



We turn seaweed into stretch fibres

Behind every garment lies a workforce of women whose labor sustains the fashion system — often without recognition or safety.

Nearly 60% of garment workers are women — 80% in Asia, where over 42 million sew, dye, and finish our clothes (ILO, 2023)



People have no idea how difficult it is for us to make the clothing.



Pictures from The True Cost Documentary, 2015

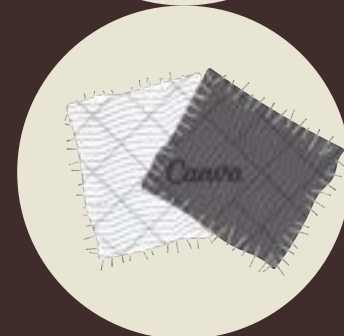
Elastane is everywhere – and it's one of fashion's most damaging fibers.



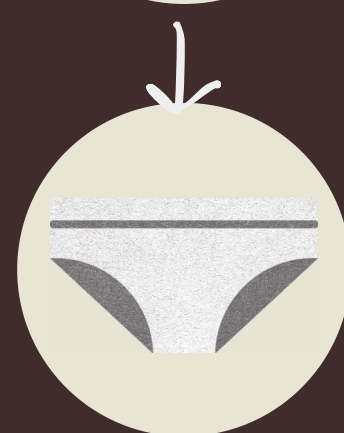
- Petroleum Dependency



- Energy-Intensive
- High Emissions
- Toxic Chemical Exposure



- Dyes used to color it – disperse and azo – are linked to allergies and carcinogenic compounds.
- Uses DMA, a reprotoxic solvent tied to miscarriages, infertility, and cancer in exposed women workers

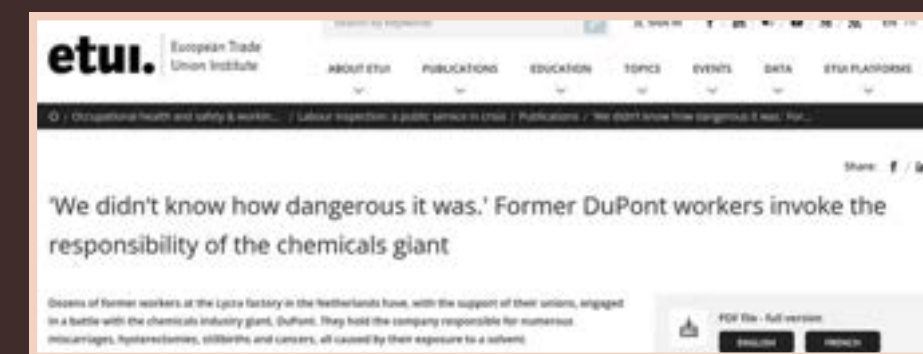


- Microplastic Shedding
- Consumer Health Risks

- The tight, hydrophobic fabric traps heat and chemicals against the skin, creating irritation and infection risks



