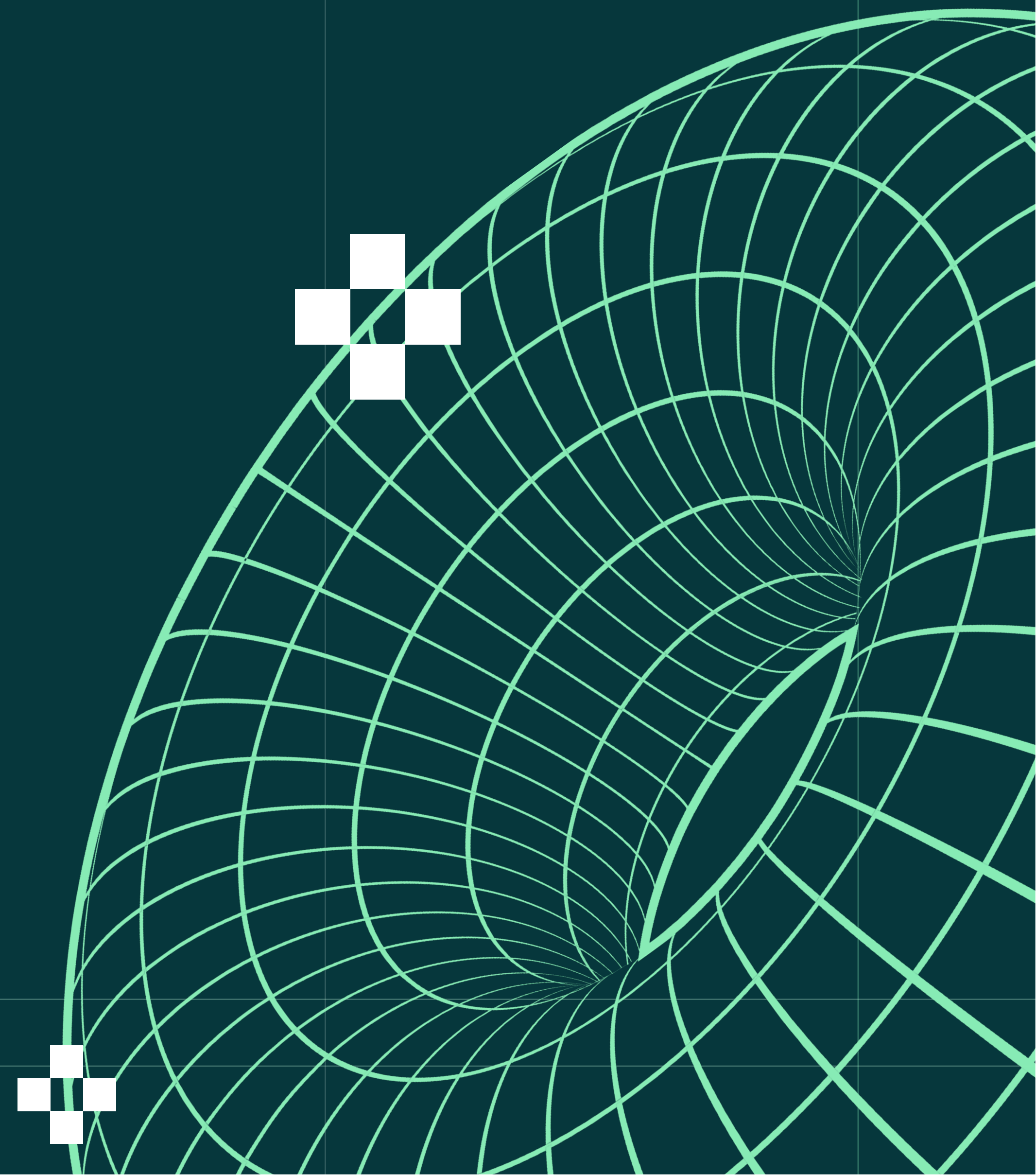
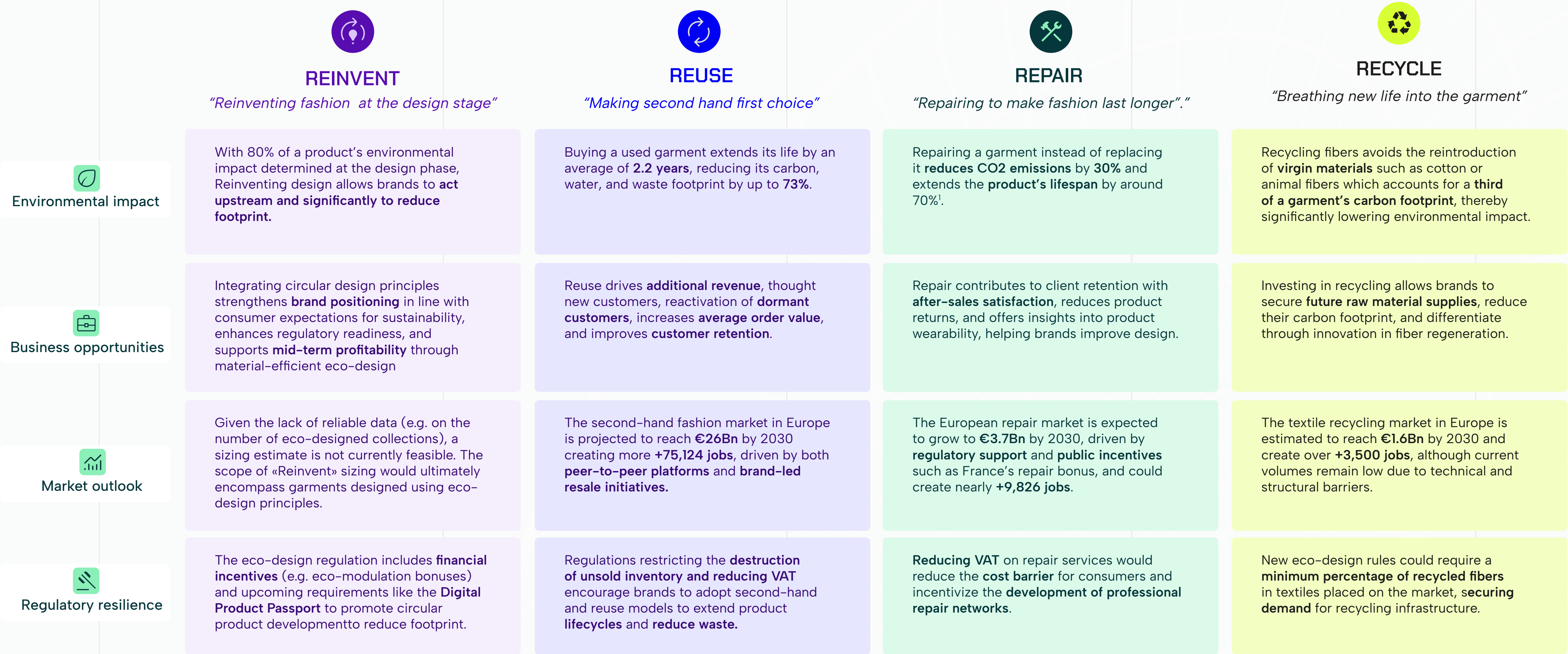


State & prospects of circular fashion in Europe



By 2030, the circular fashion market – underpinned by four key pillars – could generate €31.3 billion and create 88,500 jobs, unlocking business opportunities that supportive regulation could further accelerate.



Note: 1º Data provided by “Les Racommodeurs”
Sources: Interviews; KPMG Analysis

Circular Fashion Federation (FMC) Contributors



Maxime Delavallée
President & Co-founder
Circular Fashion Federation

Maxime Delavallée is co-founder & CEO of CrushON and President of the Circular Fashion Federation. He also teaches growth marketing, impact strategies and the circular economy at ESSEC Business School, CentraleSupélec, Sciences Po Paris and the Institut Français de la Mode. Before launching CrushON, Maxime worked at the World Bank as a public policy consultant and studied at HEC Montréal, McGill University, Sciences Po Paris and the University of St.Gallen.



Ellie Dahan-Lamort
Chief Operations Officer
Circular Fashion Federation

Ellie Dahan-Lamort is Chief Operations Officer at Circular Fashion Federation. Over the past two years, she has coordinated the advocacy and community actions of the Fédération. Before that, she studied law and sustainability at Paris 1 Panthéon-Sorbonne and had her first professional experiences at Clear Fashion and in the CSR team of Showroomprivé.com.



