Engage4BIO

Green Cradle

The Project

A biodegradable support system for sapling survival and forest resilience

- Supports sapling survival during the first 5 years—the most critical for growth
- Created after research into reforestation challenges and maintenance gaps
- Biodegradable paper ring made from egg cartons, flour, and water
- Contains:
    - Topsoil, cattle manure, mulch
    - Mycorrhizal fungal threads and auxiliary plants selected per tree species
    - Grass seeds to outcompete weeds
- Installed with minimal effort around saplings
- Prototypes tested with alder and oak trees in MOME Forest (Vízvár)
- Biodiversity promoted by adding dandelions and forest strawberries
- No invasive species used; design tailored to local ecosystems
- Ring decomposes, releasing nutrients, improving soil and moisture retention
- Merges ecological knowledge with design simplicity and functionality

Green Cradle Team

- Developed during Design Szolfézs forest-themed week at MOME
- Team of seven first-year BA students from different design disciplines:
    - Bakai Hajnalka (Object Design)
    - Eigner Marcell Maxim (Textile Design)
    - Horváth Domonkos (Product Design)
    - Horváth Izabel Nadin (Textile Design)
    - Jójárt Panna (Design Culture)
    - Kozma Fanni Alexandra (Object Design)
    - Simon-Pál Orsolya (Product Design)
- Mentored by Sátor Dénes with support from MOME Zero
- Committed to sapling care, biodiversity, and accessible eco-solutions
- United by a shared purpose: enabling young trees to thrive sustainably
- Embrace teamwork, observation, and practical innovation

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Funded by the European Union

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> “Multi-stakeholder engagement to strengthen regional bioeconomy value-chains”

Consortium :

ZSI

WAGENINGEN UNIVERSITY & RESEARCH

APRE Agenzia per la Promozione della Ricerca Europea

bay Bay Zoltán Nonprofit Ltd. for Applied Research

EAEA European Association for the Education of Adults

Moholy-Nagy művészeti egyetem university of art and design budapest

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