

CITY, DATE

# More than a Membrane

sympatex®



A photograph of a residential street completely inundated with brown floodwater. On the left, a two-story house with white-rendered walls and several windows is partially submerged. To its right, a row of stone houses is also visible. In the middle ground, a white car is almost entirely underwater, with only its roof and the tops of its windows visible. A yellow tarp or umbrella is partially submerged on the right side of the frame. The sky is overcast and grey, and bare trees are visible in the background. The overall atmosphere is one of desolation and the aftermath of a natural disaster.

Tragedy rules everything  
around me.

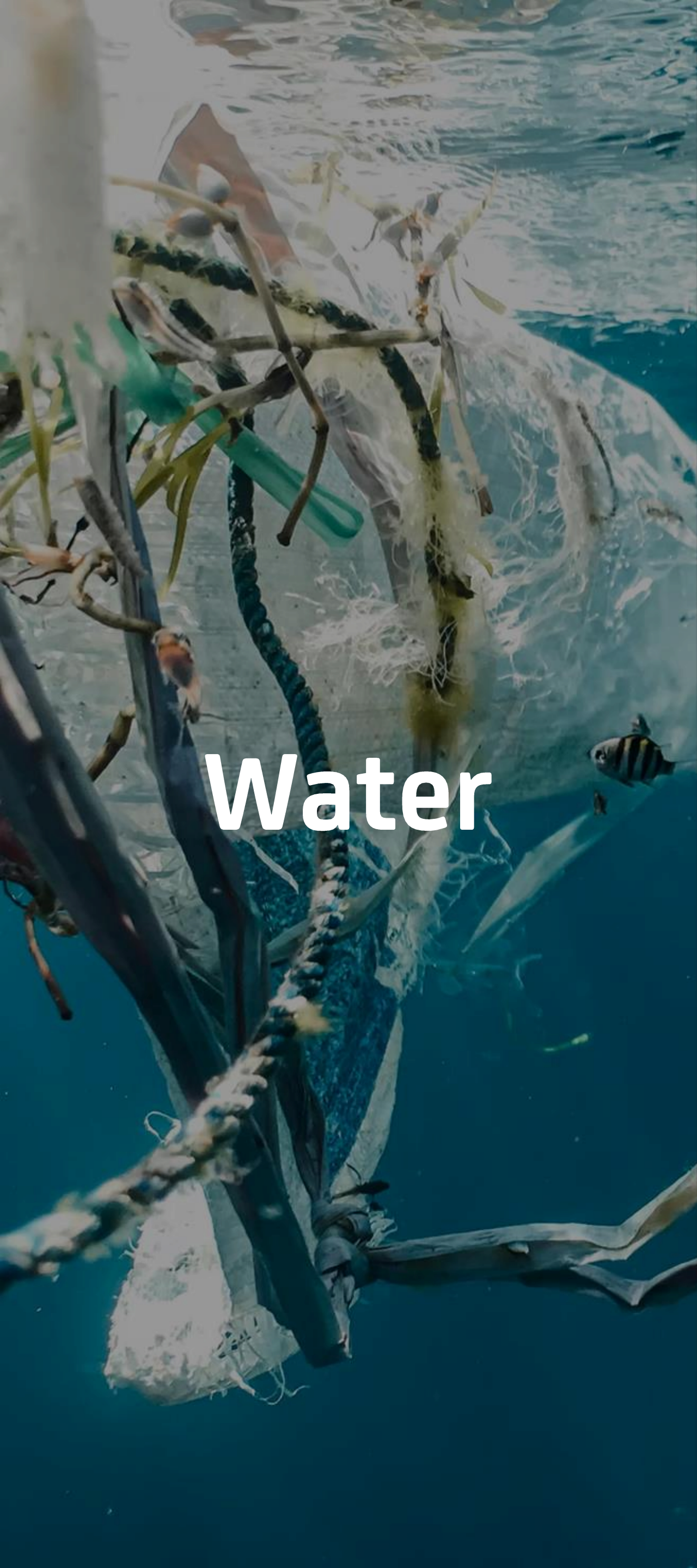




Earth



Fire



Water




Air



A close-up, slightly off-center portrait of a woman with long, light brown hair. She is wearing a dark green, hooded jacket with a textured, possibly technical fabric. Her hair is blowing in the wind, partially obscuring her face. She has a slight smile and is looking towards the camera. The background is a blurred forest scene with many thin, white-barked trees, likely birches, and a ground covered in brown, dry leaves or low-lying vegetation. The lighting is bright, suggesting a sunny day. The overall mood is serene and natural.

**We are the first generation,**





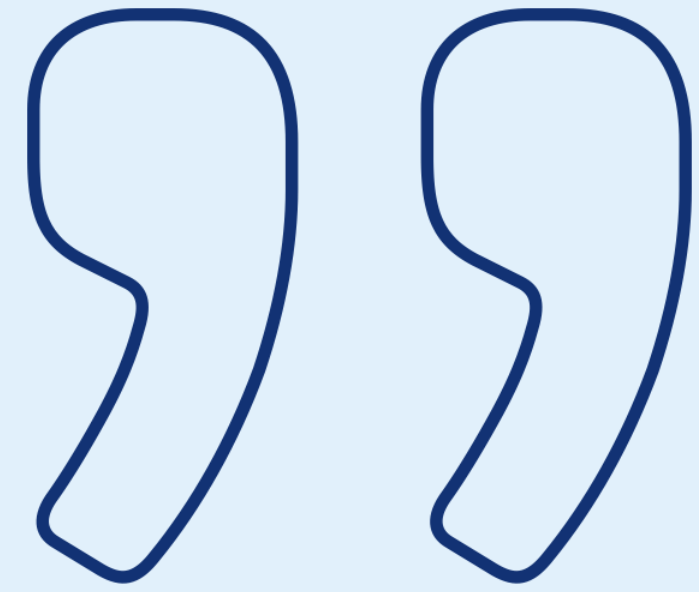
to Re>Close the loop.



A group of four hikers is walking away from the camera on a dirt trail through a forest. The hiker on the far left is wearing a dark blue jacket and a large grey backpack. Next to them is a person in a dark jacket. The third hiker is a woman with curly hair wearing a dark blue jacket and black leggings. The hiker on the far right is wearing a green jacket, blue jeans, and a black beanie, with their hand on the shoulder of the woman next to them. They are all wearing backpacks and hiking shoes. The forest has many thin trees and dry grass on the ground.

Together.





**Our promise:  
100% circular until 2030  
with minimal traces.**

DR. RÜDIGER FOX, CEO SYMPATEX



# 01 We Care



# Industrial Upstream

LEAVING TRACES THE PLANET CAN COPE WITH



# Leaving traces the planet can cope with

Minimizing the impact of our upstream industrial activities as a continuous improvement journey towards Re>Generation with the explicit goals:

## **WATER**

Cleaning water in the process instead of polluting.

## **CHEMICALS**

Zero harmful chemicals in the process and the product.

## **EMISSIONS**

Minimizing fossile emissions and over-compensating what we cannot avoid.





↓ 50%

less microfiber shedding than  
comparable synthetic garments





# ZERO

PFAS (and compliance with  
all reach requirements)



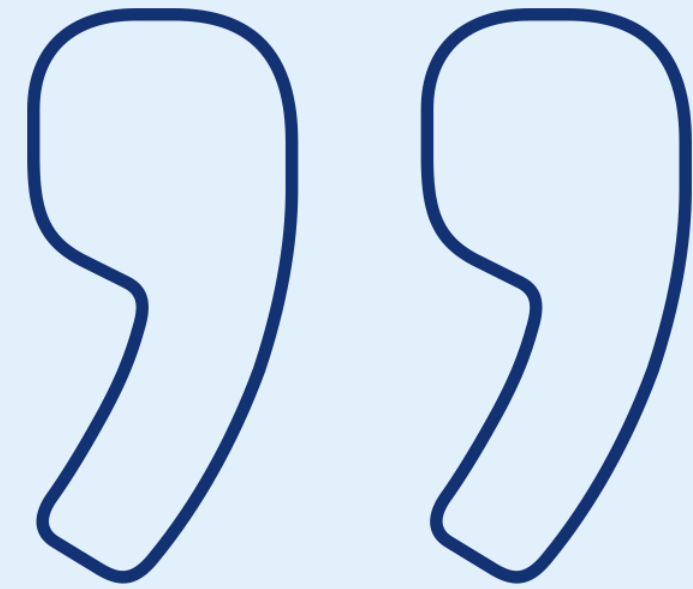


↓ 95%

less CO2 emissions compared  
to PTFE laminates\*

\*according to independent research





**Today's economy is divisive and degenerative by default. Tomorrow's economy must be distributive and regenerative by design.**

KATE RAWORTH, DOUGHNUT ECONOMICS



# Industrial Downstream

CIRCULARITY BY DESIGN



WHAT CAN WE DO?

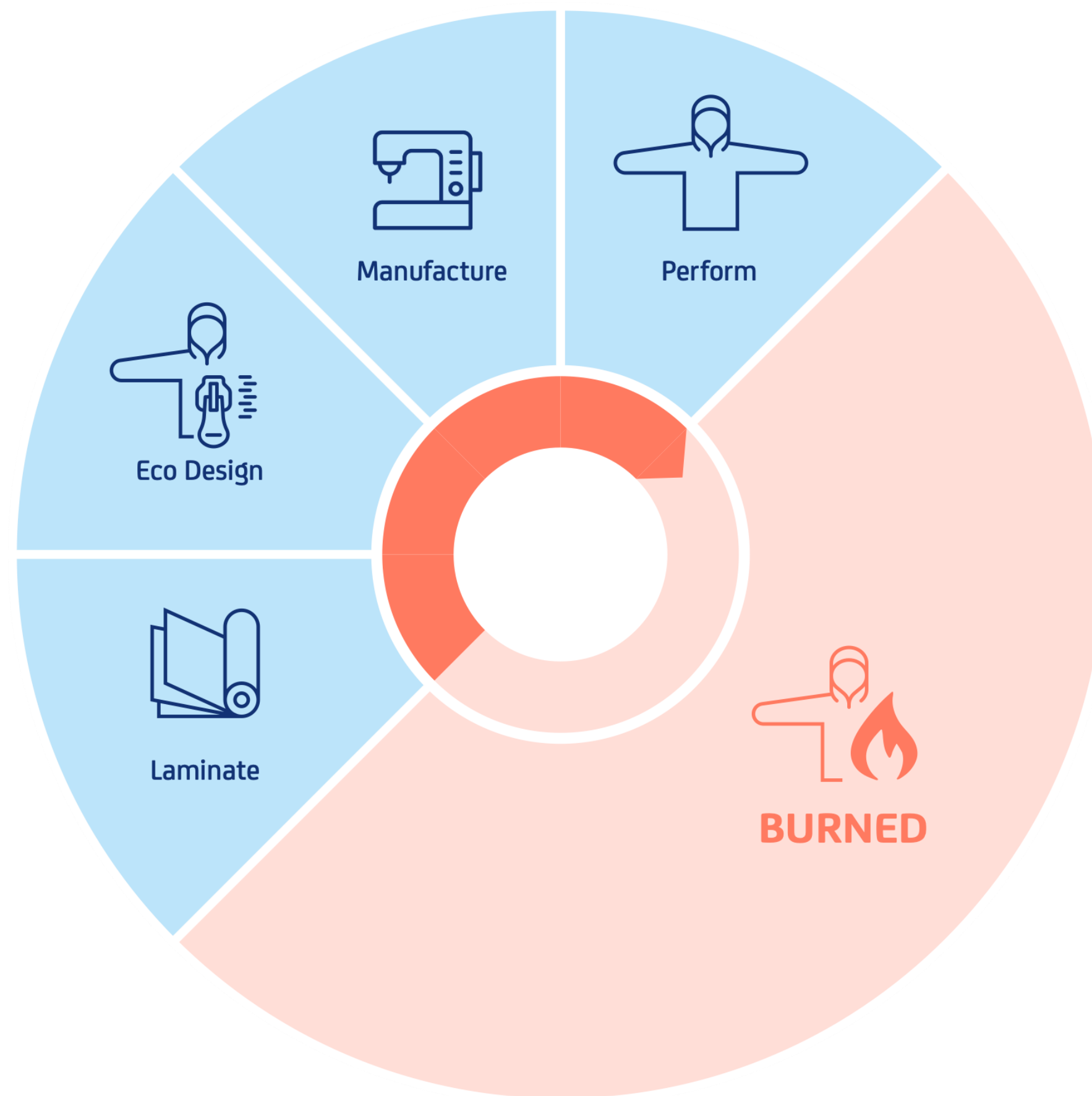
# Linear Economy Consumption

Linear economy model follows the “take-make-dispose” principle.

As products are not recyclable they end up in landfills or are burned in most cases.

