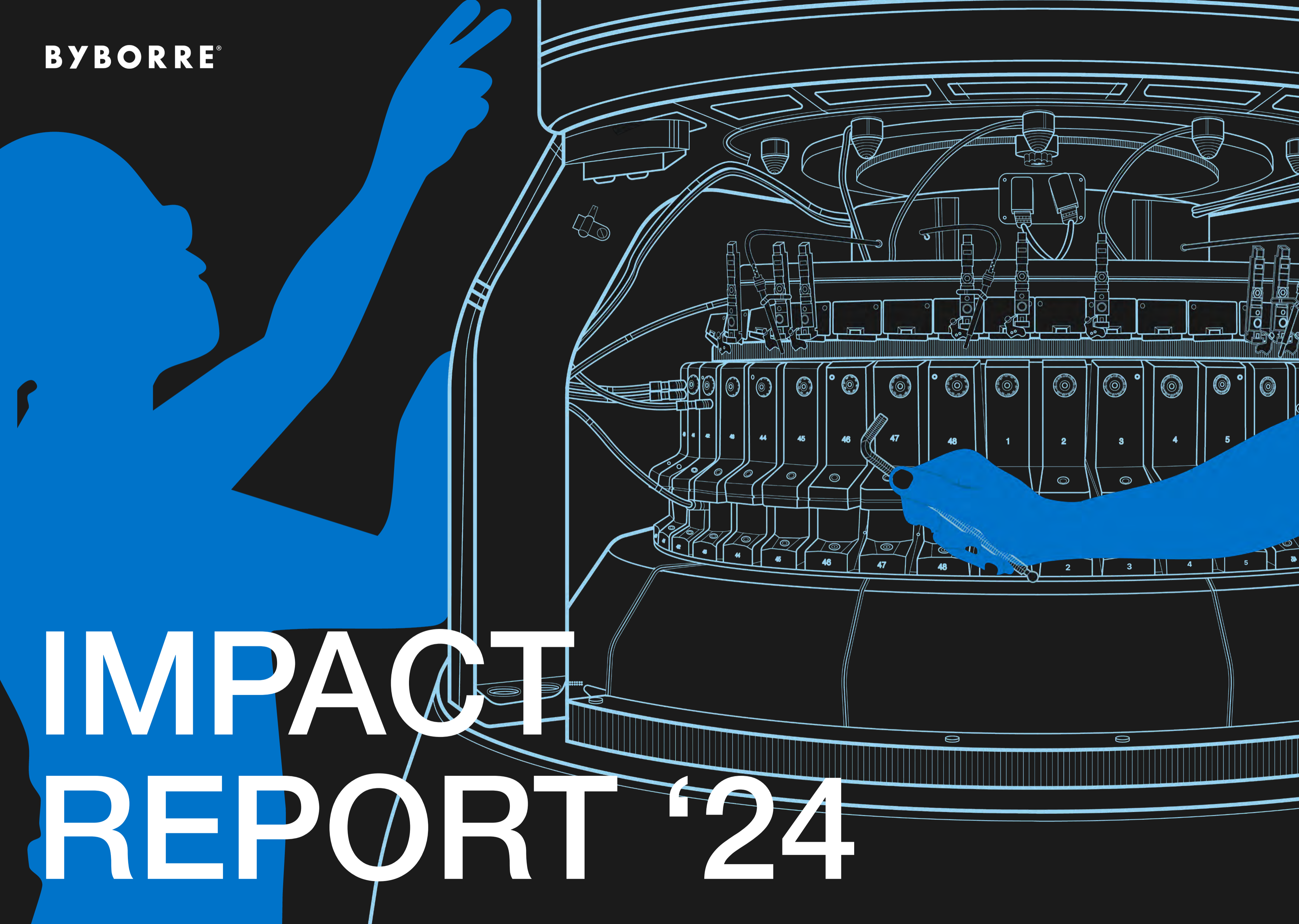
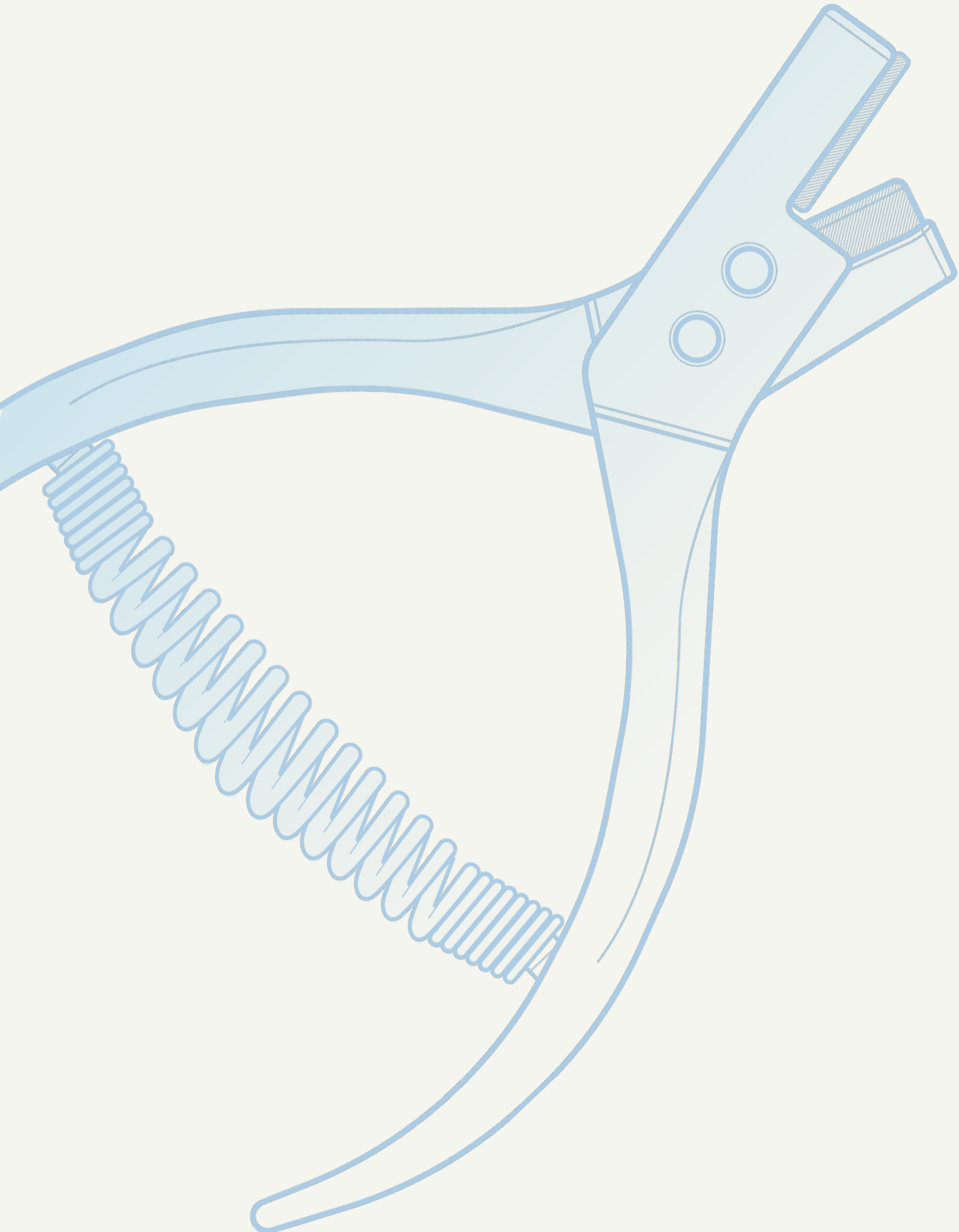


BYBORRE®



IMPACT REPORT '24

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DISCOVERING BYBORRE®'S PURPOSE

Textile by itself is not a means to change – the approach to its design, the contemplations on its purpose, functionality and material, and the road to its realization outweigh the value of the product itself.

And that process is exactly what has become incredibly complicated. No designer can navigate, let alone innovate, a supply chain independently, even though we need their creative prowess as creators, to make smart decisions. And each of these decisions matter, as we know that “more than 80% of the environmental impact of a product is determined at the design stage.”¹

Creators are the gatekeepers of doing good. What if every one of them, involved in the design of tactile products - be it a garment, couch or car seat - would be more in control of its design and production?

That is our dream. Cleaning up the dirty textile industry.

By questioning industry norms, we invite others to think differently and become part of something bigger—a movement that redefines the possibilities of textiles. Our promise is to give easy access to custom knitted textiles through our digital design platform and accelerate our commitment to continuously minimizing waste, reducing CO2 emissions and transparent sourcing.

Since 2015, we have been dedicated to transforming the textile industry by pioneering responsible design and production approaches.

Our ultimate goal is to replace 40 million meters of conventional textiles by custom knitted textiles through on-demand production by 2040.



¹ We came to 80% by consulting multiple sources, such as EU EcoLabel and Global Fashion Agenda's Fashion on Climate (European Commission, Directorate-General for Energy, Directorate-General for Enterprise and Industry, Ecodesign your future : how ecodesign can help the environment by making products smarter, European Commission, 2014, <https://data.europa.eu/doi/10.2769/38512>).

40 MILLION METERS

of conventional textiles
replaced by custom knitted
textiles through on-demand
production

BY 2040

IMPACT



DECODING THE MEANING OF IMPACT

In recent years, the term "sustainability" has, unfortunately, lost some of its genuine significance, often reduced to a mere greenwashing tactic. At BYBORRE®, we recognize a fundamental truth: every action, every decision, bears an impact. It's about how our actions create important and complex changes that resonate, negatively and positively, across various dimensions:

People

Our actions have a significant impact on the environment. It's not just about climate mitigation; we take a holistic approach. This involves monitoring how our emissions affect climate change and understanding our role in impacting biodiversity. We navigate our path with a keen awareness of our environmental footprint.

Community

Our influence extends to the communities we engage with. It's not solely about meeting checkboxes; it involves establishing meaningful connections. Whether collaborating with local artists or social enterprises, our impact resonates near and far, influencing lives in both visible and subtle ways.

Environment

Our actions have a significant impact on the environment. It's not just about climate mitigation; we take a holistic approach. This involves monitoring how our emissions affect climate change and understanding our role in impacting biodiversity. We navigate our path with a keen awareness of our environmental footprint.



Impact





OUR IMPACT JOURNEY SO FAR

Our mission is to set a new standard within the textile industry by pioneering responsible design and production methods. Change is not easy. Especially when you are competing against the giant conglomerates that have deep roots, vested relationships and many loyal customers in the textile industry.

Walking the impact path is iterative and requires an open mind – as new insights and challenges keep surfacing daily. We don't let it hold us back. We let it empower us even more to contribute to the necessary change.

Since 2015, every year, we have been taking small steps, tweaking things here and there to improve our products and our company's impact. Let's start by sharing some of the highlights so far, as that gives you an idea of what we've been working on.

Our intention with this report is to share honest and truthful progress that we have made and the challenges that we have faced since day one. We are committed to maintaining transparency about our products and partners.

2015

BYBORRE® WAS FOUNDED

Creative Borre Akkersdijk and tech entrepreneur Arnoud Haverlag join forces with the intention to change the textile industry for the better.

2019

BUILDING THE BRAND

BYBORRE® worked with pinnacle brands to test the concept of a digital, on-demand platform for responsible textiles as well as collaborating with transparent supply chain partners.

2020

ENVIRONMENTAL SAVING REPORT

BYBORRE® quantified and substantiated what the potential environmental savings would be per KG of BYBORRE® textile compared to its conventional counterpart.

2021

INTENTIONS REPORT

BYBORRE® conducted stakeholder interviews and put together an Intentions Report with deliverables for the year ahead.

2022

PRODUCT LIFE-CYCLE ASSESSMENT

In close collaboration with our supply chain partners, BYBORRE® completed a life cycle assessment for all our products.

2023

MATERIALITY ASSESSMENT

Using the GRI framework as guidance, we completed our first single materiality assessment. We identified 11 material topics which we will measure, track, and report on in the coming years.



Impact





THE CHALLENGES

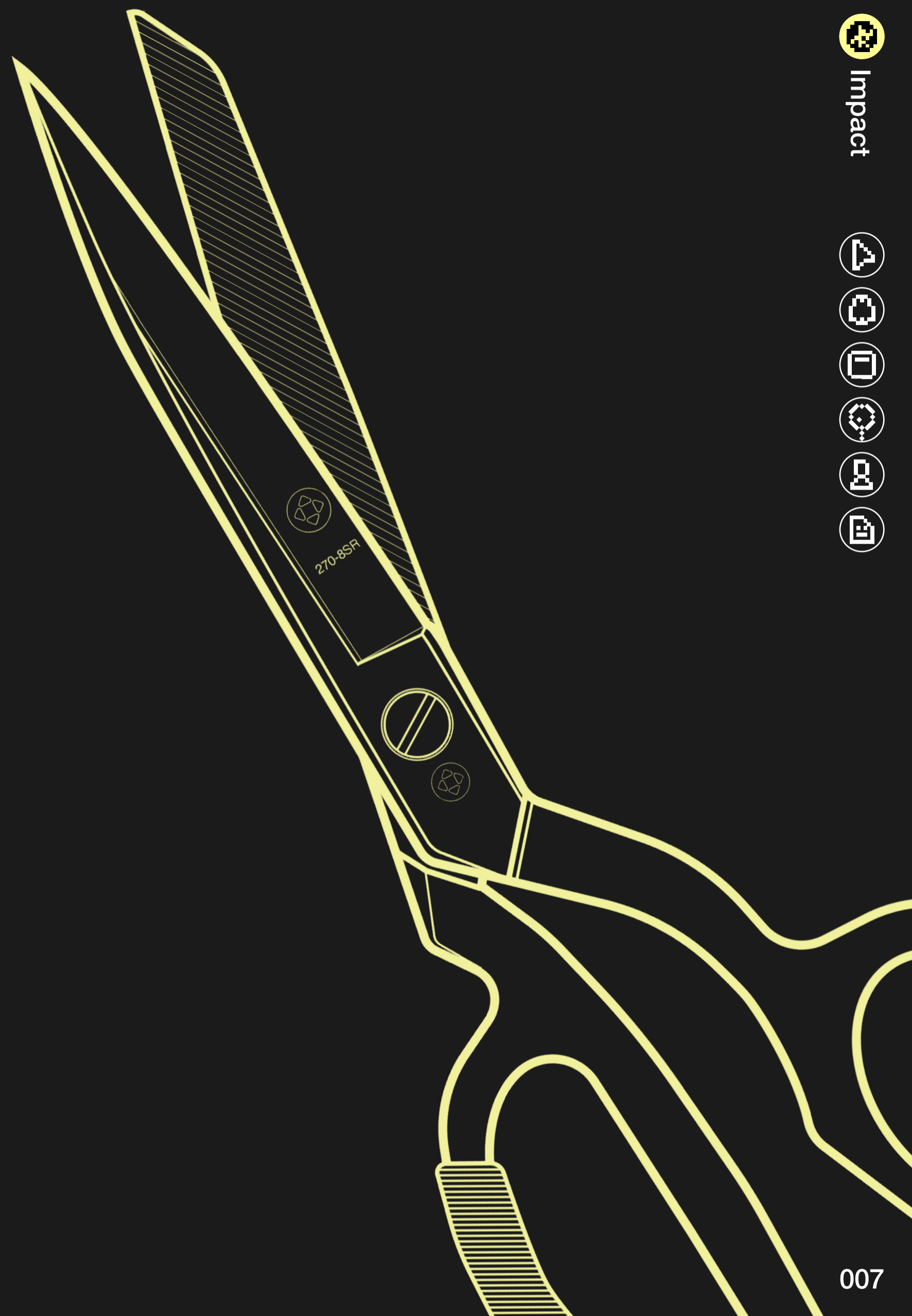
In the textile industry, there is no shortage of challenges. As we prefer to focus on what we can control, we have matched what we do with the change we believe is needed.

WHAT WE DO

Offer on-demand, custom knitted textiles through digital design, ensuring transparent sourcing and responsible production.