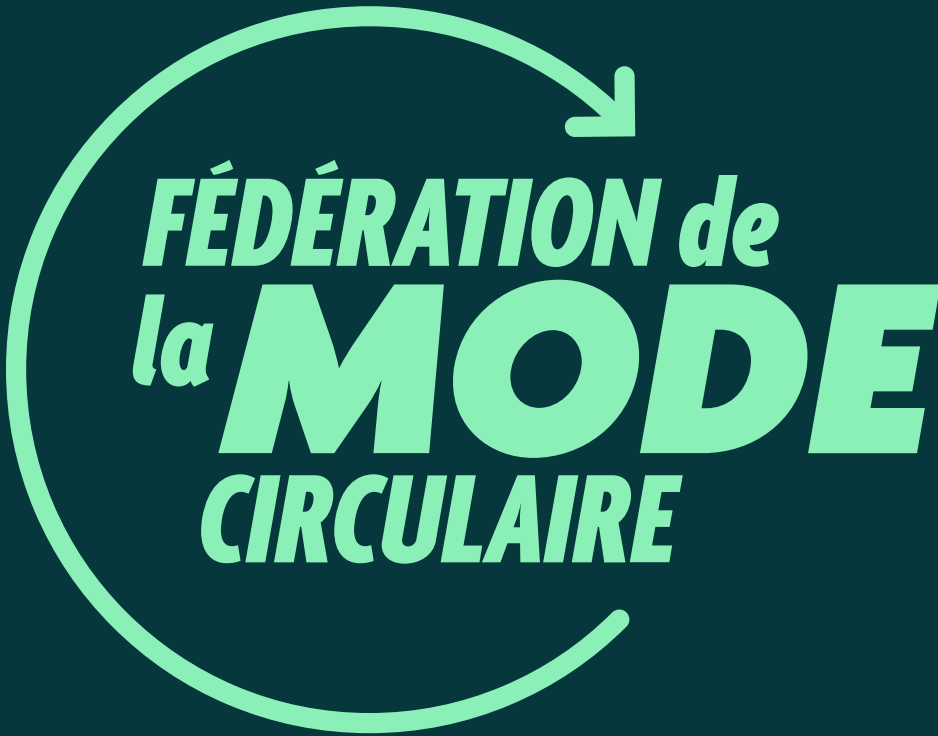
Hatem Sedkaoui
Board Member & Co-founder
Circular Fashion Federation

Hatem Sedkaoui is a leader committed to the sustainable transformation of the textile industry. Former CEO of Suez Textile and ex-Chairman of Fédérec Textile, he played a key role in structuring the textile recycling sector in France. Today, he is continuing his commitment as a member of the Board of the Circular Fashion Federation, where he represents the challenges facing the industry and recycling. His strategic vision, operational experience and strong convictions make him a key player in the circular economy and responsible innovation.



Quentin Muret
Circular Strategist
Circular Fashion Federation

Quentin Muret is a Sustainability Strategy expert specializing in ESG integration and circular business models in fashion and luxury. He has led sustainability transformations for major brands, co-authored market studies on circular fashion in France, and collaborates with the Circular Fashion Federation to drive industry innovation.



KPMG Contributors

This 2025 edition of the Circular Fashion Market Study was led jointly by KPMG and FMC. KPMG Global Strategy Group and the ESG Center of Excellence have worked together to mutualize their market and sustainability expertise

Structured around 4 strategic pillars, the study provides a forward-looking perspective on the circular transformation of the fashion sector, articulating key market trajectories, business implications and regulatory drivers shaping the industry by 2030 in Europe.



Stéphanie Taupin
Director
Global Strategy Group



Stéphanie Grandjean Mateos
Director
Resources & Circular Economy
ESG Center of Excellence



Ikrame Taf
Manager
Global Strategy Group



Zoé Leycure
Senior Consultant
Global Strategy Group



Mina Bishop
Senior Manager
Resources & Circular Economy
ESG Center of Excellence



Emma-Louise Simon
Junior Consultant
ESG Center of Excellence



The fashion industry is a key contributor to the global economy, but its business model remains largely incompatible with sustainability

The fashion market spans the entire value chain, from textile production to retail, secondhand trading and recycling. It includes clothing, footwear and accessories.

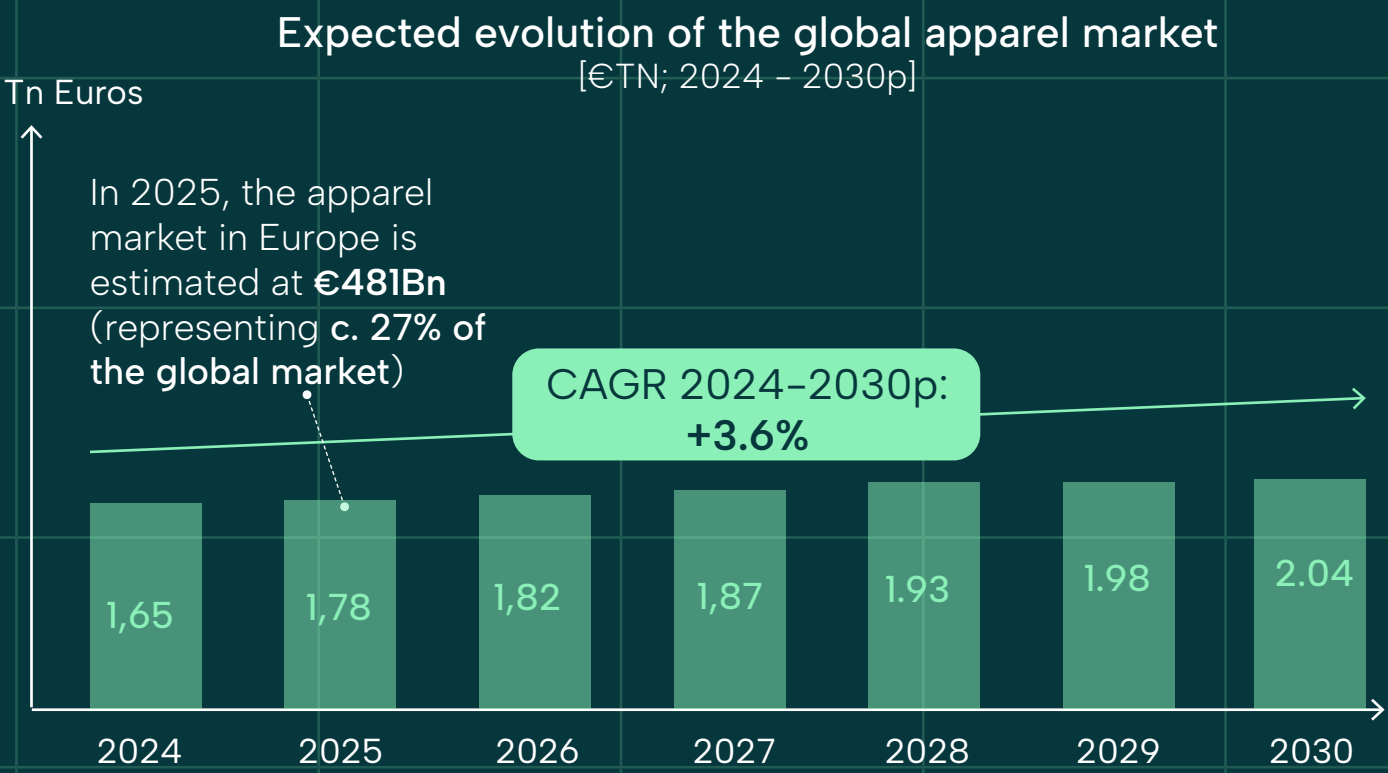
The fashion market is a strong contributor to the world economy...

The fashion industry accounts for **2% of global GDP** and employs around 300 million people along the value chain.

The industry is facing **economic uncertainty, a dynamic market and consumers shifts**.

The market is expected to reach **\$2 trillion** by 2030

In Europe, the average number of apparel pieces purchased per capita declined from **45.72 items** in 2019 to **41.77** in 2025. However, a gradual recovery is expected, with consumption projected to reach **41.83 pieces** by 2029 (+0.24%), marking the seventh consecutive year of growth.



