

dimp^ora

SUSTAINABLE PERFORMANCE



INSTITUT FÜR WERKSTOFFTECHNIK
UND KUNSTSTOFFVERARBEITUNG

#LEAVENOTRACE

Our reason for being

Is **science**-based

FACING THE **PROBLEM**

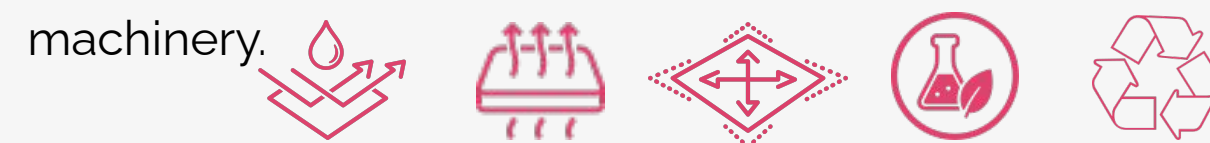
- The outdoor wear industry relied on **fluorinated chemicals (PFCs)**: waterproof properties.
- Research shows PFCs are toxic, cannot be broken down, and are released into nature during regular garments use.
- Limitations with existing processes & technologies
- Regulators are demanding changes. The **industry needs alternatives**.



dimpora

PROVIDING THE **SOLUTION**

- Anna & Mario founded dimpora based on patented research work at ETH Zürich.
- **Membrane production process radically redesigned**. Pushing the limits of membrane tech. No harmful chemicals involved.
- **Fluorine-free** microporous membrane with **no compromise on performance**.
- **Ready-to-market** solution. Plug and play for existing production machinery.



Our technology

How does it work?