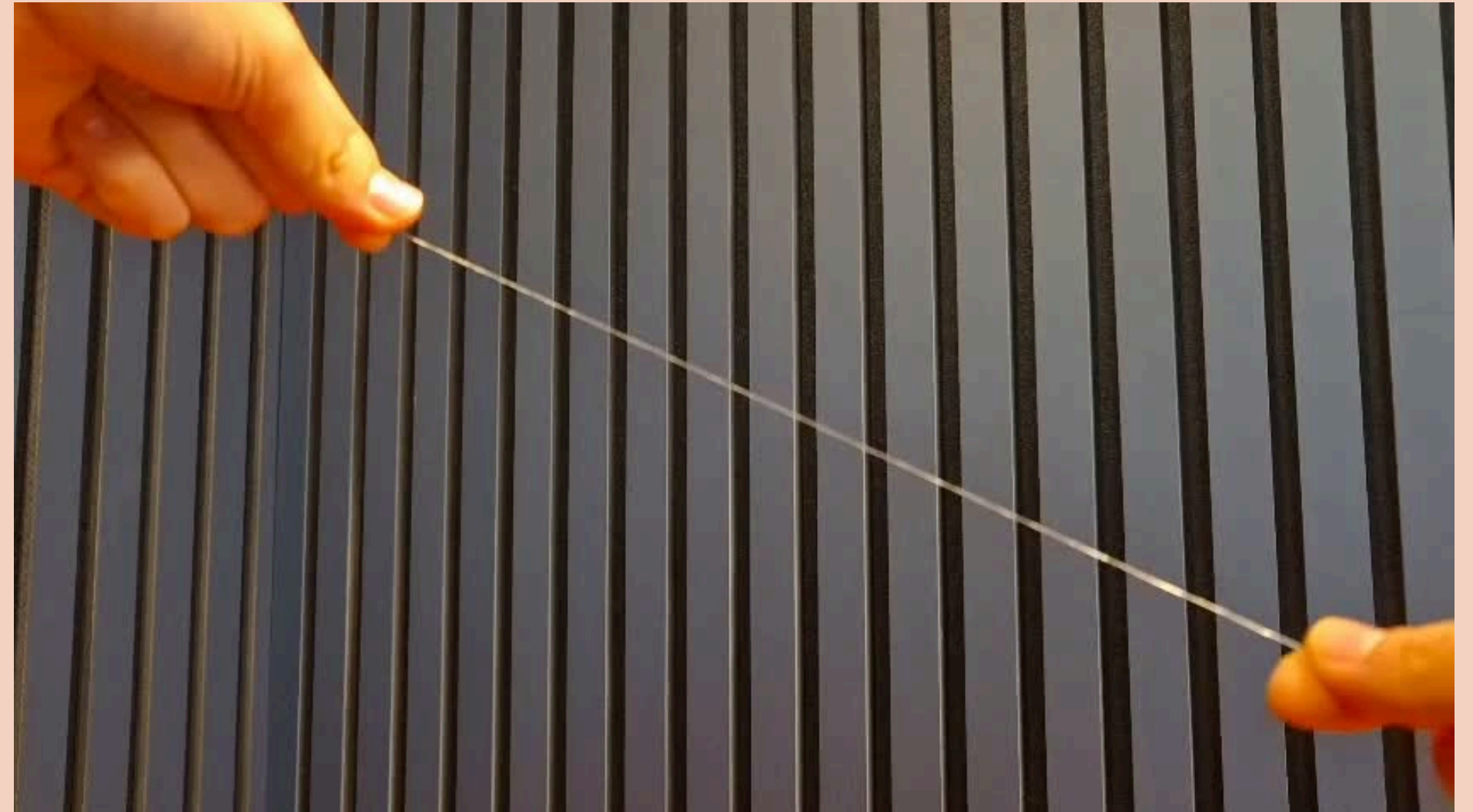
- Unrecyclable
- Landfill & Microplastics Persistence



