



LeväLinna – Runner-Up Project



The Project

Transforming Baltic Sea Algae into Sustainable Building Materials

- Converts invasive algae (Cladophora Glomerata) into recyclable, bio-based composites
- Tackles marine degradation, eutrophication, and biodiversity loss in the Baltic
 Sea
- Material made from algae, calcium carbonate, and sodium alginate
- Key properties: biodegradable, insulating, fire-resistant, CO₂-absorbing
- Energy-efficient production: rinse, mix, mold
- Prototypes include Baltic-inspired tiles and ornaments
- Bridges cultural identity and material innovation
- Contributes to SDGs 11, 12, and 14
- A scalable model for circular, regenerative construction

Team – Aalto University (ChemArts)

- **Jordan Danae Dornak** Design student focused on sustainable materials & climate challenges
- Karen Charlot-Wauquier Combines design and chemistry in experimental biomaterials
- Yuki Yamamoto Specializes in eco-conscious design and regenerative practices





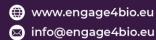


















Multi-stakeholder engagement to strengthen regional bioeconomy value-chains "

Consortium:



















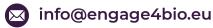












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