→ 100% bio, 85% burned

Source: Ellen McArthur Foundation



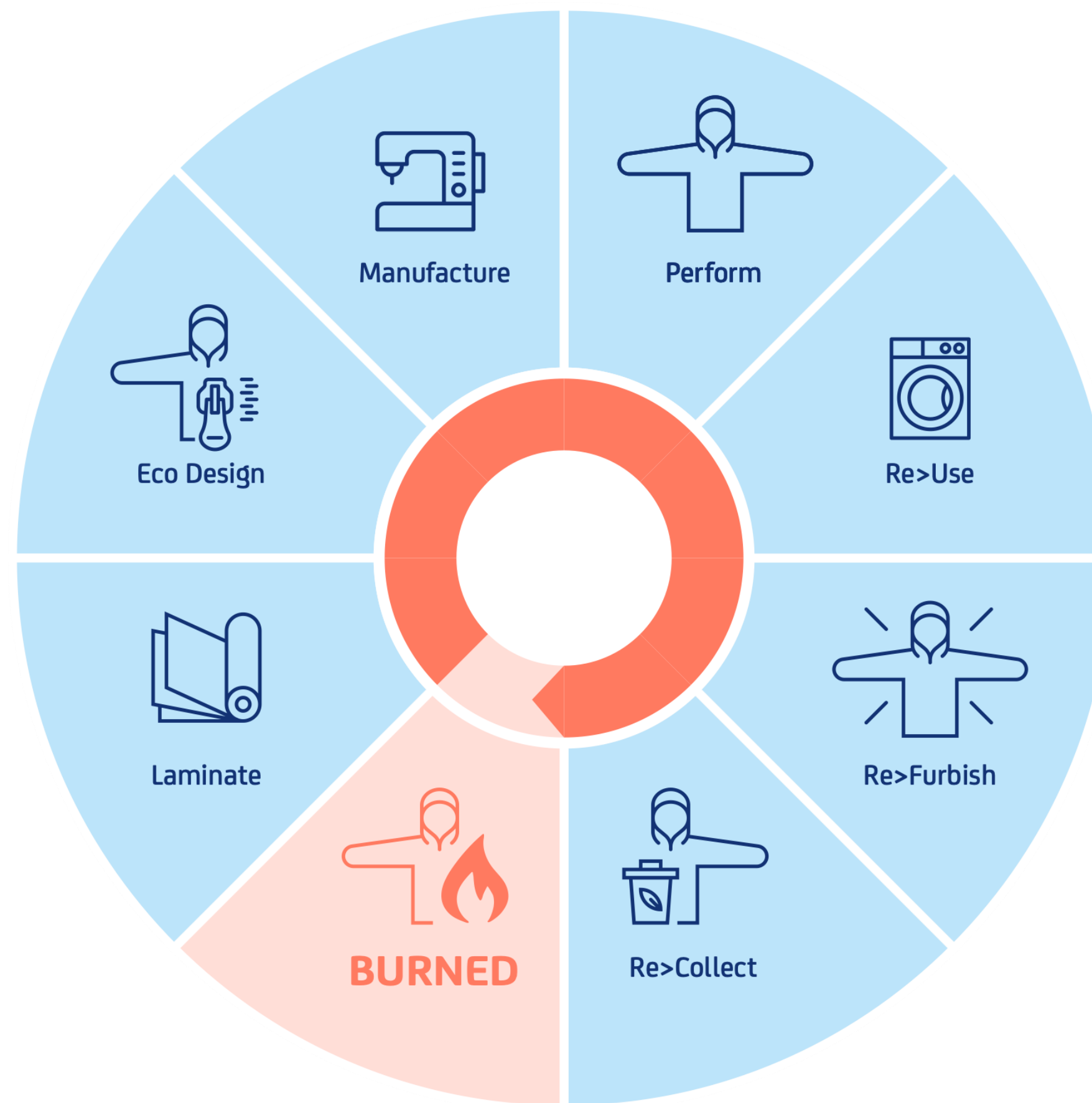


WHAT CAN WE DO?

# Extended Product Life Cycle

Customers Re>Use the product for a longer time, products are refurbished and Re>Collected for second hand use in a textile system.

However most products which are made out of multiple materials cannot be recycled and are again burned. The gap remains.



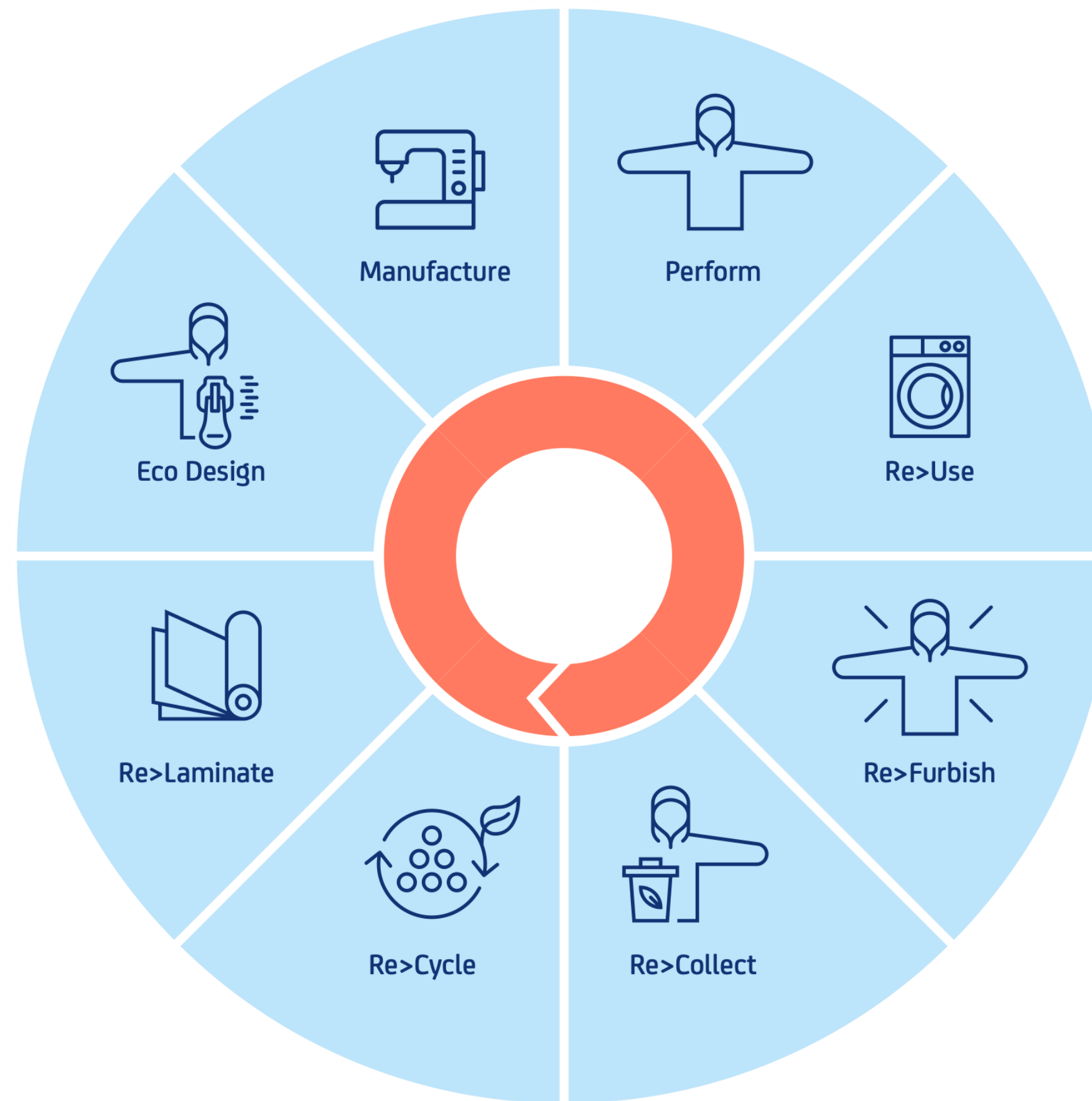


WHAT CAN WE DO?

# Re>Close the loop

Products made out of mono materials, ideally polyester can be shredded and recycled. The Re>Cycled raw materials are then used again to make new fibres and laminates. The loop is closed. Less than 1% of clothing are recycled.

Source: Ellen McArthur Foundation

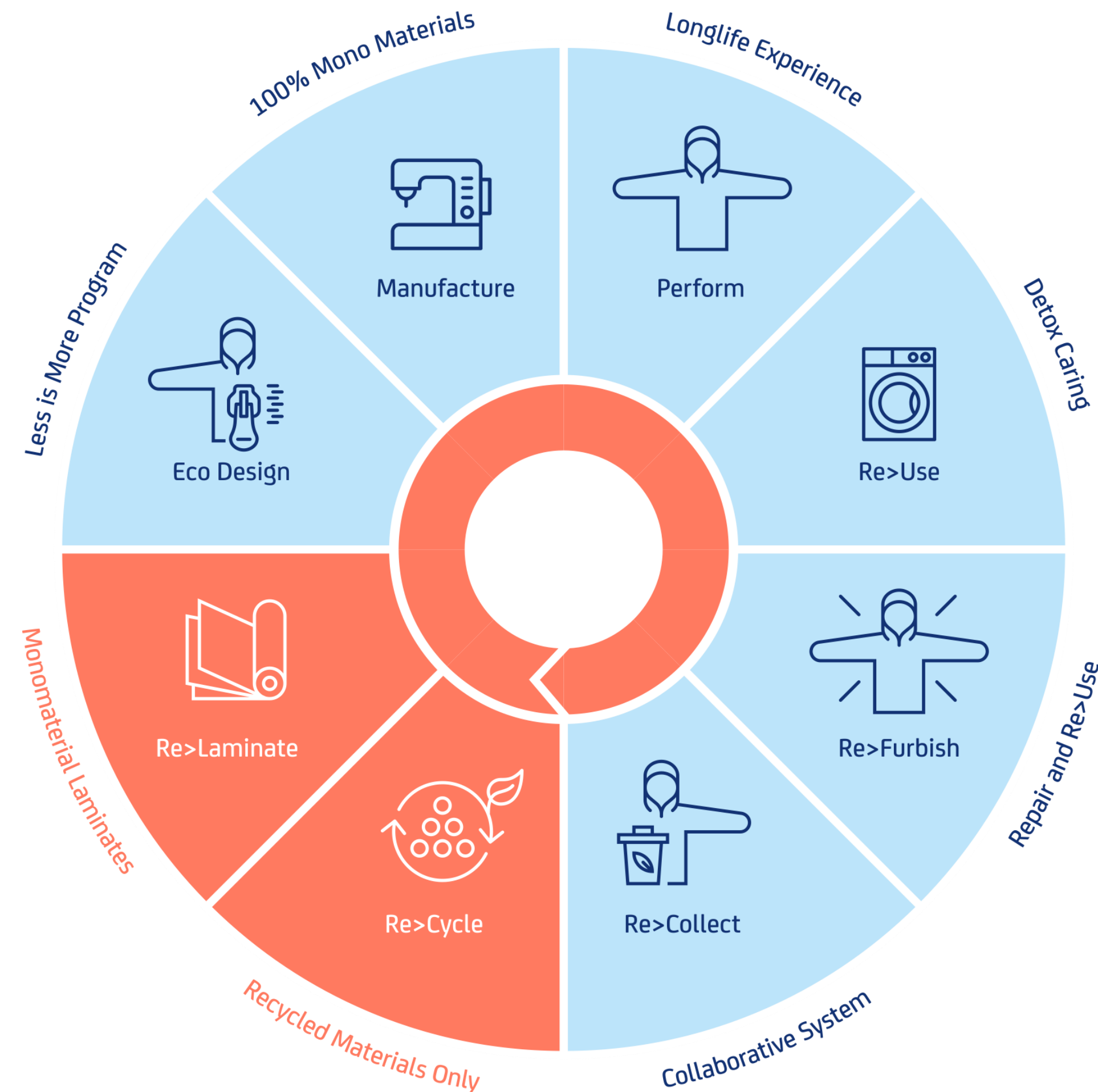




WHAT CAN WE DO?

# Sympatex Re>Closes the loop

In order to achieve this, we remodel our supply chain towards exclusively recycled material. We relaminate monomaterials only to ensure recyclability.



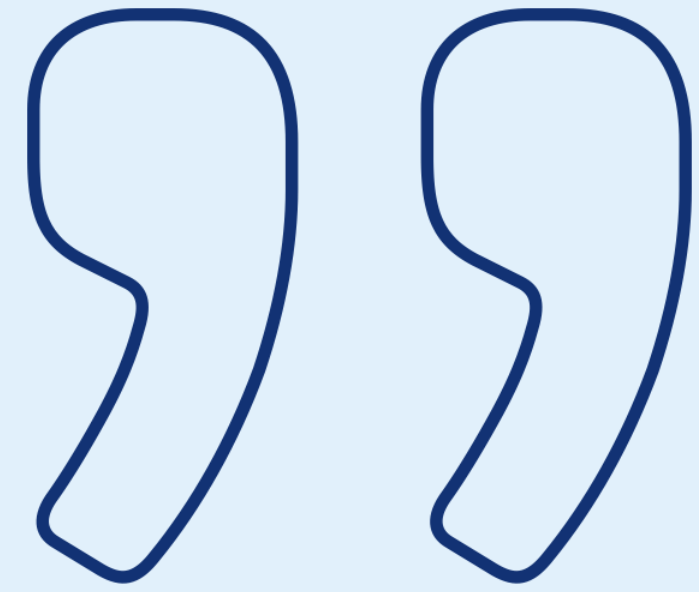


The background of the slide is a blurred photograph of green plant stems, likely bamboo or reeds, which are out of focus and create a bokeh effect. The stems are oriented diagonally across the frame.

# 100 Bio. Garments and 23 Bio. Pairs of Shoes

produced p.a. represent a source of new raw material,  
once they reach their end of life.





