



Sustastic Effects project



The Project

Eco-friendly yarn alternatives for a plastic-free textile future

- Research-driven exploration of sustainable effect yarns to replace plastic-based fibers
- Focus on alginate-based yarns, derived from renewable sources
- Compiled a catalog of 100+ experimental bio-yarn variations
- Project builds on and contributes to open-source biodesign knowledge
- Early dyeing methods used spices, vegetable powders, and kitchen waste broths
- Textures and effects created using mica, poppy seeds, and physical reshaping
- Shifted to mica powder and soil pigments for longer-lasting, eco-friendly color
- Prioritizes durability, water-repellency, and improved usability
- Aims to provide viable, circular alternatives for the textile industry
- Project is ongoing, with continued focus on refinement and shared knowledge

Designer – Nóra Gulya

- Textile and material designer committed to sustainability and innovation
- Develops eco-friendly, circular alternatives to conventional textiles
- Works with bioplastics, experimental yarns, and natural material processes
- Advocates for open-source design to accelerate systemic change
- Sees design as a key driver in building a waste-free, responsible industry
- Combines functionality, aesthetics, and low-impact material sourcing
- Dedicated to reimagining the value and lifecycle of everyday materials

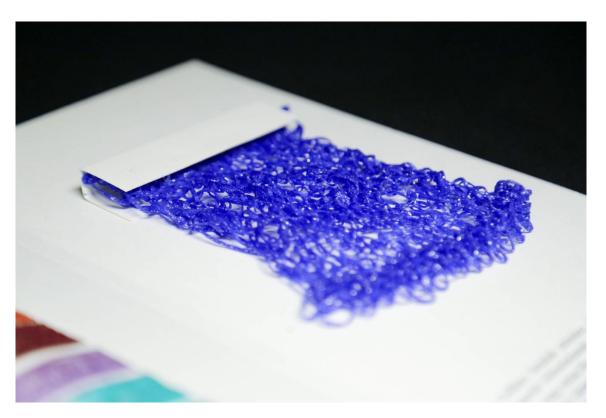




























Multi-stakeholder engagement to strengthen regional bioeconomy value-chains "

Consortium:





























@Engage4BIO