Our Solution

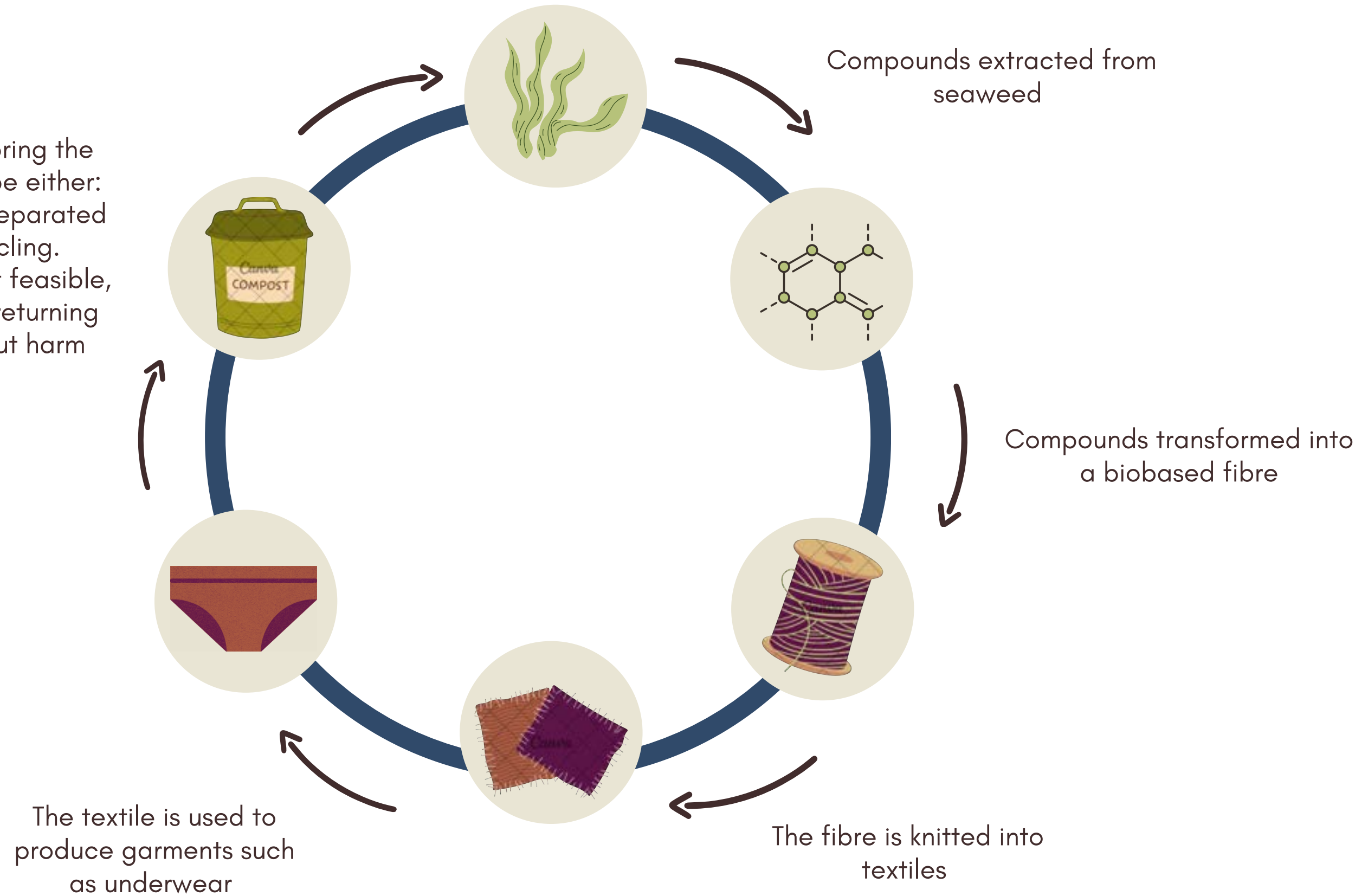


We're developing the first fully biobased alternative to elastane, using seaweed's natural stretch properties