**Re>Close the loop.**

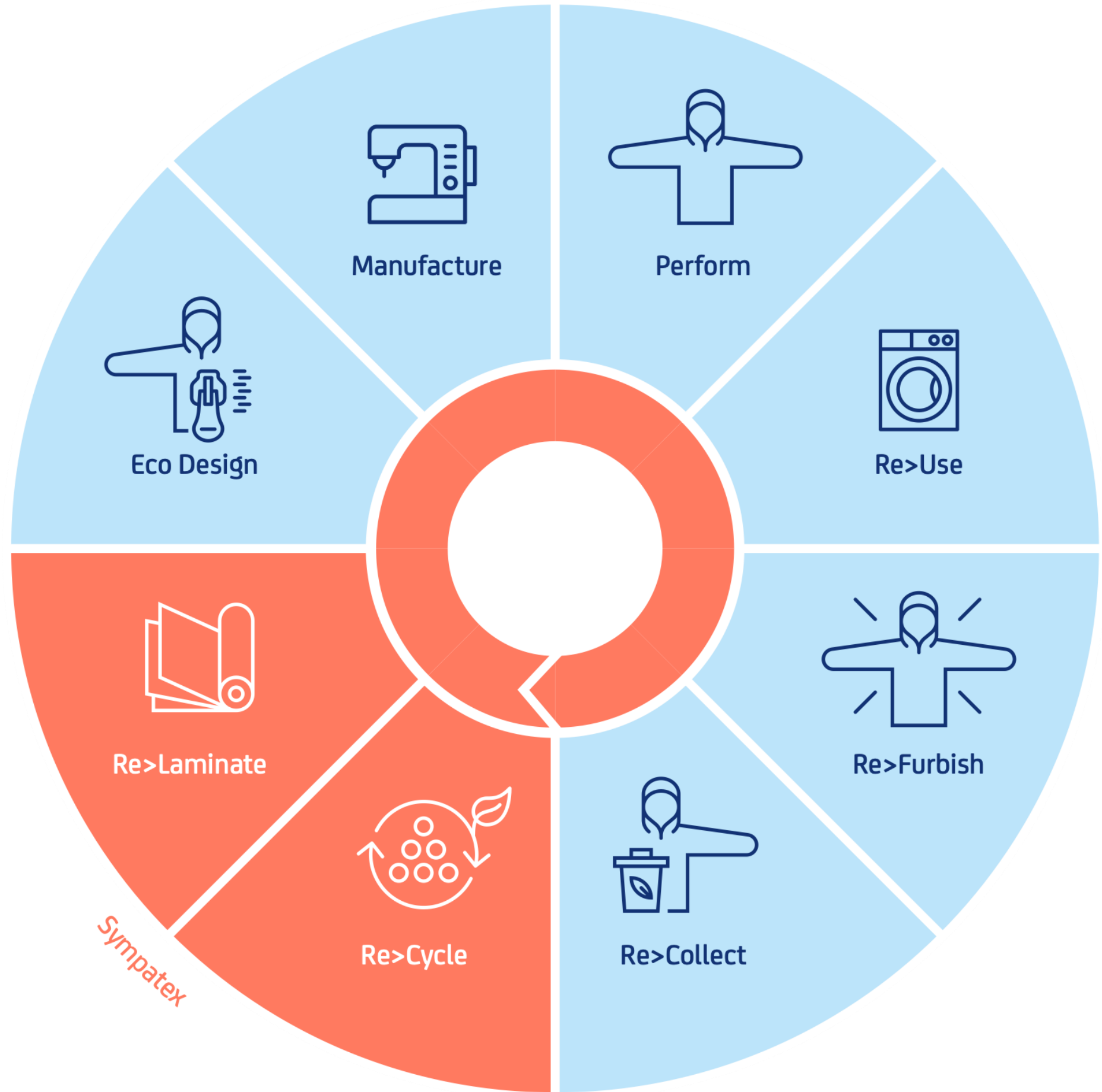
Together.



# 02 We Offer



# Re>Closes the loop

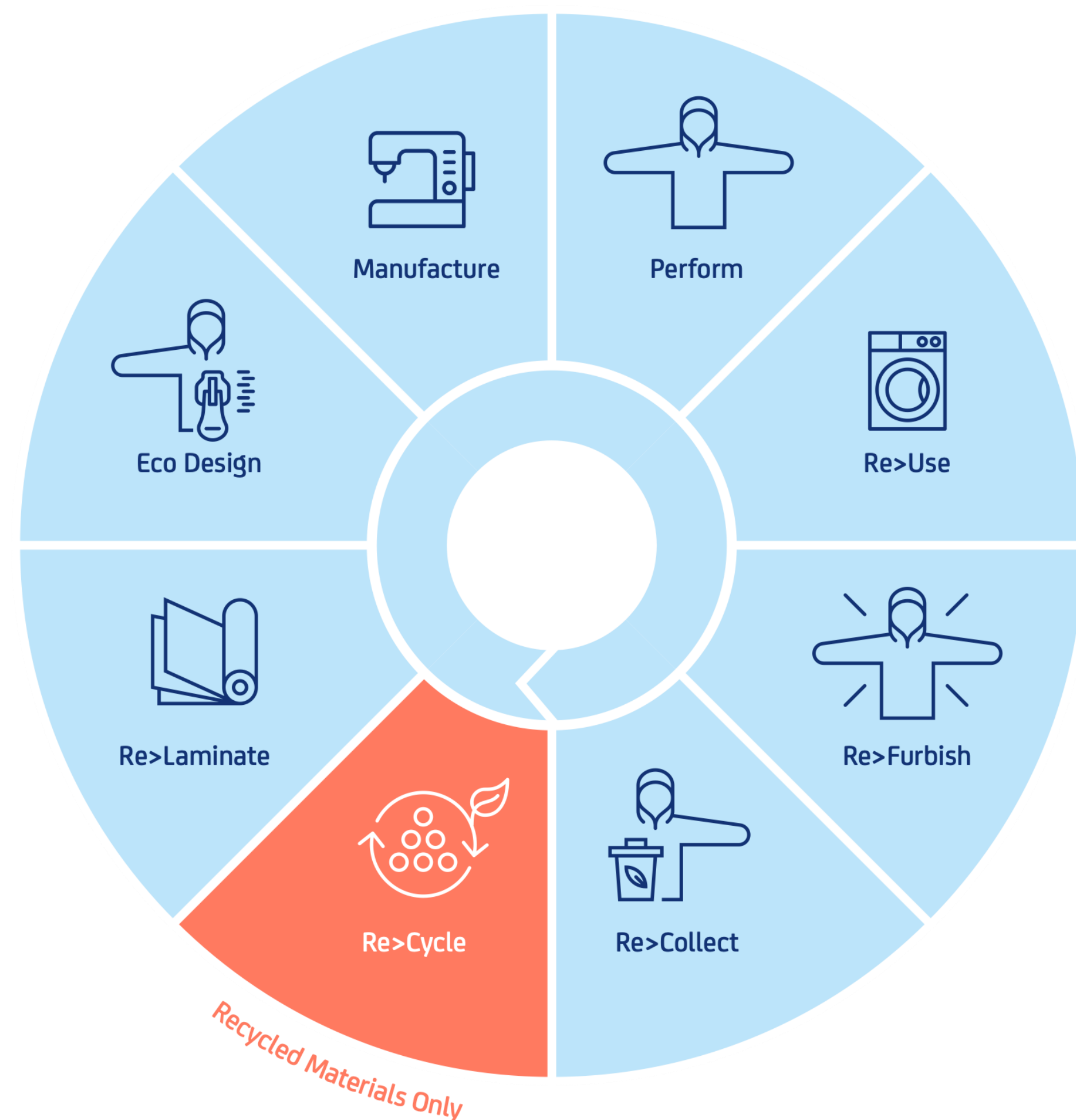




# **Best of the world B-Corp in terms of Sustainability. \***

\*I.E. AMONG THE BEST 5% OF ALL >4.000 B-CORPS





RE>CLOSE THE LOOP

# Re>Cycled Raw Materials

Sympatex is sourcing used monomaterial apparel and creates Polyester granulate as an ingredient for fibers and membranes.



RE<CLOSE THE LOOP

# Re<Cycled Membranes



15%

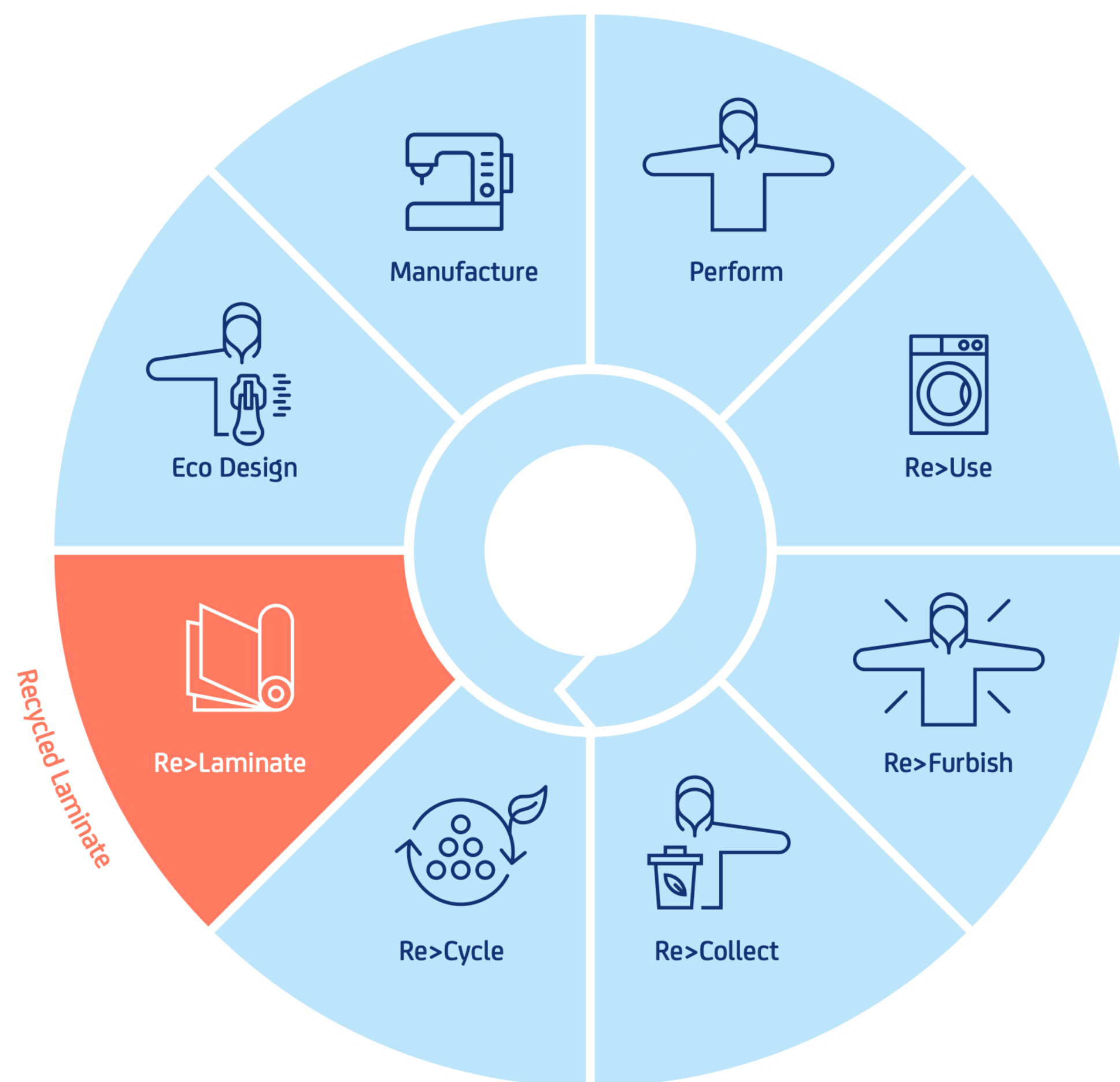
Pre Consumer Re<Cycling



25%

Organic Waste



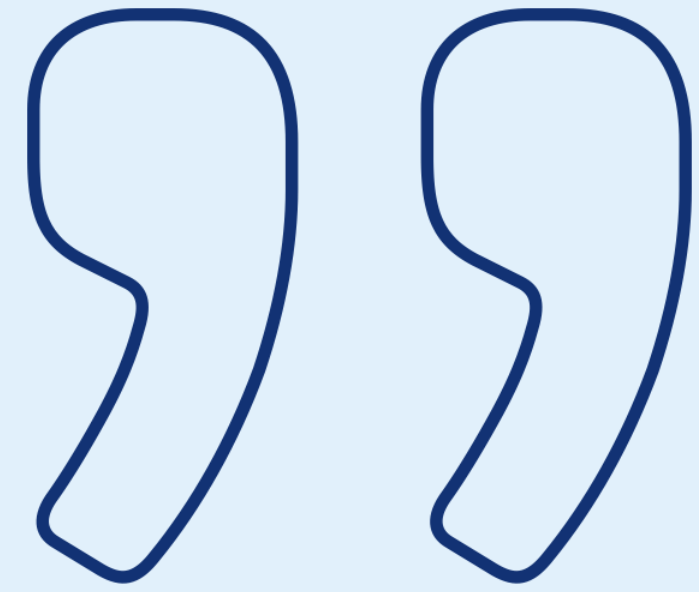


RE>CLOSE THE LOOP

## Re>Laminate

In order to enable recycling at the end of life, we focus on monomaterial polyester laminates - a material that is easy to recycle and represents already 80% of our industries' synthetic materials. By now, over 85% of our materials are already mono-material.





