

Re-Mossing Our Shared Spaces - Re-MOSS

Project Overview

Re-Mossing Our Shared Spaces proposes a transformative, nature-based solution to urban sustainability by integrating ecologically cultivated mosses into shared public and residential environments. Driven by the values of the **New European Bauhaus**—sustainability, aesthetics, and inclusion—this initiative brings biotechnology, architecture, and social innovation together to green and revitalized urban spaces across Europe.

EnGreDi's Innovation

EnGreDi - *Enabling the Green Direction* - contributes its cutting-edge IN VITRO moss cultivation technology, offering:

- Lightweight, soil-free green roof and wall solutions
- Scalable and sustainable moss biomass production (TRL5, moving to TRL6–8)
- Multi-use applications: green roofs & walls, moss stucco, moss art, and botanical filtration
- Sustainable alternative to meet rising market demand while preventing the overexploitation of natural areas.

Impact Goals

- Environmental: Support climate mitigation & adaptation, improve microclimates & biodiversity, and consequently enhancing quality of life
- Architectural: Multiplying the opportunities for people to come together and interact.
- Social: Co-designed with underrepresented communities, creating inclusive green spaces
- Economic: Enable local employment in cultivation, installation, and maintenance

Why Moss?

Unique features:

- Naturally climate-resilient and aesthetically versatile
- CO₂ & fine dust captation, water retention & run-off reduction, and evaporative cooling significantly more performing than traditional solutions

Unlike vascular plants, mosses require no substrate and grow on carriers, making them:

- 10x lighter than traditional green roofs
- Ideal for retrofitting and new builds

Methodology

- In vitro moss cultivation scaled for urban application
- Citizen co-design workshops to adapt installations to local contexts
- Pilot deployments in schools, care homes, housing projects, and public spaces
- Cross-sectoral collaboration spanning biotech, urban design, and social inclusion

Consortium Goals

We are building a balanced, multidisciplinary consortium across sectors and EU regions. We invite:

- Local authorities, architects, universities, NGOs, and community organisations
- Experts in sustainability, biotech, ecological design, and inclusion
- Partners interested in leading, co-developing, or testing moss-based applications

Call to Action

Join us in redefining how Europe integrates living greenery into everyday life. Let's co-create a moss-powered model of sustainable, inclusive, and beautiful urban transformation—rooted in science, grown with communities.

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