WHAT IF WE DIDN'T DO THIS

Players large and small would be sentenced to the industry standard of on stock (equals: waste of textiles), conventionally dyed textiles (equals: water and chemical usage), with no control over it's design (equals: missed opportunity for creative independence and the use of responsible materials).



Impact



OUR PRIORITIES

Through a detailed materiality assessment, we pinpointed **nine key topics** that matter most to both our company and our stakeholders. Following the GRI standards, we used a four-step process as outlined in the 'GRI 3: Material Topics 2021' standard for our 2023 evaluation. We delved into stakeholder engagement, impact analysis, assessment, and prioritization to ensure a thorough understanding of our landscape.

STEP 1

Stakeholder identification

Identified key stakeholders—investors, production partners, clients, and employees. Continuous engagement fosters understanding, feedback gathering, and accountability.

STEP 3

Impact assessment

Evaluated negative and positive impacts separately, considering severity, scale, scope, and irremediability. Stakeholder perceptions and expert assessments shaped the scoring.

STEP 2

Impact analysis

Conducted analyses, considered stakeholder insights, and structured potential sustainability matters. Internal validation and stakeholder surveys ensured impact validation.

STEP 4

Impact prioritization

Conducted a Management Board workshop to validate outcomes and set thresholds. The final list of material sustainability matters was intricately linked to impacts.



Impact





This report covers the highlighted material topics (listed below), which we actively measure, track, and set targets for. Some of these topics are already being measured, while others are still in the early stages. Our ultimate goal is to provide a comprehensive 360-degree impact overview of our efforts for both people and the planet.

Material topics:

- 01** **Climate change and climate mitigation**
Mapping and reducing our impact on the environment
- 02** **Biodiversity and ecosystem**
Identifying and protecting impacts on biodiversity
- 03** **Impact on water**
Reducing impact on water by eliminating chemical and plastic pollution
- 04** **Use of Materials**
Committed to using responsible materials only
- 05** **Circular Economy**
Designing products our products with longevity and recyclability in mind
- 06** **Responsible Business Conduct**
Collaborating and highlighting our supply-chain partners
- 07** **Workers in Value Change**
Ensure the well-being and rights of people across value-chain
- 08** **Consumers and End-Users**
Making responsible textile accessible to every creator
- 09** **Digitalization**
Reducing waste and travel during design phase

Additionally, we recognized certain topics as foundational to BYBORRE® due to their significance in the textile industry, such as animal welfare and employee diversity. Although these topics did not yield material impacts according to our scoring, BYBORRE® is currently devising a strategy to actively monitor these industry-specific subjects independently of GRI reporting.



Impact



IMPACT IN 2023

Since 2021, BYBORRE® has been actively measuring its environmental impact, initially focusing on textile products and later expanding to assess the overall company impact by 2023. In 2021, the company prioritized a Life-Cycle Assessment (LCA)² to understand indirect emissions, given its lack of direct control over upstream operations as we do not own or lease the facilities directly.



Impact



GHG emissions in 2023

Unit: Metric Tons CO₂eq

SCOPE 1

4.64

SCOPE 2

52.74

SCOPE 3

539.66

² The assessment covers the product life cycle from cradle to gate, with Ecoinvent 3.8 as the reference source for Global Warming Potential (GWP) using EF 3.0 methodology. This approach underscores BYBORRE®'s commitment to transparency and sustainability, aligning with recognized standards. Going forward, specifying methodology, data sources, and setting sustainability goals based on LCA findings will further enhance reporting credibility.



Material used by fiber type in 2023

Unit: Kg

COTTON

2,645.54

POLYESTER

7,866

RECYCLED POLYESTER

18,173.94

WOOL

2,670.91

NYLON

258.26

RECYCLED POLYESTER

1,675.72



Impact



Recycled materials used by fiber type :

% of total recycled material used in 2023:

60% of total volume produced



TARGETS IN 2023

We pinpointed three areas where we believe we can make substantial contributions. As a result, we set targets for 2030 in accordance with the guidelines outlined by the Science Based Target initiative (SBTi) for small and medium-sized enterprises. These targets act as a strategic framework, guiding our commitment to sustainable practices and responsible business conduct.

Target for climate mitigation:

- Reduce absolute Scope 1 and 2 emissions 50% by 2030 from a 2022 base year

Target for reducing our impact on water:

- Either use BlueSign approved materials or implement ZDHC MSRL policy

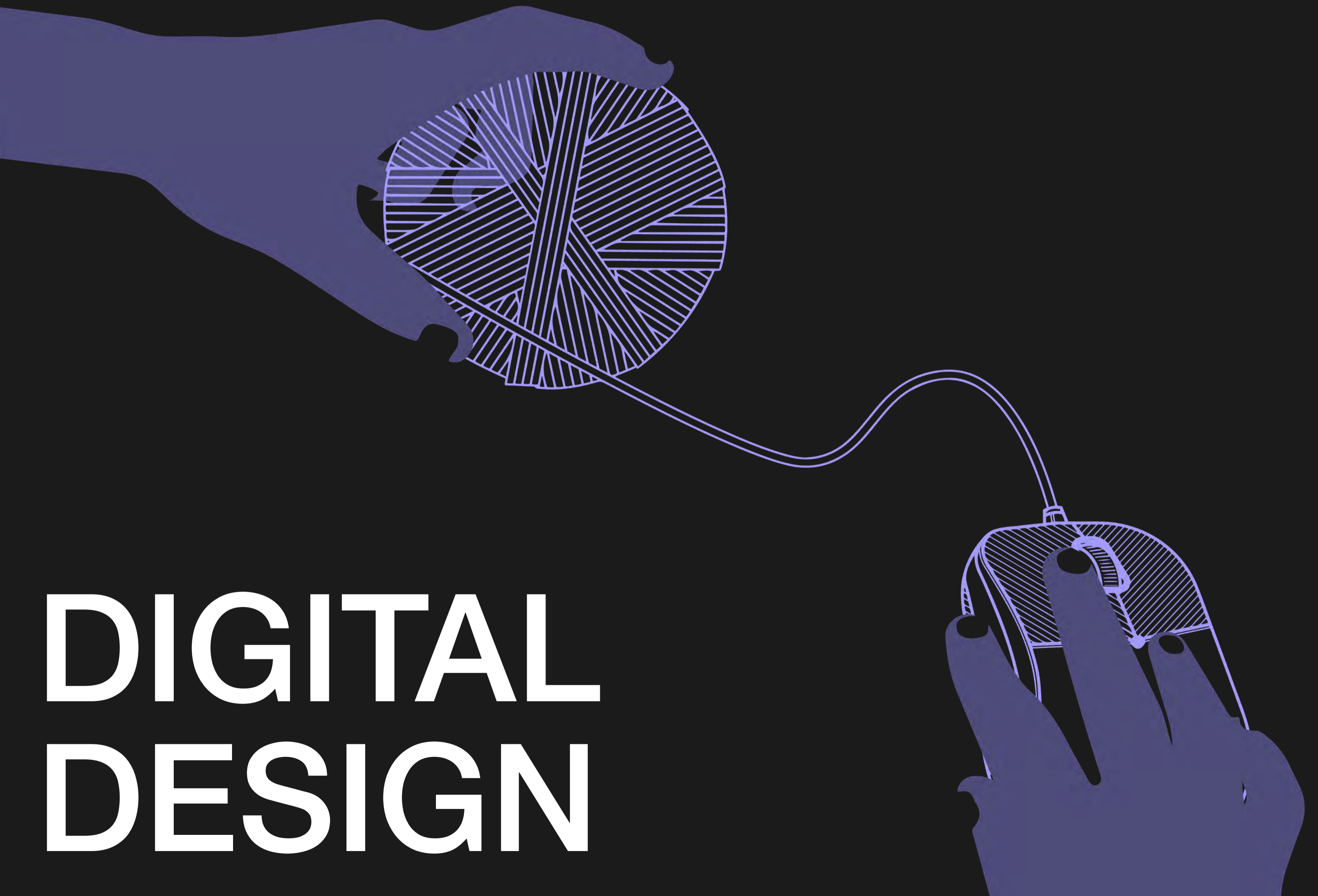
Target for reducing raw material impact:

- Reduce carbon footprint of key raw materials by 25% by 2030 from a 2022 base year



Impact





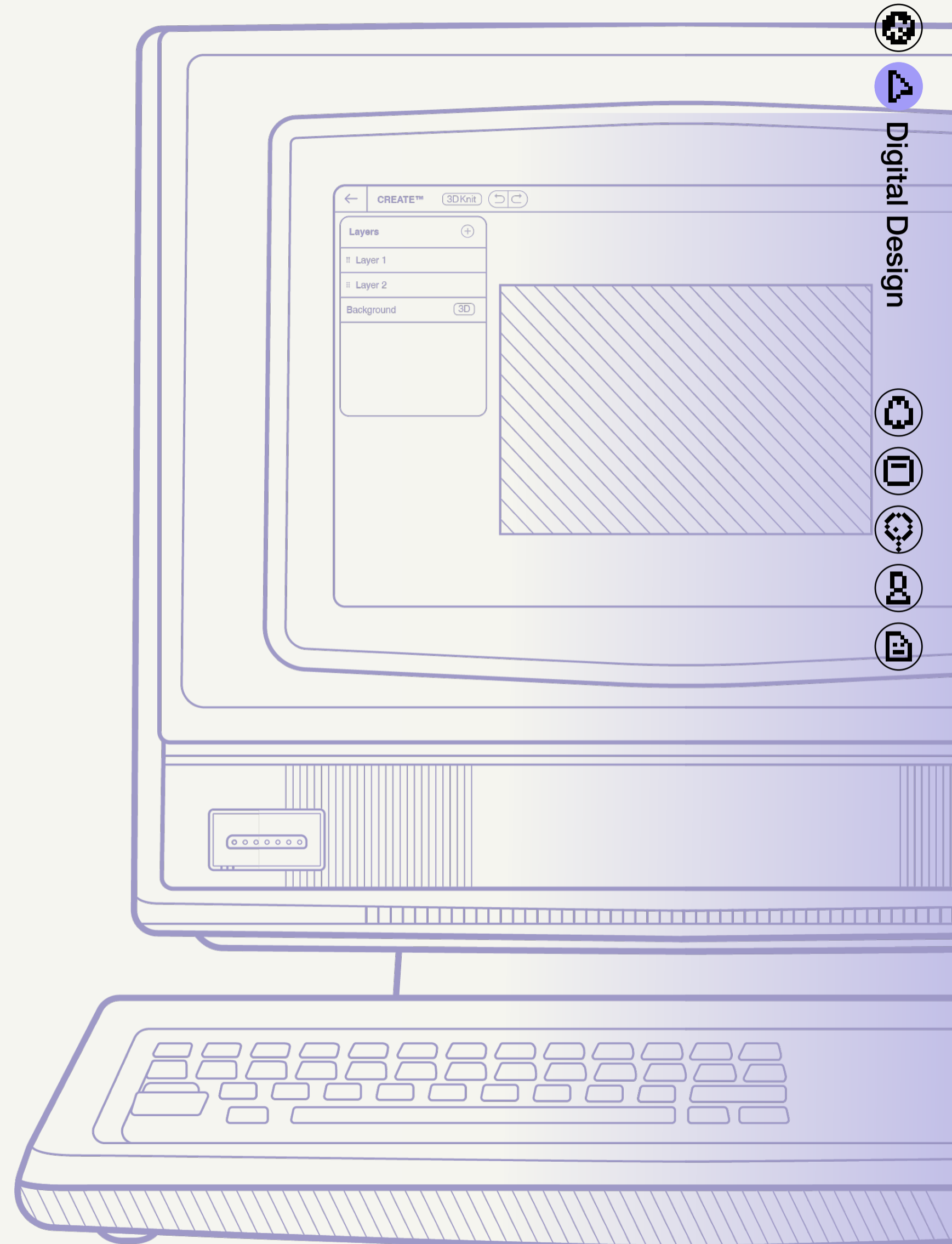
DIGITAL DESIGN

DIGITAL TEXTILE DESIGN TOOL

Described as a “real game changer” by the jury, BYBORRE®’s digital textile design tool Create™ won the Best Product Design title at the Dutch Design Awards 2021.

Create™ is an accessible design tool and platform, streamlining textile design for users. It helps reduce textile waste and empowers creators to express their creativity freely, infusing designs with their unique DNA.

With its user-friendly 'what you see is what you get' textile editor and curated textile packages, creators can customize the look, feel, and sustainability of their textiles. Plus, the platform gives you valuable insights into where your products come from, promoting transparency and accountability throughout the production process.



Digital Design





Digital Design



BYBORRE CREATE

50% 1800 px 1000 px px cm



Front Side Knit Down

- Art 7
- Art 6
- Art 5
- Art 4
- Art 3
- Art 2
- Art 1
- Base layer

1.4 DRAFT Save Submit

FILL

Puff & Color Pattern

3D™ knit technology gives you an option to make your design layer puffy and provides more color options! Let's highlight your artwork!





DESIGN IN CREATE™ IN 3 STEPS

In April 2023, we made some behind-the-scenes improvements that cut the carbon emissions from each visit to our design tool, create.byborre.com, from 12.324g to 2.96g. We did this by optimizing how we serve images to our visitors, reducing the resources used on our hosting platform.

STEP 1

Make conscious decisions by choosing from a variety of textile compositions.

Consider your use case and the planet by selecting from a curated range of compositions. These include recycled materials and natural fibers like merino wool or bio cotton, allowing for responsible design choices. When selecting the composition, you are able to see the impact of each one of them on the environment.

STEP 2

Creative freedom to add your brand DNA.

Easily express your brand's DNA through Create™. Utilize custom artwork to play with textures and colors, personalizing your textiles and making them uniquely yours. By designing virtually, you are reducing the amount of textile samples that need to be produced physically.

STEP 3

Iterate quickly and produce at scale.

Submit your designs, and our knit lab rapidly produces samples physically in Amsterdam. Once you're satisfied, we manage production through our global network of transparent suppliers and factories. The platform helps prevent overproduction by encouraging responsible design choices and offers clear insights into material origins and impacts, empowering users to make conscious decisions.