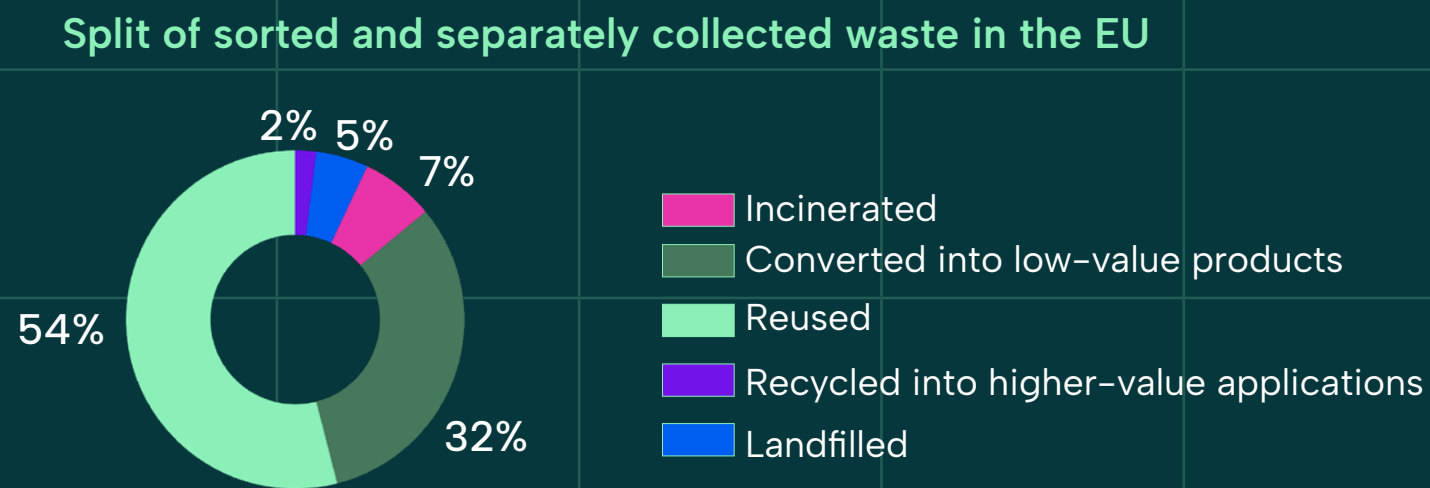
...with however social and environmental externalities that show the limits of its current practices.

GREENHOUSE GASES EMISSIONS
8% of the global CO2 emissions and impacts to the environment.

WASTE
<1% of the material used to produce clothing is recycled into new clothing, 1 garbage truck of clothes are burned or landfilled every second.

WATER
20% of global clean water is polluted by textile production, with 85% due to dyeing processes. The equivalent of 50 billion plastic bottles in microplastics are discharged in the ocean due to washing clothes.

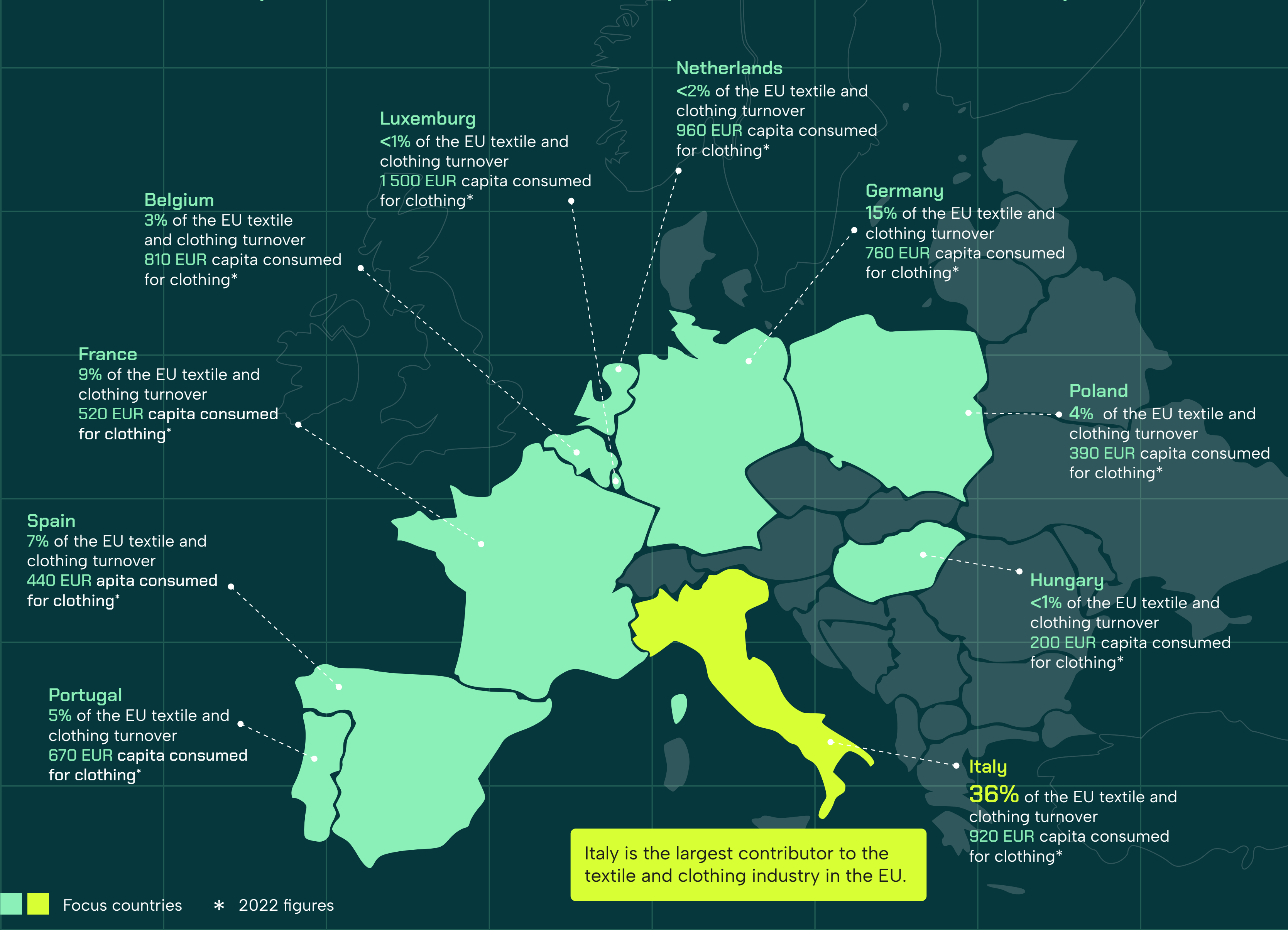
LABOUR
80% of apparel is made by young women between ages of 18 and 24, with evidence of forced and child labor in the supply chain.



Europe stands out as both a hub for fashion brands and consumer demand, while also being shaped by a stringent regulatory landscape 1/2

The European Union has a long-standing presence in the fashion market, home to many enduring brands. Fashion accounts for 10% of all EU exports, making it a dynamic sector with both high consumption and production. However, the industry faces several challenges. Growing awareness of the fashion industry’s adverse impact has led to a strong regulatory framework within the region.

This study includes all countries of the European Union, and focuses on 10 key countries



Europe stands out as both a hub for fashion brands and consumer demand, while also being shaped by a stringent regulatory landscape. 2/2

The European Union has a long-standing presence in the fashion market, home to many enduring brands. Fashion accounts for 10% of all EU exports, making it a dynamic sector with both high consumption and production. However, the industry faces several challenges. Growing awareness of the fashion industry's adverse impact has led to a strong regulatory framework within the region.



Under revision



Part of the EU Strategy for Sustainable and Circular Textiles

The regulatory context regarding fashion and the environment has been strengthened :



The Textile Labelling Regulation

Ensures that consumers in the EU are well-informed about the textile products they purchase, including their fiber content. It standardizes how product composition and fiber information are presented.



EU Ecolabel criteria for textile products

Introduced a label based on ecological criteria to recognize textile products with a lower environmental impact throughout their lifecycle. The criteria have been regularly updated since 2014.



[NEW] Circular Economy action plan

As part of the European Green Deal, this initiative includes 35 actions to help the EU reduce pressure on natural resources. It is essential for achieving the EU's 2050 climate neutrality target. The first circular economy action plan was adopted in 2015.



