

HeiQ AeoniQ™



The Circular High Strength Cellulosic Filament Yarn replacing Polyester & Nylon

**Carlo Centonze,
Co-founder HeiQ Plc.**

ITMF Annual Conference, Samarkand
September 2024





**Two years
ago I TALKED
at ITMF about
HeiQ's
ambition to
stop mankind
from wearing
OIL...**

***Two years later we started to WALK the TALK!
HeiQ AeoniQ™ - Sneaker Launch Hugo Boss July 2024***



An underwater scene with a teal background, showing various pieces of plastic waste like bottle caps and fibers. A large white infinity symbol is on the left. Two fish-shaped objects made of clear plastic are visible: one larger one above and one smaller one below.

Did you know?

- Clothing is a major source of plastic microfiber in the ocean and responsible for **35%** of it! ^[6, 7]
- By 2050, there will be more plastic in the ocean than fish ^[8]

More than 70% of textiles are made by Polyester & Nylon ∞



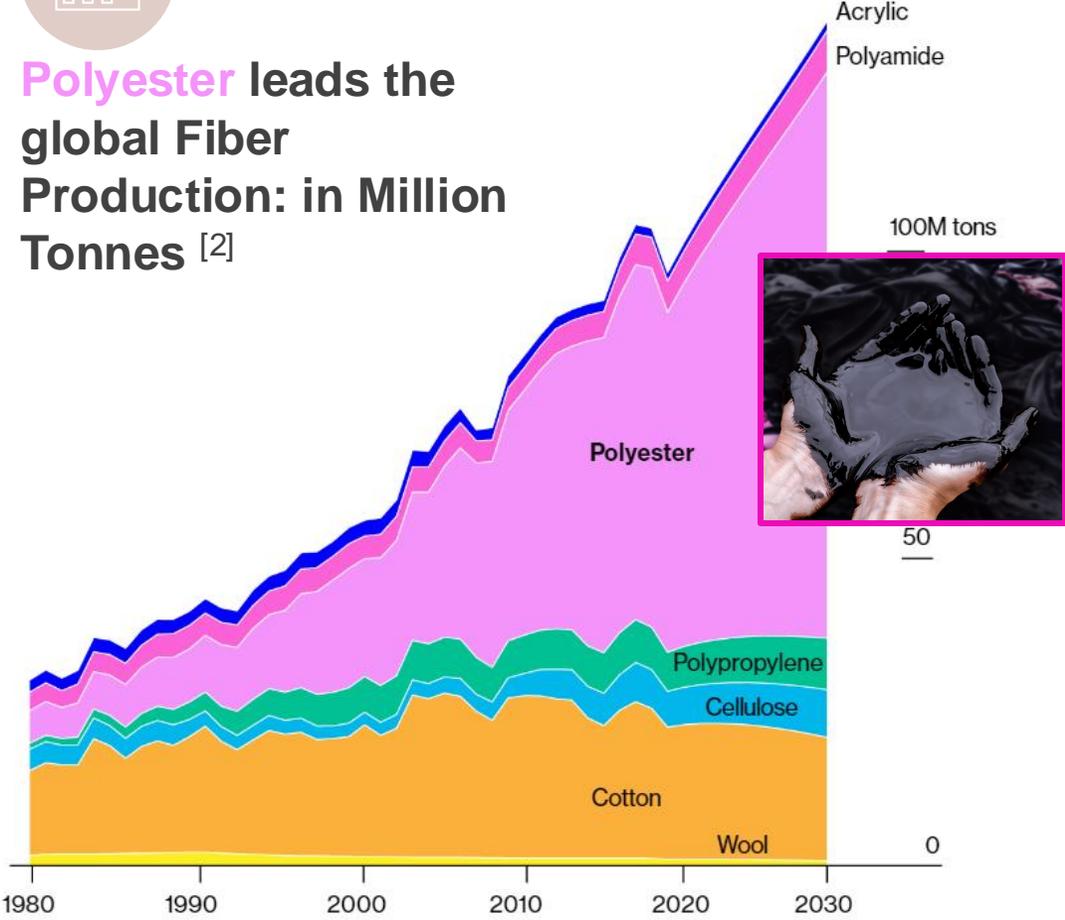
The Textile Industry is worth US\$ 1.7 trillion per year. Its growth can currently only be served by **Polyester** with 80`000`000 tons per year!



