




Microorganism-based cellulose materials for a sustainable future

2025

Spin-off
ETH zürich

 **W.A. DE VIGIER**
STIFTUNG SINCE 1987 Winner 2024

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Innosuisse – Schweizerische Agentur
für Innovationsförderung

 **swissnex**

Zürcher Hochschule
für Angewandte Wissenschaften
zhaw

 **OST**
Ostschweizer
Fachhochschule

 **BH**
Berner
Fachhochschule

Harmful Materials, Rising Regulations



ESCALATING POLLUTION CRISIS:

Plastic pollution projected to TRIPLE by 2060

CONTAMINANTS IMPACT ENVIRONMENT & HEALTH:

Microplastics, toxic substances & PFAS

INCREASING REGULATORY BURDEN: REACH, PPWR, ETC.

SHIFTING CONSUMER EXPECTATIONS

Pressures drive market transformation
towards circular materials

Mission & Vision

Mission

Replace **harmful and polluting materials** by enabling **bio-based, fossil-free alternatives** using **microorganisms**



Vision

Create materials for
a better life

Bacterial Nanocellulose - an emerging alternative

Non-toxic

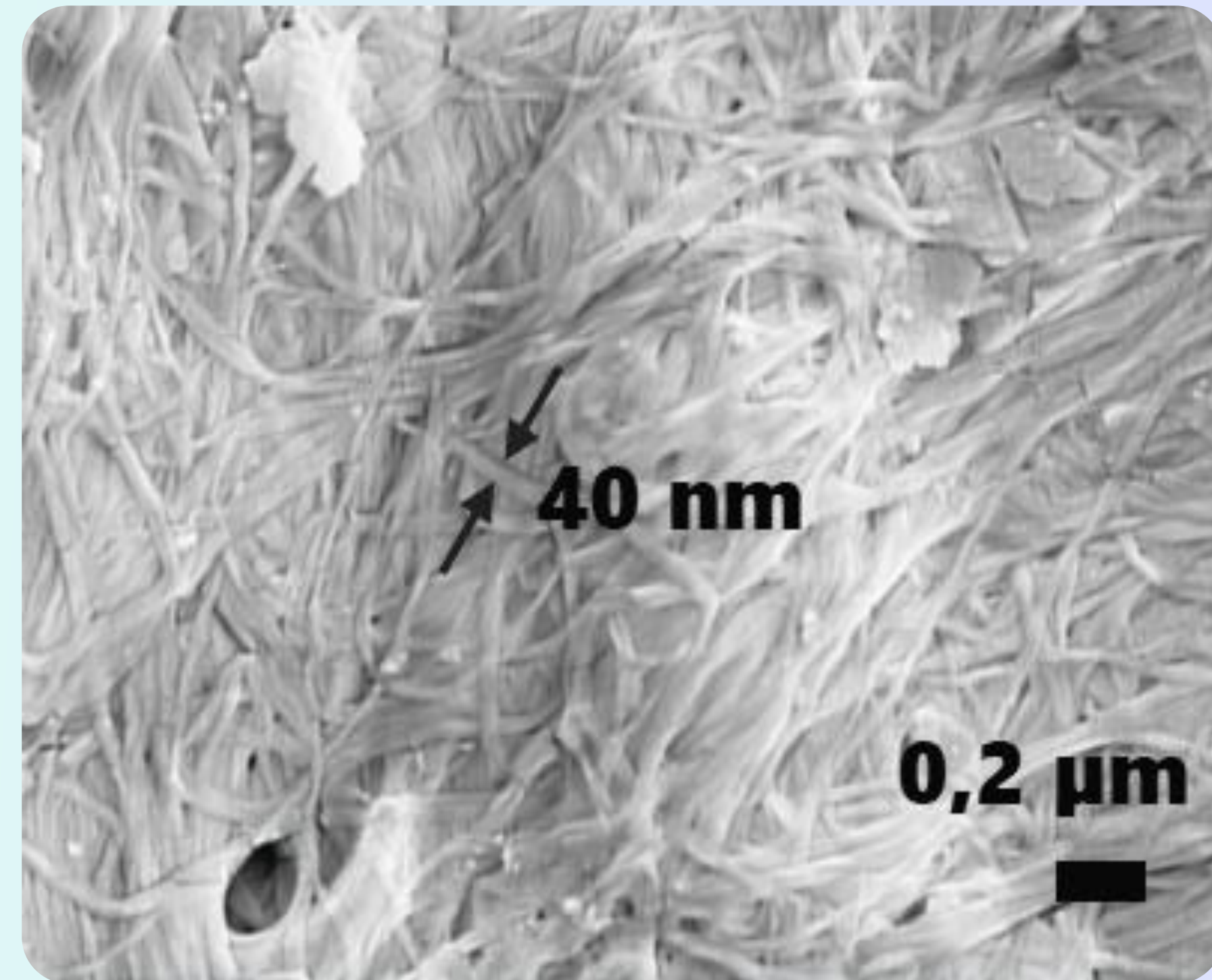
Biodegradable

High mechanical strength

Bio-reactive surface

Purity

Solvent-free modifiable

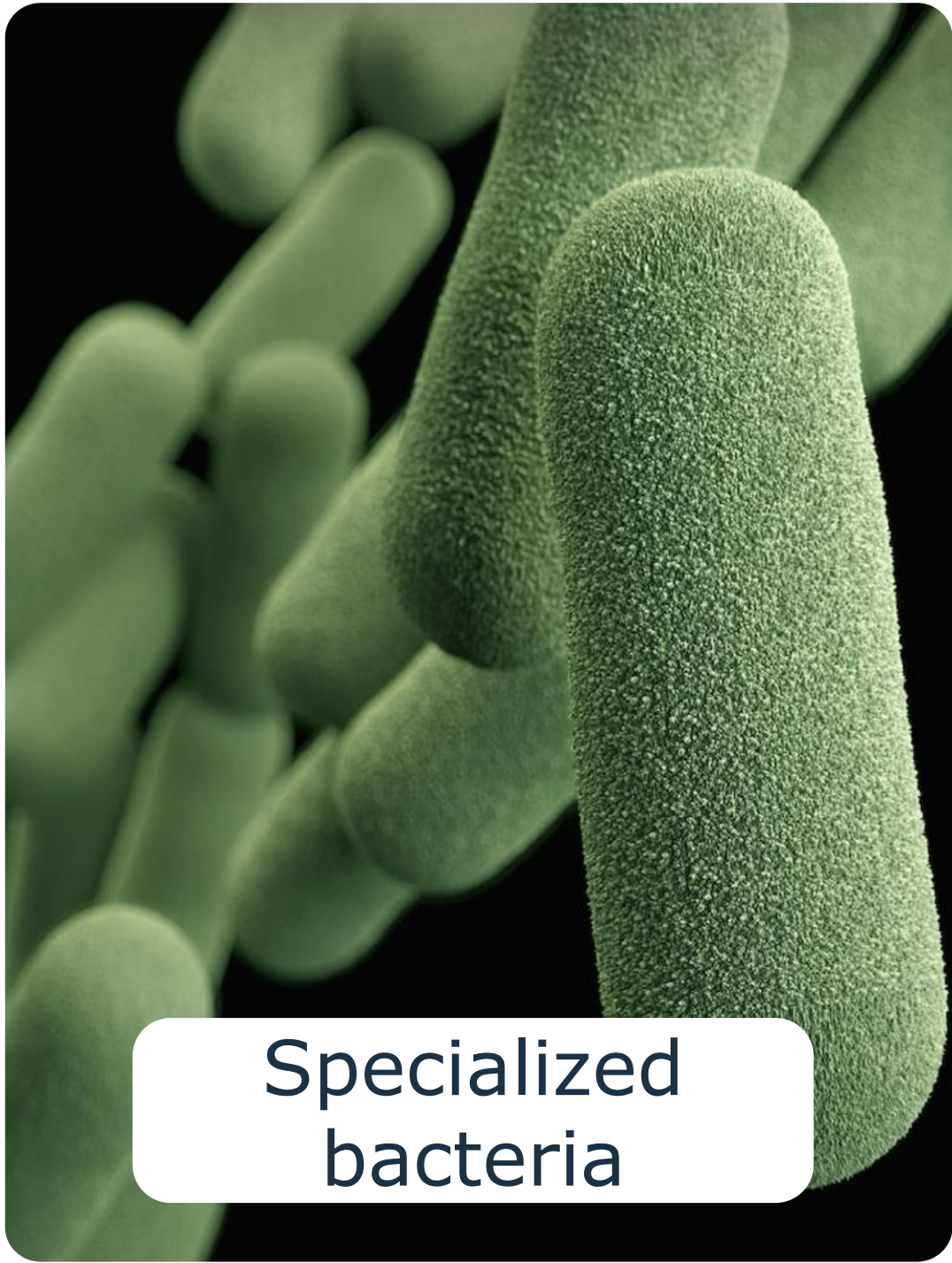


Growing Materials with Microorganisms



Organic side-streams

Circular



Specialized bacteria

Tree-Free with 80% Less CO₂



Bacterial nanocellulose

Plastic- & Fossil-free



Nanocellulose Gel

Multi-purpose

Treeless Product - One Platform, Many Applications

Reinforcement agent