**For us, innovation is guided  
creativity, targeting tailored  
performance within the  
boundaries of circularity.**

DR. RÜDIGER FOX, CEO SYMPATEX

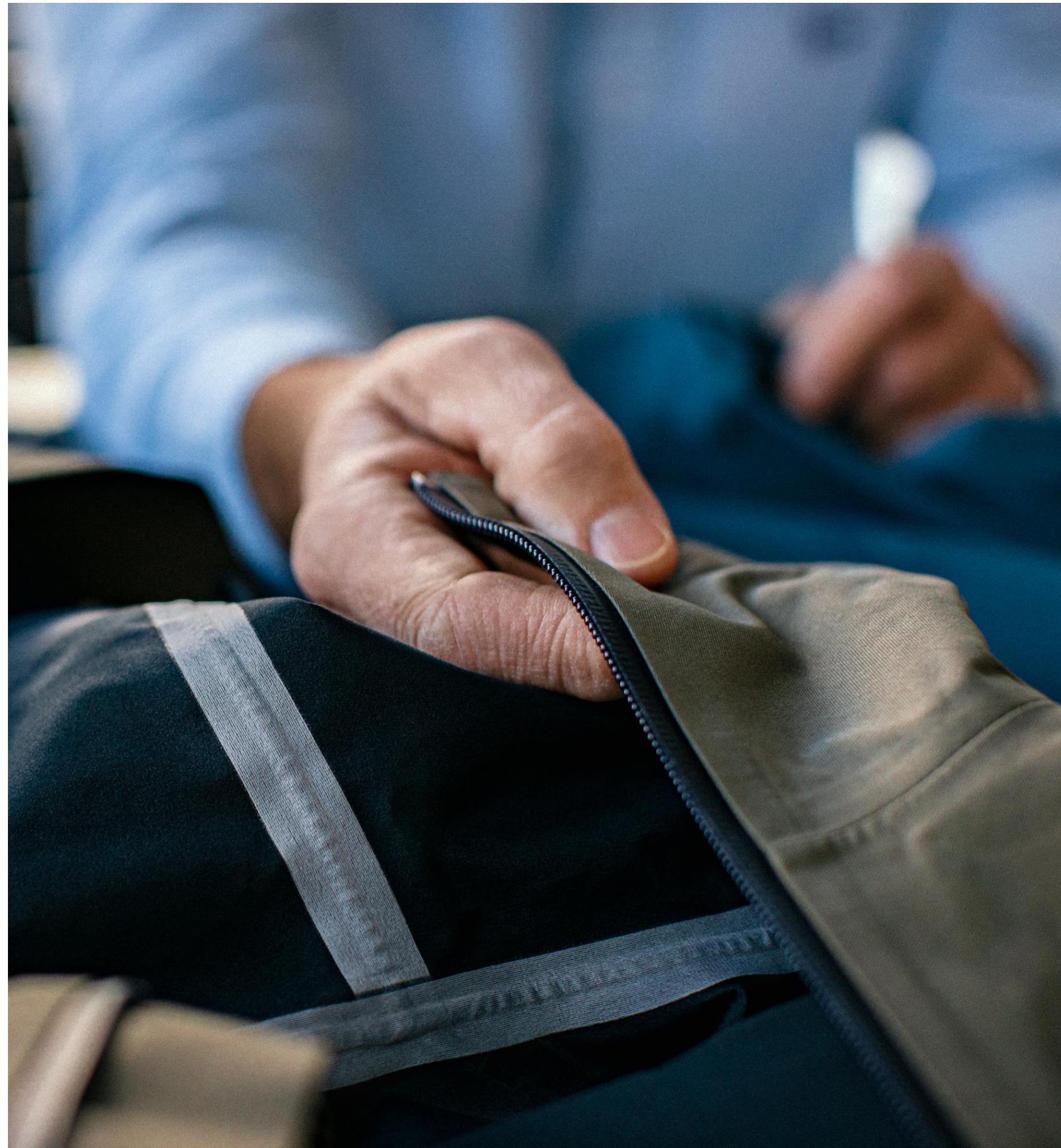


# 03 We Protect



REDUCING ENVIRONMENTAL EFFECTS ON ALL SIDES

# Maximum Ecology



- Polyester and polyether copolymer (oxygen-carbon-hydrogen) which poses no risk to health and environment
- 100% climate neutral membrane
- 100% recyclable membrane
- PTFE-free and PFAS-free
- STANDARD 100 by OEKO-TEX® certified
- bluesign® approved
- Reduced carbon footprint in polymer production
- Water-repellent treatments free of toxic fluorocarbons



DELIVERING TOP PERFORMANCE ON ALL LEVELS

# Top Performance

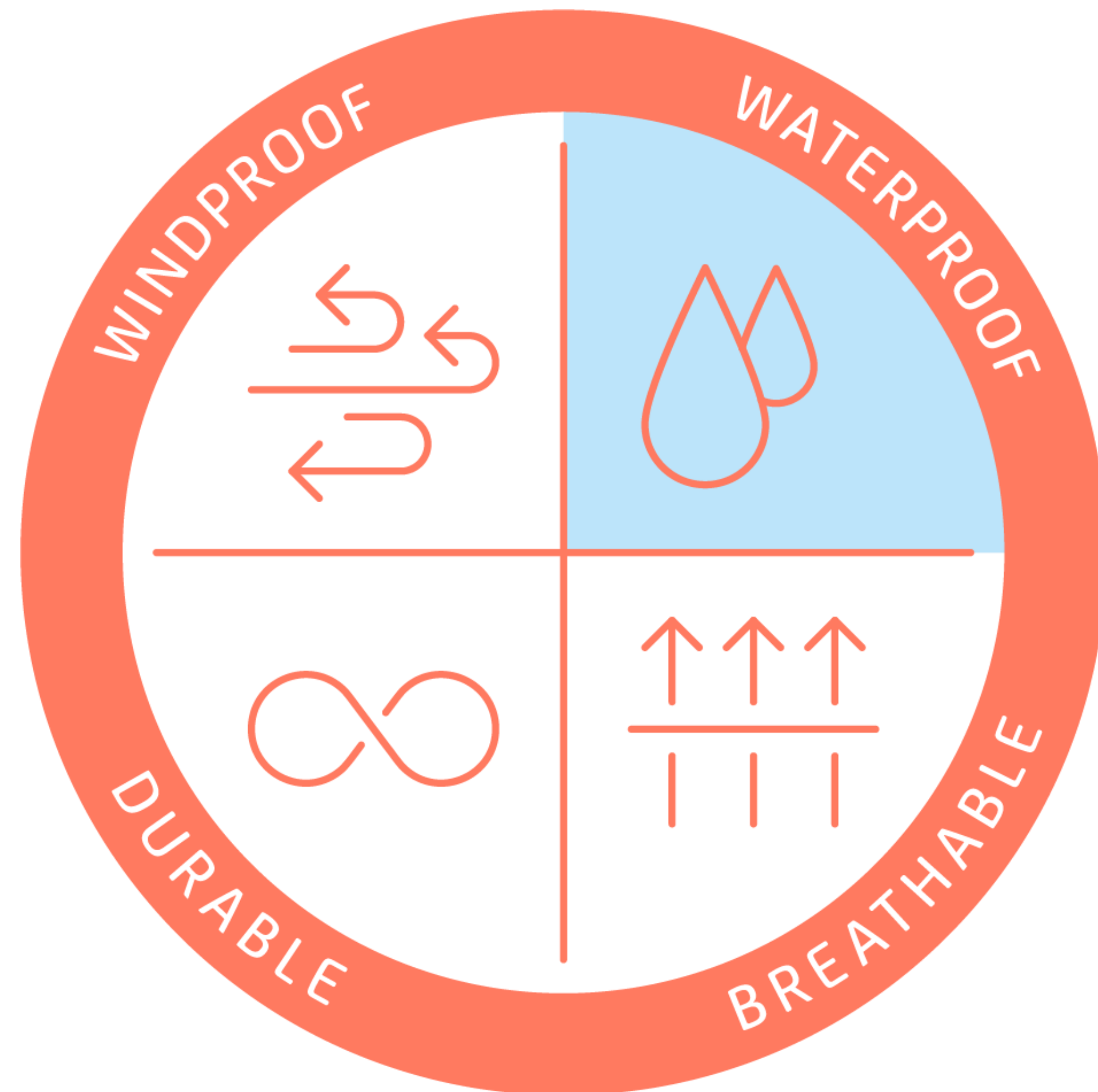


- Compact hydrophilic (water-loving molecules) poreless membrane
- 100% waterproof
- 100% windproof
- Optimally treatable
- Dynamic climate regulation
- Durable and extremely abrasion resistant
- The world's thinnest membrane (5  $\mu\text{m}$  thick)
- Up to 300% stretch (wearer comfort)



HOW DOES IT WORK?

# Performance Promise



**Waterproof:**

**Water column of  $> 45.000$  mm**



HOW DOES IT WORK?

# Performance Promise



## Waterproof:

Water column of  $> 45.000$  mm

## Breathable:

**Dynamic adjustment according to physical movement: Membrane absorbs water vapour, removes it through the clothing outside**



HOW DOES IT WORK?

# Performance Promise



## **Waterproof:**

Water column of > 45.000 mm

## **Breathable:**

Dynamic adjustment according to physical movement: Membrane absorbs water vapour, removes it through the clothing outside

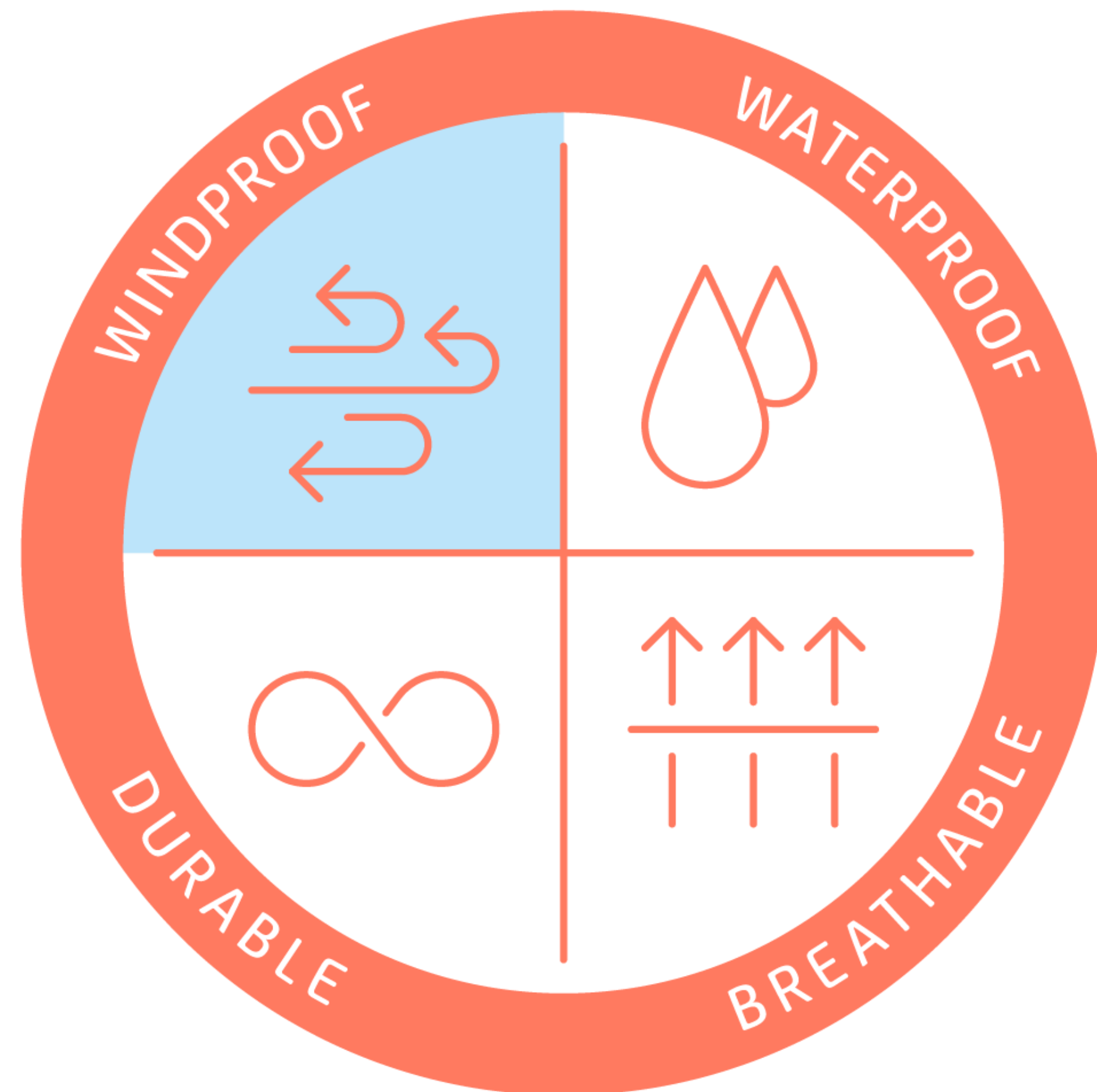
## **Durable:**

**Longlife products based on top quality**



HOW DOES IT WORK?

# Performance Promise



## **Waterproof:**

Water column of > 45.000 mm

## **Breathable:**

Dynamic adjustment according to physical movement: Membrane absorbs water vapour, removes it through the clothing outside

## **Durable:**

Longlife products based on top quality

## **Windproof:**

**0 litres of air per second pass through 1 m<sup>2</sup> of Sympatex membrane**



HOW DOES IT WORK?