Waste Shipment Regulation

Ensures that the EU does not export waste to third countries in ways that harm human health or the environment. It enhances waste shipment traceability and prevents illegal exports.

Directive on repair of goods

Promotes repair and reuse by encouraging manufacturers to offer repairs within a reasonable time and at a fair price. Repairability requirements are defined by product-specific legislation.



Ecodesign for Sustainable Products Regulation

Establishes performance and information rules, known as «ecodesign requirements», to improve product durability, reusability, reparability, and recyclability. It replaces the 2009 Ecodesign Directive.

2011

2014

2020

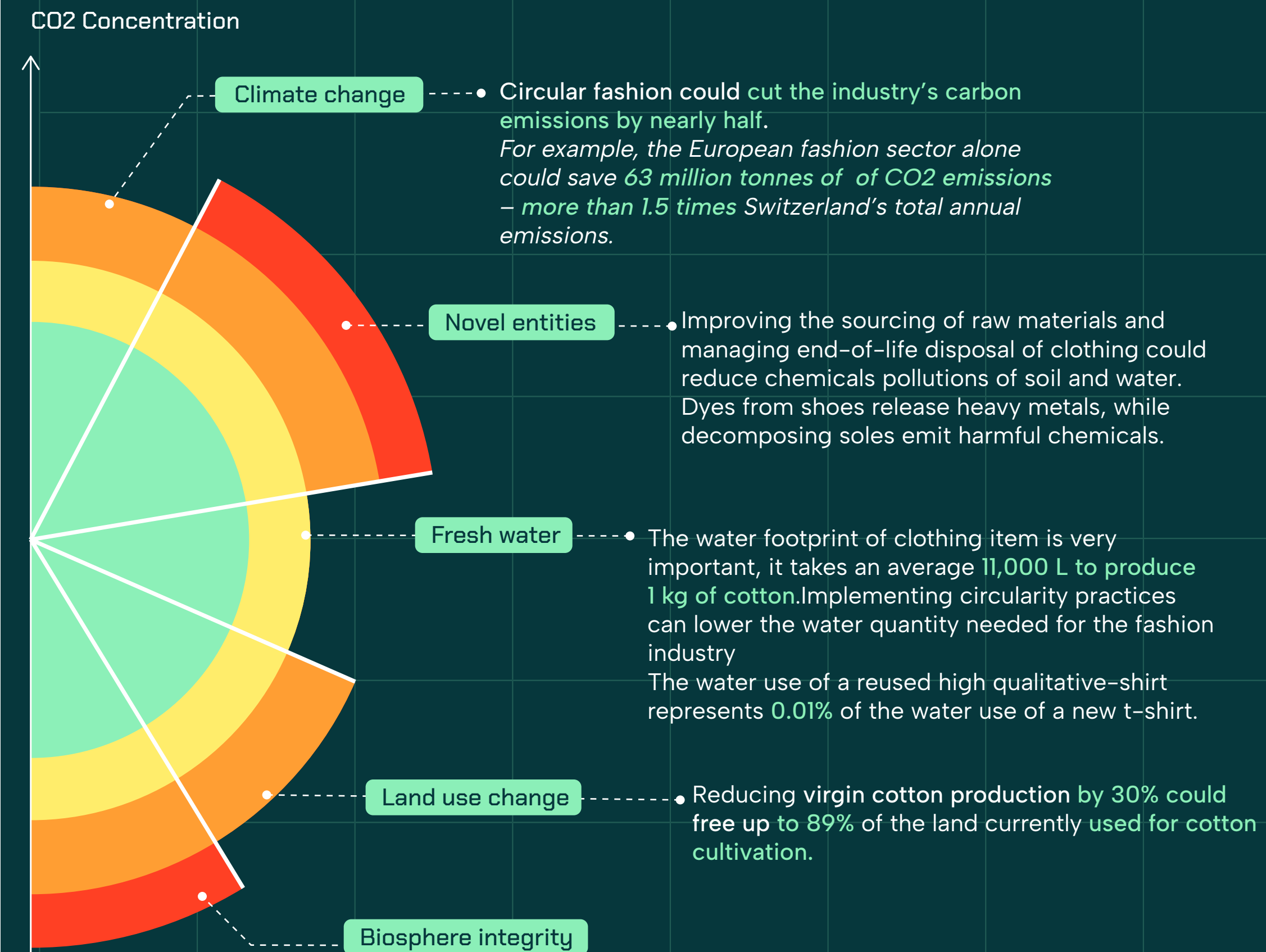
2024

The circular economy is emerging as a key lever for achieving the fashion industry's decarbonisation and sustainability goals

The fashion industry is a global and complex system with interconnected flows and diverse environmental impacts.

The circular economy should be viewed as a cross-cutting pillar, integrated into the brand's broader climate, biodiversity, and resource strategies.

Implementing circular economy practices in the fashion industry can ease the pressure on some of the nine planet boundaries



Circular economy :

- Supports brands' **climate strategy to reach net zero by 2050**: Almost 70 worldwide brands signed the Fashion Industry Charter for Climate Action and committed to net zero.
- **Mitigates environmental impacts** of brands throughout the value chain.
- Can serve as a key criterion in supplier selection, as calls for tenders increasingly include CSR and sustainability requirements.
- Extends the lifespan of products.
- **Supports the waste management strategy and can lower waste costs.**

«The aim of the circular economy is to ensure the sustainable management of resources and thus postpone the date of the exceedance day, which currently occurs at the beginning of August, until 31st of December.»

Sophie Bonnier, Head of Sustainability and Circular Economy at Kering

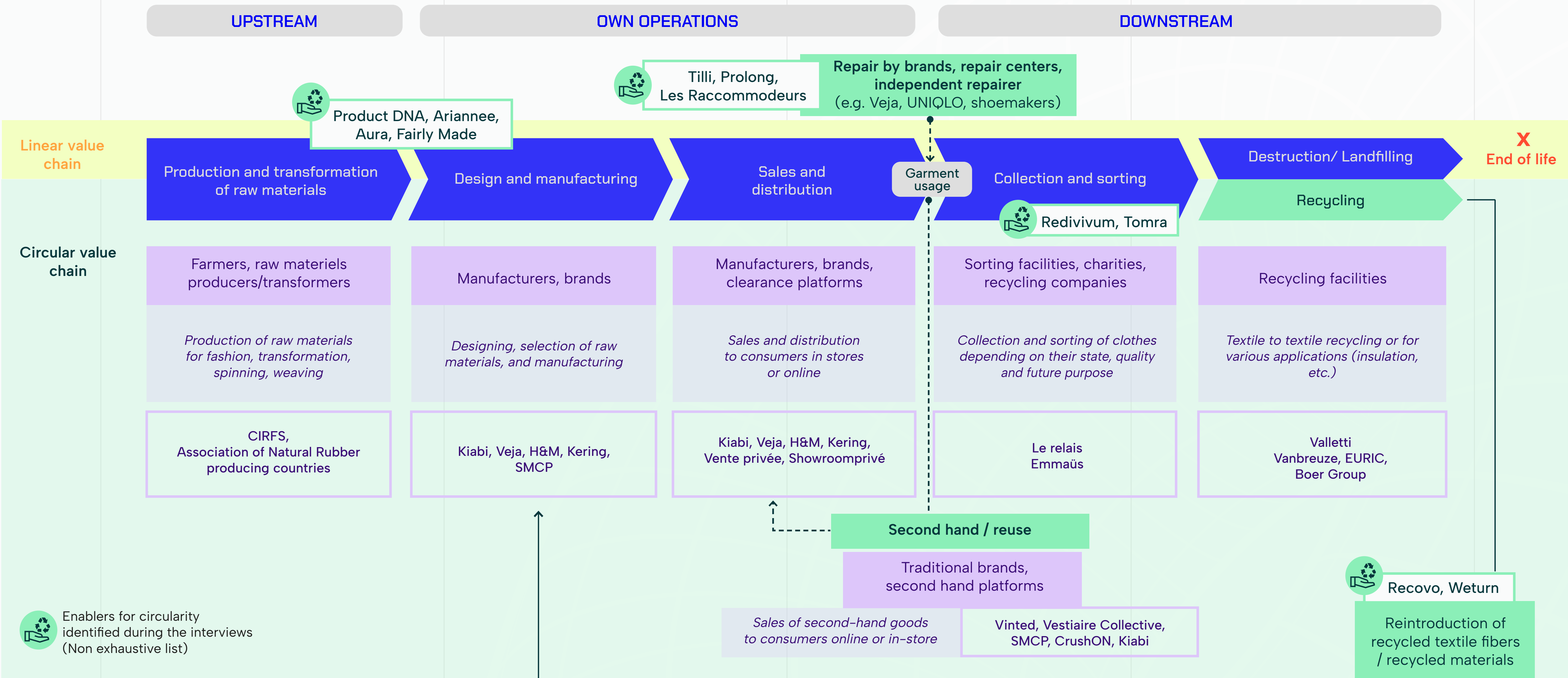


ZOOM: The environmental footprint methods

Our interviewee emphasized the **challenges in assessing the environmental impacts** of circular strategies on products and their overall footprint. They also underscored the need for a **consistent and robust methodology** to enable comparisons between different strategies and scenarios.