1

WE MIX THE
POLYMER &
MINERALS



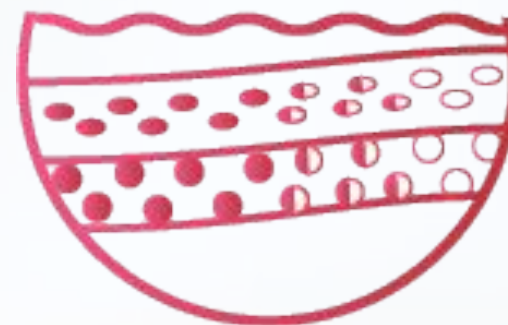
2

WE MAKE A
THIN FILM
WITH THE MIX



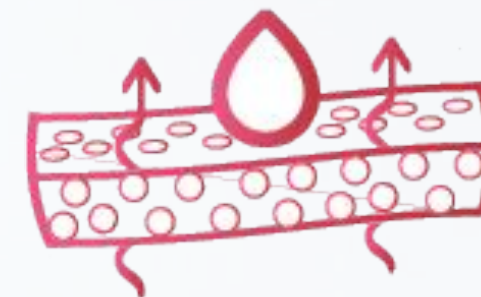
3

WE **WASH** THE
MINERALS OUT



4

MEMBRANE
IS **READY**
WATERPROOF
& BREATHABLE



5

MEMBRANE
IS **GLUED**
BETWEEN 2
FABRICS

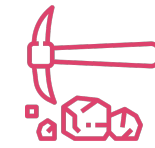


Our membrane

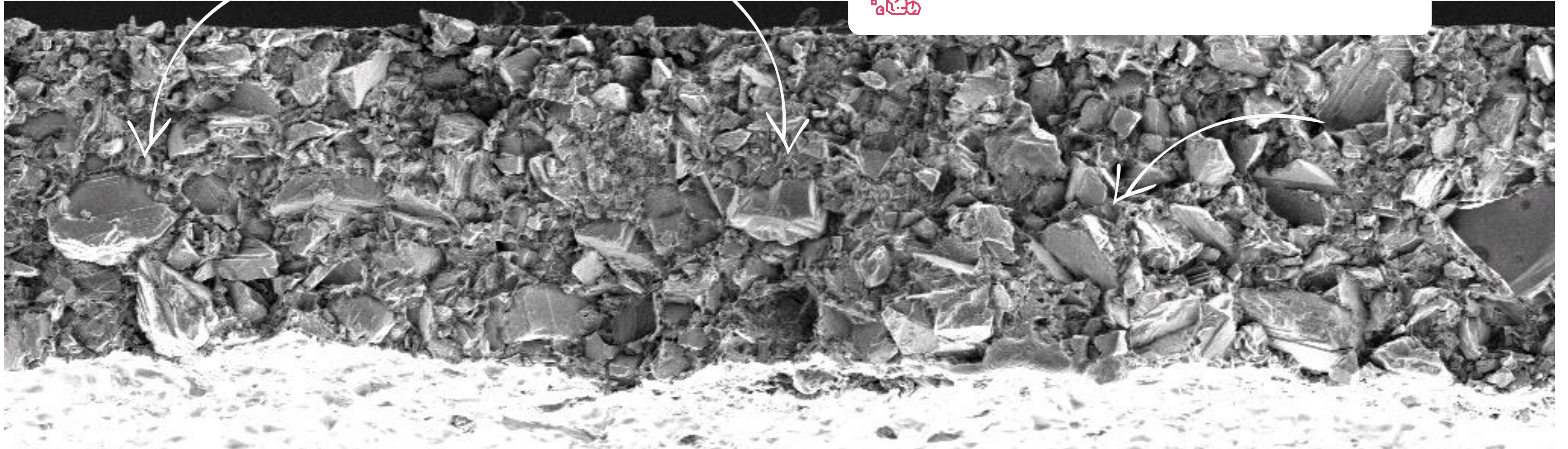
before washing step



Microscopic cross-section of our membrane



Mineral particles are inside the polymer



Our membrane

after washing step

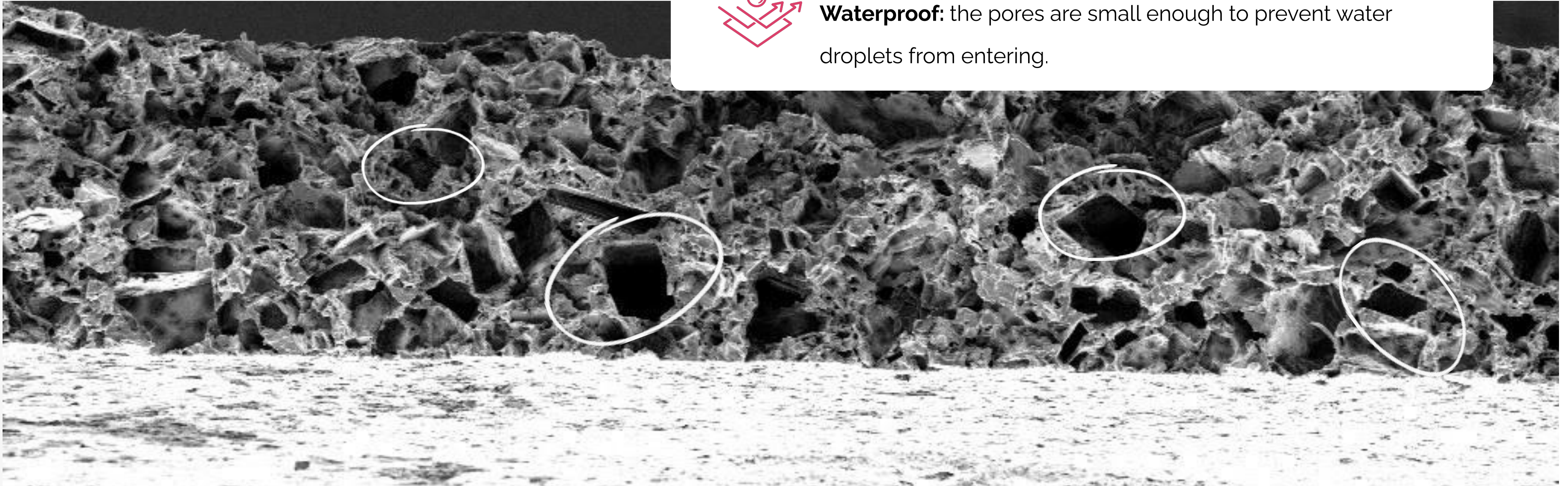
Minerals have been removed. Now the membrane is porous:



Breathable: pores are big enough to allow perspiration, evaporated by the body, to diffuse.



Waterproof: the pores are small enough to prevent water droplets from entering.



