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BIO-2-PRINT

From waste to worth: Building a value chain for underutilized natural fibres as feedstock in 3D printing

The project aims to establish a sustainable and economically viable value chain for underutilized natural fibers in the NPA region. Using smart technologies, it develops customisable, high-value products while promoting the circular economy.

The project recycles natural fibers into concrete and polymer composite-based 3D-printing materials for construction and manufacturing to enhance sustainability, replacing linear processes with circular solutions. Combining recycled materials with natural fibers, unlocks new opportunities for local value chains and innovative feedstock.



Climate change
and resources
sufficiency

Partnership

Centria University of Applied Sciences Ltd. (LP)
(Finland)
Manorhamilton Innovation & Development clg t/a
Future Cast (Ireland)
Munster Technological University (Ireland)
Innomost Ltd. (Finland)
Luleå University of Technology (Sweden)
Umeå University (Sweden)

Budget

Total budget 1.515.743,60 €
NPA Funding 985.233,32 €

Duration

3/2025 – 2/2028