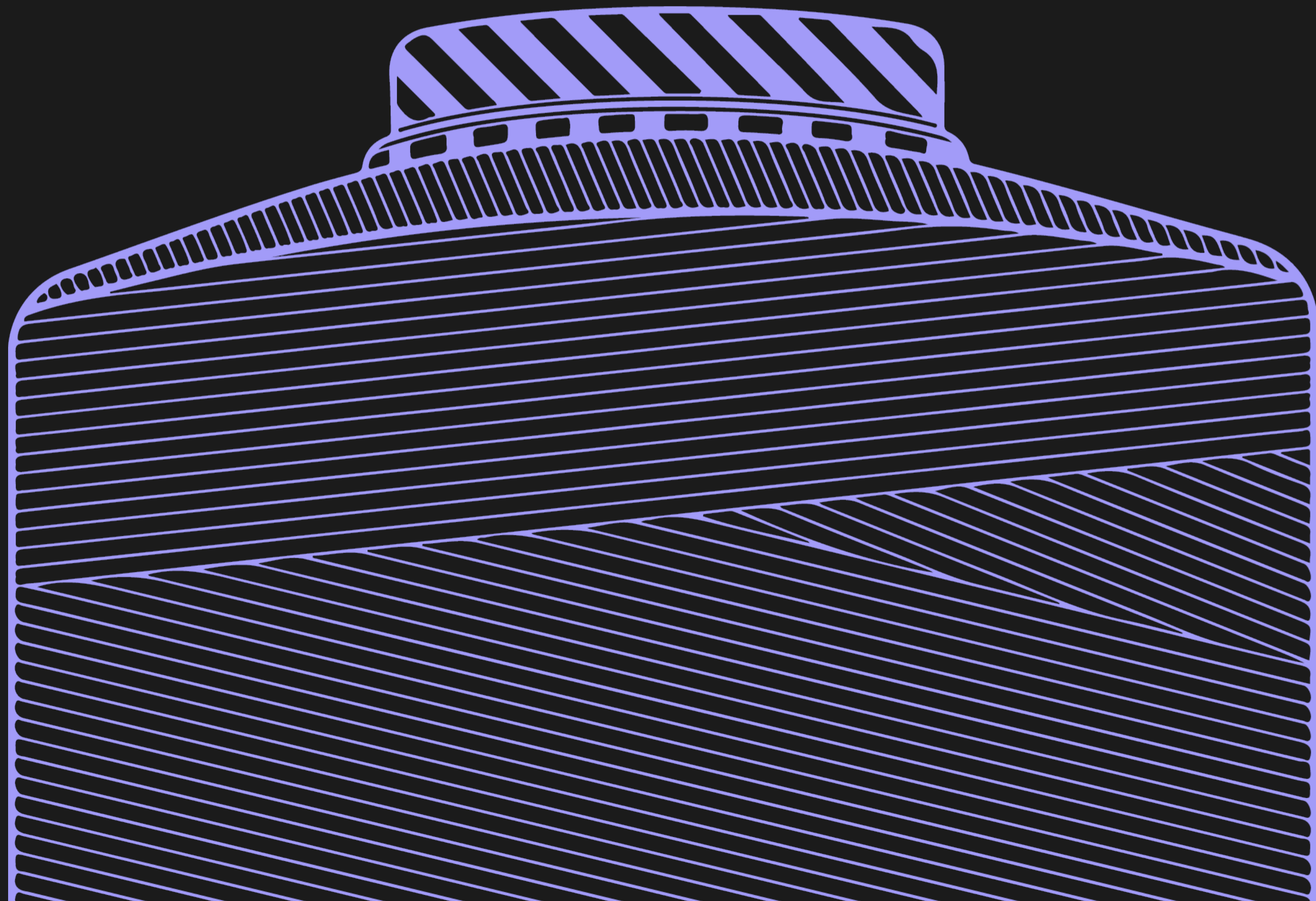
Digital Design



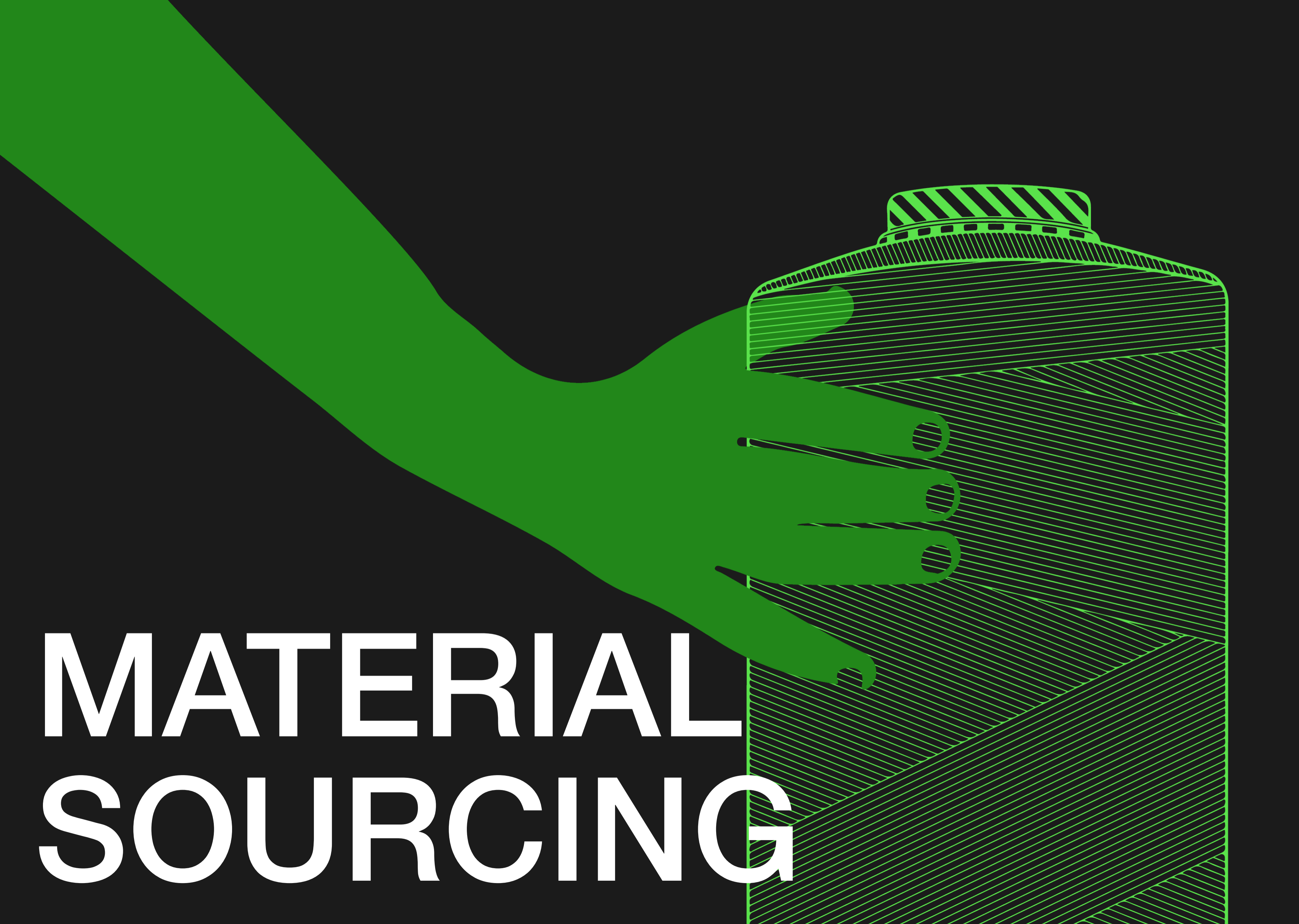


12.324g → 2.96g

In April 2023, we made some behind-the-scenes improvements that cut the carbon emissions from each visit to create.byborre.com (our design tool).



- 
- 
- Digital Design**
- 
- 
- 
- 
- 



MATERIAL SOURCING



RESPONSIBLE YARNS

“What is the most sustainable textile we offer?” This is a question we repeatedly receive from our clients. To answer briefly: there is no single solution, material, or process that is (most) sustainable.

Every action we take has an impact, with some actions having more significant effects than others, and some resulting in positive impacts while others may have negative consequences.

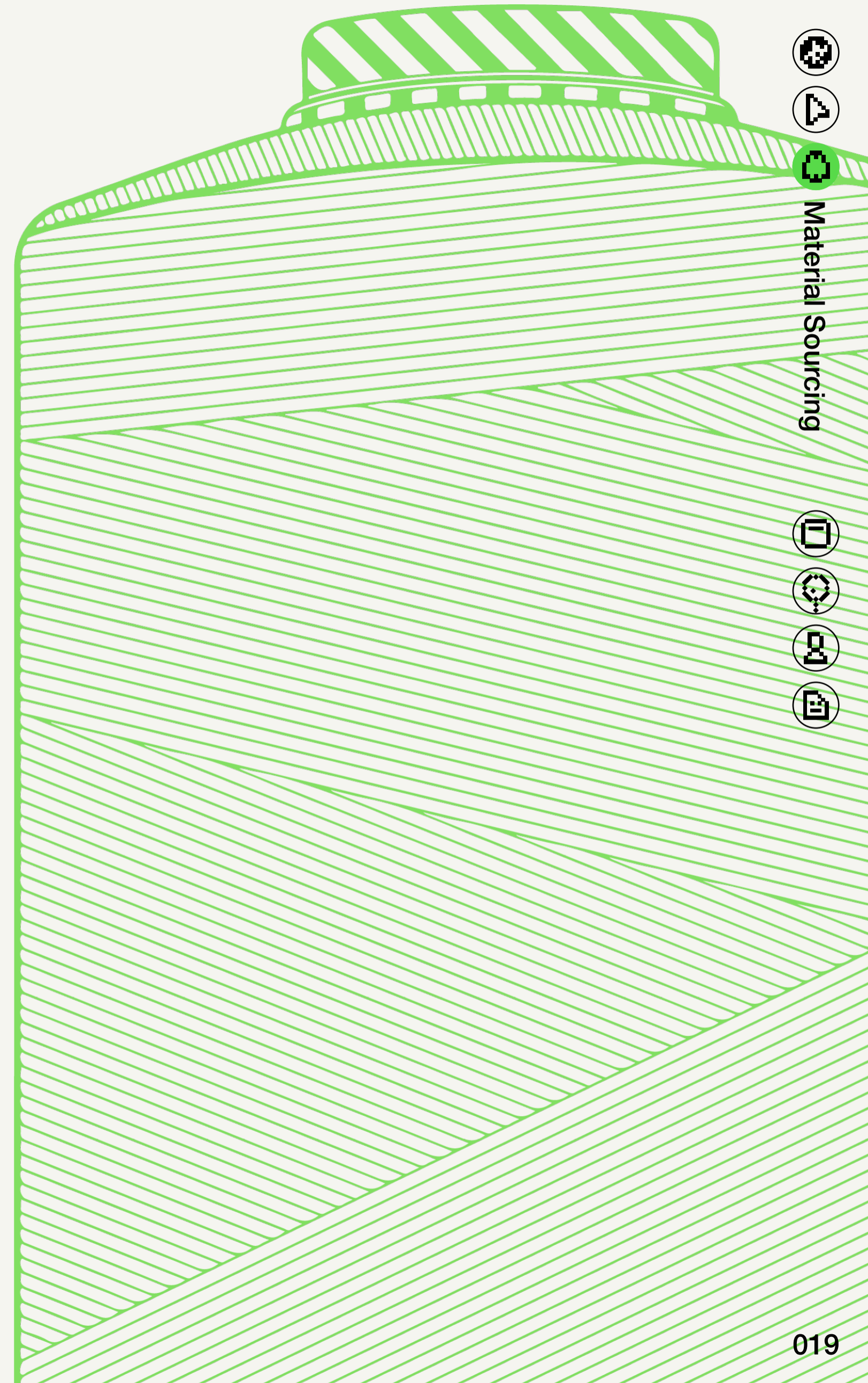
The first and most critical element in textile productions is **fiber**. The production and processing of fiber is one of the most impactful aspects of textile manufacturing, and thus, it is where our focus lies.

When it comes to fibers, we start by distinguishing between man-made and natural fibers, and we also consider treatments as their own category. Each type presents unique impact challenges and requires specific responses from us. There’s no one-size-fits-all approach to using sustainable

materials. Instead, we navigate tradeoffs, which push us to thoughtfully reconsider our material choices.

Material Index

In 2023, we launched our Material Index, a comprehensive guide that details the materials we use, each evaluated against our rigorous impact criteria. Inspired by Textile Exchange recommendations and meeting Ecolabel’s minimum requirements, our Material Index uses a scoring system from "-1 to 4." This scale shows the impact of each material, with "-1" being the lowest and "4" representing the highest or North Star rating.



Material Sourcing





Natural fibers



Material Sourcing

	4	3	2	1	0	-1	
COTTON	RECYCLED COTTON (POST-CONSUMER)	REGENERATIVE COTTON	100% RECYCLED COTTON (PRE-CONSUMER)	70% RECYCLED COTTON (PRE-CONSUMER)	>10% ORGANIC COTTON	IN TRANSITION ORGANIC COTTON / IPM COTTON	CONVENTIONAL COTTON
CERTIFICATIONS		REGENERATIVE ORGANIC COTTON (ROC)	GRS		OCS / GOTS	REEL COTTON OCS / GOTS	
WOOL	REGENERATIVE WOOL	100% RECYCLED WOOL	70% RECYCLED WOOL (POST-CONSUMER)	50% RECYCLED WOOL (POST-CONSUMER)	>75% CERTIFIED MERINO WOOL	RESPONSIBLE MERINO WOOL	CONVENTIONAL (POTENTIALLY MULESED) WOOL
CERTIFICATIONS		ZQRX	GRS, RCS, CARDATO RECYCLED (RECYCLED WOOL PRATO, ITALY)		RWS, ZQ	NO CERTIFICATIONS* <small>*though merino wool sourced from countries that have mulesing banned</small>	
OTHER PLANT-BASED FIBER*	FIBER MADE FROM CROP / NON-CROP RESIDUE	RECYCLED FIBER (POST-CONSUMER)	ORGANIC AND CERTIFIED				CONVENTIONAL FIBER
CERTIFICATIONS		REECO, RSC / GRS	OCS / GOTS				

*HEMP, FLAX, ETC.



Man-made fibers



Material Sourcing

	4	3	2	1	0	-1	
NYLON	100% BIO-BASED POLYAMIDE / NYLON	50% BIO-BASED POLYAMIDE / NYLON	>20% BIO-BASED POLYAMIDE / NYLON	100% RECYCLED POLYAMIDE / NYLON (PRE/POST-CONSUMER)	70% RECYCLED POLYAMIDE / NYLON (PRE/POST-CONSUMER)	50% RECYCLED POLYAMIDE / NYLON (PRE/POST-CONSUMER)	VIRGIN POLYAMIDE / NYLON
CERTIFICATIONS	USDA BIOPREFERRED		GRS, RCS				
POLYESTER	100% BIO-BASED POLYESTER	50% BIO-BASED POLYESTER	>20% BIO-BASED POLYESTER	100% RECYCLED POLYESTER (PRE/POST-CONSUMER)	70% RECYCLED POLYESTER (PRE/POST-CONSUMER)	50% RECYCLED POLYESTER (PRE/POST-CONSUMER)	VIRGIN POLYESTER
CERTIFICATIONS	USDA BIOPREFERRED		GRS, RCS, SCS RECYCLED CONTENT STANDARD				
MAN-MADE CELLULOSIC	FIBER MADE FROM CROP / NON-CROP RESIDUE	RECYCLED FIBER (POST-CONSUMER)	ORGANIC AND CERTIFIED			NON-CERTIFIED VISCOSE / RAYON	
CERTIFICATIONS	GRS, RCS, SCS RECYCLED CONTENT STANDARD		FSC, PEFC, BLUEDESIGN				

*HEMP, FLAX, ETC.



This is how our yarns score now:

YARN	COMPOSITION	SCORE	AVERAGE SCORE
SINTERAMA NEW LIFE™	100% RECYCLED POLYESTER	2	2
FILMAR FILOSCOZIA® BIOFIL	100% BIO-COTTON	1	1
SUDWOLLE OTW MIDWAY	40% RECYCLED NYLON 60% MERINO WOOL (NON-MULESED)	0 0	0
ZKS TRIWITEX® PREMIUM	75% WOOL (AUSTRALIAN) 25% NYLON	0 0	-1
POLYESTER FILLING	100% VIRGIN POLYESTER	-1	-1



As part of our commitment to improving our offerings, we are in the process of switching from 100% virgin polyester filling yarn to 100% recycled polyester filling yarn. This transition, currently in testing and validation, is expected to wrap up in 2024, reinforcing our dedication to reducing environmental impact.

Additionally, while our wool yarns already features non-mulesed wool, we are actively exploring options to achieve Responsible Wool Standard (RWS) certification for this yarn. This reflects our ongoing efforts to enhance the ethical and sustainable sourcing of our materials.

It is worth mentioning that all our yarns, regardless of type, are OEKO TEX Standard 100 certified, ensuring they meet strict chemical safety criteria. Our cotton yarn is GOTS certified, and our recycled nylon and recycled polyester yarns hold GRS certification.

As we continue to evolve and refine our materials, our Material Index remains our guiding framework, ensuring every choice aligns with our impact goals. We revise our materials menu annually and continuously seek out new materials. Our internal Knit Lab serves as both a testing ground for yarn suppliers and a platform for innovation.



Our principles to reduce material impacts in multiple ways:

AVOID MATERIALS THAT DAMAGE HUMAN OR ECOLOGICAL HEALTH,

AVOID MATERIALS THAT DEplete NATURAL RESOURCES,

USE RECYCLED OR RECLAIMED MATERIALS,

USE RENEWABLE RESOURCES

USE MATERIALS FROM RELIABLE CERTIFIERS.