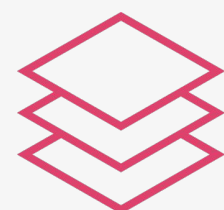
Our new technology is a big playground

and it's **a lot of fun.**



BIO-BASED

We are developing a bio-based membrane.



MONO MATERIALITY

We prototype mono-material 3-layer fabric.



BIO DEGRADABLE

We are researching biodegradable membranes.

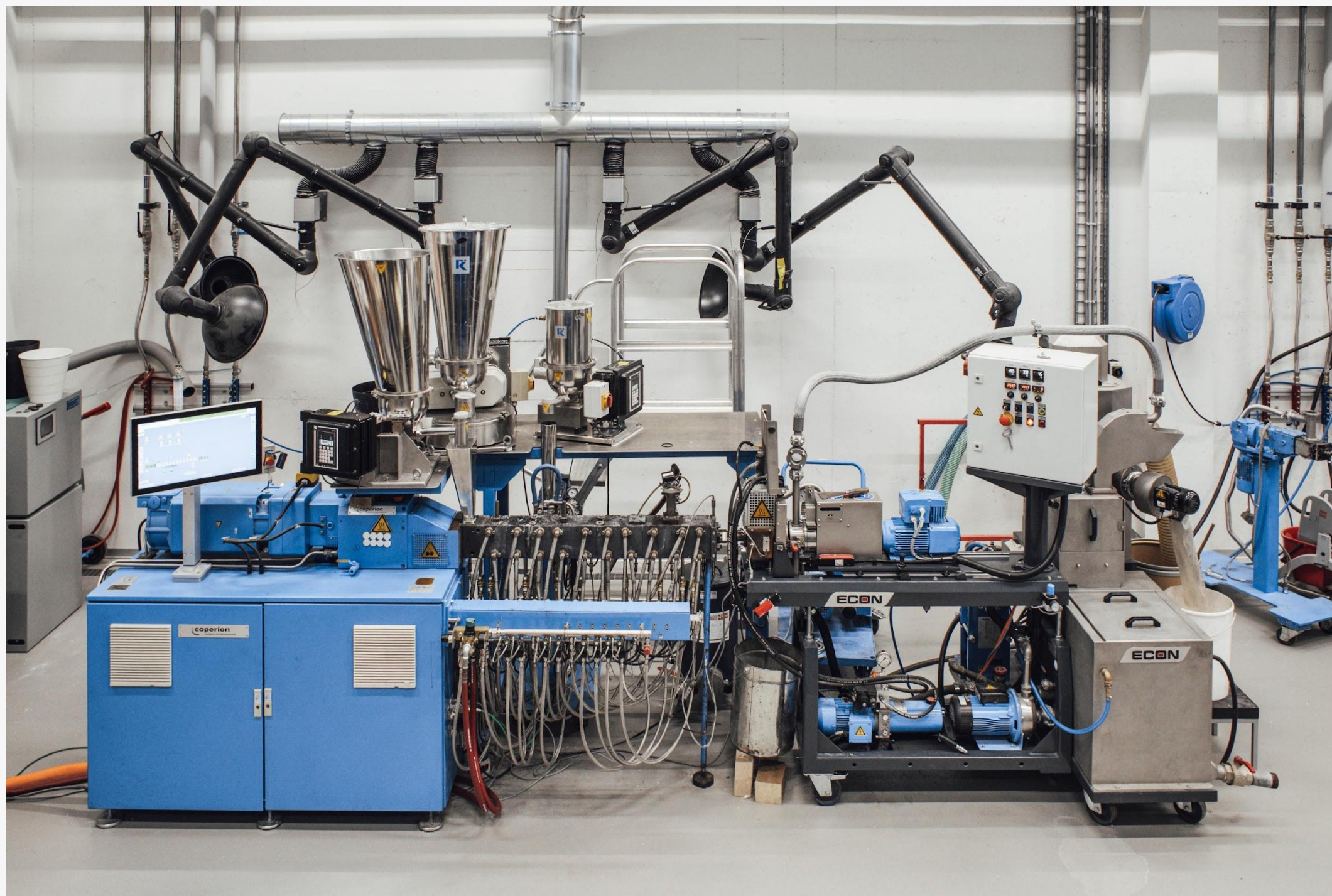


3D MEMBRANES

We test 3D membranes with brands.