Stabilizer

Binder

Coating agent

Rheology modifier

Crack prevention

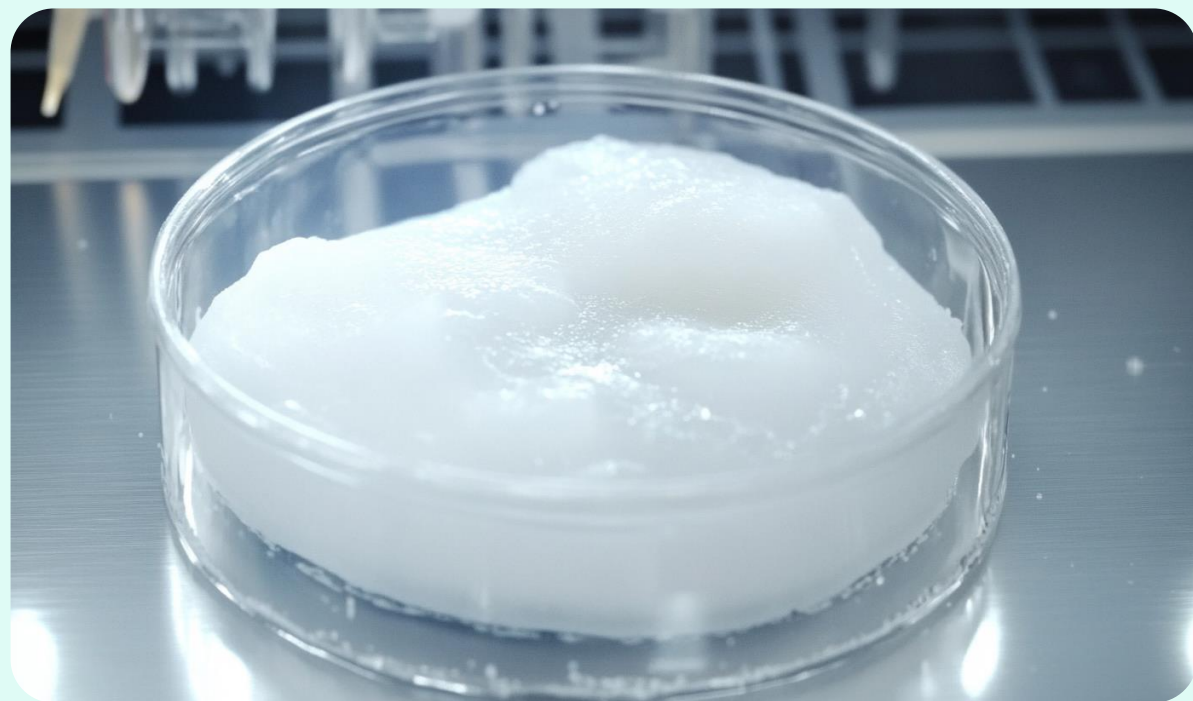
Sedimentation
prevention

**TREELESS NANOCELLULOSE:
SUSTAINABLE INNOVATION ACROSS INDUSTRIES**



Go-to-Market

We start where our technology wins fastest



 **treeless**
Nanocellulose Gel



COSMETICS



ADHESIVES



ADVANCED COMPOSITES



COATINGS

ENTRY MARKETS

EXPANSION MARKETS

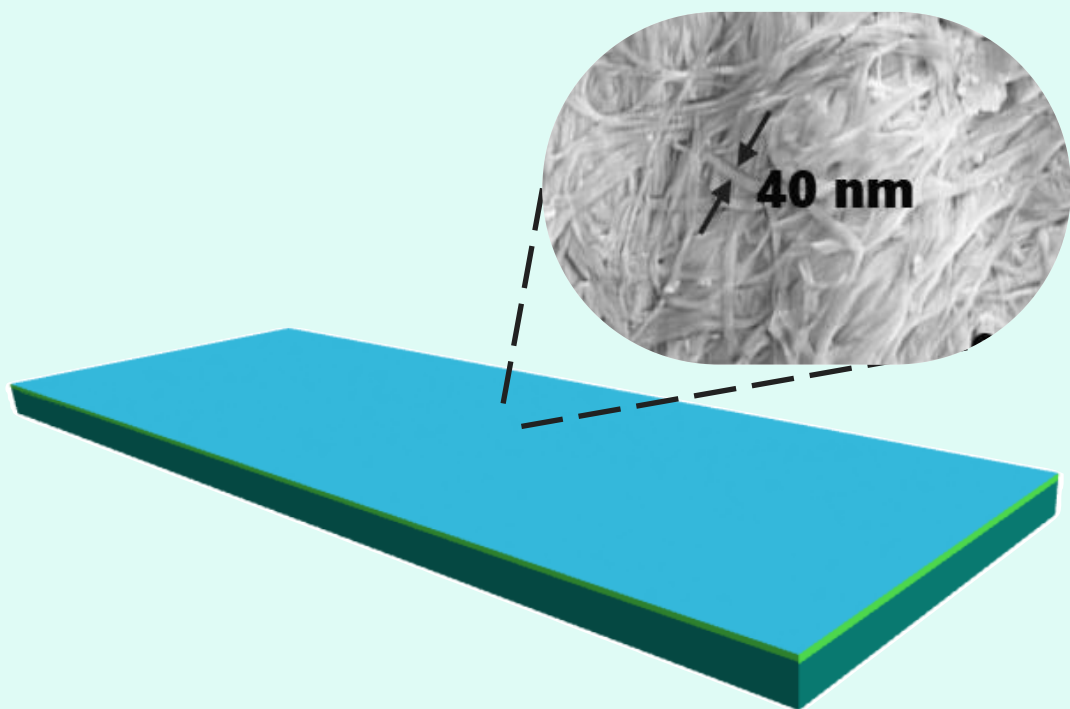
Easy integration into water-based systems