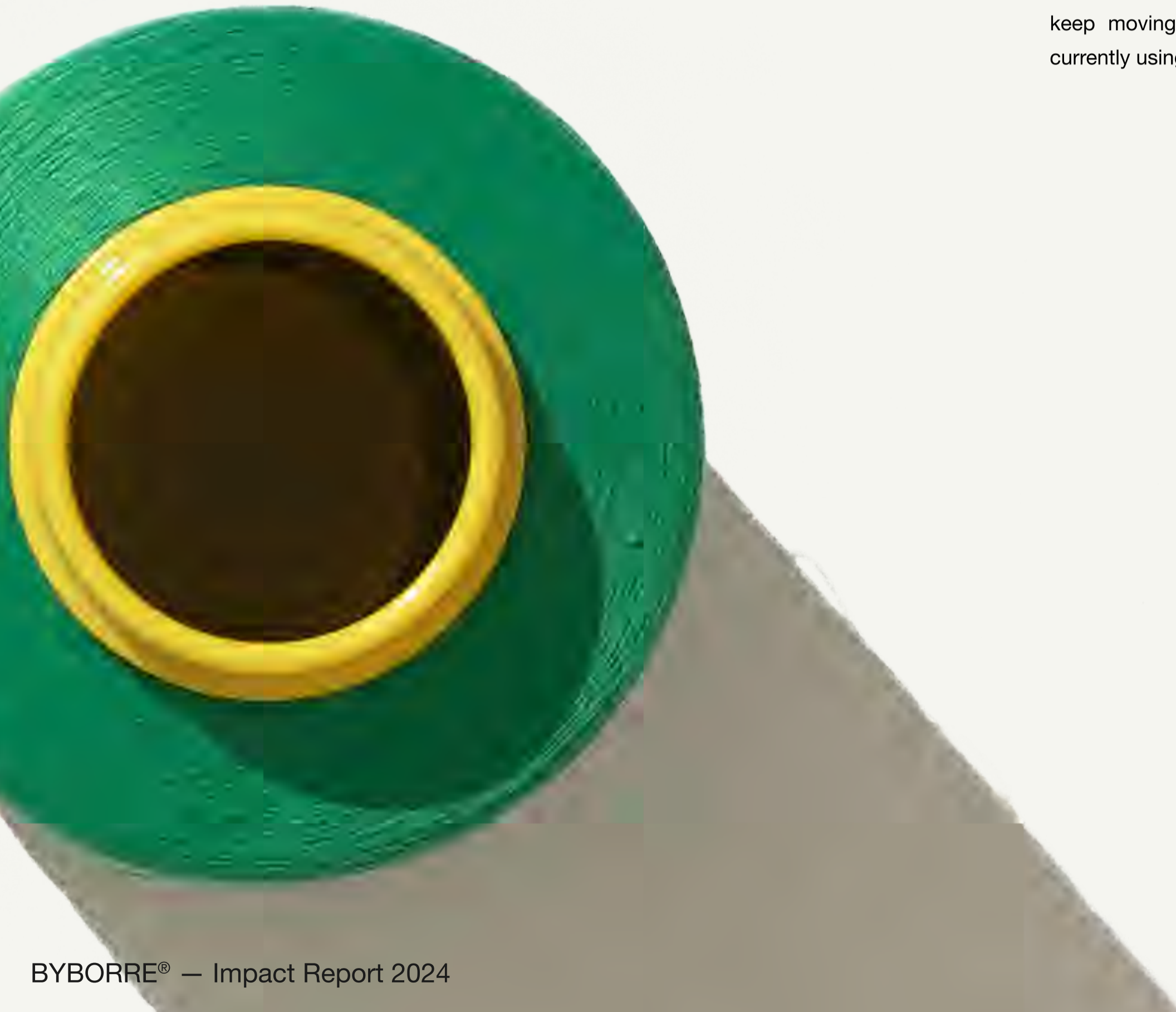


Material Sourcing





OUR MATERIALS NOW: MAN-MADE FIBERS



When it comes to man-made fibers, the challenge is their reliance on fossil fuels, both as raw materials and in the manufacturing process. This is especially true for synthetic fibers, which require crude oil. On the other hand, man-made cellulosic fibers (MMCFs) use renewable resources like wood pulp or organic waste, making them a viable alternative—provided they're responsibly sourced to avoid deforestation and land conversion issues.

Our goal is to reduce our dependence on fossil fuels without competing with edible crops. As we keep moving forward, here are the yarns we're currently using →→→





Polyester yarns:



SINTERAMA NEWLIFE™

Newlife™ is the product of an ambitious project developed by Sinterama. It uses a mechanical process to transform bottles into a polymer, without the use of chemicals which could be harmful for the environment. It holds OKEO TEX Standard 100 and a GRS certification.

Nylon yarns:



ZKS TRIWITEX® PREMIUM **25% VIRGIN NYLON**

A TRIWITEX® yarn with wool core and synthetic fiber filament exclusively preserves the positive properties of wool, while eliminating the negative aspects.



SUDWOLLE OTW MIDWAY **40% RECYCLED NYLON**

OTW® Midway (GRS certified) comes from the recycling of pre-consumer polyamide and thus is a perfect example of circular production.



Material Sourcing





OUR MATERIALS NOW: NATURAL FIBERS



When it comes to natural fibers, cotton takes up about 30% of the global fiber market. The challenge here is our over-reliance on cotton, which is a water-intensive, pesticide-heavy crop often grown through monocropping to meet global demand.

One way to address this is by sourcing organic cotton instead of conventional cotton. About 95% of organic cotton is rain-fed, free from pesticides, and protective of crop diversity and soil health. However, a long-term solution would involve developing and scaling more alternatives to cotton while supporting the livelihoods of (organic) cotton farmers worldwide. This is no small feat, so our immediate response is to go organic and then map out our pathways to alternatives.

Wool is another natural fiber we offer to our clients. It is a renewable, biodegradable fiber with impressive temperature-regulating properties. However, wool also comes with environmental and ethical issues, from animal welfare concerns (like sheep-mulesing and slaughter) to land use and desertification from intensive farming. We're working to source wool certified with the Responsible Wool Standard (RWS), which requires ongoing dialogue with our suppliers. Since we offer wool blends, we haven't always been able to control the type of wool used in these blends.

Ultimately, our aim is to support alternatives to cotton and reduce our dependence on virgin animal fibers by exploring options like hemp, linen, flax, and regenerative wool. As we keep moving forward, here are the yarns we're currently using

→ → →



Material Sourcing





Cotton yarns:



FILMAR ORGANIC EGYPTIAN COTTON

GOTS certified.

Wool yarns:



ZKS TRIWITEX® PREMIUM

75% MERINO WOOL

A TRIWITEX® yarn with wool core and synthetic fiber filament exclusively preserves the positive properties of wool, while eliminating the negative aspects.



SUDWOLLE OTW MIDWAY

(60% MERINO WOOL

OTW® Midway (GRS certified) comes from the recycling of pre-consumer polyamide and thus is a perfect example of circular production.





YARN DYEING

Dyeing textiles or yarns has a significant environmental footprint. First, dyeing requires chemicals that can lead to water pollution, harming ecosystems and local communities. Second, it's highly energy-intensive, often relying on non-renewable sources. Third, the dyeing process uses a lot of water. Synthetic dyes carry toxicity risks and rely on non-renewable resources.

Natural dyes are less toxic but still need land to grow the plants. Bacterial dyes might be a promising alternative, as they use less water, chemicals, and land. Our goal is to expand our offering of natural dyes and innovative alternatives.

Our primary and most effective way to reduce the environmental impact of dyeing is simply not dyeing the textiles. We only dye our yarns, and creators use the editor in Create™ to craft the colors they want through multicolors. This way, a textile gets its color by blending differently colored yarns. You could call it optical coloring or pointillism in textile.





GOALS

Moonshot goals

- 50% cotton and wool from regenerative sources by 2030
- Increase the uptake of recycled synthetics in our Create™ Menu
- Eliminate 100% synthetic fibers from our Create™ Menu by 2030
- Use 100% BlueSign approved materials or implement ZDHC MSRL policy

Actions taken

- ✕ Life-Cycle Assessment completed in 2022
- ✕ 100% of our synthetic yarns are GRS (Global Recycling Standard) certified
- ✕ Sourced recycled polyester filling yarn
- ✕ 100% of the cotton we use is GOTS certified or recycled
- ✕ 100% wool is non-mulesed
- Eliminate 100% synthetic yarns from our Create™ menu and textile design library
- ✕ Internal testing a bio-based yarn which is made using plant-based ingredients
- Research low-impact dyeing solutions
- ✕ We do not dye textiles

Yearshot goals 2024

- Develop a timeline to introduce RWS certified wool in our Create™ Menu
- Introduce a recycled polyester filling yarn

LESSONS LEARNED

Working with post-consumer textile yarns in a big challenge in knitting

In 2022, we teamed up with a top research institute in Amsterdam to run textile production trials using yarns made from recycled textile fibers (post-consumer textiles). Although we were excited, the results didn't quite meet our expectations. However, we gained valuable insights that helped us improve the yarn's make and composition. Here's what we learned:

The yarn wasn't strong enough for circular knitting.

Lint buildup from the yarn caused issues with knitting machines and fabric quality.

The yarn had uneven thickness, leading to potential fabric flaws.

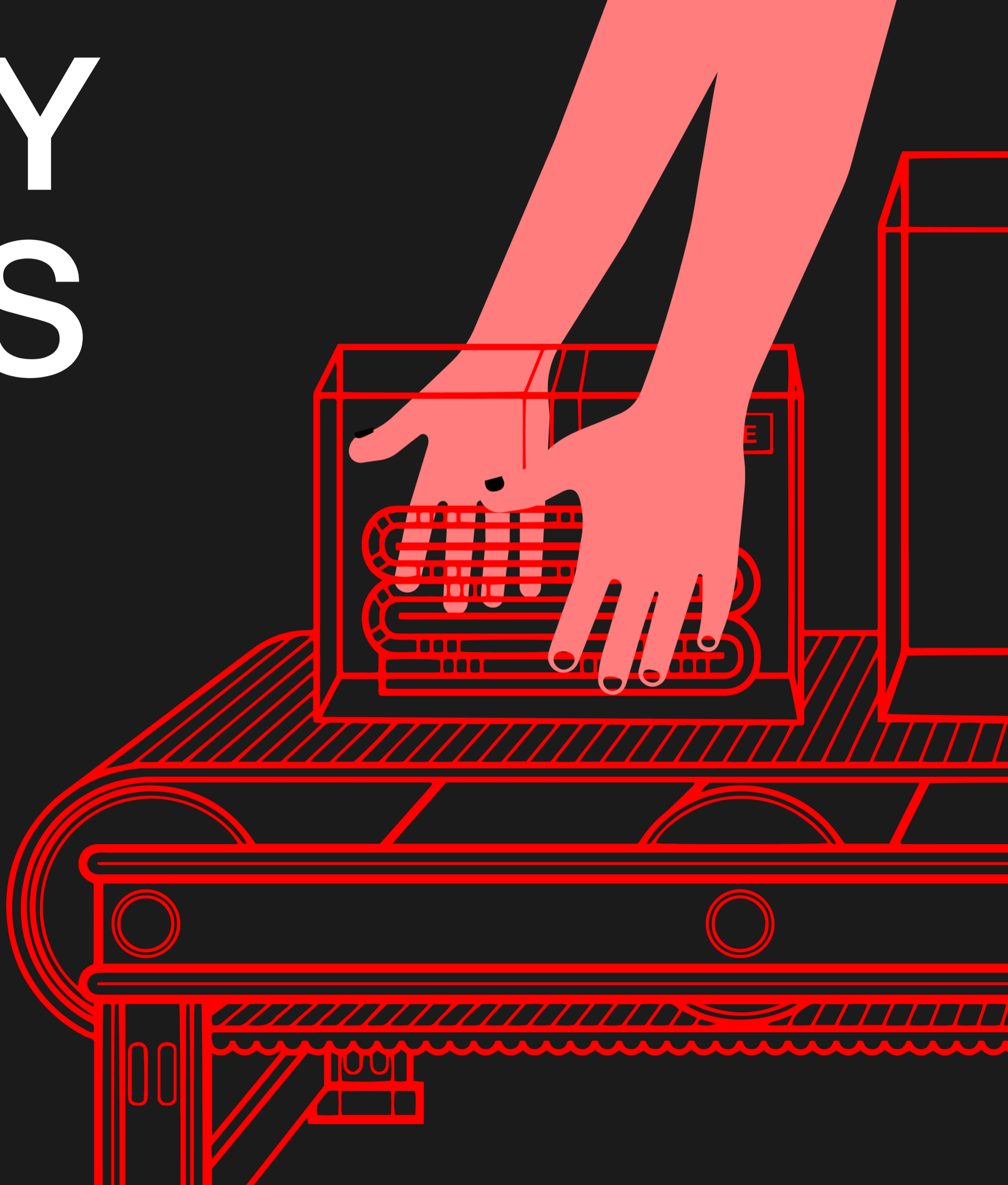
We realized that yarn quality depends not only on the fiber but also on the spinning process. We found that ring-spun yarns are better suited for knitting than open-ended or flat yarns. These lessons will guide our future textile innovation efforts.



Material Sourcing



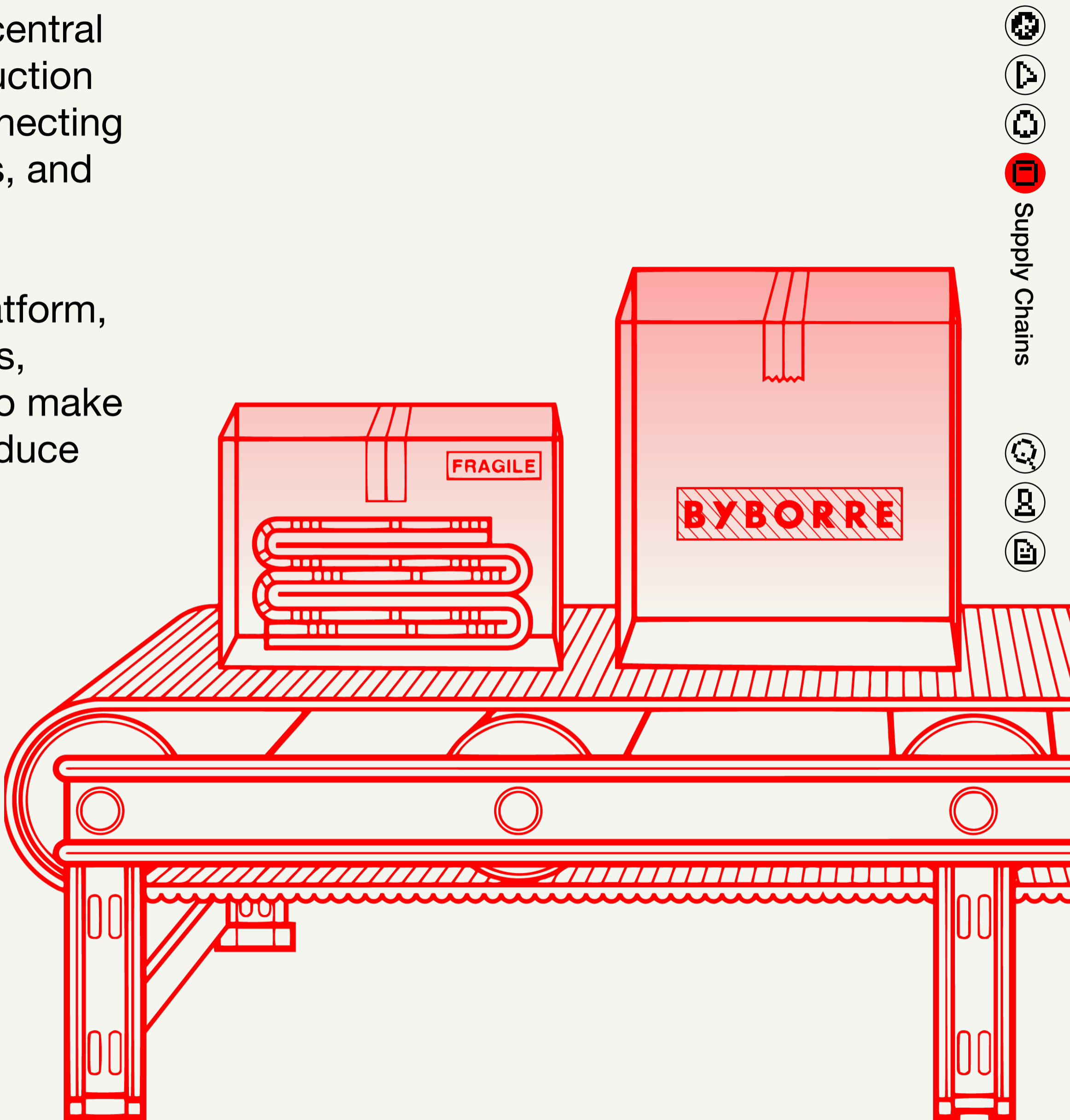
SUPPLY CHAINS





The essence of BYBORRE® lies in its central role within the textile design and production process. It serves as a pivotal link connecting material suppliers, production partners, and its customers.