Innosuisse – Sane Membrane

Partners



iwk INSTITUTE FOR MATERIALS TECHNOLOGY
AND PLASTICS PROCESSING

dimp^ora

**Innovation project
supported by**



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

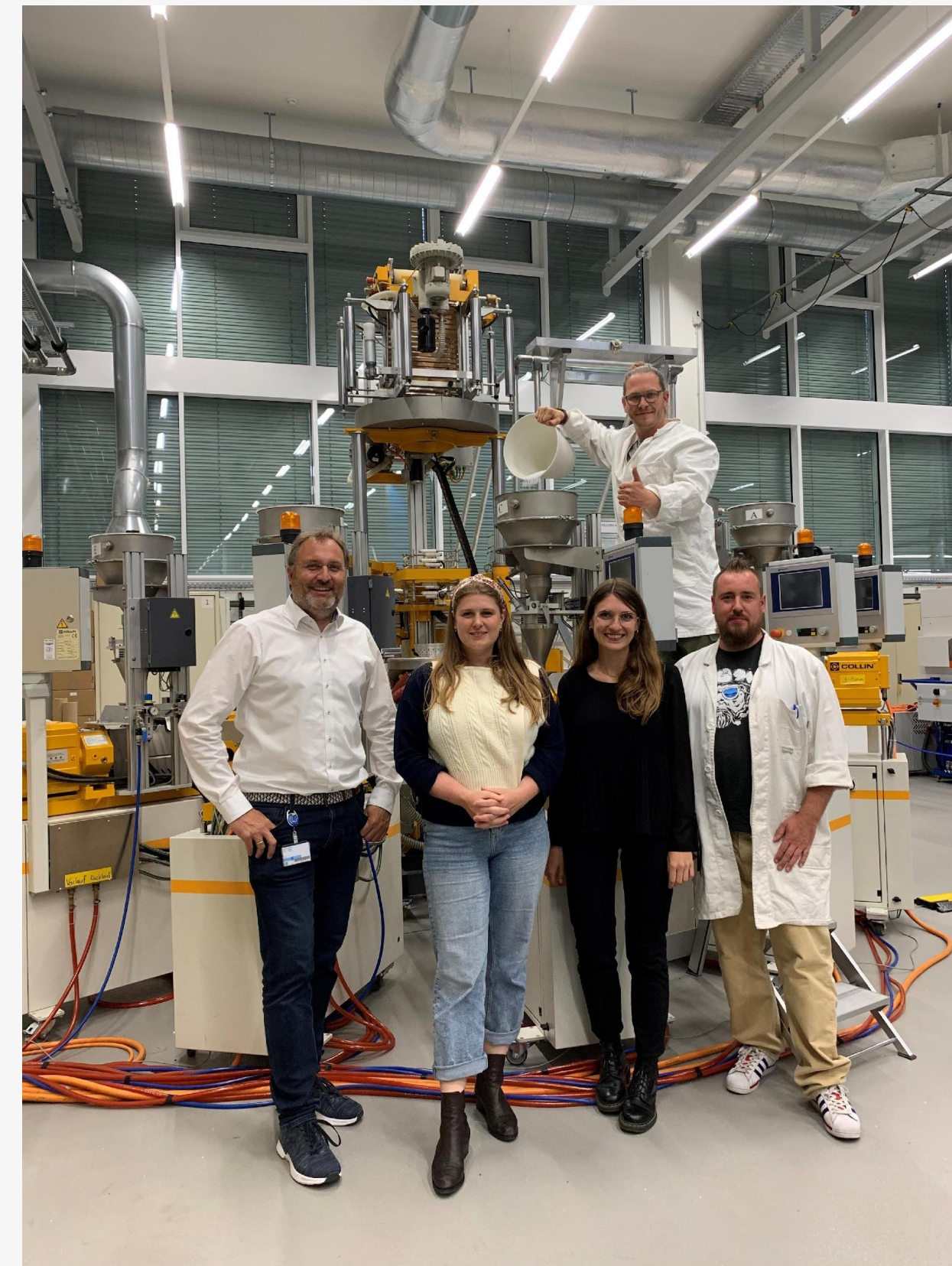
Innosuisse – Swiss Innovation Agency

Innosuisse – Sane Membrane

Blownfilm extrusion at IWK

5-Layer Blown film line

Blown film extrusion on a laboratory scale for recipe and formulation development, trial purposes and pilot runs



Case Study

Snowlife & state gate process

• Testing

Membranes were extensively tested in the laboratory.

