Partner Search for Eurostars Call - September 2025: Seeking Geotextile/Geocell Manufacturers and CDW Specialist Companies

Summary

Profile type

Research & Development Request

Company's country

Spain

POD reference

RDRES20250711016

Profile status

PUBLISHED

Type of partnership

Research and development cooperation agreement

Targeted countries

- **Albania**
- **Belgium**
- **Croatia**
- **Canada**
- **Bulgaria**
- **Cyprus**
- **Austria**
- **Bosnia and Herzegovina**
- **Chile**
- **Brazil**
- **Türkiye**
- **Monaco**
- **Ukraine**
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- **Germany**
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- **Lithuania**
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- **Romania**
- **Poland**
- **South Korea**
- **Singapore**
- **Estonia**
- **Luxembourg**
- **North Macedonia**
- **San Marino**
- **Hungary**
- **Switzerland**
- **Norway**

Contact Person	Term of validity	Last update
Enrico FRANZIN	**11 Jul 2025** **11 Jul 2026**	**11 Jul 2025**

General Information

Short summary

A Spanish Construction R&D Centre is currently leading the technical development of a EUROSTARS proposal for the development of 3D-printed geotextiles and geocells made from recycled rubber and HDPE/PP, designed to reinforce weak soils or CDW-based fills, enabling the deployment of an innovative, sustainable, and efficient permeable pavement system with no leaching or clogging. The consortium is seeking a geotextile/geocell manufacturing company, or a CDW valorisation specialist

Full description

A Spanish Technological Centre specialized in Sustainable Construction and Smart & Resilient Infrastructures, with extensive experience in coordinating and participating in European projects, is currently leading the technical development of a EUROSTARS proposal for the project “FLEXROAD 3D”, contributing its expertise in sustainable pavements and field testing. The consortium is leading by a Spanish SME specialised in the recycling of end-of-life tyres (ELTs).

The FLEXROAD 3D objective is to design and validate ultra-thin geotextiles and geocells manufactured via 3D printing from recycled ELT rubber blended with secondary plastics (HDPE/PP). These elements will reinforce low-bearing soils or fillings made from construction and demolition waste (CDW), facilitating the installation of the highly permeable FLEXROAD flexible pavement.

The project aims to develop solutions that:

• Contain over 70 % recycled materials,
• Reduce the use of virgin raw materials and CO_2 footprint by at least 30 % compared to conventional alternatives,
• Ensure environmental safety (no leaching or clogging).

Laboratory and pilot-scale testing will be carried out.

The consortium is looking to incorporate a geotextile or geocell manufacturing company, or alternatively a company specialised in CDW valorisation, interested in scaling up the solution or supplying/validating recycled infill materials. The supply of recycled rubber is already secured by the SME leader of the proposal.

The partners should be in eligible countries.

Programme call: Eurostars 3 – Call 6 (2025)

Fields of expertise: civil engineering, additive manufacturing, circular economy, geotechnics, road construction, pilot testing.

Timescales:
- Official call deadline: 4th september 2025
- Expression of Interest Deadline: 1st september 2025

Advantages and innovations

FLEXROAD 3D introduces 3D-printed geotextiles and geocells from recycled tyre rubber and HDPE/PP, enabling permeable pavements over poor soils or CDW fills. It offers a circular, low-carbon alternative to conventional soil reinforcement.
Key benefits:

- >70% recycled content, ≥30% CO_2 and raw material reduction
- Customisable geometry for ≤5 cm thickness and strong performance
- No leaching/clogging, ensuring environmental safety
- Promotes reuse of CDW and marginal soils
- Supports affordable, sustainable roads and industrial symbiosis.

Technical specification or expertise sought

Option 1 – Geotextile or geocell manufacturing company:
• Experience in the production of geosynthetics (geotextiles, geocells, or similar products).
• Knowledge of polymer processing techniques such as extrusion, moulding or preferably 3D printing, especially using HDPE, PP or recycled materials.
• Ability to collaborate in the development and validation of innovative geosynthetic products in pilot settings.
• Interest in scaling up recycled-material solutions, particularly those involving ELT rubber.

Option 2 – Company specialised in CDW (construction and demolition waste) and valorisation:
• Experience in the treatment, classification, and reuse of CDW as backfill or construction materials.
• Knowledge of technical requirements and regulations for CDW use in civil or road works.
• Capability to co-develop and supply sustainable infill mixtures based on CDW or other industrial residues (e.g. diatomaceous waste).
• Willingness to participate in pilot-scale infrastructure validation under circular economy criteria.

Stage of development

Under development

Sustainable Development goals

- **Goal 11: Sustainable Cities and Communities**
- **Goal 13: Climate Action**
- **Goal 9: Industry, Innovation and Infrastructure**
- **Goal 7: Affordable and Clean Energy**

IPR Status

No IPR applied

IPR Notes

Partner Sought

Expected role of the partner

The expected role of partners in the Eurostars program is to collaborate on international R&D projects, with a focus on innovative SMEs developing close-to-market products, processes, or services

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME <=10**
- **SME 11-49**
- **SME 50 - 249**

Call Details

Framework program

Eureka

Call title and identifier

Eurostars call for projects- September 2025

Submission and evaluation scheme

Anticipated project budget

Coordinator required

No

Deadline for EoI

1 Sep 2025

Deadline of the call

4 Sep 2025

Project duration in weeks

Web link to the call

https://eurekanetwork.org/opencalls/eurostars-september-2025/

Project title and acronym

FLEXROAD 3D

Dissemination

Technology keywords

- **02006006 - Construction engineering (design, simulation)**
- **03005009 - Woven technical textiles for industrial applications**
- **02006001 - Materials, components and systems for construction**
- **02006002 - Construction methods and equipment**
- **10003004 - Recycling, Recovery**

Market keywords

- **09004003 - Textiles (synthetic and natural)**
- **08004002 - Chemical and solid material recycling**
- **09007002 - Manufacture of construction materials, components and systems**

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- **Czechia**

Sector groups involved

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- **Germany**
- **Serbia**
- **Lithuania**
- **Iceland**
- **Romania**
- **Poland**
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