# Performance Promise



## **Waterproof:**

Water column of > 45.000 mm

## **Breathable:**

Dynamic adjustment according to physical movement: Membrane absorbs water vapour, removes it through the clothing outside

## **Durable:**

Longlife products based on top quality

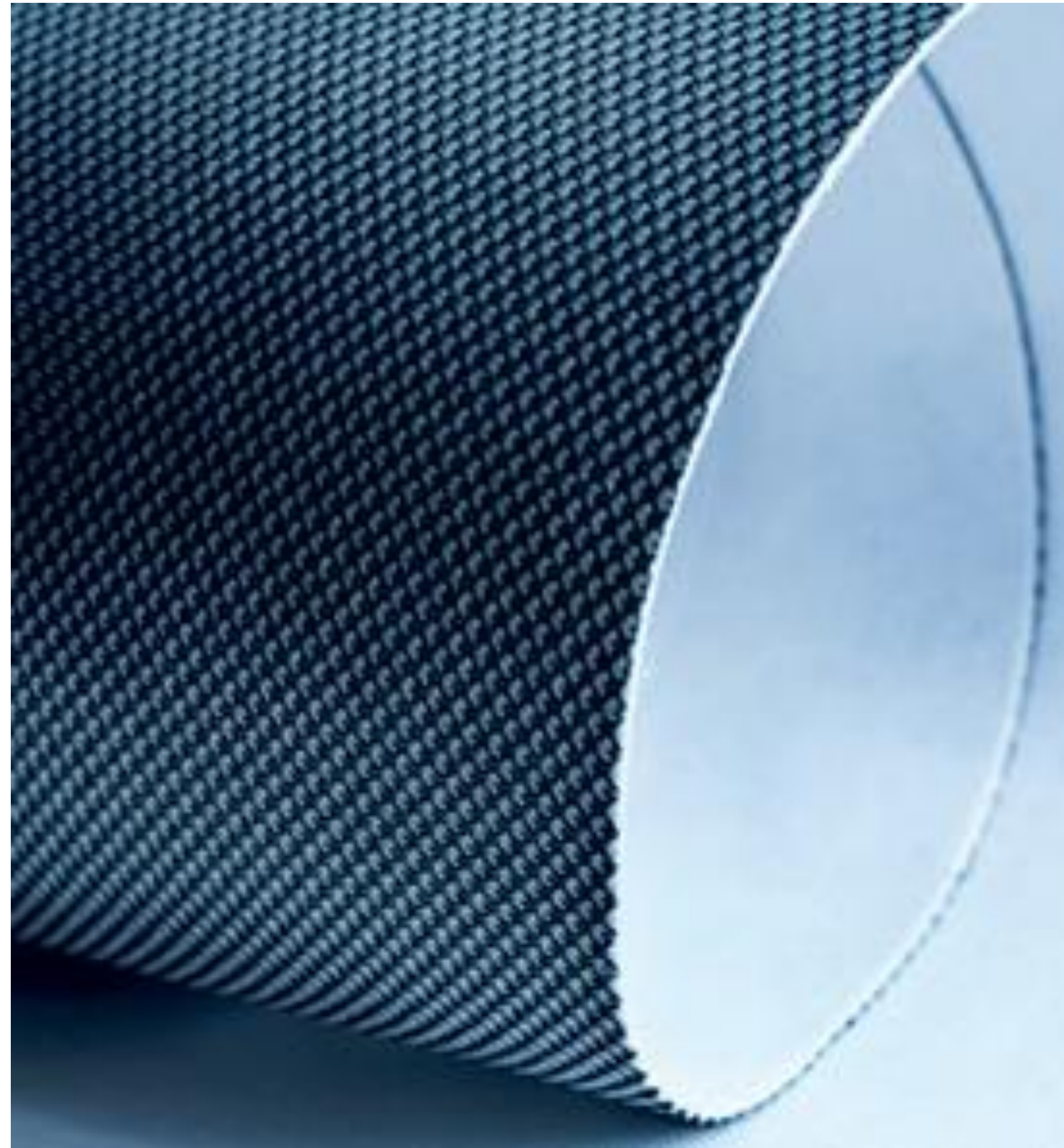
## **Windproof:**

0 litres of air per second pass through 1 m<sup>2</sup> of Sympatex membrane



HOW DOES IT WORK?

# From membrane to laminate



Sympatex offers exactly the right

Re>Laminate for your needs.

Different grades of stretch and hardness are sealed with special Sympatex tapes are the base for a unique apparel, workwear or boot.

You can choose from a wide collection or create a personal design together with the Sympatex technicians. We also consult you for yarns, zipper and other components.



HOW DOES IT WORK?

# From Laminate to Product

- Over the past decades, our industry focus has been on offshoring traditional manufacturing processes to low labour cost countries. This has lead to fragile logistic dependancies, socially unacceptable working conditions and stagnating manufacturing inefficiencies.
- We aim for innovation beyond our traditional materials focus. Our ambition is to establish automotive-like standards in the shoe and apparel industry in terms of quality and automation.
- Mono-material polyester is ideally suited for this.





HOW DOES IT WORK?

# Assembly Technology Apparel

A laminated based on Polyester is ideally suited for welding assembly, thus eliminating stitching and taping.

We have already managed to develop processes that allow low-loaded seams to be welded.

Our innovation roadmap currently focusses on welding technologies that can replace all garment sewing processes.



Source: ???



HOW DOES IT WORK?

# Assembly Technology Shoes

Polyester is ideally suited for thermoplastic forming. As such, we did spend the past 5 years to develop technologies that allow bootie-forming from a 2D Laminate directly into the final last form. Seamless. Waterproof. Extra-breathable.

A monomaterial boot with highest comfort and easy to make part of a modular, recyclable shoe concept.





ENSURING QUALITY ON ALL LEVELS

# Testing far above the requirements

Our testing operates on all levels of the product in order to ensure an efficient, yet fully reliable end product quality:



## **Textile Material Testing**

e.g. for durability



## **Laminated Material Testing**

e.g. for breathability

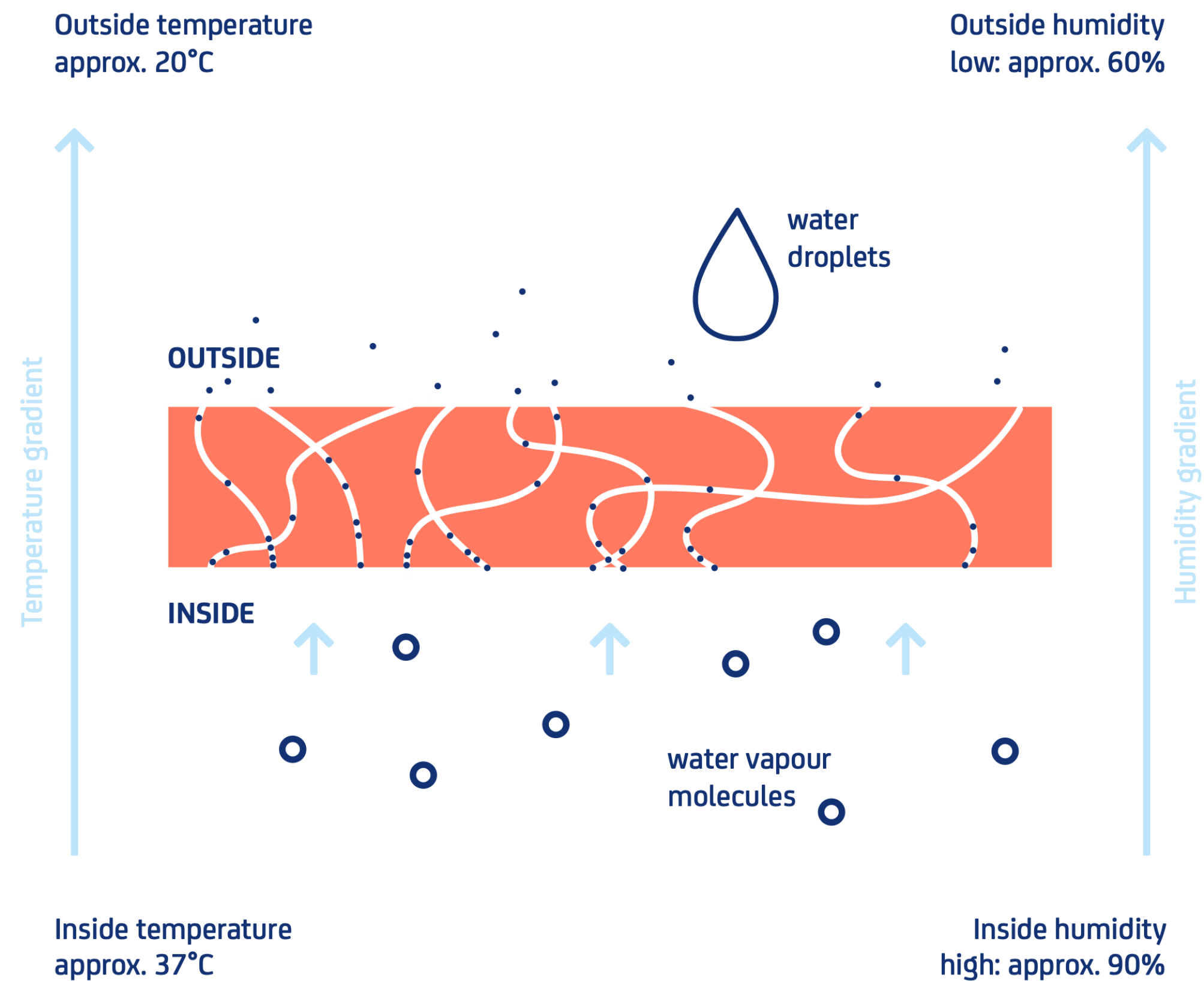


## **End Product Testing**

e.g. for waterproofness



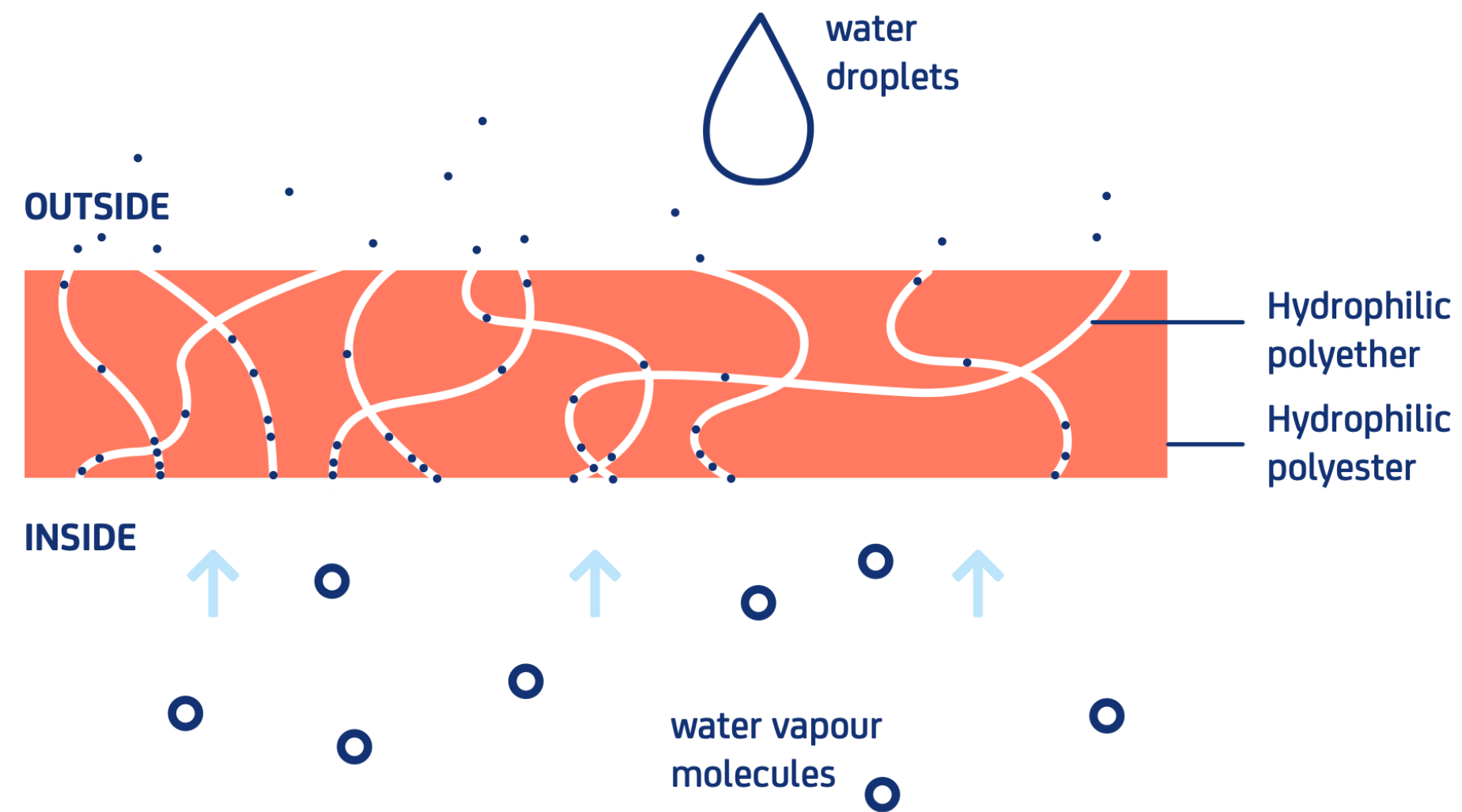
# Function



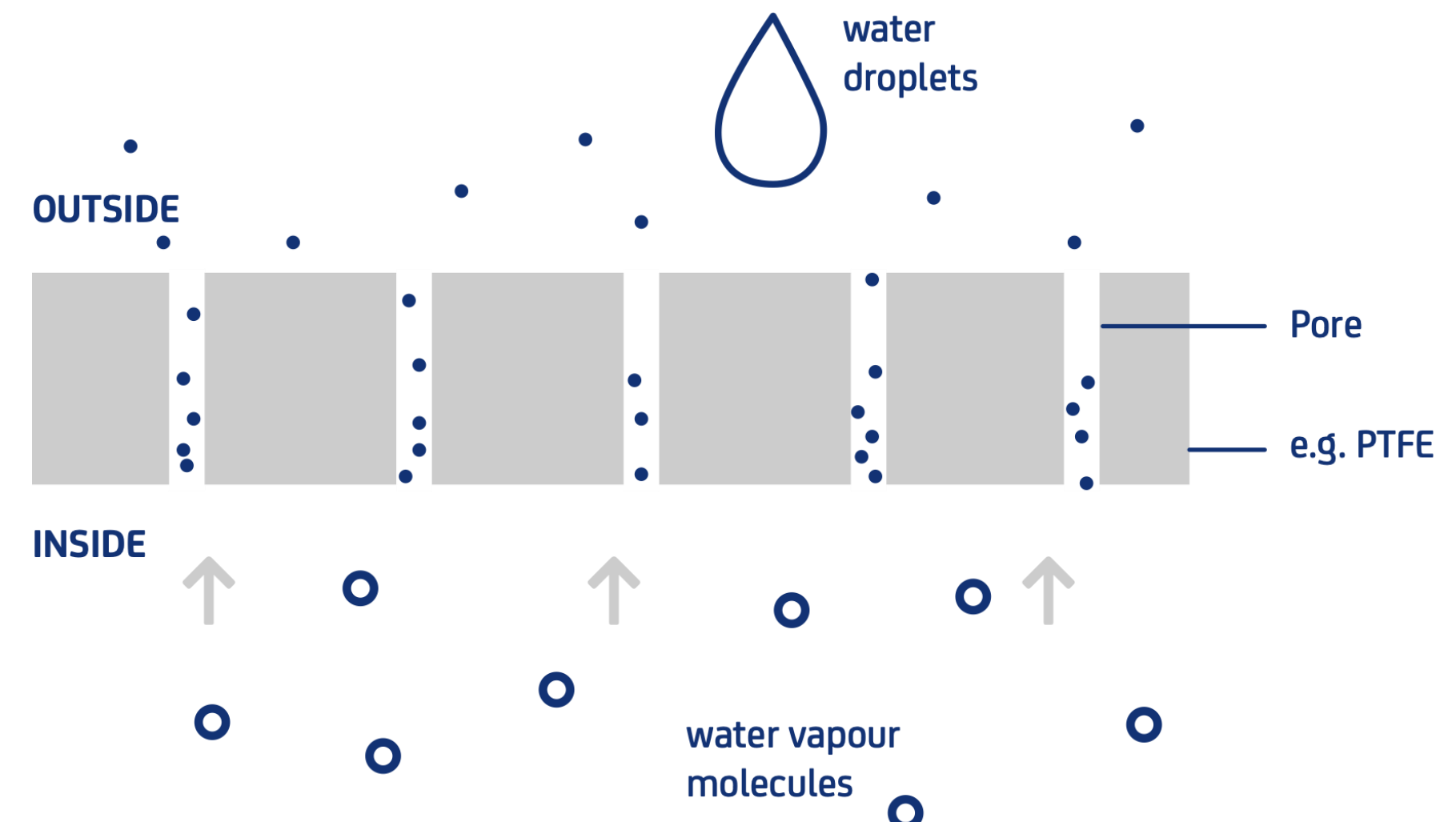


# Function Compared

## Compact Sympatex membrane



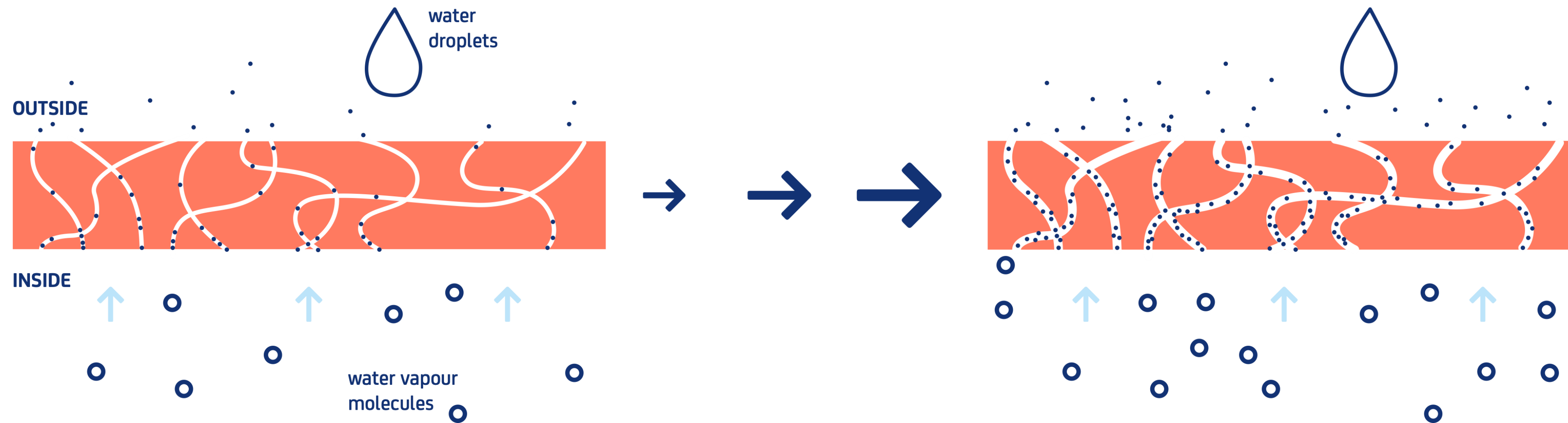
## Microporous membrane



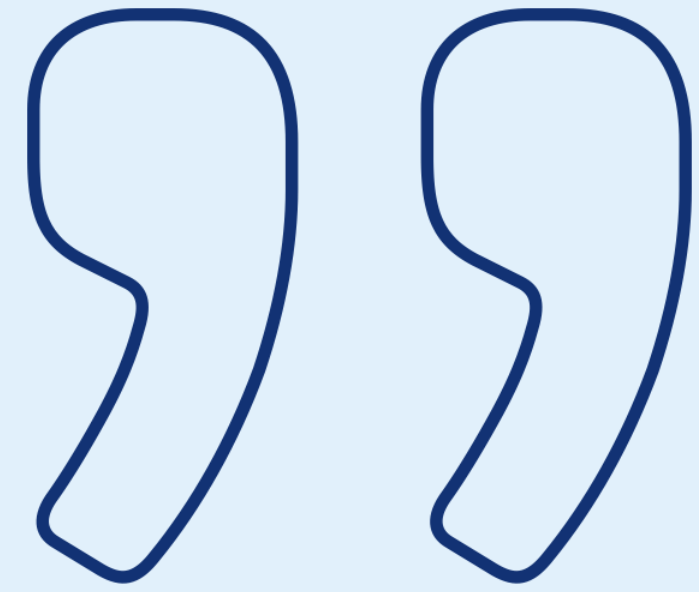


# Breathability / Dynamic Climate Control

## Compact Sympatex membrane







**Continuous improvement is  
better than delayed perfection.**

MARK TWAIN



04

We Together



WE WORK WITH THE BEST

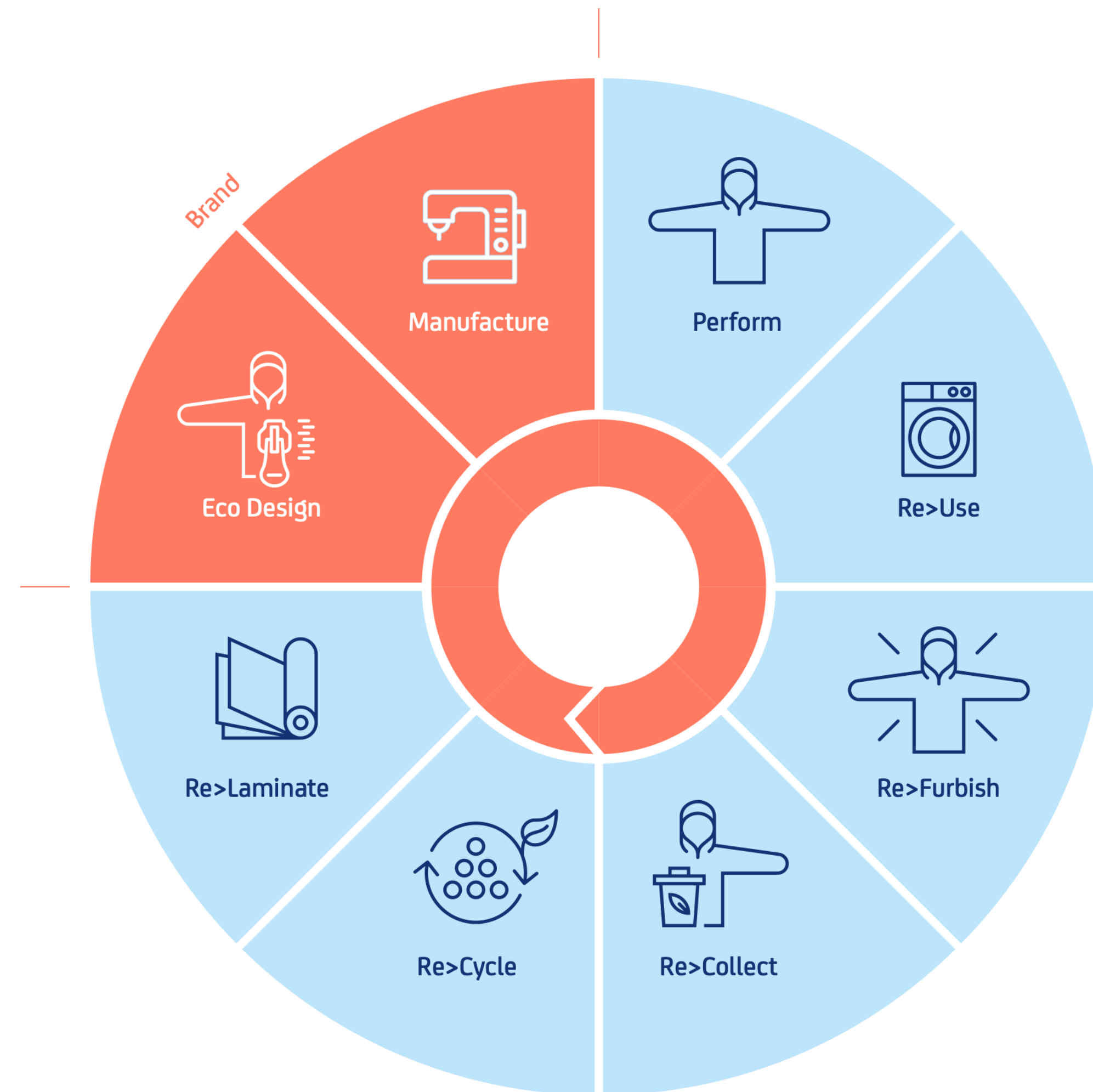
**Brands**  
**People**  
**Partners**





WE WORK WITH THE BEST

# Brands







# Eco Design

Sympatex creates Eco Design guidelines to support your designers.

This has two purposes:

## Create long-life products

where the pores are not clogged by dust, dirt or creases and therefore the apparel doesn't need to be washed that often.

## Use 100% polyester components

for thread, sealing tapes, zipper, velcro and other components.

Based on this know-how the

Re>Collected items can be

Re>Cycled into valuable granulate.





# Manufacture

With the preselected materials and the right processes you can produce your apparel and footwear. It has the following purposes:

- Products which are designed based on Eco-Design standards can be produced easier and at higher quality standards.
- Water and energy is saved.
- Waste material or left overs can be collected and Re>Cycled to polyester granulate.



WE WORK WITH THE BEST

# Brands

 **BILLABONG**



 **ELKLINE**



**MAAP**

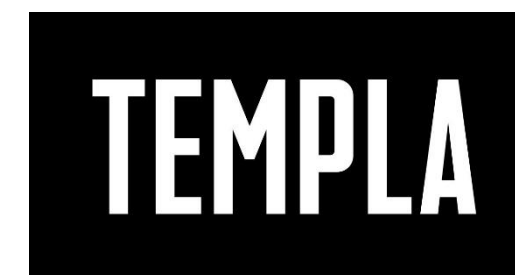


**EUROSKO**



**ECOALF**

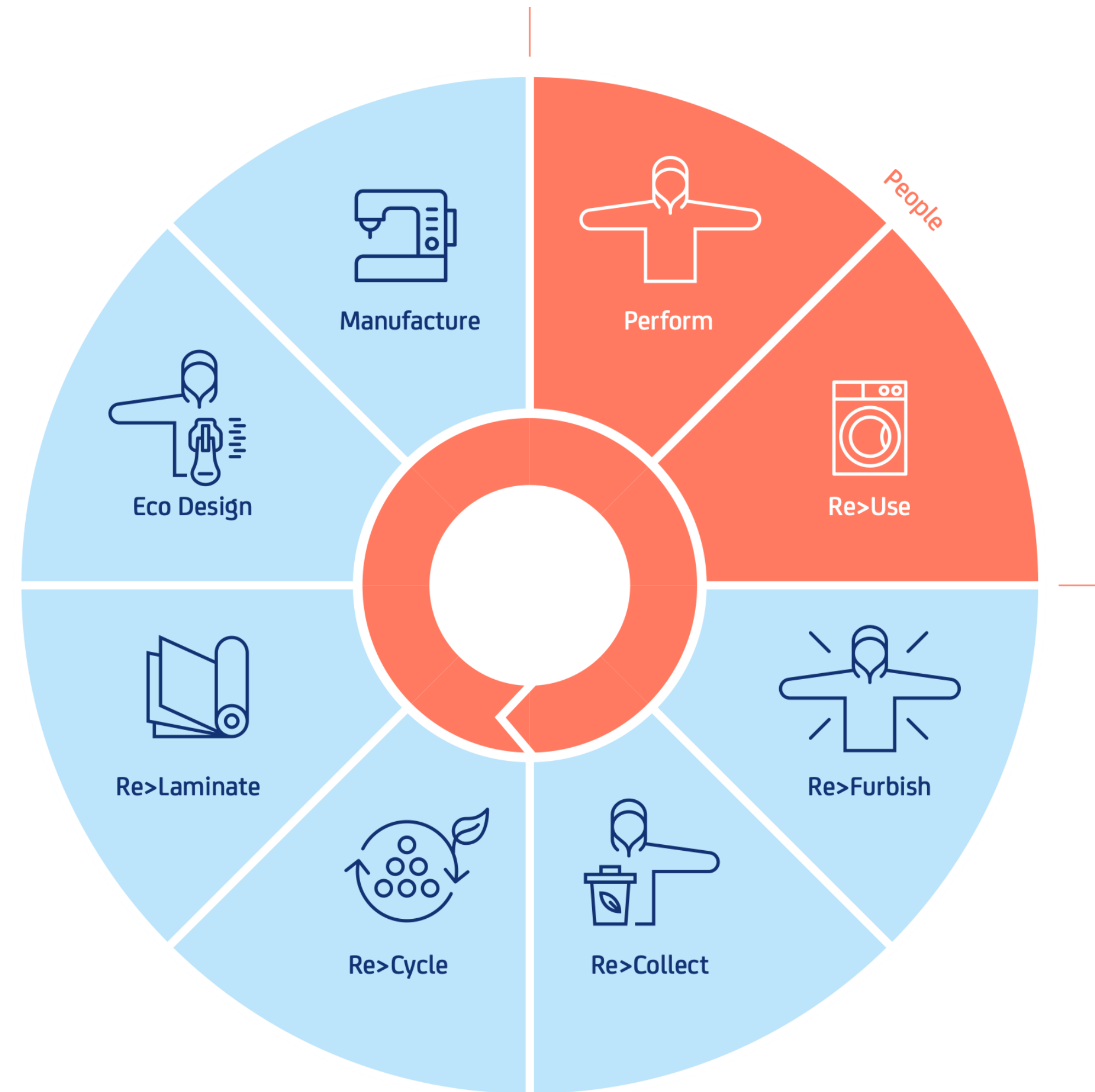
**Richter**  
JUNGE SCHUHE SEIT 1893





WE WORK WITH THE BEST

# People







## Re>Use

All Sympatex apparel you can wash with 30 or 40°C with a conventional laundry detergent. The membrane is pore-less, thereby its breathability cannot deteriorated by clogging. Therefore you do not need to wash it that often and micro plastic does not appear in the water. For longlife you can wash the apparel muliple times without any performance difference.