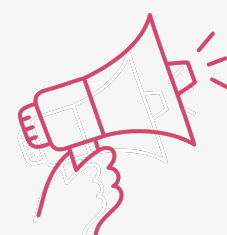
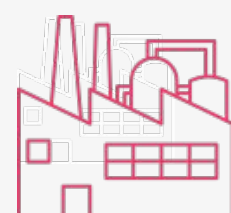


2. Prototyping

The customer creates a prototype & tests it on the Swiss ski slopes.

3. Production

Full-scale production starts.
Delivered on time.



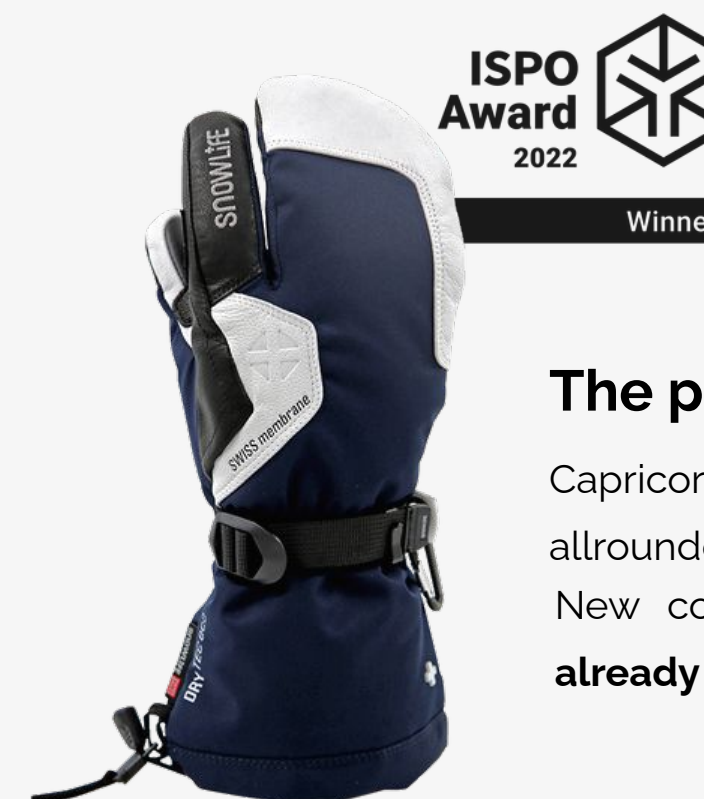
4. Mkt. & Sales Support

Product launch is prepared in close cooperation. As the high-performance membrane adds value for innovation & sustainability, it is visibly branded for the customer.



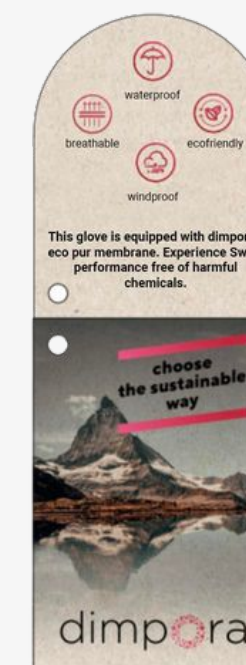
5. Award winning product

ISPO Award 2022 winner: Snowlife
Capricorn DT Eco 3 finger &
dimpora Eco Pur membrane



The product

Capricorn DT Eco glove winter
allrounder in **over 150 shops**
New collection for **2023**
already confirmed



Marketing support

Hangtag with QR-Code
[Landing page](#)
POS poster
Newsletter/homepage
Social Media

Innosuisse – dimpora

Full offer

Innovation project supported by



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Innosuisse – Swiss Innovation Agency

Innosuisse Coaching - Initial to Scale-Up

Bridge Funding

Market Validation & Entry Camps

International Fairs

Patent searches



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Swiss Confederation
Innosuisse – Swiss Innovation Agency

LET'S
TEAM UP
AND
#LEAVENOTRACE

