



## Corn Husk: Sustainable Paper from Agricultural By-products

## The Project

*Using Hungary's agricultural waste to produce eco-friendly paper*

- Aims to reduce environmental impact of traditional paper production
- Focus on Hungarian corn harvest residues as an abundant, local resource
- Avoids deforestation and preserves soil fertility
- Produces both flat paper sheets and molded, plastic-like forms
- Suitable for packaging applications
- Developed with expert input from engineers and university researchers
- Initial experiments started in a homemade cellulose digester
- Scalable concept: adaptable to small-scale, low-impact production
- Promotes a circular model using by-products without harming crops
- Bridges craft tradition with contemporary sustainable design

## Designer – Gabriella Maczák

- Designer from the Great Hungarian Plain (Alföld) with strong ties to agriculture
- Specializes in natural material innovation and sustainability
- Studied at Moholy-Nagy University of Art and Design (MOME)
- Creator of cornhusk paper, inspired by family farming heritage
- Works at a paper manufactory developing products from recycled materials
- Also a jewelry designer focusing on durability and material value
- Teaches traditional goldsmithing, preserving artisanal craftsmanship
- Integrates environmental consciousness across all her design work







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

### Consortium :



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