WE WORK WITH THE BEST

# Partners





PARTNERS



## Re>Furbish

A garment can be repaired. Damaged functional clothing need not be thrown away. In line with sustainability and durability, tears and holes can be sealed with the correct materials and the know-how of our “Repair Partners”. Broken zips, torn-out pockets or sleeves that are too long are not a problem either. Also water repellance can be reactivated (e.g. dry tumbling or ironing at low temperature).

Check out our repair partners on our website or ask your local dealer.



## Re>Collect

Re>Collect systems are not only common for paper and metals but are already in place in all developed countries. So there is no need to set up your own system. Unfortunately a high percentage of these items end up in landfills or are burned because they consist of multiple non recyclable materials. The Eco-Design principle of Sympatex enable your monomaterial polyester garments to be collected, identified and 100% recycled to valuable granulate.



# Awards & Partnerships

Awards



Certificates



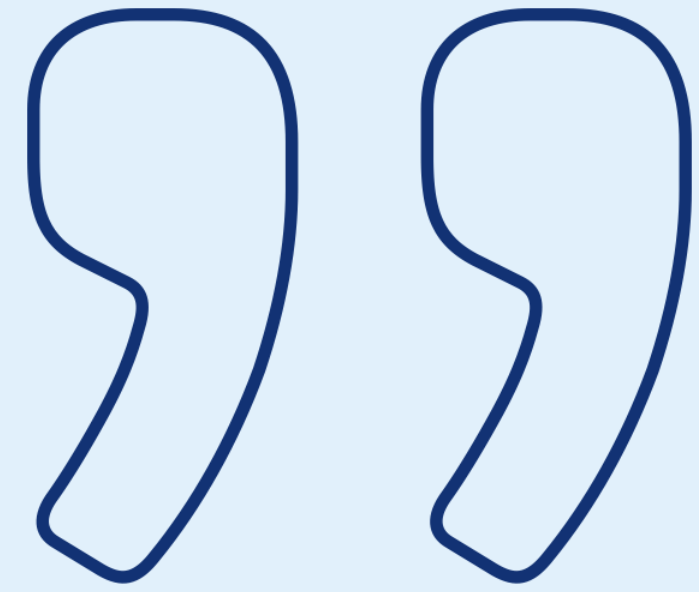
Commitments



Partnerships



PLASTIC  
LEAK  
PROJECT



Re>Close the loop.

**Together.**



# 05 We Act

WE ACT

# Manifesto

Re>Closing the loop. Together.

This is for everyone. For you and me. For the coming generations.

In ways large and small, as individuals and groups, we have the power to use our circle of influence.

So, can we please change things together?

We wanna make sure doing business right. Using our brand-power to turn new ideas into reality.

This often takes creativity and courage. Creativity to imagine our world differently.

Courage to connect seemingly unrelated phenomena.

Can you imagine products having multiple lifecycles?

We can. And we will get there. What we need is you. `Cause you have tremendous power.

Let's become a dedicated team and spread the word.

We will be Re>Closing the loop. Together.



WE ACT

# Sales Folder





WE ACT

# EU Flyer

## The EU initiatives

Published on 30th march 2022

### A historic moment in economic history

The EU 2022 „Spring-Package“ contains three major initiatives

- Sustainable Product Initiative (SPI) with a textile focus
- Initiative on empowering consumers
- Textile Strategy

Above all, the EU Textile Strategy announces firm measures against „fast fashion“ and declares support for circular business models.

### The EU Textile Strategy Vision for 2030

- EU textile products are long-lived and recyclable, affordable, to a great extent made of recycled fibres, free of hazardous substances and produced in respect of social rights and the environment.
- Fast fashion is „out of fashion“, and economically profitable re-use and repair services are widely available.
- Producers take responsibility for their products along the value chain, including when they become waste.
- The circular textiles ecosystem is thriving, driven by sufficient capacities for innovative fibre-to-fibre recycling, while the incineration and landfilling of textiles is reduced to the minimum.

Read more about the EU „Spring-Package“  
[https://ec.europa.eu/commission/presscorner/detail/en/ip\\_22\\_2013](https://ec.europa.eu/commission/presscorner/detail/en/ip_22_2013)

## The Sympatex vision

Commitment since 2017

### Manufacture

In the production of their products, our brand partners try to keep their water and energy consumption as low as possible and recycle all waste materials and residues into reusable granules.

### Eco Design

Our Brand Partners design minimalist products from mono-material. The timeless design extends the useful life and the mono-material simplifies the recycling of the product, because it can be done without separating the individual components.

### Re>Laminate

We manufacture our membrane and laminates from polyether ester. This not only helps us save water and CO2 emissions, but as a monomaterial it also enables easy recycling. We offset all emissions that we cannot avoid during production through carefully selected projects.

### Re>Cycle

We process used monomaterials into polyester granules as raw material for our membrane. By 2030, we want to use only recycled material to manufacture our membrane.



### Perform

Our membrane protects you during your outdoor adventures. It is durable, just like the products of our brand partners as a whole. So you can enjoy your clothing for a long time and be active outdoors in any weather.

### Re>Use

Our membrane is developed so that it does not lose its function even after a long time and after repeated washing. So the products can be easily reused, further extending their useful life.

### Re>Furbish

Our partners are committed to ensuring that products can be easily repaired or reprocessed into other products. They should be used for as long as possible and thus slow down the consumption of new products.

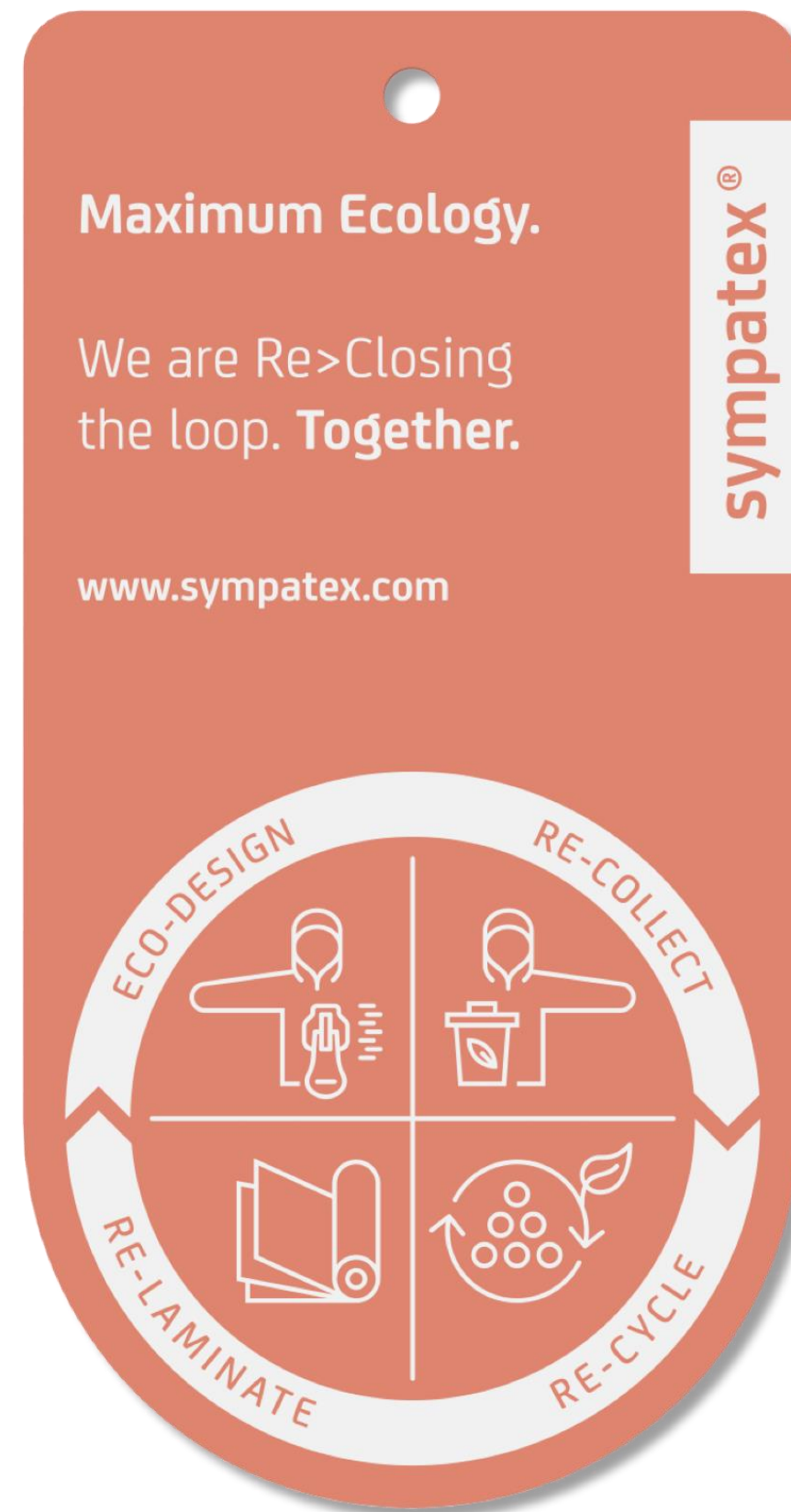
### Re>Collect

After their use, the products are collected via our partners so that the valuable material can be reused. This can easily be done via already existing systems and processes.