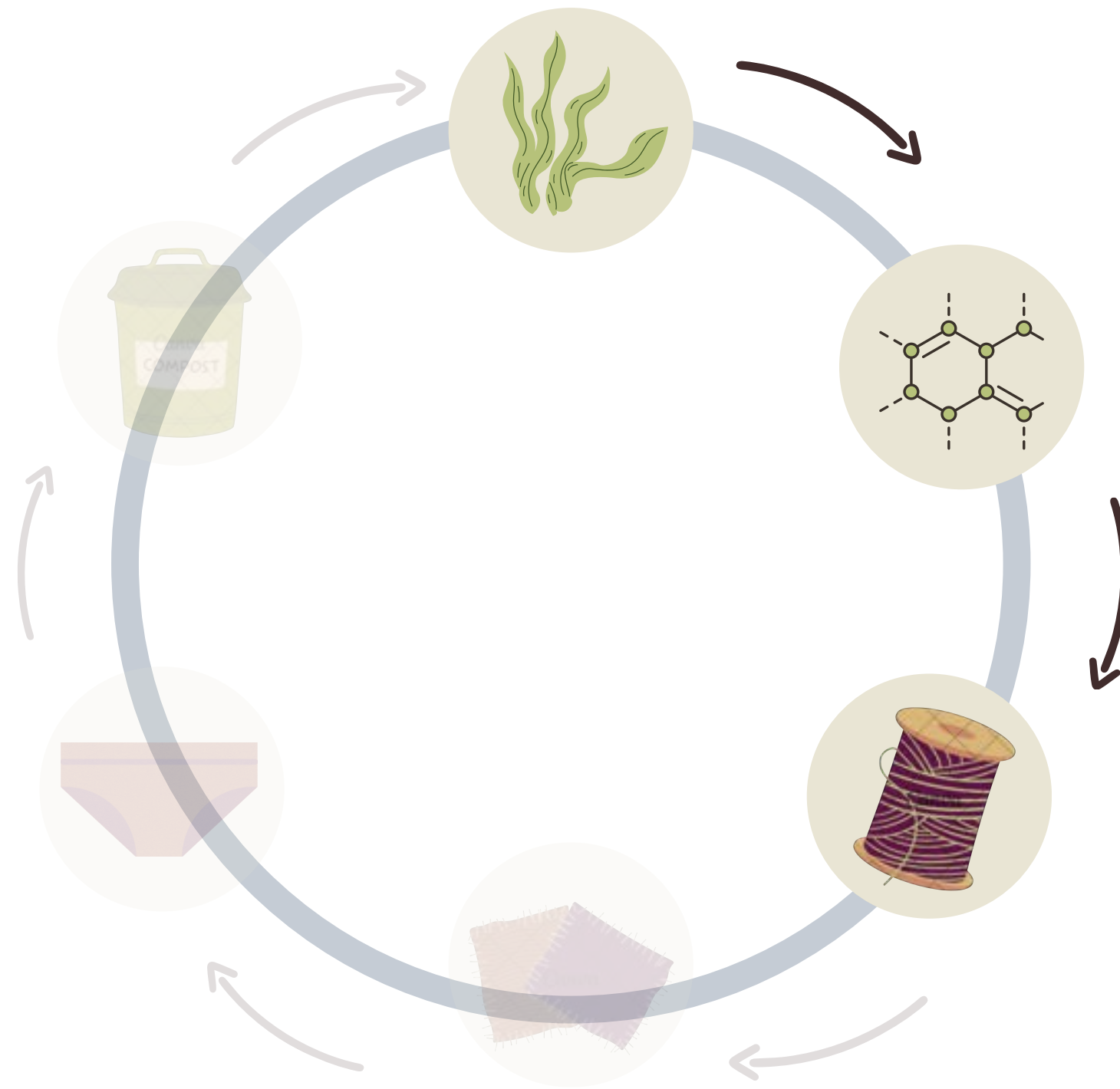


The Process

- After use, we are exploring the options for the fiber to be either:
- Disassembled and separated for material recycling.
 - Or, if recycling is not feasible, safely composted, returning to the earth without harm



Our Innovation



- No land, fertilizer, or freshwater needed to grow our feedstock.
- We've built a lab-scale wet-spinning process that mirrors industrial production.
 - We take extracted seaweed polymers and spin them into elastic fibers.
 - The process runs at low temperature and uses no toxic solvents.
- The resulting fibers can be woven or knitted like conventional elastane.

We're strategically entering valuable markets

Scale:
Global Elastane
\$9B

Performance:
Global Activewear
\$3B elastane use

Validation:
Global Underwear
\$2B elastane use

- High-performance textiles reward innovation.
- Prove durability & stretch recovery

- Closest to skin → comfort and breathability matter most.
- Low technical barrier, fast adoption cycles.

The Team

Jeanne - CEO

- Imperial MSc Environmental Technology with Business Focus
- Msc Thesis on Second Hand Clothing Imports in Kenya
- Working Experience and Growing Network in Sustainable Fashion



Lucy - CTO

- Imperial MEng Biomedical Engineering
- Award-Winning iGEM Team Leader representing Imperial College London
- Industry R&D experience and strong Bioengineering expertise



Undaunted

IMPERIAL



ukft[®]



May 2024 - Jan 2025: Customer Discovery & Strategic Pivot

- Joined **Undaunted Greenhouse Accelerator** with £20k grant funding, mentorship, office space and masterclasses
- Initial focus: bio-based polyester replacement
- Conducted **50+ interviews** across:
 - Medical wear
 - Sportswear & Footwear
 - Furniture, Luxury & Fast Fashion
 - Textile manufacturers & recyclers
- **Key insight: Elastane is the real blocker to circularity, specifically in underwear & sportswear**

““We want to go fully circular. But, elastane is stopping us”

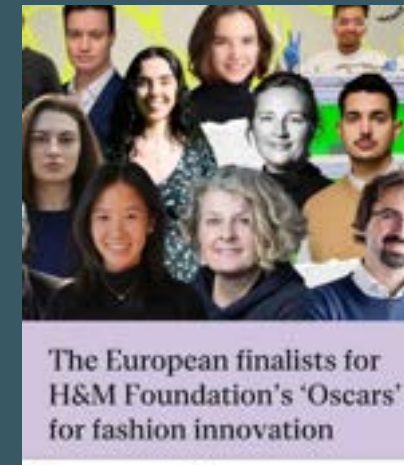
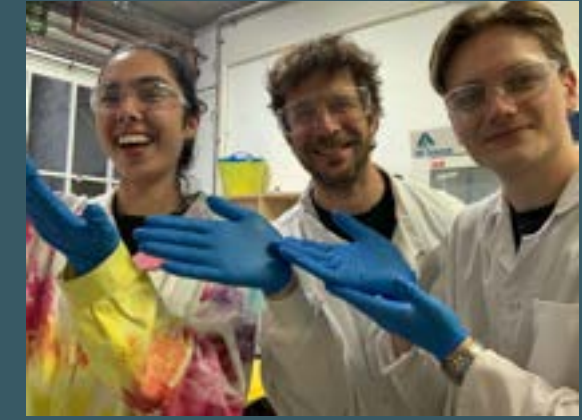
UNDERWEAR BRAND

“We need elastane but we want fully bio-based solution”

TEXTILE INNOVATOR

“Do you have a sample we can test, we’re desperate for it?”

