

French cooperative working on eco designed straw based insulation seeks partners for future calls HORIZON-NEB-2026-01-PARTICIPATION-03 ; HORIZON CL6 2027 01 CIRCBIO 07 ; HORIZON-NEB-2027-01-REGEN-01

Summary

Profile type

Research & Development Request

Company's country

France

POD reference

RDRFR20251021009

Profile status

PUBLISHED

Type of partnership

**Research and development
cooperation agreement**

Targeted countries

- France
- Austria
- Luxembourg
- Ireland
- Croatia
- Sweden
- Cyprus
- Malta
- Latvia
- Netherlands
- Bulgaria
- Italy
- Portugal
- Hungary
- Lithuania
- Romania
- Finland
- Czechia
- Spain
- Denmark

- United Kingdom
- Belgium
- Estonia
- Poland
- Slovakia
- Switzerland
- Germany
- Greece
- Slovenia

Contact Person

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Term of validity

21 Oct 2025

21 Oct 2026

Last update

21 Oct 2025

General Information

Short summary

A French cooperative (SCIC) of 8 staff with a network of 180+ members is looking to join a Horizon Europe consortia on eco design, circular bio based construction and territorial replication. Their product is a straw based insulation material. They can contribute pilot demonstrators, LCA/EPD datasets, local supply chain mobilisation and >1,000,000 m²/year deployment capacity to a project.

Full description

Building materials still carry high embodied carbon and limited circularity while agricultural residues remain under valorised.

To overcome these challenges, the cooperative transforms wheat straw into a 100% bio based, compostable insulation for new builds and retrofit. The cooperative bridges agriculture, materials and construction, enabling circular, low carbon value creation and territorial resilience.

The cooperative wants to optimize the eco design of straw based insulation components; to do performance testing and instrumentation; integration with constructive systems; LCA/EPD modelling; territorial deployment and replication playbooks; comfort and user acceptance studies.

It is looking for partners to apply to :

- HORIZON-NEB-2026-01-PARTICIPATION-03 : Redefining aesthetics in the built environment through sustainability and affordability
- HORIZON CL6 2027 01 CIRCBIO 07 : Improving biomass flows for a sustainable and circular bioeconomy
- HORIZON-NEB-2027-01-REGEN-01 : Combining conventional and innovative construction materials, products and techniques for a sustainable and beautiful built environment

Expected results include :

- Material development & prototyping: straw based insulation formulations; conformity roadmaps.
- Demonstration & deployment: pilot sites (new & retrofit), in situ instrumentation, user feedback loops.
- LCA / carbon accounting: datasets, EPD inputs, comparative scenarios vs. conventional solutions.
- Territorial replication: mobilisation of farmers, artisans, SMEs and municipalities; logistics for local biomass.
- Dissemination & training: open visits, practitioner guides, CPD/webinars for architects and builders.

Advantages and innovations

The eco-designed material developed by the cooperative delivers a positive environmental impact through biogenic carbon storage, reduced embodied emissions, a compostable end-of-life, and a circular design approach.

In terms of performance and comfort, it offers a favorable phase shift that enhances summer comfort, along with hygrothermal properties well-suited to timber structures and renovation projects.

The solution also creates strong territorial value by supporting rural employment, ensuring fair remuneration for farmers, promoting short supply chains, and fostering social acceptance through cooperative governance.

Its scalability is proven, with the operational capacity to supply and deploy over 1,000,000 m² annually, backed by clear replication methodologies and practical playbooks.

Finally, the organization stands out with its cooperative model that bridges agriculture and construction, and is fully prepared for large-scale demonstrators across European contexts.

Technical specification or expertise sought

- R&D institutions / labs: testing & validation; LCA/EPD; standardisation; circular design metrics.
- AEC firms / SMEs / industry: system design, prototyping, site works, QA/QC, monitoring & digital twin.
- Public authorities / clusters: sites & permits, citizen engagement, replication & policy alignment.

Stage of development

Available for demonstration

Sustainable Development goals

- **Goal 11: Sustainable Cities and Communities**
- **Goal 17: Partnerships to achieve the Goal**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 12: Responsible Consumption and Production**
- **Goal 13: Climate Action**

IPR Status

Secret know-how

IPR Notes

IPR Notes

Partner Sought

Expected role of the partner

Research, testing, design integration, pilot deployment, LCA/EPD, monitoring, replication & scaling, dissemination/exploitation

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME <=10**
- **SME 50 - 249**
- **University**
- **R&D Institution**
- **Big company**
- **SME 11-49**
- **Other**

Call Details

Framework program

Horizon Europe

Call title and identifier

HORIZON-NEB-2026-01-PARTICIPATION-03 : Redefining aesthetics in the built environment through sustainability and affordability (priority)
HORIZON CL6 2027 01 CIRCBIO 07
HORIZON-NEB-2027-01-REGEN-01

Submission and evaluation scheme

Single-stage calls

Anticipated project budget

Coordinator required

to be defined with coordinator

Yes

Deadline for EoI

31 Jan 2026

Deadline of the call

1 May 2026

Project duration in weeks

Web link to the call

Project title and acronym

Dissemination

Technology keywords

Market keywords

- **09007002 - Manufacture of construction materials, components and systems**
- **09005 - Agriculture, Forestry, Fishing, Animal Husbandry & Related Products**

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Sector groups involved