WE ACT

# Hangtags





WE ACT

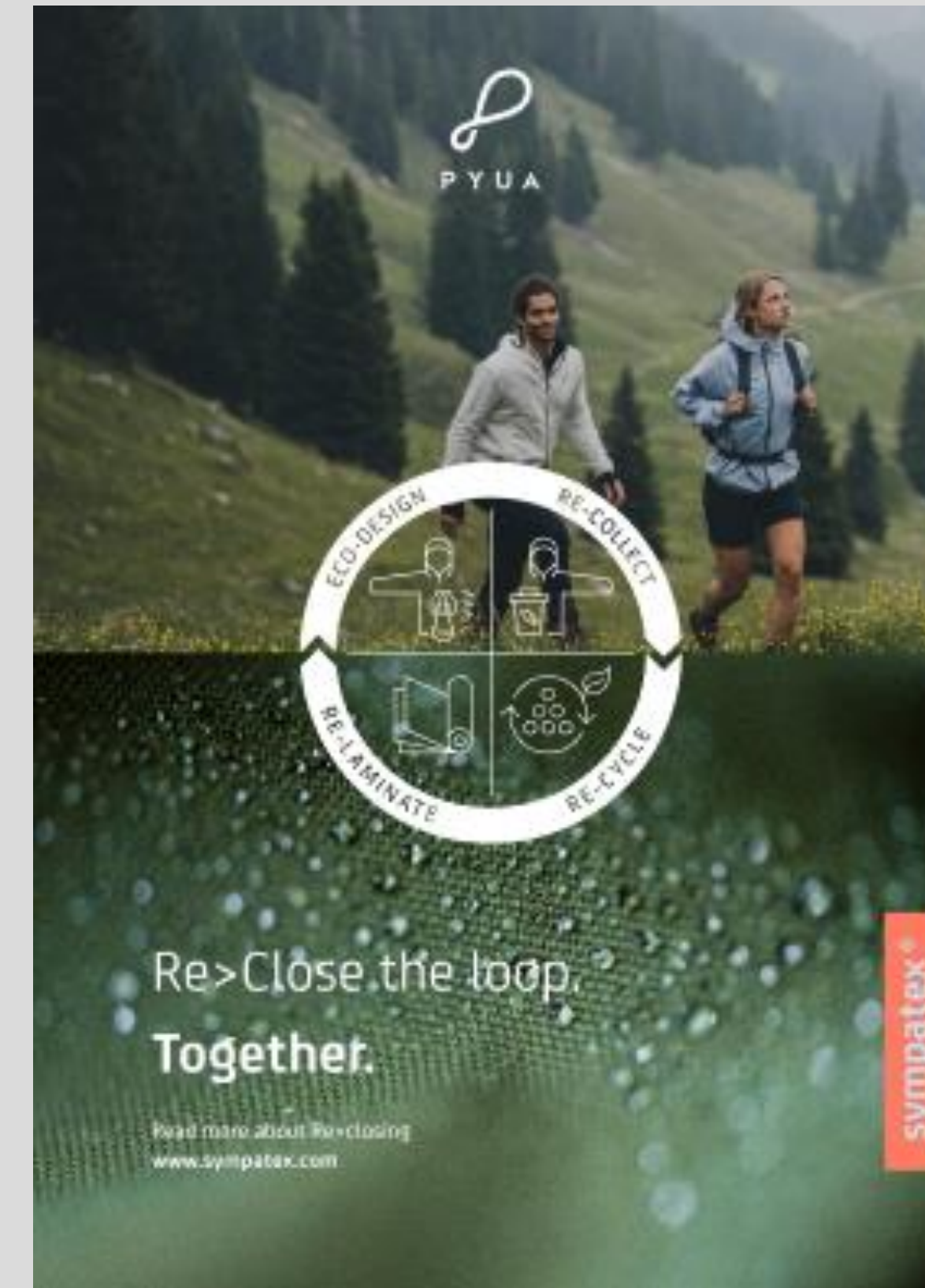
# Posters





WE ACT

# Ads and marketing comm





WE ACT

# Trade fairs STX booth





WE ACT

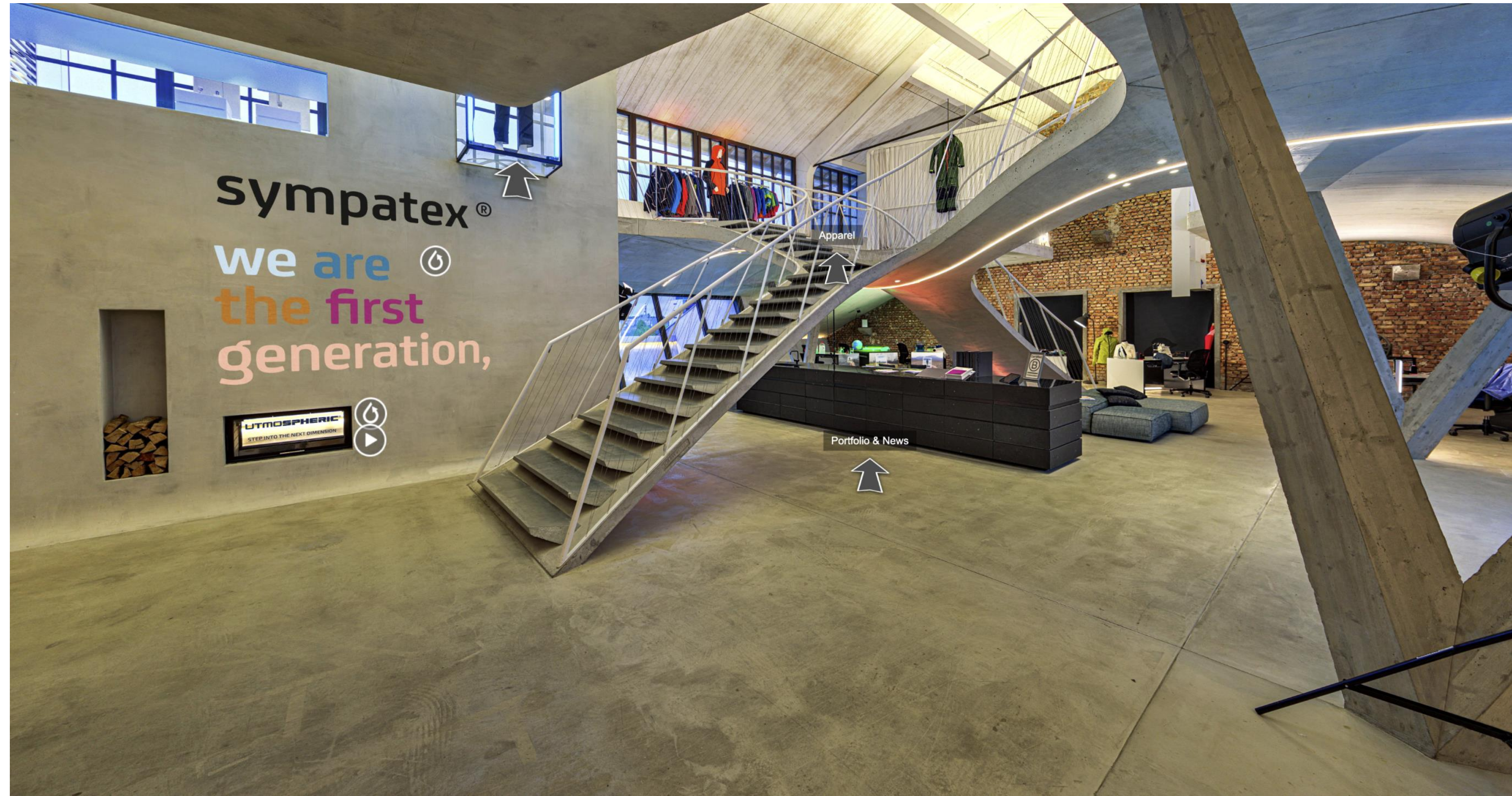
# Trade fairs & joint booth concepts





WE ACT

# Digital Showroom





WE ACT

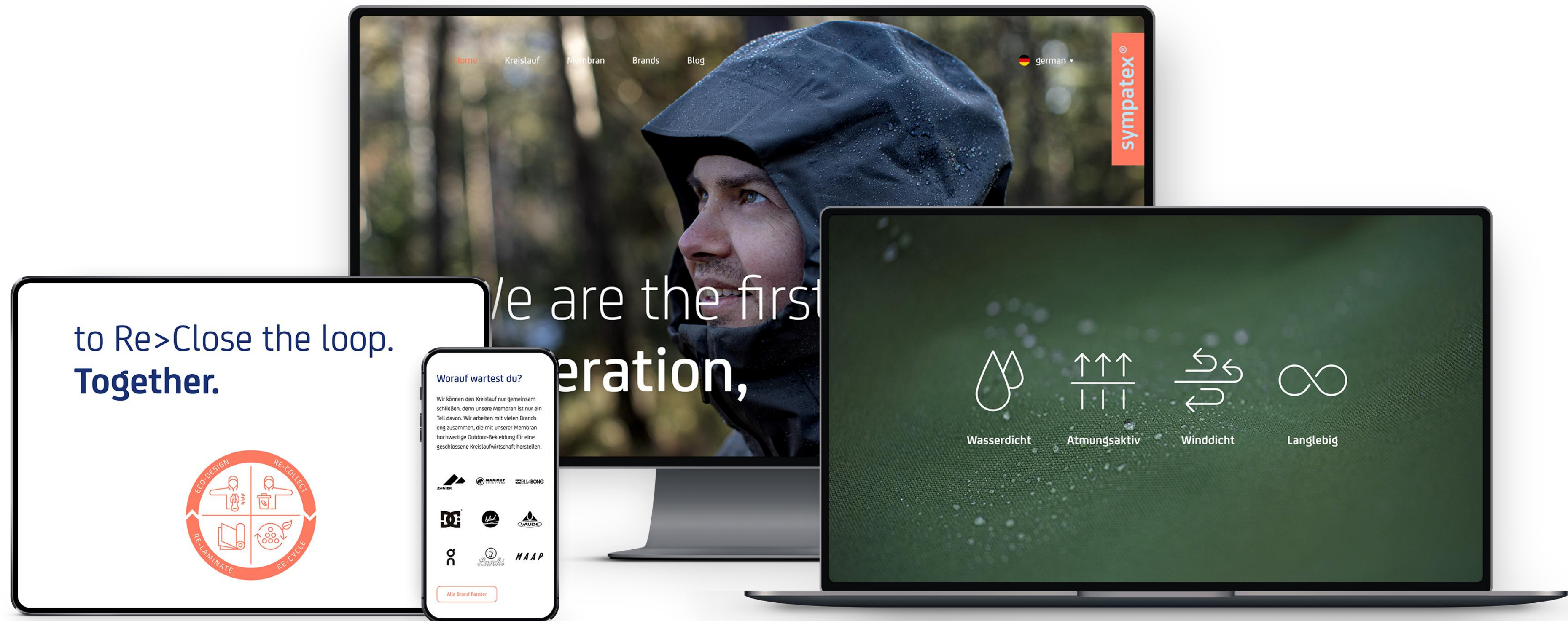
# Shop concept





WE ACT

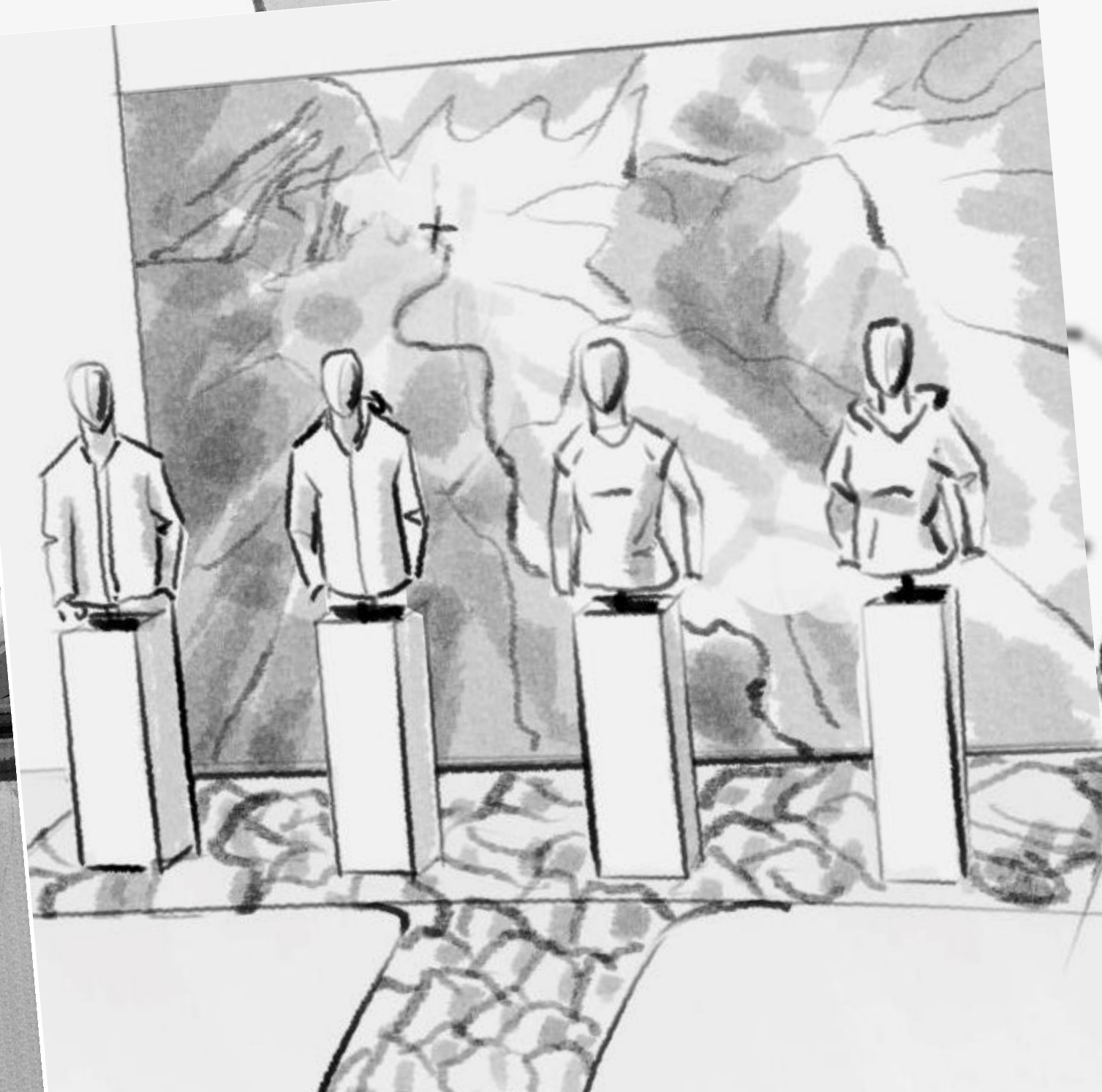
# New Website



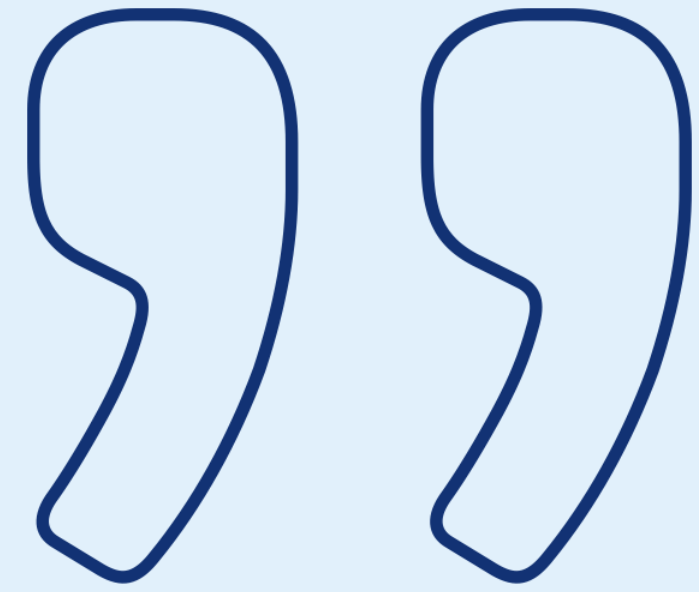




sympatex®







**What do you need?**



# Together.

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**sympatex®**