To address this issue, the European Agency introduced the **Product Environmental Footprint Method**, a standardized approach to **measuring environmental performance based on Life Cycle Assessment analysis**. This method evaluates performance across **16 impact indicators**, including climate change, fine particle emissions, water resource depletion, and land use change. Sector-specific guidelines are under development.

The circular economy is supported by a wide range of stakeholders across the entire fashion value chain

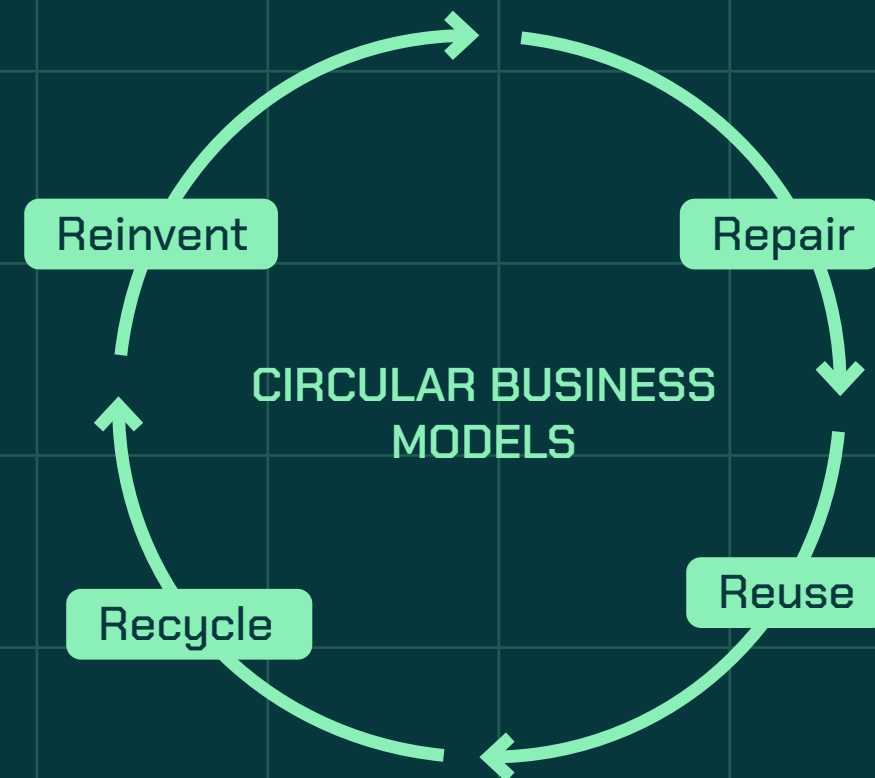


However, the key challenge remains scaling circular business models at pace and proving their profitability

From the concept of Circular Business Model for 1st hand players...

Circular Business models are an economic approach that **decouple growth from resource consumption**, by designing products and services that extend their lifecycle, minimize waste, and promotes continuous material loops. These models move away from the linear «take-make-dispose» model to a **regenerative system** towards a regenerative approach, where materials and products retain their value for as long as possible.

The **4R framework** defines the core strategies brands can adopt to transition toward circularity.



... to its current road blockers.

Circular business models are **not yet fully established**, and fashion brands are **facing key barriers** in implementing them :



Lack of proven business cases



Lack of successful financial KPIs



High upfront costs



Operational shifts needed



Lack of scalability and robustness

«Regarding circular business models, our conviction at KPMG is that a «ceteris paribus» comparison of a 2025 circular business model with a 2025 linear business model is insufficient. It is essential to incorporate a forward-looking dimension, particularly the additional costs of linearity (regulation, material uncertainty) and the evolution of consumption patterns over the medium term, while amortizing the investments in circularity. With this enriched approach, circular business models can create value and become more attractive.»

Stéphanie Grandjean Mateos
Resources & Circular Economy Director at KPMG France

How can these players capitalise on circular business models and be encouraged to adopt them, knowing that profitability will only be unlocked through bold, large-scale commitment?

The contribution of these stakeholders can be integrated into 4 key pillars that characterize circular economy



REINVENT

“Reinventing fashion at the design stage”

Reinventing fashion means **designing products from the outset** with **sustainability, longevity, and recyclability in mind**.

This involves **selecting circular materials** that are durable, recyclable, or biodegradable and rethinking production processes **to minimize waste and environmental impacts**.



REUSE

“Making second hand the first choice”

Reuse refers to **reintegrating existing garments back into the circulation** through **resale or rental** models.

This **extends the lifecycle of products** while reducing demand for new production.



REPAIRING

“Repairing to make fashion last longer”

Repairing products **extends their lifespan by restoring functionality** rather than discarding and replacing them.

This can be achieved through brand-operated repair services, consumer repair kits, or professional tailoring.



RECYCLE

“Breathing new life into the garment”

Recycling transforms **discarded textiles into raw materials** that can **re-enter the production cycle**, supporting a **closed-loop** system.

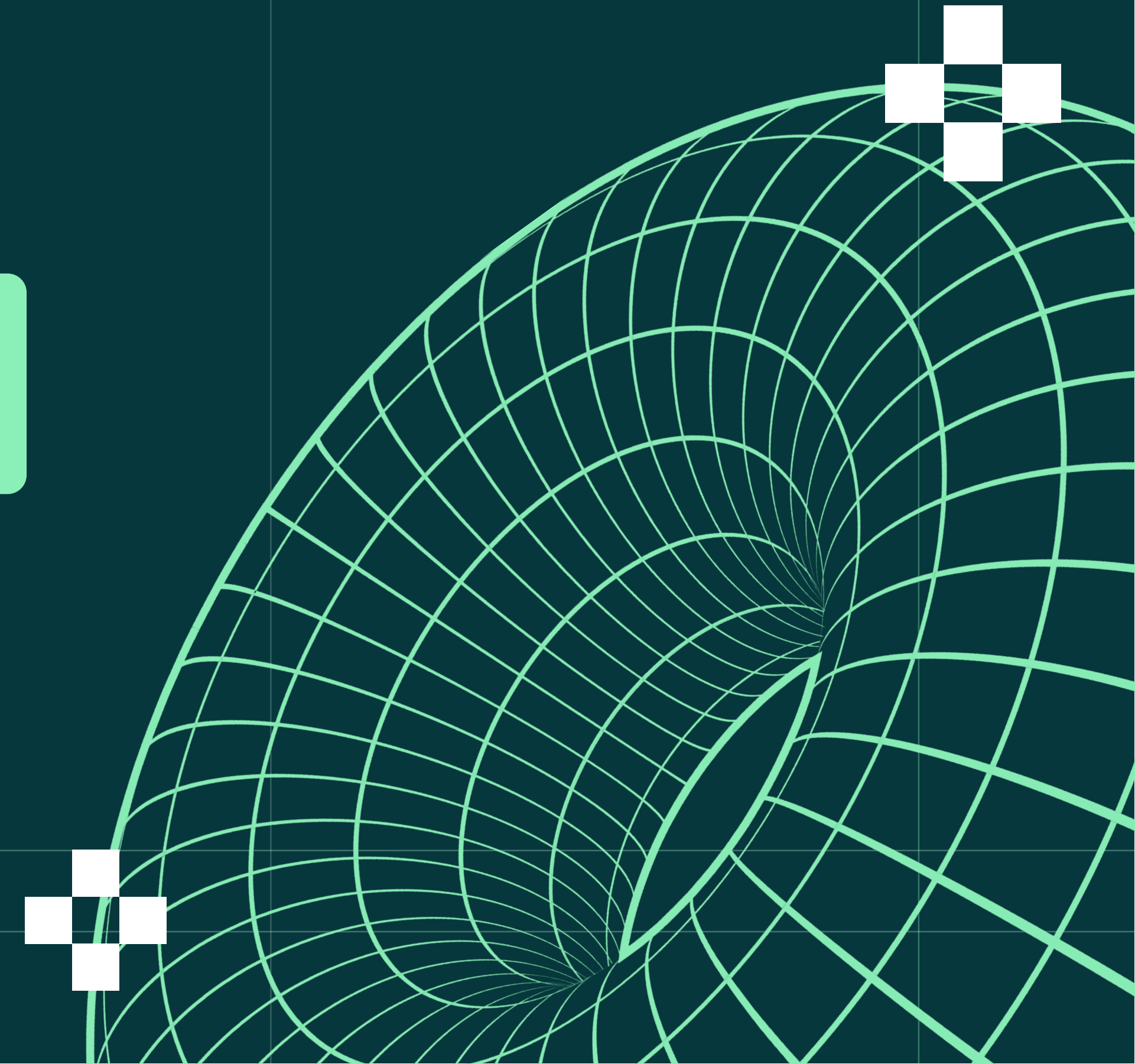
Alternatively, recycled textiles can be repurposed as raw materials for other industries, such as construction or automotive manufacturing.

