



The Bioforce of Nature

From waste to high value

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2011

Co-founders Lari Vähäsalo, Sebastian von Schoultz and Nicholas Lax discover the fractionation technology and file the first patents.

2017

Current pilot plant (1 ton/batch) is built in Raisio with the support from Business Finland.

2019

Construction of an automated pilot production line begins & EU Horizon SME funding boosts innovation.

2026

Operations at new small-scale plant begin (capacity 225 tons/year).

2030s

Large-scale plants will be developed as the technology continues growing towards global commercial deployment.

2016

CH-Bioforce Oy is established.

2018

Financial analysis, technology validation, material evaluation.

2020-2025

Continuous development of the technology and improvement of the current pilot plant. New collaborations, extensive validation with customers and first commercial applications.

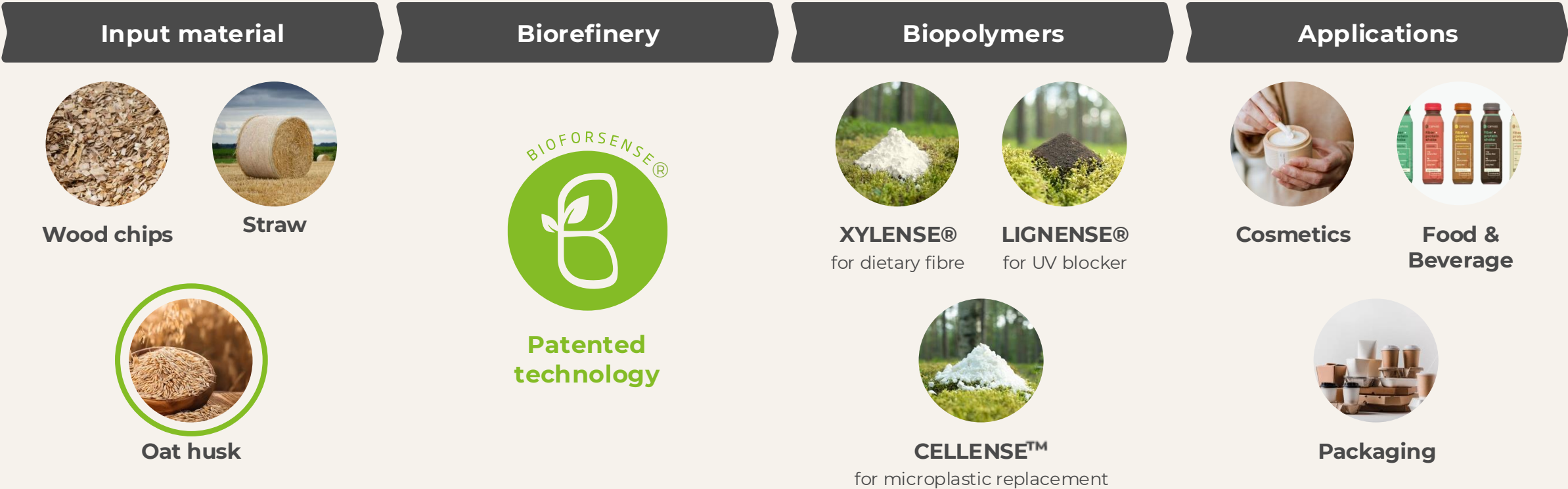
2029

The first mid-scale plant (capacity 20,000 tons/year) will be launched, marking the start of the company's future full-scale industrial phase.



From garage to global impact: BIOFORSENSE® redefining biopolymers







With BIOFORSENSE® technology, cost-efficient and sustainable biopolymers can be produced from **virtually any raw material**.



Sustainable, cost-effective biopolymers are a scalable alternative to replace fossil and food-based ingredients in everyday consumer products.

Powerful, renewable ingredients for product formulations

Three selected case studies

Biopolymers	Product formulations	Impact
 <p>Microplastics replacement</p>	 <p>Cosmetics</p>	Microplastics were fully replaced (100%) in cosmetics produced by our customer.
 <p>Dietary fibre increase</p>	 <p>Beverages</p>	Demonstrated a 140% increase of dietary fibre in the products.
 <p>Sustainability to adhesives</p>	 <p>Glues</p>	Enable the use of renewable biopolymers instead of toxic fossil-based polymers.

Bachelor's and Master's Theses under the FARKOS Project



Maatalouden sivuvirtojen biopolymeerit hiustenmuotoilutuotteiden innovatiivisina raaka-aineina

Katja Latvala

2024 Laurea



Kaurasta kosmetiikkaan - hemiselluloosan ihovaikutukset kosteusvoiteen emulgaattorina

Valtteri Luonsinen ja
Jenni-Mari Myllymäki

2025 Laurea





BIOFORCE®

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**MAKING THE WORLD MORE
SUSTAINABLE BY CONVERTING
WASTE TO HIGH VALUE**