

What is HALO·TEX?

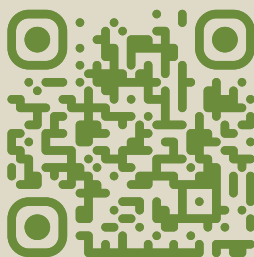
HALO-TEX is an EU-funded project addressing the urgent need for sustainable and circular solutions in the textile and biochemical sectors. By developing a bio-based manufacturing model that uses halophytes, salt-tolerant plants grown on marginal land, HALO-TEX aims to produce recyclable textiles, composites, functional additives, and high-value biochemicals. This approach reduces reliance on water-intensive raw materials like cotton and wool, mitigates environmental impact, and opens new pathways for green industrial growth.



Halorefine



www.halo-tex.eu/



Discover
more

Empowering Sustainable Industries

Driving halophyte-based solutions for sustainable textiles, composites, and biochemicals.

48 Months
3,9 Millions €
6 Countries
10 Partners

CORDIS



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[halo-tex](https://www.linkedin.com/company/halo-tex)



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Impacts

HALO-TEX promotes climate-resilient agriculture, innovation in bio-based products, and responsible consumption. Its circular approach supports:



01. ENVIRONMENTAL SUSTAINABILITY:

Restoration of salinized soils, reduced reliance on fossil resources, and improved land and freshwater management.

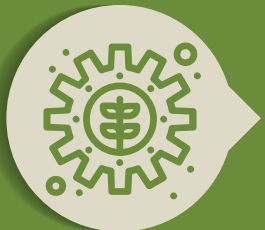
02. RESEARCH AND KNOWLEDGE:

New insights into biomass processing, bio-based materials, and circular bioeconomy systems.



03. SOCIAL AND ECONOMIC:

Job creation, rural development, cost-efficient production, and alignment with consumer demand for safer, sustainable products.



What HALO·TEX delivers?

HALO-TEX is creating a replicable model for a circular bio-based economy by converting halophyte plant material into multiple high-value products through a patented, solvent-free biorefinery process that operates with low energy and generates zero waste.



Bio-based additives and ingredients for textiles and cosmetics

Cellulose-based fibre substrates for garments and home textiles, designed for better sorting, recycling, and reuse

Bio-composites for textile accessories using bio-based additives

A secure digital system to track product information across the value chain, ensuring transparency, safety, and circularity

Environmental, social, and economic impact assessments

Consumer acceptance studies on bio-based products and digital transparency tools