Garment production value chain

PILLAR 1

Reinventing

Reinventing fashion
at the design stage



The «Reinvent» pillar encompasses all circular actions that take place at the very beginning of the value chain ^{1/2}

➤ The “Reinvent” pillar is fundamental to circular fashion, as it covers all circular actions that take place at the upstream phase of the value chain — reshaping how fashion is designed, sourced, and produced to embed circularity from the outset.

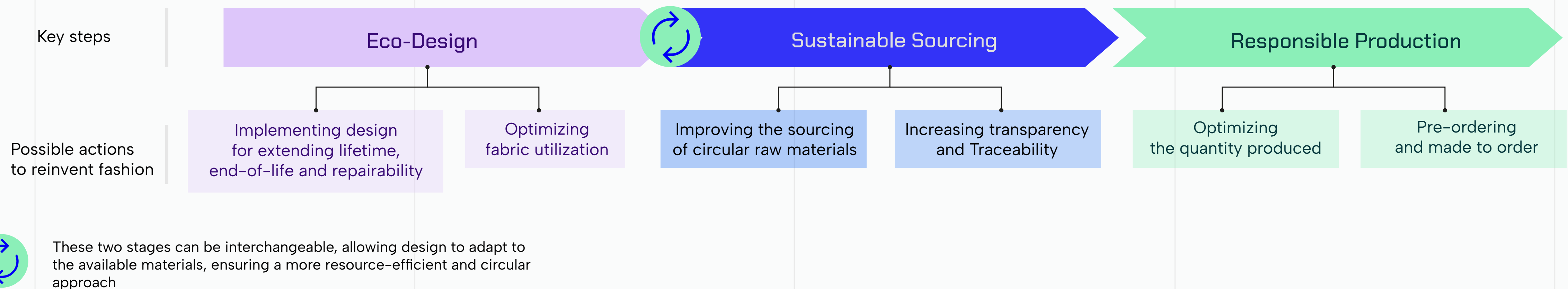
➤ This proactive approach is crucial, given that **80% of a product’s environmental impact is determined at the design stage (ADEME)**. By addressing inefficiencies before garments even enter the market, the “Reinvent” pillar helps reduce waste, optimise resource use, and extend product lifespan — all essential steps in the transition to a truly circular economy.

➤ The term “Reinvent” reflects a fundamental shift away from the traditional “take–make–waste” linear model, towards a regenerative system that rethinks production itself. This includes designing products that are not only sustainable, but also emotionally durable — enhancing desirability and strengthening consumer attachment to increase longevity.

➤ As defined by the ISO 14006 standard, eco-design is “**a methodical approach that takes into account the environmental aspects of the design and development process, in order to reduce negative environmental impacts throughout a product’s life cycle.**”

➤ Ultimately, “Reinvent” forms the foundation upon which the other pillars — Reuse, Repair, and Recycle — can be effectively implemented.

Initiatives that can be implemented at each stage to support circularity :



Sources: ADEME; Interviews FMC x KPMG; KPMG Analysis

«Eco-design is the basis of everything. It’s what allows us to take sustainability into account and to think of products outside the logic of programmed obsolescence, with a logic of duration over time, while at the same time trying to anticipate the way in which the product can be reused and ultimately recycled.»

Pierre-Nicolas Hurstel, Founder of Arianee

The «Reinvent» pillar encompasses all circular actions that take place at the very beginning of the value chain 2/2

From the theoretical definition of the concept ...

... to its practical relevance along the value chain

Eco-Design

While designing for extended product lifetime and end-of-life is not yet a mainstream priority in fashion, circular design places growing emphasis on the following principles:

- Mono-material garments (e.g. 100% cotton instead of mixed fibers) when possible, for easier recycling
- Modular construction (e.g. removable zippers, easy disassembly)
- Integrated repairability

Optimising fabric use during the design phase involves strategic material planning and cutting techniques to reduce textile waste and maximise efficiency.

- Extends product lifespan by enabling repairs, reducing the need for replacement
- Facilitates closed-loop recycling, making it easier to repurpose textiles at end-of-life
- Aligns with EU directive 2024/1799 on repair of goods.

- Reduces fabric waste, production costs, and environmental impact (all else being equal)
- Decreases raw material demand
- Optimizes energy and water usage by ensuring that every fabric unit is fully utilized
- Enhances profitability by improving yield per meter of fabric, reducing material procurement expenses

Sustainable Sourcing

Improving raw material sourcing means shifting towards more responsible inputs — prioritising recycled fibres over virgin materials, supporting regenerative agriculture for natural fibres, and adopting bio-based alternatives such as mushroom leather or lab-grown materials.

Ensuring transparency and traceability across the entire product lifecycle — from sourcing to end-of-life — is essential. For example, Digital Product Passports (DPPs) offer visibility into material origins, carbon footprint, repairability, recycling pathways, and more.

- Reduces dependency on virgin petroleum-based fibres (e.g. polyester) and exposure to price volatility
- Promotes local production of recycled fibres, shortening supply chains
- Mitigates water and pesticide use associated with conventional cotton farming

- Empowers consumers to make informed and responsible purchasing decisions
- Supports circularity by equipping repairers and recyclers with essential product information

Responsible Production

Optimising production requires accurate demand forecasting and smarter inventory management to prevent overproduction, reduce excess stock, and promote quality over quantity. Reducing the number of collections released each year can also be a powerful lever, encouraging a more intentional and sustainable production model.

Pre-order and made-to-order models are effective tools to prevent overproduction, ensuring garments are only produced once a purchase has been confirmed. This approach eliminates unsold inventory and significantly reduces waste.

- Reduces waste generation and the need for overstock disposal
- Improves supply chain efficiency, cutting costs and lowering carbon emissions from storage and transport
- Enables agile production models, such as pre-order and made-to-order approaches

- Eliminates excess stock and unsold products
- Reduces emissions and resource use linked to overproduction
- Enables personalised orders, increasing customer engagement and loyalty

Brands' reinvention journeys can be accelerated through the support of various stakeholders across their ecosystem

First-Hand Manufacturers

Integrating eco-design, sustainable sourcing, traceability initiatives and responsible production into their production models.



patagonia®

K E R I N G



KIABI
la mode à petits prix

SMCP

STELLA McCARTNEY

Examples
Recycled / deadstock fabrics,
inventory softwares, etc.

Examples
Standards, rules, guidelines,
incentives, etc.

Examples
Tools, Plug & play solutions,
softwares, etc.

Sustainable & circular textile suppliers

Innovating and delivering circular, low-impact textiles to promote material-level circularity.

RECOVO

WETURN



Consortium & Policymakers

Organizations accelerating the transition to a circular economy in the fashion industry.

Re_fashion



«Enablers»

Companies or start-ups supporting brands in the implementation of impact measurement, traceability, transparency of the supply chain...

.arianee

ProductDNA



«The key issue in traceability is working with suppliers. I think we need to think about how to involve suppliers, how to get them to contribute, but also how to make their task easier, given that all the brands ask them for different information in different formats.»