Through our digital design tool and platform, we are able to streamline key decisions, empowering our production partners to make good use of our digital assets and produce on-demand, right near our clients.





RESPONSIBLE PARTNERSHIPS

At BYBORRE®, responsible sourcing starts with finding the right partners to collaborate with. We look for suppliers who share our values and are on board with our company’s mission.

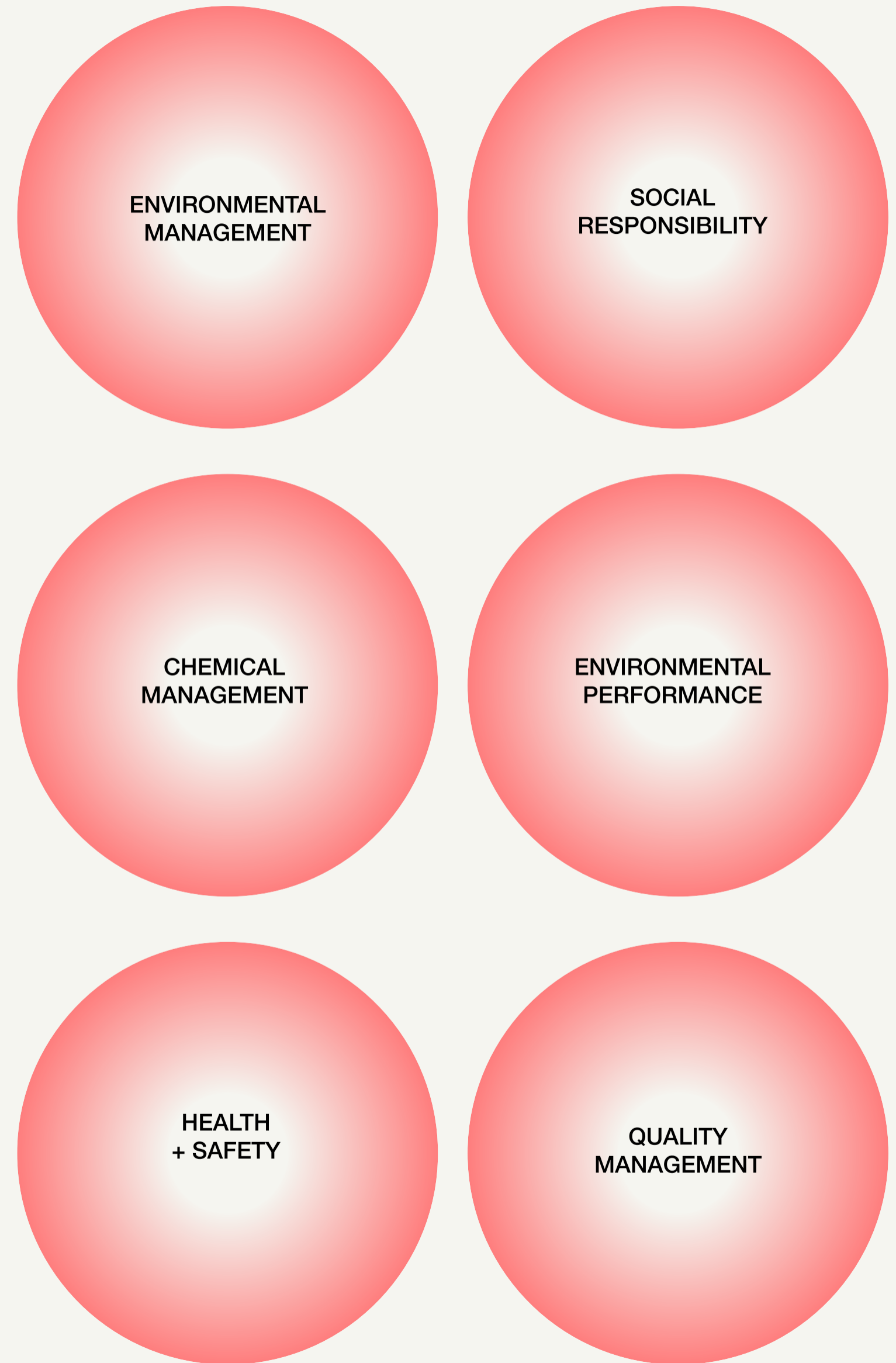
Understanding the dynamics between brands and suppliers, we are committed to fairness and transparency in all our partnerships. To show this commitment, we proudly showcase our partners' names and technologies on our publicly accessible textile passports via our design tool platform.

To navigate this complex landscape, we have a thorough checklist that any potential new suppliers must meet before coming on board. Plus, we are in the process of developing official policies for Responsible Procurement to make our processes

even more effective and efficient. This strategic approach highlights our ongoing dedication to responsible and ethical sourcing practices.

One of our major textile manufacturers in Germany holds an OKEO-TEX SteP certification, guaranteeing the highest standards for both the social and environmental aspects of textile production.

STeP analyzes all important areas of a facility using six modules:



Supply Chains



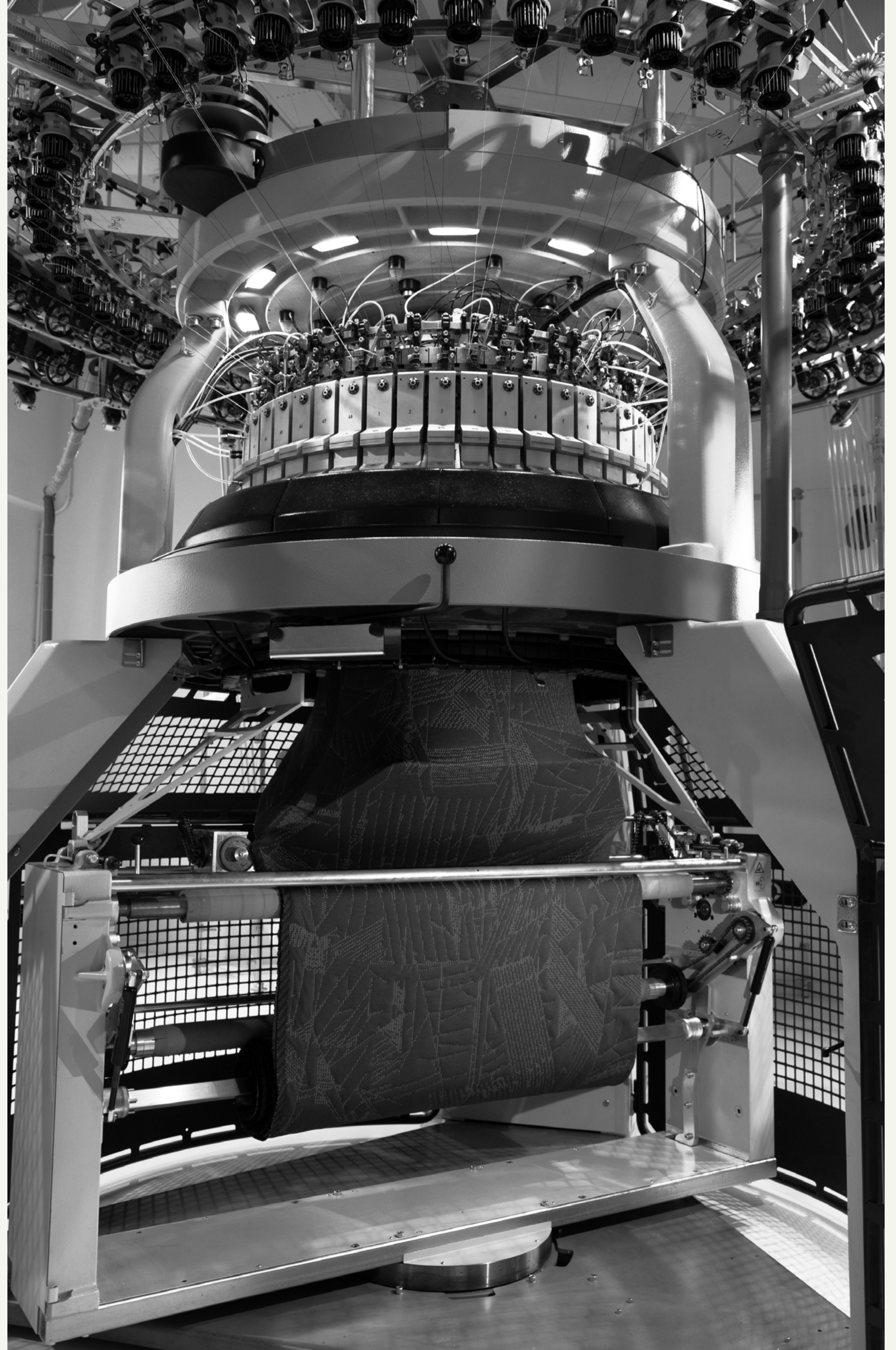


ON-DEMAND PRODUCTION

Traditional textile production usually operates on a waterfall model, where large quantities of materials are produced in advance, leading to overproduction and significant waste if market demand fluctuates. BYBORRE® challenges this approach with a flexible, on-demand production model.

Leveraging our digital design platform, we enable brands and creators to get customized textiles that are only produced after orders are finalized. This minimizes excess inventory and waste, while also reducing the environmental footprint associated with surplus production and transportation. By bridging design and production digitally, we empower our partners to produce responsibly and

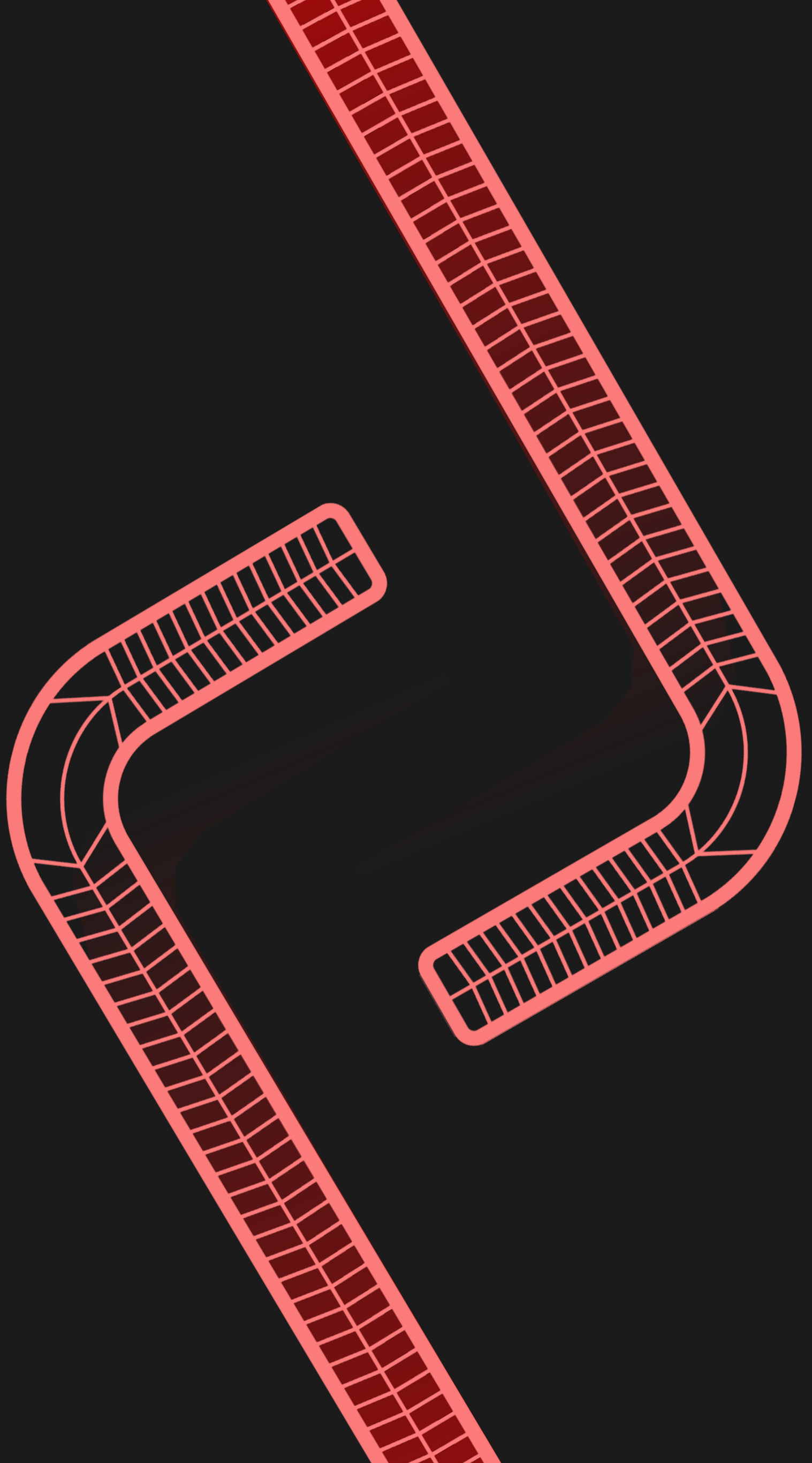
efficiently, meeting the exact needs of our customers without unnecessary resource expenditure. This model not only supports responsible production but also enhances responsiveness to market trends, making it a smarter, more agile alternative to the traditional system.



Supply Chains



By bridging design and production digitally, we empower our partners to produce responsibly and efficiently, meeting the exact needs of our customers without unnecessary resource expenditure.





MAPPING OF SUPPLY-CHAIN

While we don't own our operational facilities, we do run a small innovation lab in Amsterdam focused on in-house sampling. Our philosophy centers on making the most of existing systems and machinery through tolling arrangements, rather than building new infrastructure that would use up more resources. This approach fits perfectly with our dedication to resource efficiency and sustainability.

TIER 3

Raw material and fiber production

Origin and processor of raw fibers, ingredients, or feedstock.

TIER 2

Yarn processing

Processor of raw fibers or feedstock into yarns.

TIER 1

Finished product

Textile manufacturing and finishing.

TIER 0

Office and sampling lab

Offices, research, custom sample production.



