



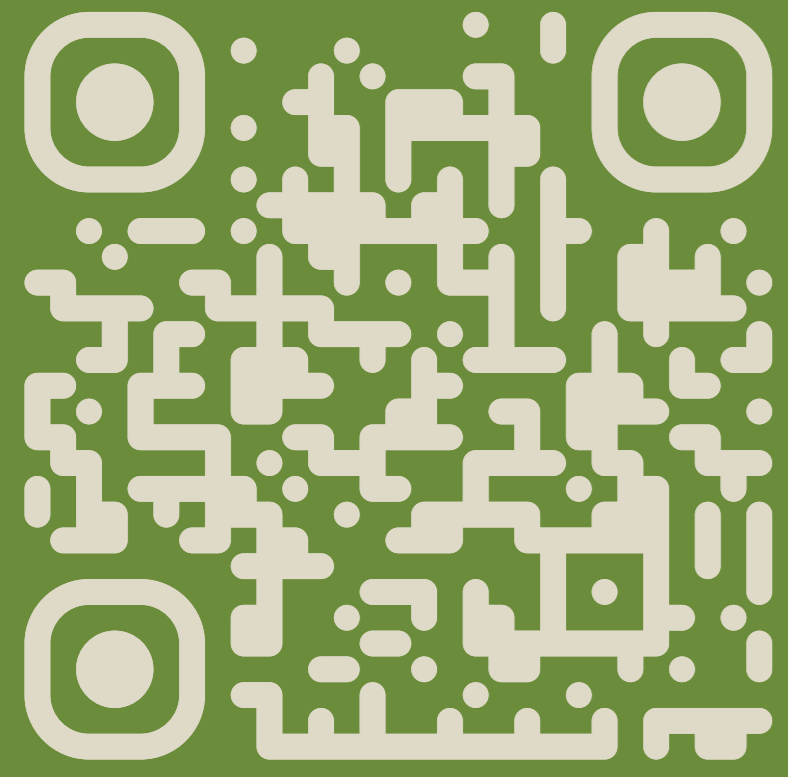
# HALO-TEX

## Empowering Sustainable Industries

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

48 Months  
3,9 Millions €  
6 Countries  
10 Partners

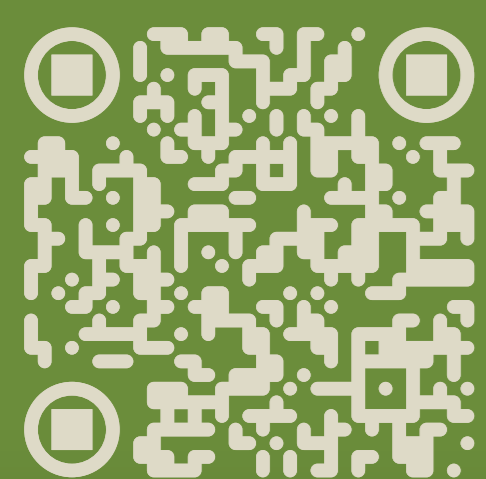
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halo-tex

CORDIS



## 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.

## Impacts

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



### 1 ENVIRONMENTAL SUSTAINABILITY:

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



### 2 RESEARCH & KNOWLEDGE:

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

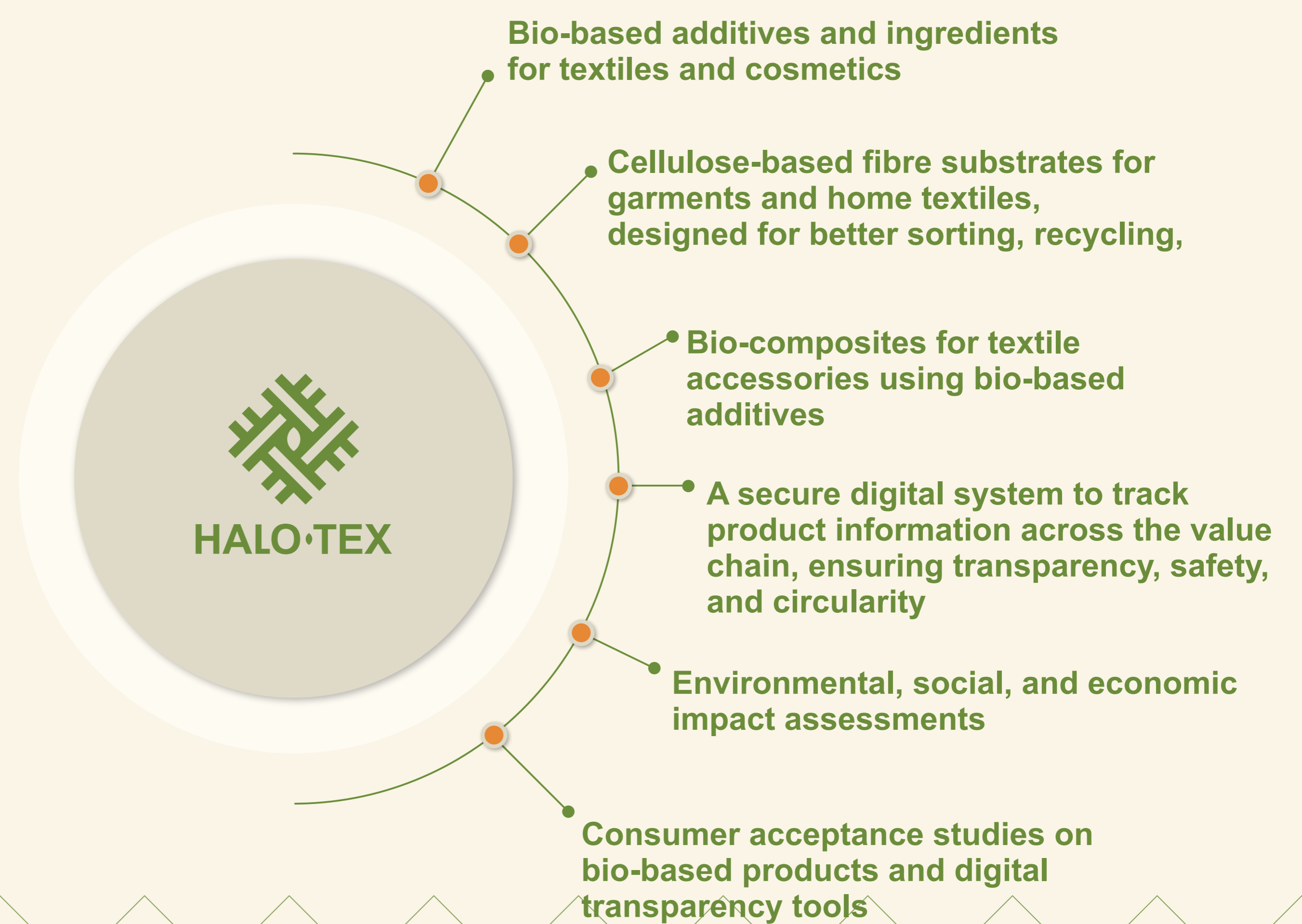


### 3 SOCIAL & ECONOMIC:

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.



WP3 - PRODUCTION OF CELLULOSE-BASED TEXTILES AND BIOCOSMETICS

## How textile is made from fiber to fabric?

Brief introduction about textiles



## Functional requirements of bio-based textile additives

Definition of technical and functional requirements



Funded by the European Union



Halorefine



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