Assistance	Technical, financial and investment maturity.	ENGAGED
Climate-KIC / Climathon	Climate innovation and Living Lab development.	ENGAGED

Looking for: universities and research organisations · municipalities and regions · architects and housing actors · processors and material industries · testing and standardisation bodies · European Living Labs — for NEB, Horizon Europe and affordable-housing replication.



Cast hemp–mineral wall, detail — demonstrator pavilion, 2026