Supply Chains





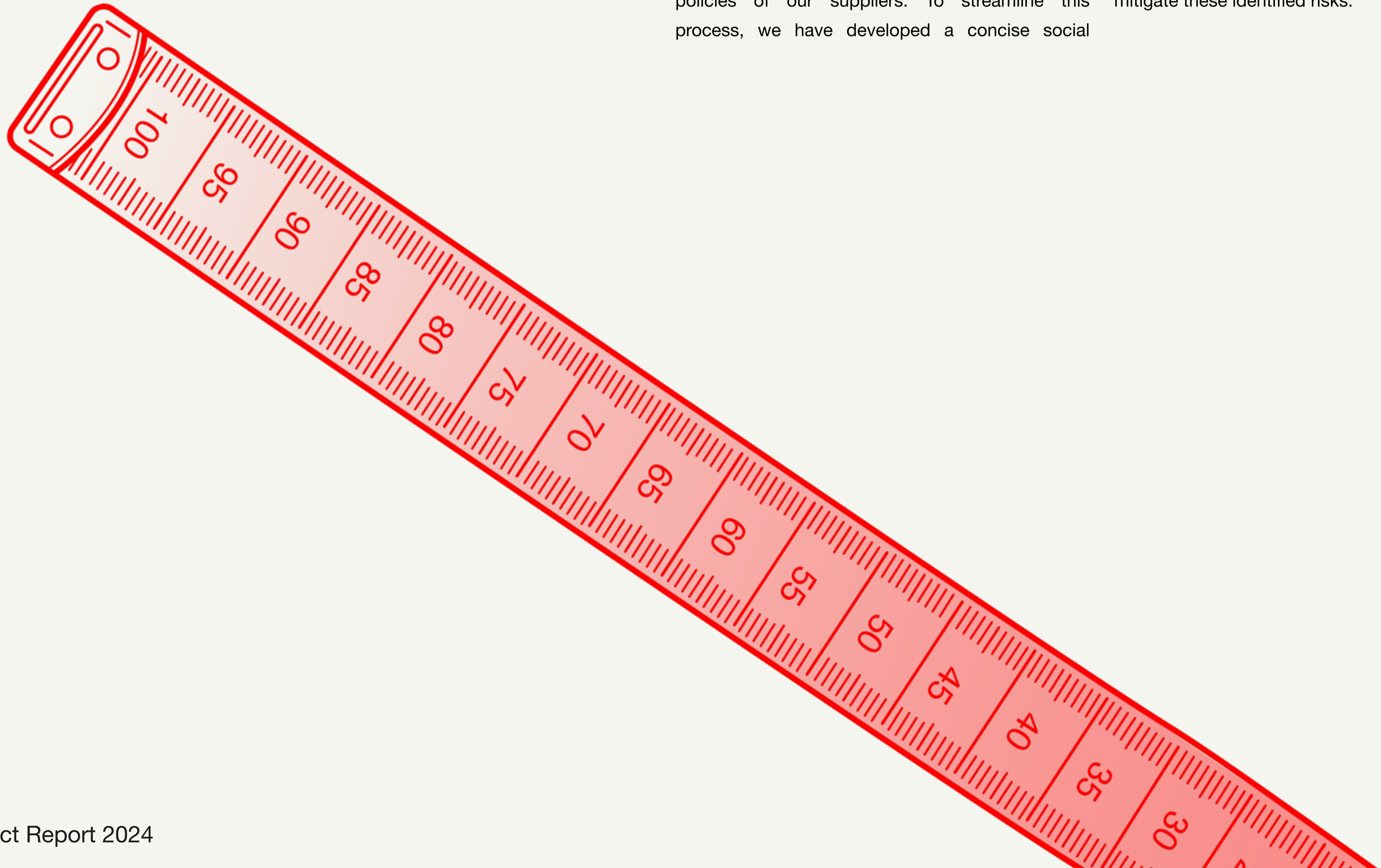
SOCIAL IMPACT ASSESSMENT

In the textile industry, conducting a social impact assessment is crucial for understanding the social implications of clothing and textile products, covering aspects like labor practices, working conditions, human rights, and community impacts. To tackle these issues, we are currently exploring self-assessment frameworks and platforms that fit our needs. Given the scale of our supply chain, we are aiming for approaches that are manageable for both our suppliers and our organization.

Our first step involves reviewing the existing policies of our suppliers. To streamline this process, we have developed a concise social

assessment questionnaire with eight key questions. These questions help us evaluate labor practices, working conditions, human rights, and community impacts within our supply chain. By using this questionnaire, we can map out the social responsibility initiatives already in place among our suppliers.

Next, we will dive into the data collected from the questionnaire to identify and assess potential risks. This evaluation will guide us in creating a comprehensive implementation plan to effectively mitigate these identified risks.



Supply Chains





GOALS

Moonshot goals

- Develop long-term, value-driven relationships with new partners
- Reach 100% transparency on tier 2 and tier 3 suppliers
- Integration of social and environmental clauses into T1 supplier contracts.

Actions taken

- ✗ 100% visibility of production partners and yarn suppliers
- ✗ Collaborated with yarn suppliers and production partners on data collection for LCA
- ✗ Became a signatory of the Green Deal Circular Textiles, supporting the transition towards a circular economy in the Amsterdam Metropolitan Region
- ✗ Textile manufacturing partner screened for environmental impact

Yearshot goals 2024

- Ecosystem partners screened for social impact
- Visit all individual production locations at onboarding (including all current production locations) and yarn production locations and rate the working conditions

LESSONS LEARNED

Climate risks

Climate risks became glaringly apparent during the 2020 pandemic and ongoing global turmoil, revealing the fragility of textile supply chains. In response, we engage in dialogue across our Ecosystem, learning from others' solutions and seeking opportunities to strengthen collective efforts.

Our initiatives include conducting Life Cycle Assessments (LCA) of our textiles and launching our digital textile passport, showcasing our suppliers and the innovative technologies they employ.

Policy

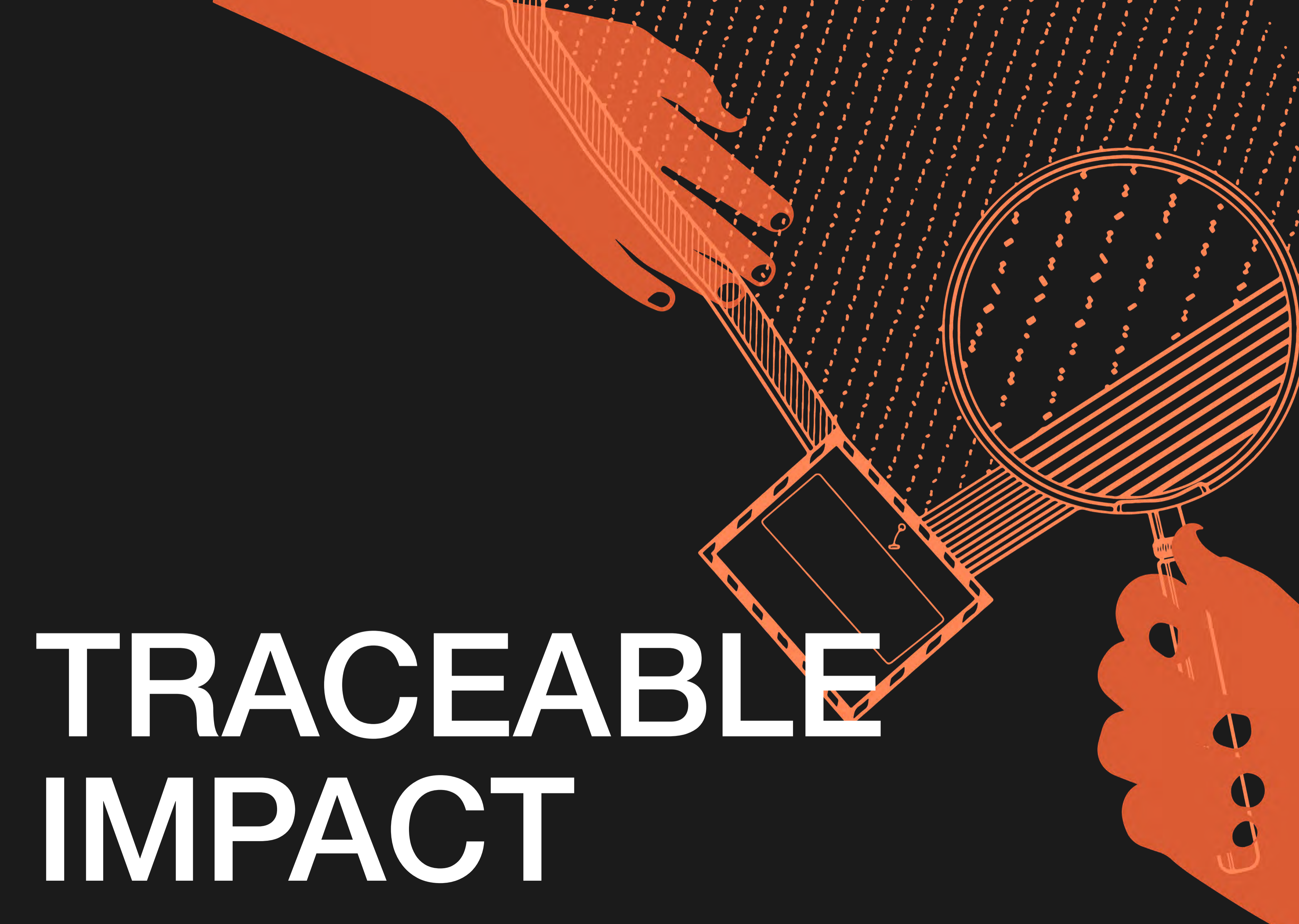
As a company operating under Dutch Law, we prepare for compliance with the EU Strategy for Sustainable and Circular Textiles. Additional policies such as the Corporate Sustainability Reporting Directive (CSRD), Extended Producer Responsibility (EPR), and Product Environmental Footprint (PEF) also impact us and our clients.

We actively monitor criticisms of these directives, motivating ourselves and our clients to exceed the minimum requirements where feasible.



Supply Chains





TRACEABLE IMPACT



The traditional textile industry is like a complex spider's web, where every element is intricately intertwined with another. These connections make it tough to trace a product from its start to its end.

However, we firmly believe that enhancing traceability throughout the supply chain will unlock new opportunities for positive impact.

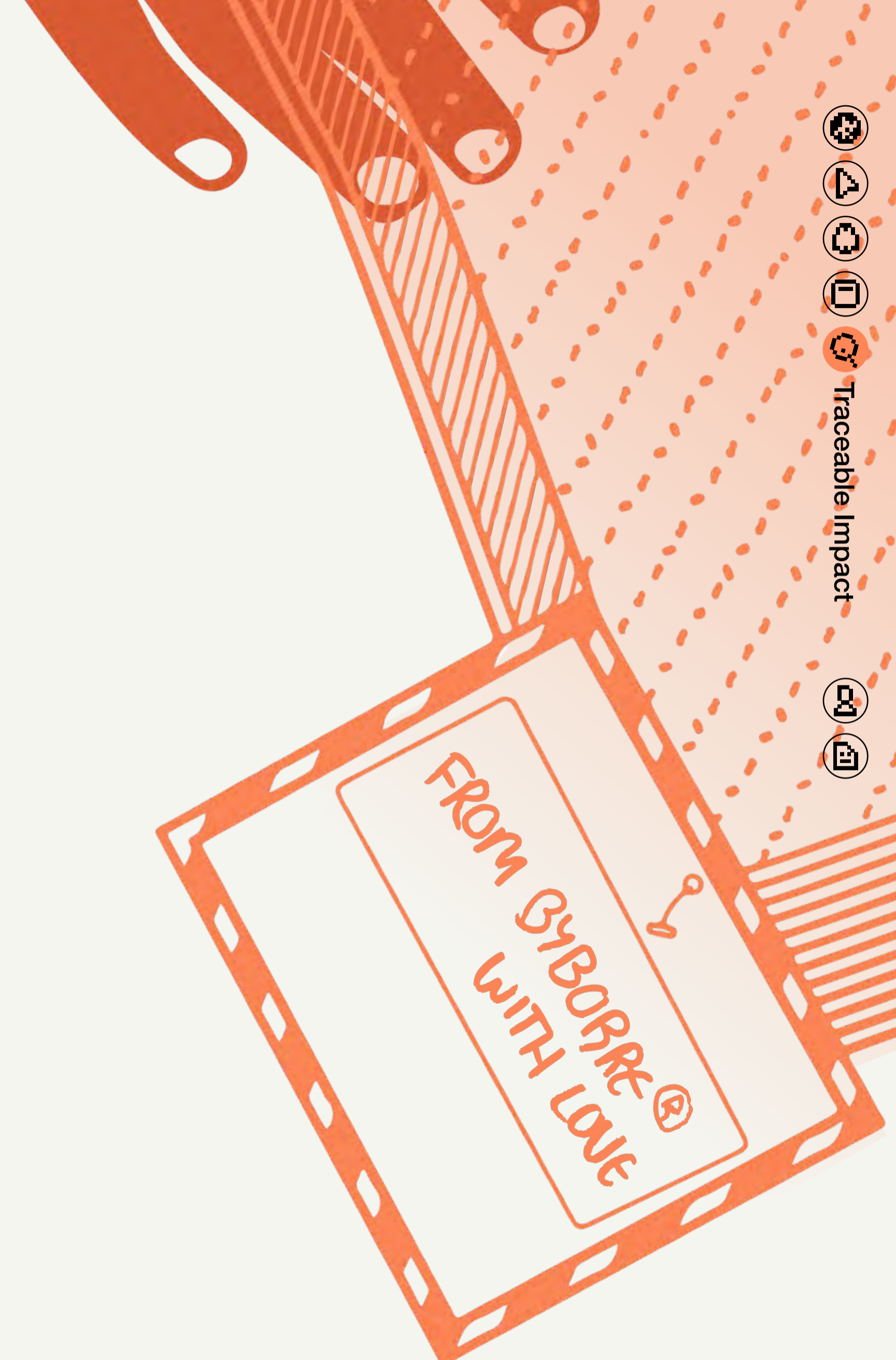
What does traceability mean to BYBORRE®?

We get reference from Ellen MacArthur foundation here. Traceability³ is the ability to trace products, components, and materials, as well as the social and environmental conditions in which they were made, along the whole supply chain, including after use. By 2030, we want to achieve 100% traceability of our supply chain.

The challenge:

Before we can set any goals, we need to grasp the impact of our textiles. That's why we have built a system to measure emissions throughout our textile design, sampling, and production process. This data helps us shape our strategy to reduce emissions and empowers creators to craft textiles with purpose.

³ Vision of a circular economy for fashion, Ellen Macarthur Foundation 2020





LIFE CYCLE ASSESSMENT

Our entire textile supply chain is influenced by these design decisions. To truly understand the impact of our textile design and production, we did a Life-Cycle Assessment (LCA) to dive deep into our supply chain. The textile packages used in the LCA represent our current offerings in our online textile design tool, Create™.

LCA Framework

An LCA is a methodology for assessing environmental impacts throughout the life cycle of a product, process, or service. It's a standardized framework by the International Organization for Standardization (ISO), which ensures consistency in how impacts are measured and compared worldwide. The setup and application of our LCA involved three phases: 1) Reflect; 2) Feedback and 3) Prevent.

The type of LCA we use at BYBORRE® is dynamic, meaning it is based on a supply chain modeling perspective instead of an accounting one. Practically, this means that our LCA lives in software that can be easily updated, enabling us to pull out new results the moment new and relevant data becomes available. More importantly, that way we can keep our design decision feedback in Create™ on par.

REFLECT (2021)

Look back and calculate the impacts of our Create™ textiles as is per 2021. This is the classic LCA, used as a self-referencing heatmap for future improvements. Starting here helped us build a realistic dataset and kick-off internal and external conversations about data collection.

FEEDBACK (2022)

Include and communicate the impacts of standard Create™ decisions to help clients make informed design decisions.

PREVENT (2023)

Build real-time LCA scenarios for Create™ wishing to understand the difference between certain design decisions for e.g. material input, knit structures and packaging.



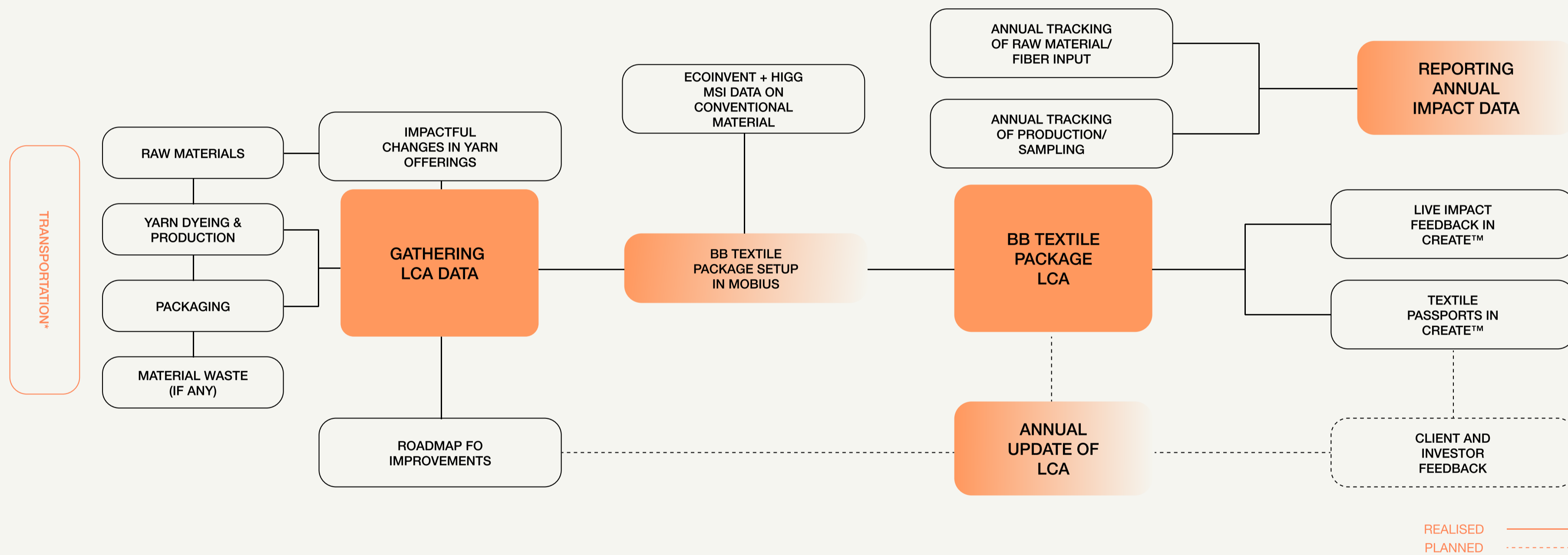
Traceable Impact





Figure 1. shows the design of our LCA, including the definition of its variables and assessment. With us, no two textiles are alike, so we could not make do with *one supply chain for one product*. Instead, we had to adopt a building block approach allowing us to configure many combinations of yarn, production, finishing and transport type.

