

Paludi Media Lab



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From Peatland to Building Material

Paludiculture as a material and value-creation strategy

The PALUDI MEDIA LAB explores how biomass from rewetted peatlands can be developed into new building materials, substrates and functional materials. The aim is to combine peatland protection, regional value creation and climate-resilient construction.

Turning a natural commodity in a material with potential

Paludiculture biomass is more than just a source of fibres – it can serve as a biogenic material platform. A variety of fibre structures, lignin and cellulose contents, as well as naturally moisture-tolerant plant structures open up new opportunities for the development of resource-efficient building products.

Research and Development

At the PALUDI MEDIA LAB, biomass processing, shaping and manufacturing, material formulas and testing strategies are considered as part of an integrated development process. Research spans the entire pathway – from biomass sourcing and material development to tangible demonstrators.

Outlook

The goal is to establish an application-oriented demonstration pathway: from the peatland through biomass processing and production to the final building component. This would not only increase the visibility of rewetting as a conservation measure but also contribute to establishing it as a strategy.

Funding

Reallabor ZeKiWa Zeitz

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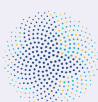
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