TEXTILE MANUFACTURER



January 2025 - Now : Turning Demand into Development

- Focused on seaweed-based elastane replacement
- Trade shows: Europe (independently) + **Vietnam (with UKFT)**
- Ongoing conversations with **30+ brands & Manufacturers** including: Victoria's Secret and Stretchline
- **Top 20 Finalist** (out of 500) H&M Global Change Award

Go-to-Market



2025 - Validation

- Finalize lab-scale proof of concept under industry testing
- Strengthen seaweed supply & R&D partnerships
- Secure early brands and mills interest

2026 - Pilot Trials

- Industry-scale wet spinning pilot (funded and planned Q1 2026)
- Industry-scale knitting trials (our fibre in fabric)
- Performance tests (heat, wash, durability)
- Prepare pilot fibre batches for brand testing

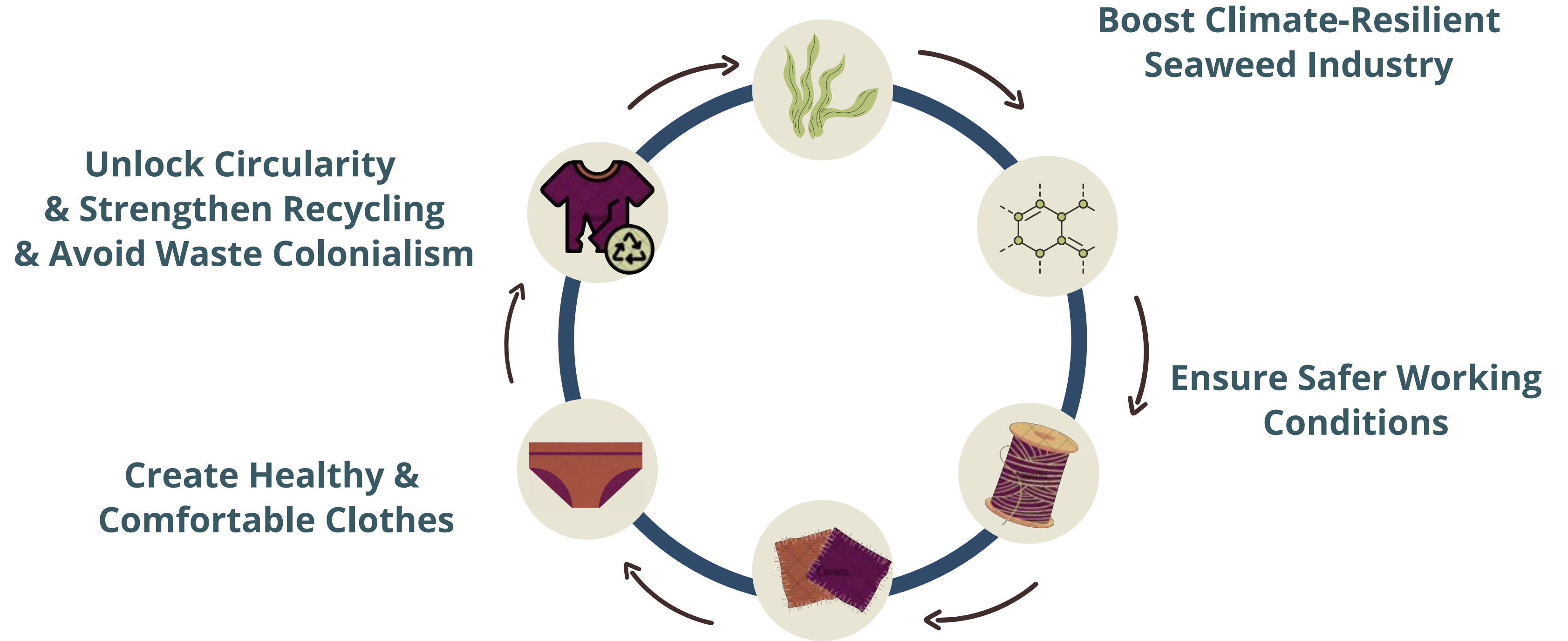
2027 - Market Entry

- Launch in UK lingerie with early brand partners
- Secure production partnerships to meet demand
- Achieve first revenue milestones & supply agreements

2028 - Scale & Licensing

- License model rollout to wet-spinners
- Expand into denim, activewear, adaptive clothing
- Broaden European & global footprint

The Vision





We turn seaweed into stretch fibres

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