*Transportation is taken into account for each of the stages mentioned



Impact data pool and how we gather and process insights.



Goal + Scope

The aim of the LCA is to measure and track the environmental impact of manufacturing textiles with BYBORRE®. For this initial LCA, we've defined cradle-to-gate to include the raw material inputs into yarn production, yarn dyeing, textile manufacturing (circular knitting), finishing, packaging, and transportation.

We partnered with Ecochain, an Amsterdam-based LCA research firm, to gather our first impact data. They use, Mobius1, an LCA software employing Object-Based Footprinting methodology, to analyze a consolidated dataset, resulting in a product-level footprint. Ecochain's LCA utilizes primary data whenever possible, supplementing it with

references to secondary data and existing LCAs for certain processes.

Working closely with our yarn suppliers and production partners, we requested detailed information about every aspect and input involved in creating our textiles. We plugged this supplier-specific data into Mobius and enriched our dataset with secondary data from Ecoinvent to obtain an overview of the impact of each textile package.

Functional Unit

The functional unit for this LCA is 1 KG of textile per BYBORRE® textile package. The outcome of the LCA is expressed as water usage (L), energy usage (kWh) and GHG emissions (CO2eq).

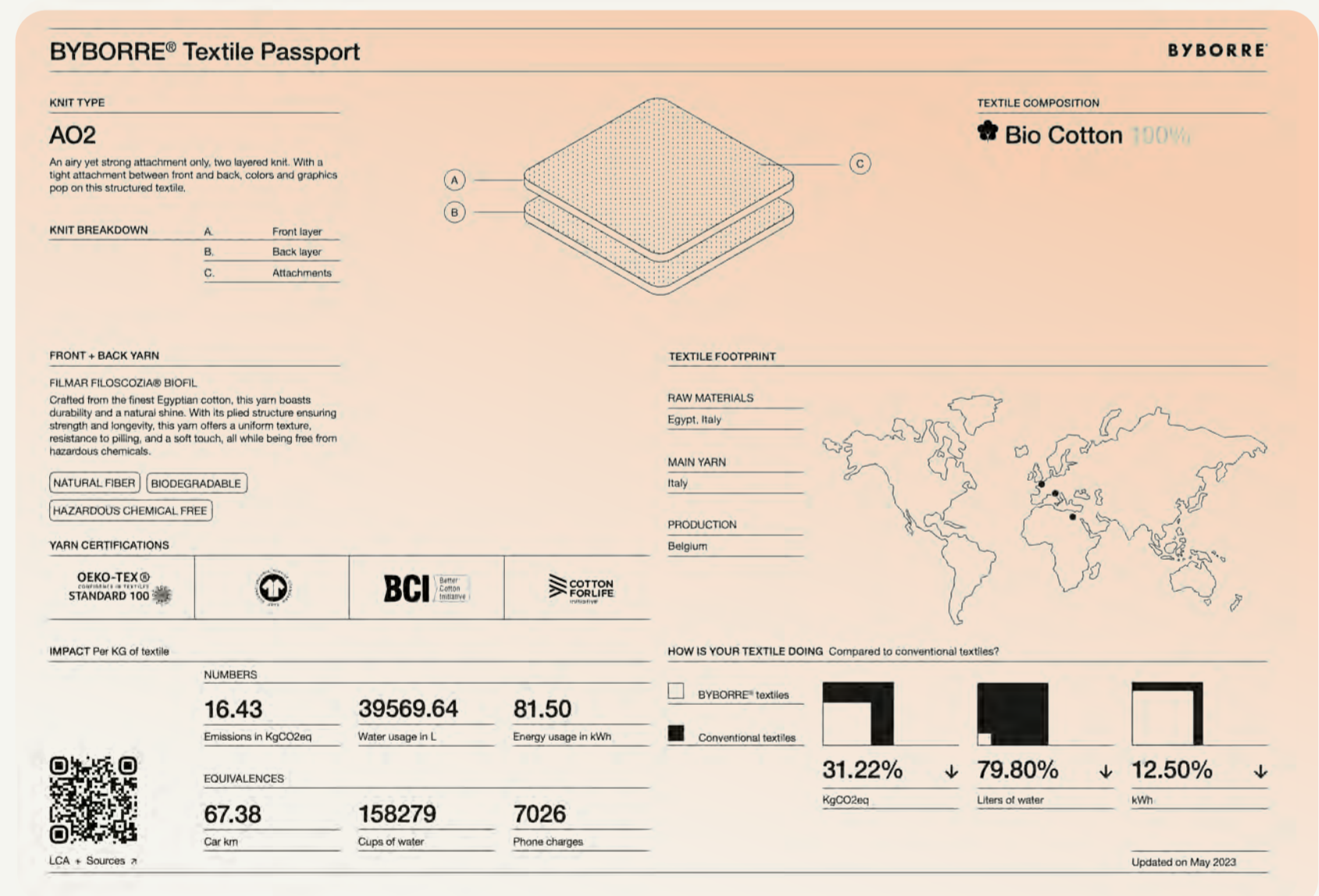
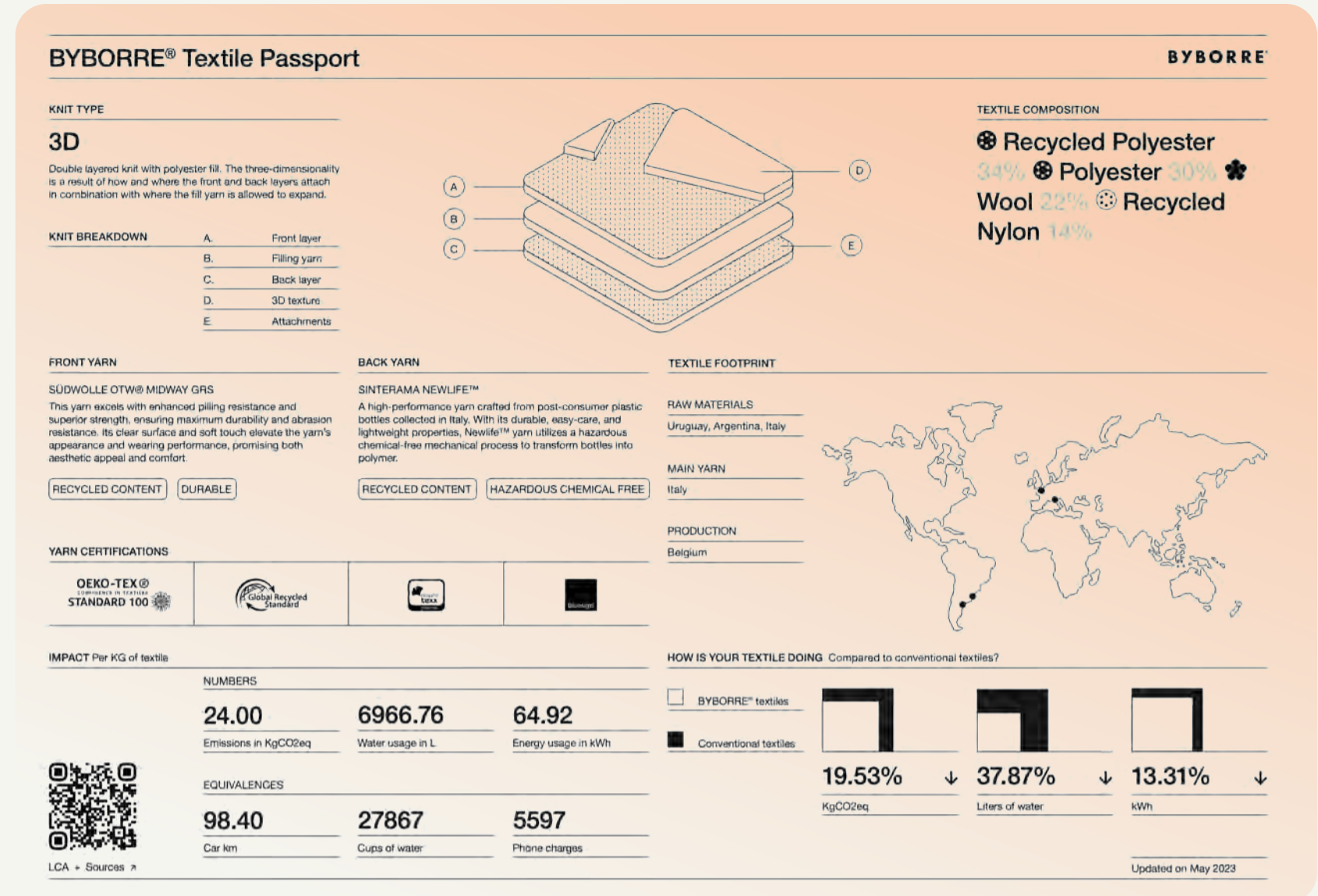


TEXTILE PASSPORTS

In the textile and fashion industry, there exists a noticeable lack of regulation, resulting in a concerning absence of transparency. As consumers increasingly perceive the environmental and social implications of their purchases, there is a growing demand for companies to furnish detailed information regarding the origins and production methods of their products.

At BYBORRE®, we have positioned ourselves at the forefront of addressing this issue by placing a high value on transparency within our operations. Since 2022, we have implemented textile passports—a digital product passport. These passports provide comprehensive insight into the production process, including details about manufacturing locations, collaborating companies, and the environmental impact of each product.

The textile passport consolidates all relevant impact data onto a single, accessible platform, rendering it an essential resource for our clients. Each passport is uniquely tailored to the specific bulk production order, ensuring that our clients receive accurate and personalized information about their textiles.



Traceable Impact

CHALLENGES & LIMITATIONS

Goal + Scope

One big hurdle we face is in measuring our impact, especially in gathering thorough and verified data. While some of our suppliers report environmental metrics, many don't, leaving us to rely on raw info that we can't always fully confirm. So, in cases where specific data is missing, we sometimes use generic industry data as a stand-in. It is not perfect, but it gives us a good starting point for our operations. We are committed to constantly refining and improving the accuracy of this data as best we can.

Limitations:

One key aspect often overlooked in environmental assessments of textile products is their impact per wear or use. Right now, our focus is solely on the textile production process, without considering what happens to the product after it is made. That's why our Life Cycle Assessment (LCA) is cradle-to-gate, not cradle-to-grave. But we understand the importance of addressing environmental impact throughout a product's entire life, and we are eager to explore ways to do that in future iterations of our products.

This LCA covers our yarn suppliers and production partners. Notable among our yarn suppliers are Nylstar S.L, Sinterama SPA, Zwickauer Kammgarn GmbH (ZKS), Filmar S.p.A, and Südvolle Group GmbH & Co., with LAVA serving as our textile production partner. The assessment incorporates supplier-specific data from the period spanning Q4 2021 to Q1 2022. While comprehensive details were available for most raw materials processed via Ecochain, only final impact variables in KG CO2eq were accessible for ZKS premium yarn. The LCA findings are founded on the most current industry knowledge and resources available as of 2023. Moving forward, we commit to annually updating these results in tandem with the evolving availability of pertinent data.

Results

Looking at the production process from cradle to gate, the table on the right side shows the environmental impact based on the total volume of textiles produced in 2023:

ENVIRONMENTAL INDICATORS	BYBORRE® PRODUCTION	UNIT OF MEASUREMENT
GHG EMISSIONS	539.66	KG CO2EQ
WATER USAGE	277860.20	M3 DEPRIV.
ENERGY USAGE	7,229,391.37	MJ





Through the LCA, we have a clear overview of all our textile packages offered on Create™. This section shows the impact related to three textiles packages popular amongst creators in 2023 that contain both manufactured and natural fibers:

COYOACAN

ENVIRONMENTAL INDICATORS	(BB TEXTILE PACKAGE) / KG	UNIT OF MEASUREMENT	REDUCTION COMPARED TO CONVENTIONAL PRODUCTION
GHG EMISSIONS	9.16	KG CO2EQ	51.53%
WATER USAGE	4.44	M ³ DEPRIV.	37.75%
ENERGY USAGE	167.13	MJ	38.07%

MALASAÑA

ENVIRONMENTAL INDICATORS	(BB TEXTILE PACKAGE) / KG	UNIT OF MEASUREMENT	REDUCTION COMPARED TO CONVENTIONAL PRODUCTION
GHG EMISSIONS	24	KG CO2EQ	19.53%
WATER USAGE	6.97	M ³ DEPRIV.	37.87%
ENERGY USAGE	233.72	MJ	13.31%

VALBY

ENVIRONMENTAL INDICATORS	(BB TEXTILE PACKAGE) / KG	UNIT OF MEASUREMENT	REDUCTION COMPARED TO CONVENTIONAL PRODUCTION
GHG EMISSIONS	11.50	KG CO2EQ	41.05%
WATER USAGE	4.72	M ³ DEPRIV.	30.09%
ENERGY USAGE	201.53	MJ	26.79%



Traceable Impact





GOALS

Moonshot goals

- Live impact data update on the platform based on your production order
- Include assessment on end-of-life activities

Actions taken

- ✕ Finalized a Baseline Life-Cycle Assessment of 19 Textile Packages in Create™
- ✕ Shared the LCA results with users to support decision-making in Create™
- ✕ Extend our environmental footprint measurements to our office and facilities in Amsterdam (Scope 1 and 2)
- ✕ Scope 1 and 2 carbon footprint analysis of our operations

Yearshot goals 2024

- Extend our environmental footprint measurements to downstream activities
- Implement Circularity score on all our textile passports
- Include social assessment on our textile passports



Traceable Impact



PEOPLE & CULTURE





As a start-up turning scale-up in just a few years, our team has been instrumental to where we are today. From a family-sized group of knit aficionados to a scaling up company representing a wide range of enviable crafts – change has been our companion every single day.

We are actively exploring our strategies and methods to foster greater diversity within our team, cultivate a culture of inclusivity, enhance the overall employee experience, and maintain a supportive atmosphere where individuals are empowered to achieve their utmost capabilities.

The year 2023 posed significant challenges for our company, leading us to make some tough decisions in order to uphold our mission.

As we worked to clarify our focus, we meticulously refined our industry objectives and offerings. Unfortunately, this restructuring required us to part ways with some cherished team members whose roles no longer aligned with our updated company focus and strategy.



People & Culture



OUR PEOPLE POLICIES

Since 2021, we have been using the platform Notion to host our Employee Handbook. The handbook (notion page) is designed to inform the team about the company strategy, policies, and cultural agenda.

POLICIES	DESCRIPTION
Policy on diversity, equity & inclusion	Underlining our commitment to being a business in which every individual can seek, obtain and enjoy employment without discrimination.
Policy on child labour, forced labour & human rights	Outlining our commitment to not employ children under 16 years of age and ensure freedom of choice in employment and upholding workers rights
Flexible organization of work (eg. remote work, flexi-time)	We have a 'hybrid' way of working. Employees are welcome to work 1 or 2 days from home.
Development and training program	We do yearly assessment of individual performance. The skill assessment leads to formulating key development areas for each team member.
Employee engagement survey	We do yearly engagement survey to measure people's connection and commitment to the company and its goals





DEVELOPMENT & PERFORMANCE PROGRAM

As a pioneering team, we are driven by a shared vision of making a positive impact and revolutionizing our industry to empower conscious creators. At BYBORRE®, we believe in constant growth and improvement – as individuals, teams, and as an organization as a whole.