Polyester takes up to 1,000 years to fully degrade [5]



Polyester leads the global Fiber Production: in Million Tonnes [2]



We cannot produce more cotton and wool

➤

Growing population

- › Growing food demand
- › More arable land needed
- › Less land for cotton & wool

Source: Tecnon OrbiChem analysis

HeiQ AeoniQ™



Is it past 12?



HeiQ` s solution: The first nature-based fiber with the performance of a synthetic fiber...



A novel man-made **cellulosic fiber** suitable for **filament** and staple...



...based on a **benign HeiQ solvent system**...



...produced from **sustainable cellulose feedstock**...



...standing out for its **high tenacity, elongation** and **non-fibrillation**...



...enabling its **use across a broad range** of end market applications





HeiQ AeoniQ™, Performance USP 1, No fibrillation!

HeiQ AeoniQ™ Greige Fabric

- Heat Set 190°C/60s
- Scoured pH=9.5
- Reactive Dyed 85°C/40min



Lyocell Cellulosic Filament Greige Fabric

- Heat Set 190°C/60s
- Scoured pH=9.5
- Reactive Dyed 85°C/40min

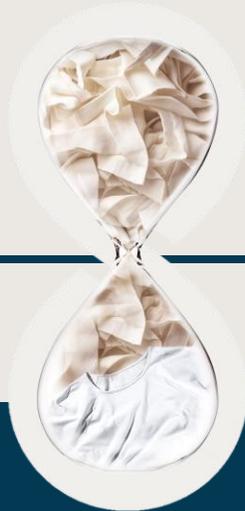




... replacing wood pulp with sustainable feedstock...



2026



Textile Waste Upcycled Cotton

- Partnership with leading global feedstock providers secured
- Closed loop recycling with textile waste validated
- Yarn production validated

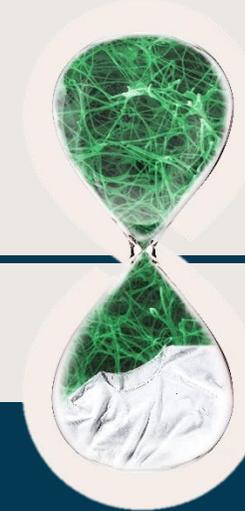
2027



Agri-Waste Extracted Cellulose

- Partnership with leading global feedstock providers established
- Cellulose extraction process validated
- Preparing fiber and yarn spinning validation for different feedstock sources

2028



Food-Waste Bacterial Cellulose

- Pilot Plant in Switzerland operating
- Production of highest quality cellulose production validated
- Fiber spinning validated
- Enabling for economies of scale

...giving HeiQ AeoniQ™ a unique sustainability profile...



Superior
sustainability profile

**Lowest CO₂
footprint in
textile industry**

>50% lower lifecycle CO₂ emissions versus polyester and viscose, enabling Scope 3 science-based carbon credit generation

**100% Waste-
based
feedstock**

Sustainable cellulose feedstock sources such as textile and not valorized agricultural/food waste

**Eternally
recyclable**

Uniquely recyclable as cellulose is not degraded, AeoniQ™ textile **waste** can be used as **feedstock for MMCF's**

**100% Bio-
degradable**

Fully biodegradable in only 12 weeks vs. up to 1000 years for polyester & 24 weeks for cotton (HeiQ AeoniQ™ biodegradation experiment)

**Safe & benign
solvent**

Safe solvent with benign property profile compared to NNMO viscose and lyocell production, enabling higher process safety & recovery