Strong sustainability & regulatory push

CH rich in SMEs with specialty products

Longer development cycles: grants

Examples of Treeless Applications



**RECYCLABLE BARRIER
PAPER PACKAGING**



**PLASTIC-FREE
BAGS**



**RECYCLABLE & FOSSIL-FREE
WOOD COMPOSITES**



**SUSTAINABLE
ADHESIVES**

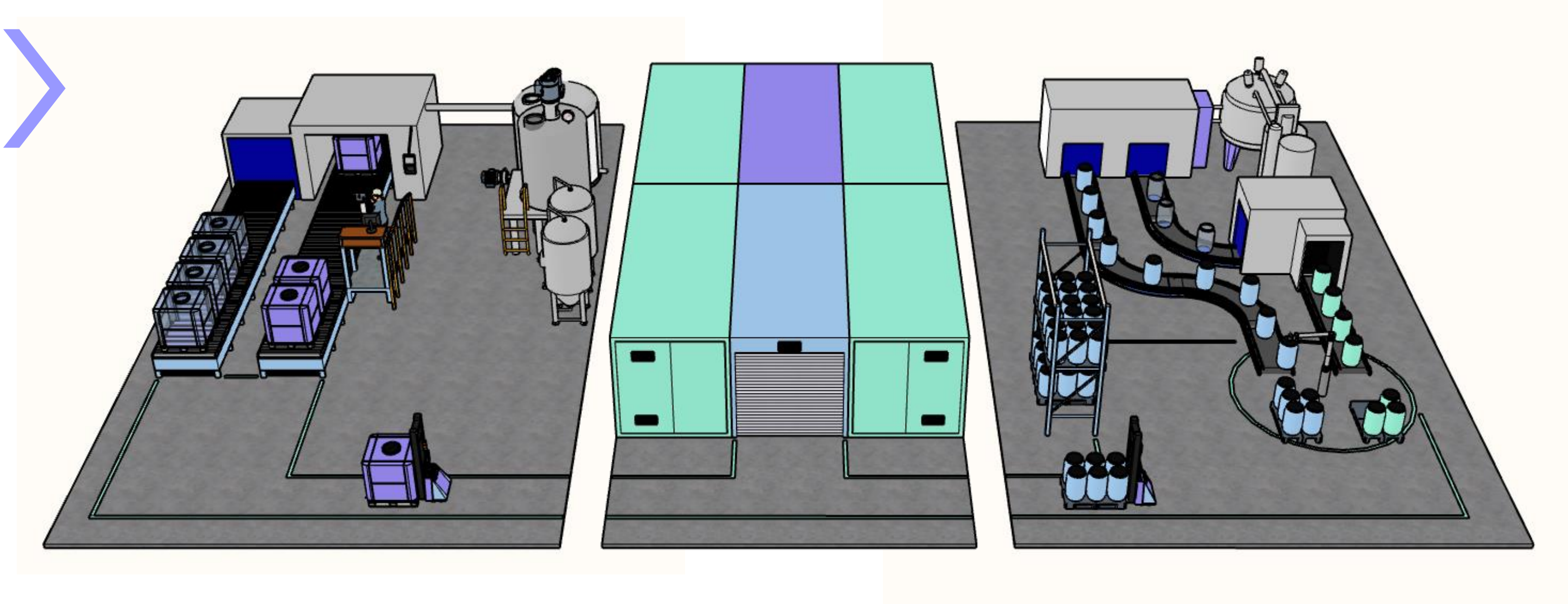


**SUSTAINABLE
COSMETICS**

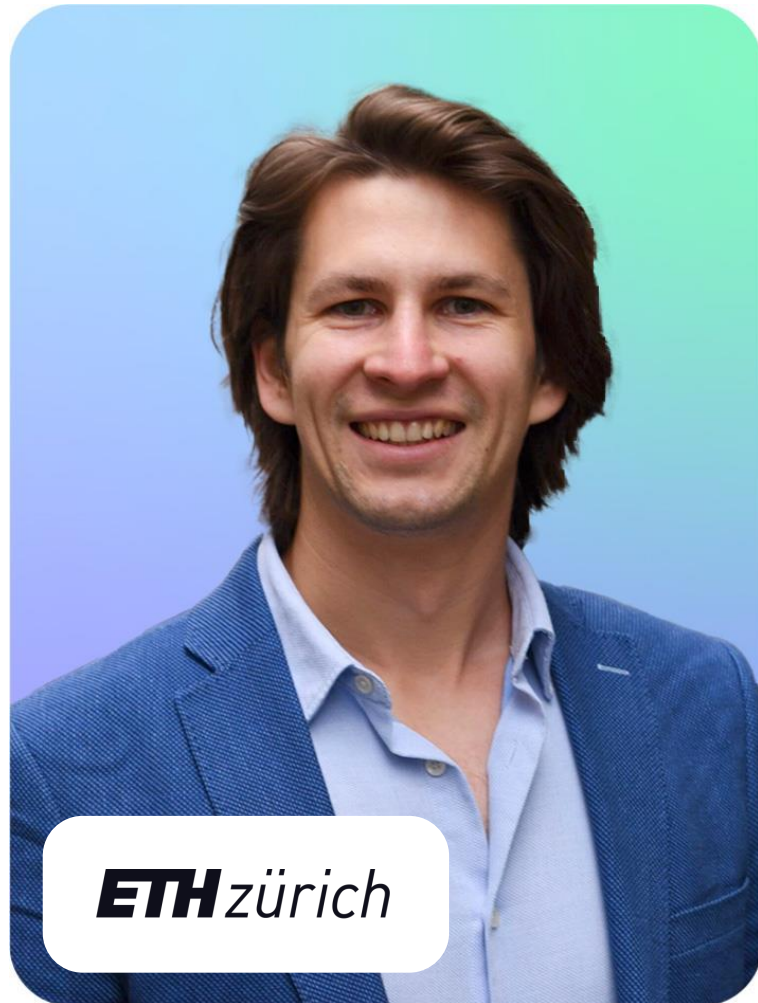
Scaling with Modular Production



Our current pilot production platform in Zurich