To bring our vision to life, it's essential for each of us to reach our full potential: as professionals, as teams, and as a company. That's why we introduced the Development & Performance Program in 2022. This program serves to:





The program revolves around three key pillars: Performance, Skills, and Development.

Performance

Performance at BYBORRE® is synonymous with results. We set quarterly goals that are both achievable and measurable, aligning with our broader objectives for the year.

Skill

After extensive research, we've identified 13 foundational skills crucial for individual and collective success. These skills are directly tied to our values, serving as guiding principles in our journey toward excellence.

Development

Development is where skills and performance intersect – it's about continuously enhancing our abilities to drive impact at BYBORRE® and foster personal growth. Twice a year, we assess team members' skill levels, inviting feedback from peers through 360° reviews. This comprehensive feedback loop not only provides a holistic view of performance but also strengthens relationships and fosters a culture of learning.

The culmination of this process is the identification of key development areas, which inform personalized learning goals for each team member. These goals, alongside business objectives, shape the Personal Development Roadmap for the year.

Together, we're not just dreaming of change – we're actively pursuing it. With a commitment to continuous learning and improvement, we're not only disrupting an industry but also empowering each other to be our best selves.





ENGAGEMENT SURVEY

Engagement is a measure of people’s connection and commitment to the company and its goals. By lifting it, we can improve performance, innovation and our ability to attract and retain talent.

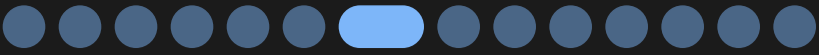
At BYBORRE®, people are at the heart of everything we do. That's why we conduct our Engagement Survey—to gauge how things are going and constantly enhance the employee experience.

We opted for Culture Amp's survey tool, a platform dedicated to employee experience, allowing us to compare ourselves with other companies in our industry and region. This helps us gather insights on how to keep improving BYBORRE® as a fantastic workplace.

Plus, employee feedback is kept confidential and secure through Culture Amp's secure external website. Individual responses won't be viewed independently, and only departments and team leads with four or more responses will receive a report.

Here are the results from Q1 2023 survey when we first started this initiative → → →





HIGHEST 3 SCORES		HIGHEST 3 SCORES VS. BENCHMARK (NL)	
I am proud to work for BYBORRE®	95%	BYBORRE® motivates me to go beyond what I would in a similar role elsewhere	80% +19
I feel I am part of a team	90%	BYBORRE®'s commitment to social responsibility (e.g., community support, sustainability, etc.) is genuine	75% +18
I know how my work contributes to the goals of BYBORRE®	88%	The leaders at BYBORRE® have communicated a vision that motivates me	73% +15

LOWEST 3 SCORES		LOWEST 3 SCORES VS. BENCHMARK (NL)	
BYBORRE® effectively directs resources (funding, people, and effort) towards company goals	30%	BYBORRE® effectively directs resources (funding, people, and effort) towards company goals	43% -23
When it is clear that someone is not delivering in their role we do something about it	31%	When it is clear that someone is not delivering in their role we do something about it	43% -22
Day-to-day decisions here demonstrate that quality and improvement are top priorities	40%	Day-to-day decisions here demonstrate that quality and improvement are top priorities	30% -20

ENGAGEMENT SURVEY



Steps taken to improve the score:

A. THE LEADERS AT BYBORRE® KEEP PEOPLE INFORMED ABOUT WHAT IS HAPPENING

- Weekly Stand-up on every Monday morning to share wins from last week and priorities for the week.
- Quarterly company updates

B. BYBORRE® EFFECTIVELY DIRECTS RESOURCES (FUNDING, PEOPLE AND EFFORT) TOWARD COMPANY GOALS

- Team OKR sessions per department contributing to company goals
- Sharpening proposition to find a product-market fit within the interior market

WAYS OF WORKING

At BYBORRE®, working together is essential for our mission. We believe working together in the studio contributes to better teamwork, more connection and in the end, more impact. Our team is an amazing combination of people with diverse specialities and responsibilities, bringing different parts of the industry together.

This means the ideal working set up and way of working will be slightly different for each team and role. Though we do want to make sure we all have the same baseline:

Working at the studio

- Our studio is where the magic truly happens. We love seeing your face here every day.

Working from home

- If the role, its responsibilities and tasks can be managed as good or better from home and the team lead approves, the employee is welcome to work from home 1 or 2 days per week.

- How the employee schedules working from home days is up to them and their team lead. If it works best to have set days to work from home, we want to provide that flexibility. If those days are needed for tasks or important meetings at the studio, we expect that same flexibility back. If it's more efficient or effective to be at the studio for the job that needs to be done, we expect them to be at the studio.

Remote working

- For remote working the same guidelines apply as for working from home.
- If the employee wants to work remotely for a period of up to 5 days, it can be discussed with the team lead.
- In principle, ten days of working remotely per year is the maximum.

Working hours

- Our standard working hours are 09:00-18:00 with a one-hour break. The employee has the responsibility to manage their own hours and flexibility for appointments (dentist, physical therapist, doctor, etc. ideally at the beginning or end of the day) or curve balls that life throws at you. That comes with the expectation that their working hours do not become someone else's problem.
- Taking a break is important! If a full hour break is too long, we encourage employees to take at least 30 minutes during the day.
- The employee calendar shows if they are working from home or if there are changes in their schedule so their team members know when or where to reach them.



IMPACT BASICS

Since the summer of 2021, we're running Impact Education sessions with the team to train them in identifying opportunities for positive change – across their respective professional domains.

- 01** **Impact Basics #1 (July 2022)**
Creating a level playing field
- 02** **Impact Summer School (Aug 2022)**
Behavioral insights (using Systems-thinking Playbook for Climate Change by A.O. D. Meadows)
- 03** **Impact Basics #2 (Nov 2022)**
Documentary on textile waste (“Unravel”)
- 04** **Team Workshops (spring 2023)**
How to green your craft (using Project Drawdown’s guide)
- 05** **Impact Basics #3 (March 2023)**
ESG Commitments
- 06** **Impact Basics #4 (May 2023)**
BYBORRE® vs. Conventional System (LCA)
- 07** **Impact Basics #5 (June 2023)**
BYBORRE® Materiality Assessment
- 08** **Impact Basics #6 (July 2023)**
Microplastics and plastic pollution and the relationship it has with textiles.
- 09** **Impact Basics #7 (August 2023)**
The session was held by an external speaker Stijntje Jaspers from Fibershed NL that shared her expertise on the topic of Biodiversity.
- 10** **Impact Basics #8 (September 2023)**
Accessibility. What does it really mean? what are we doing and will do in future to make Create inclusive for a diverse set of consumers and/or end-users.
- 11** **Impact Basics #9 (November 2023)**
Impact KPI update and progress report
- 12** **Impact Basics #10 (December 2023)**
Interactive workshop for the team to brainstorm some interventions to reduce our Scope 3 impact.



People & Culture





The Challenge

The transition from start-up to scale-up does not come with a handbook. We have lived through the tensions of rapidly growing companies: unclear team member accountabilities, difficulties setting priorities, changing leadership, limited feedback on performance and no standardized onboarding – to name a few. Despite the insecurities that change may bring, we want to make sure our team grows while our company does. Committing to the impact journey is no small feat, and keeps us on our toes as solutions need to come from us.

Team feedback in Impact Summer School:





KNIT APPRENTICE PROGRAM

The BYBORRE® Apprentice Program is a 6 month paid internship position for talents to gain working experience. The goal of this program is to give talents the chance to grow within, and contribute to, a fast paced, innovative working environment.

The apprentices complete four core areas in the program, each area gives the apprentice insight to gain an overall experience and understanding of what it takes to produce textiles in our industry.

DESIGN

Understand how creatives work within the industry and Create™ platform, in designing unique on demand textiles.

PROGRAMMING

Learning how to program and translate core BYBORRE® textiles into LG and MCT knitting files.

KNITTING

Understanding how the machines work and following an intense course of knitting BYBORRE® fabrics on Mayer & Cie OVJA 1.6 EE 3/2w 20gg and 16gg machines.

PRODUCE

Working in an industrial environment to understand how mass production and industrial finishing works.



People & Culture





The Challenge

Even though our community is growing, in volume as well as diversity – we believe that changing an industry requires the active participation of creators in further fine tuning our digital platform – finding out what really helps them make conscious decisions. It also means that we make our impact ambitions public (as we do here), and make it easy for our partners to complement our efforts, and for us to support theirs. Think of it as the deal flow in a community – the more impact intelligence we exchange, the more we learn together, and the greater the change we generate.



People & Culture





GOALS

Moonshot goals

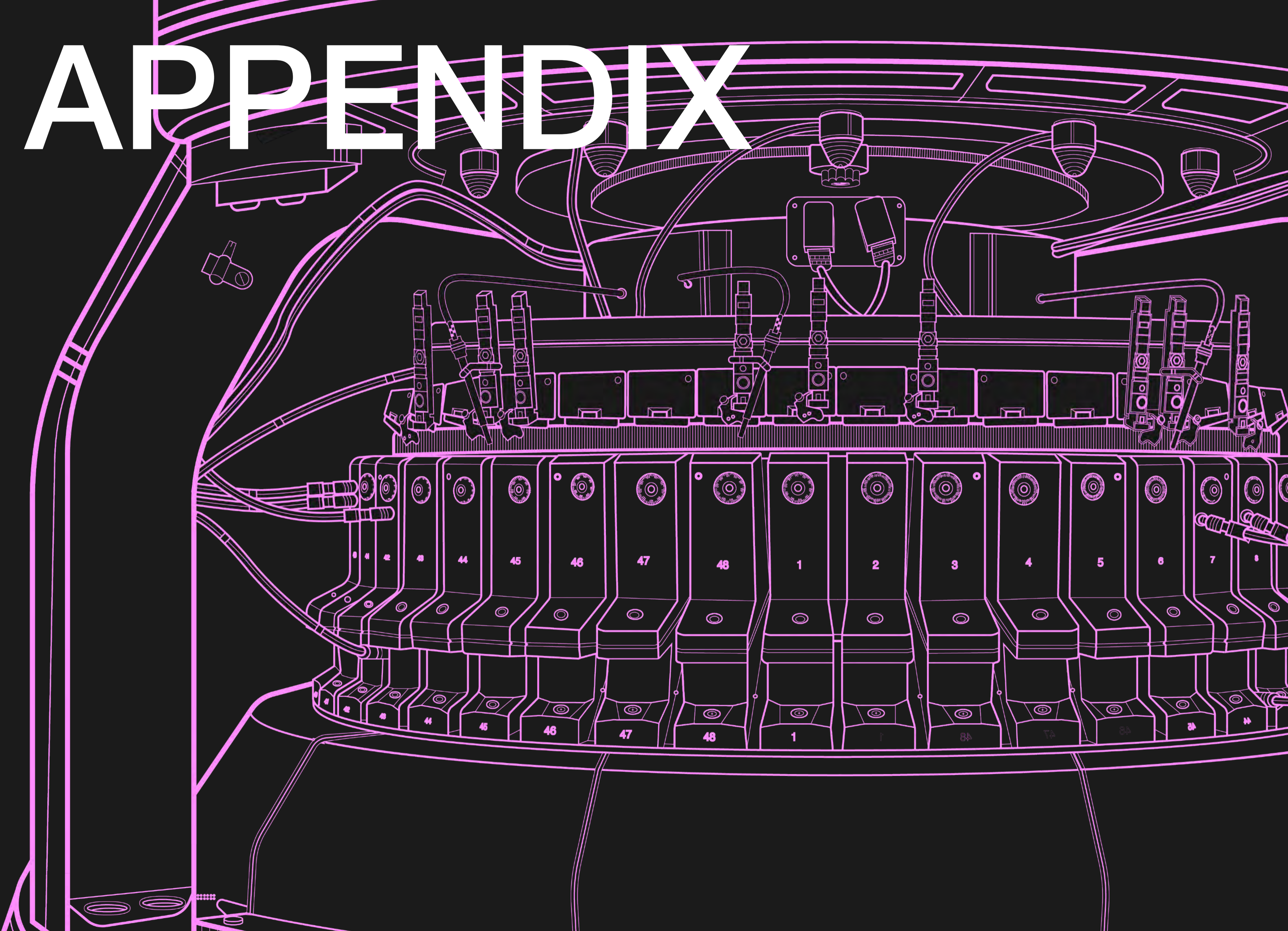
- Offer development opportunities to employees through certified vocational trainings

Actions taken

- Improve policy on employee health and safety to include measures on a company level
- Introduce revised company values
- Be transparent to the team about our employee reward system



APPENDIX



GLOSSARY

Cradle-to-gate

The system boundaries for the LCA, e.g. from cradle (“raw material extraction”) to gate (“point of distribution”).

Create™

BYBORRE® Create™ is a digital platform for smart and conscious textile creation, enabling you to design knitted textiles from the yarn up.

Creators

Creators are those working with textiles and/or using textiles in the products they design and produce.

CO2 equivalent

Carbon dioxide equivalent (CO2E) is a measure used to compare the emissions from various greenhouse gasses based on their global warming potential (GWP). The CO2E for a gas is derived by multiplying the tons of the gas by the associated GWP.

Greenhouse Gas (GHG)

Greenhouse gasses, or GHGs, are compound gasses that trap heat or longwave radiation in the atmosphere.

Knit structure

A type of knitting technique, adopted or invented by BYBORRE®.

Life Cycle Assessment

A methodology to assess environmental impacts associated with all the stages of the life-cycle of a product, process, or service.

Moonshot Goals

These are north-star goals that we ultimately want to achieve in the coming future.

Production Partner

A partner for manufacturing our bulk order textiles.

Responsible/Preferred materials

Materials that have improved social and environmental impacts.

Textiles

BYBORRE®’s library of designed textiles.

Theory of Change

A guiding framework for all stages of thinking, action and evaluation of any impact-driven initiative.

Traceability

Traceability describes the process of tracing the origins, movement, and evolution of products and materials.

Transparency ⁴

The ability to make information (for example on product specifications, chemical inputs, materials used, and production practices) available to all actors of the supply chain (including users), allowing common understanding, accessibility, comparability, and clarity.

Yarn Supplier

A supplier of yarns, the primary material input for textiles.

Yearshot Goals

These are the goals that we have set for the current year to achieve.

⁴ Vision of a circular economy for fashion, Ellen Macarthur Foundation 2020

GLOSSARY

Scope 1, 2, 3

Check the table for a detailed explanation regarding each scope:

Scope 1 emissions are direct emissions from company-owned and controlled resources. In other words, emissions released to the atmosphere as a direct result of a set of activities, at a company level. It is divided into four categories: stationary combustion, mobile combustion, fugitive emissions and process emissions.

Scope 2 emissions are indirect emissions from the generation of purchased energy, from a utility provider. In other words, all GHG emissions released in the atmosphere, from the consumption of purchased electricity, steam, heat and cooling. For most organizations, electricity will be the unique source of scope 2 emissions.

Scope 3 emissions are all indirect emissions – not included in scope 2 – that occur in the value chain of the reporting company, including both upstream and downstream emissions. In other words, emissions that are linked to the company's operations.



GRI CONTENT INDEX

GRI STANDARD	DISCLOSURE	LOCATION
GRI 3: MATERIAL TOPICS 2021	3-1 Process To Determine Material Topics	7-8
	3-2 List Of Material Topics	7-8
	3-3 Management Of Material Topics	7-9
GRI 301: MATERIALS 2016	301-1 Materials Used By Weight Or Volume	8
	301-2 Recycled Input Materials Used	9
GRI 305: EMISSIONS 2016	305-1 Direct (Scope 1) GHG Emissions	8
	305-2 Energy Indirect (Scope 2) GHG Emissions	8
	305-3 Other Indirect (Scope 3) GHG Emissions	8

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