Marie Samba, Head of Product & Customer Experience at Vaayu

“Reinvent” actions contribute to improved environmental performance while meeting evolving customer expectations

Initiatives such as eco-design can have a positive environmental impact — particularly by improving the textile mix — while also responding to the expectations of a new generation of consumers who increasingly prioritise eco-responsibility in their purchasing decisions.

The use of recycled fabrics has direct positive effects on the environment...

... more broadly on consumer’s considerations

	Virgin polyester	Recycle polyester
<div>Water consumption</div>	50 to 71 thousand liters per ton of polyester	Significantly lower water consumption (exact figures vary depending on processes)
<div>Greenhouse gas emissions</div>	14,2kg CO2 emissions per kg produced due to fossil fuel extraction and processing	Up to 40% lower CO2 emissions compared to virgin polyester
<div>Energy consumption</div>	125 megajoules of energy per kg	Requires about 60% of the energy needed for virgin polyester production
<div>Use of nonrenewable resources</div>	Derived from petrochemicals contributing to fossil fuel depletion	Repurposes existing plastic waste, reducing dependence on new fossil fuel extraction
<div>Waste reduction</div>		Recycling plastic waste (e.g. PET bottles)

40%

of consumers prefer new products if the product or brand enables responsible consumption.

64%

of French women are willing to spend more to ensure their purchase comes from a socially responsible supply chain.

60%

For ethical fashion enthusiasts, the major manufacturing criteria include :

60%

Environmental respect

60%

Decent working conditions and fair wages

54%

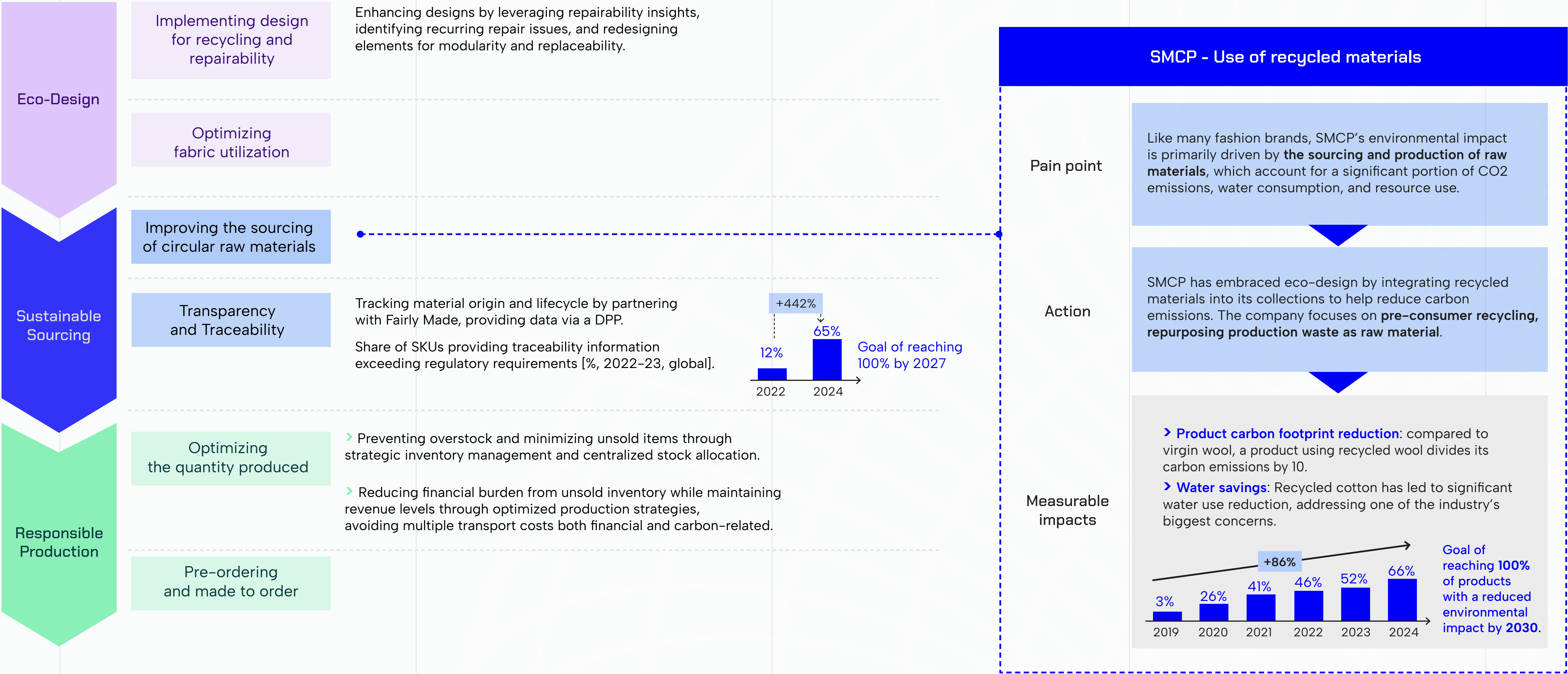
Reduced use of toxic substances

65%

of French consumers consider a brand’s commitment to sustainable development as a key criterion when purchasing clothing.

Note: Figures show a true improvement in consumer awareness which however do not translate into the purchasing act.

SMCP is an example of a fashion brand actively implementing a range of initiatives under the “Reinvent” pillar to advance circularity



Scaling eco-design solutions often requires overcoming a number of internal challenges

Despite offering strong business opportunities, scaling “Reinvent” initiatives around eco-design requires brands to undertake complex operational transformations.



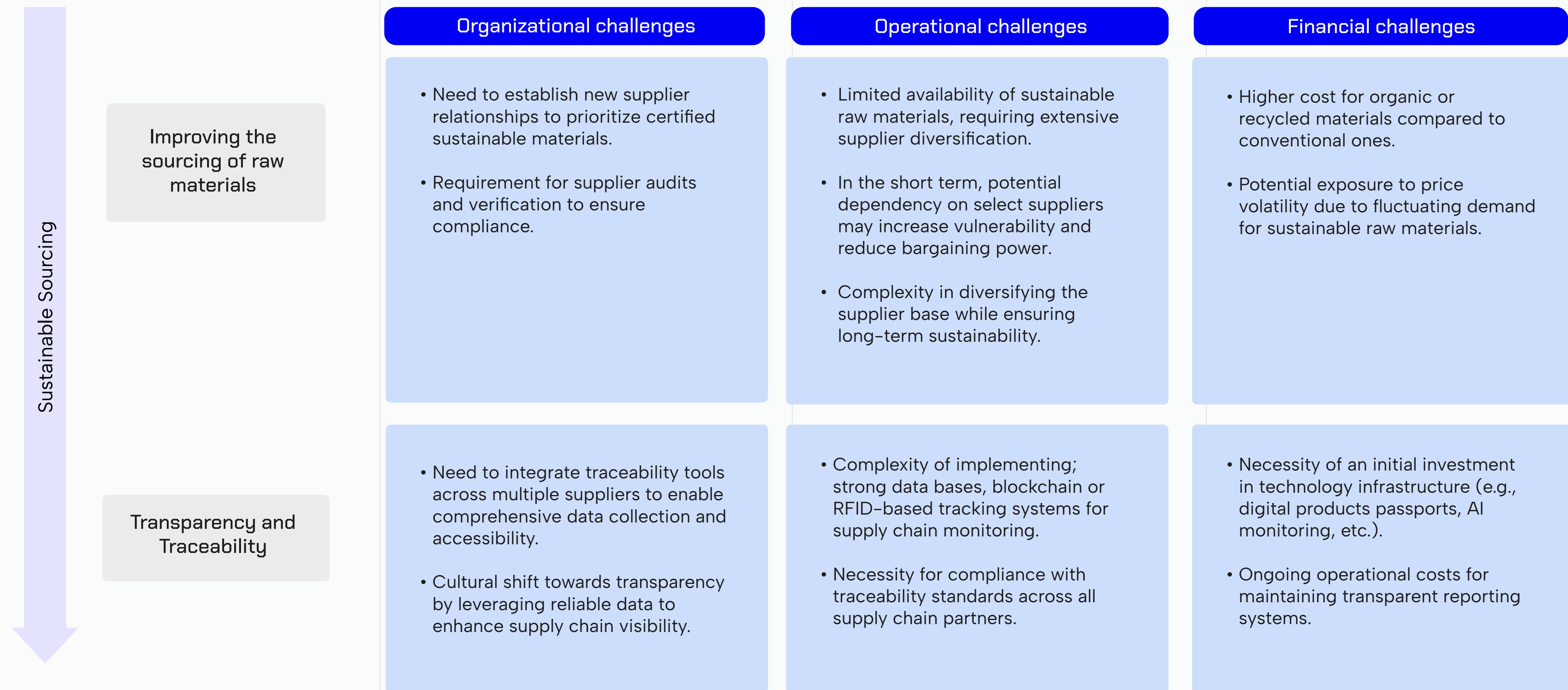
Sources: Interviews FMC x KPMG; KPMG Analysis

«The challenge is to put a well-designed, circular product that meets specific requirements back at the heart of value creation. Creativity must come from restriction.»