HEIQ AEONIQ

Eternal circularity

From Nature

For Nature



Market Validation



HeiQ AeoniQ™ X Hugo Boss "THE CHANGE" Inception 2023



matberrettini 
matberrettini · Original audio



Hugo Boss x HeiQ AeoniQ™ Sneaker Launch July 2024

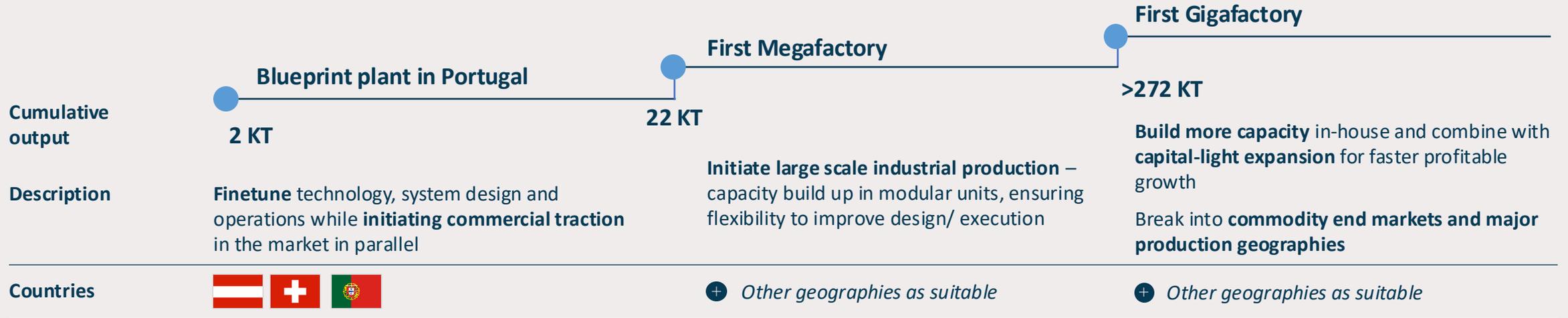


**Enabling for
scale**





HeiQ AeonIQ™ - Time to Market – Next Steps



Timeframe

2026

2028

2030+

Our goal for the next 2 years:



- Rapidly build blueprint plant in Portugal
- Initiate further industrial global scale-up



HeiQ AeoniQ™ Portugal Lda, 2026, 2kto Plant



2k tons per year*

150dtx/76 f and 75dtx/46 f

First Commercial Blueprint Factory



Timeline for renovation & plant commissioning

Building and land acquisition completed; completion of financing end of Q4/2024; project kick-off on site in Q3/2024; project timeline from kick-off to commissioning: 24 months;

*nameplate capacity based on 150 dtx average

Champions league team with deep textile know-how...



Julien Born,
Chief Executive Officer

Former CEO of The LYCRA company
20+ years experience in textiles cultivated in prestigious organizations



Dr. Enrique Acero,
Chief Technology Officer

PhD in Biotechnology at TU Graz
10+ years experience in textiles with focus on R&D and Innovation



Robert van de Kerkhof, Board Member HeiQ and Chairman HeiQ AeonIQ Holding AG

30+ years experience in textiles, management and sustainability in prestigious organizations



Carlo Centonze, Co-founder & Group CEO HeiQ

Co-founder and Group CEO of HeiQ with 20+ years experience in materials
Chairman of the Board of ECSA Chemicals



Carmen Danner, Director Business Development

20+ years experience in leading roles in apparel, lifestyle & hometextiles with focus on strategic business and collection development



...and seasoned experts in industrials scale-up.



Martin Gebert-Germ,
Chief Operations Officer

25+ years experience in textiles with focus on production and application technology management



Christian Dressler,
Upscaling Specialist

Former VP Global Engineering at Lenzing, responsible for execution of CAPEX projects globally
~30 years expertise in textiles and cellulose fibers



Dominic Renggli,
Lead Engineer HeiQ

PHD in Materials Science at Deakin University on fiber applications
Multiple years of experience as chemical laboratory technician



Geoffrey Hietpas,
Technical Consultant THE LYCRA COMPANY

PhD in Physical Chemistry
VP of Market Development and Innovation
25yrs Exp. in Fiber and Textile Science
Named Inventor on >20 patent filings



HeiQ AeonIQ™ - Financial Series A+

HeiQ has engaged leading Consultant Firm & Investment Bank to raise high double digit \$ million Series A+ during Q4 2025

HeiQ is looking forward for welcome interested partners to share this exciting investment opportunity, join today's leading investors & partners:

- Est. EBITDA margin 2028, > 30%
- Addressable Market 2030: > \$ 10bn
- Total Market 2050: > \$ 100bn



Thank You!



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