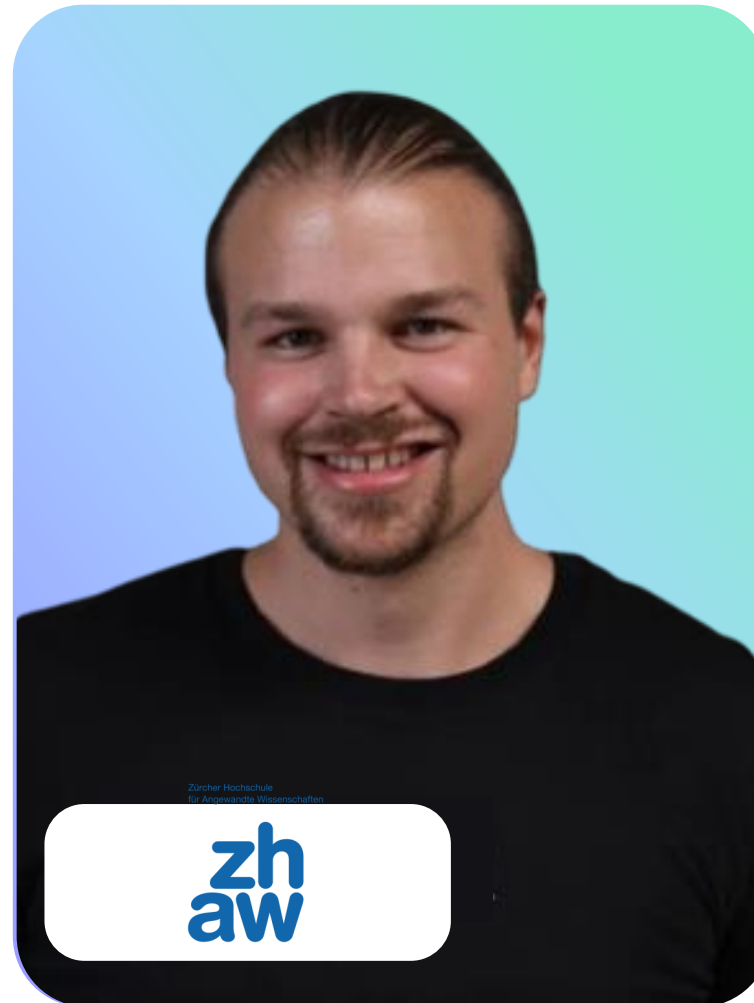
Team



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NETWORK OF SPECIALIZED COLLABORATORS



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Let's grow together!

Empowering industries
with a local, sustainable, high-performance
biomaterial supplier





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Create materials for a
better life

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