Camille Le Gal Co-founder Fairly Made

Scaling sustainable sourcing solutions often requires overcoming a range of internal challenges

Despite offering significant business opportunities, scaling “Reinvent” initiatives around sustainable sourcing requires brands to undertake complex operational transformations.



Scaling responsible production solutions often requires overcoming a range of internal challenges

Despite presenting several business opportunities, scaling up “Reinvent” initiatives around responsible production pushes brands to engage in a transformation with many challenges within their own operations.



Some players from the value chain have been experimenting with best practices to address these challenges

Examples of actions		
Eco-Design	Implementing design for recycling and repairability	<div><div>➤</div>Advocating for eco-design guidelines tailored to specific sectors, products, or materials</div> <div><div>➤</div>Integrating feedback from after-sales services and repairers to improve upstream design and reduce repair costs</div> <div><div>➤</div>Monetising repair services and offering extended warranties as added-value propositions</div>
	Optimizing fabric utilization	<div><div>➤</div>Rethinking the collaboration process between design and procurement departments</div> <div><div>➤</div>Training on zero-waste pattern-making</div>
Sustainable Sourcing	Improving the sourcing of circular raw materials	<div><div>➤</div>Diversifying material portfolios to include recycled and innovative materials</div> <div><div>➤</div>Investing in material innovation (e.g. mushroom leather, lab-grown silks)</div> <div><div>➤</div>Consolidating supply chains and integrating strategic actors</div>
	Transparency and Traceability	<div><div>➤</div>Consolidating traceability information in light of the upcoming Digital Product Passports requirements</div> <div><div>➤</div>Partnering with technological enablers to facilitate supplier relationship and gathering of information</div>
Responsible Production	Optimizing the quantity produced	<div><div>➤</div>Implementing AI-powered forecasting tools to better predict sales-through and production needs</div>
	Pre-ordering and made to order	<div><div>➤</div>Educating consumers on the benefits of pre-ordering to reduce waste</div> <div><div>➤</div>Developing partnerships with manufacturers to ensure custom order sizes</div>

Embedding sustainability in fashion education is key to equipping future designers and product teams with the capabilities to rethink legacy models. This shift directly supports the 'Reinvent' pillar by building a pipeline of talent aligned with circular transformation goals.

Moreover, the development of the “Reinvent” pillar can unlock a range of long-term opportunities for brands

While the implementation of circular initiatives requires technical investment, scalability, financial viability, and consumer engagement, it also represents the possibility to generate a strong competitive advantage at various levels:

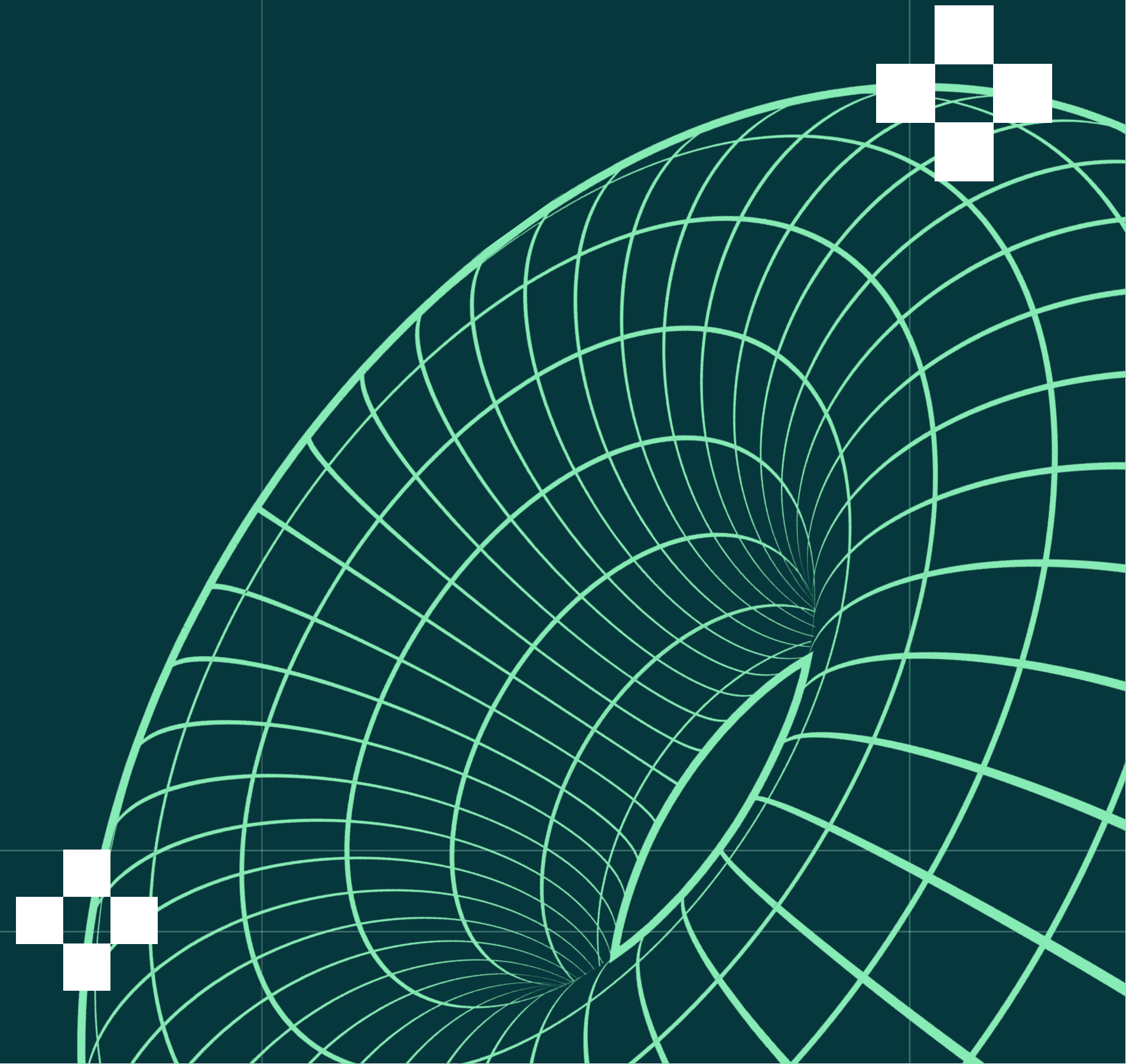


« 3 pieces of advices:
① *Make smaller collections but make higher quality collections.* ② *Be in control of your total supply chain. Know exactly where each fibre and each button, and each detail of your garment comes from, because the total defines the quality of your end product.* ③ *Make sure that you find the right way, the right tone of voice to communicate what the efforts you do on shared clarity towards the consumer in an understandable language.*»

Tony Tonnaer, Business development manager at Product DNA

PILLAR 2 Reuse

Make second hand
the first choice



Reuse, encompassing second hand and rental markets, aims to extending a garment's lifetime



2nd hand clothing market

➤ The second-hand clothing and footwear market refers to the **buying and selling of pre-owned garments, leather goods and accessories**. This market includes various platforms such as **thrift stores, vintage shops, online marketplaces, and specialized second-hand stores**.

➤ The primary drivers for this market are **sustainability, affordability, and the unique appeal of vintage fashion**.

➤ Consumers are increasingly aware of the environmental impact of fast fashion and are **turning to second-hand options to reduce waste and promote a circular economy**.

Second-hand business models

Peer-to-peer platforms

Websites allowing individuals to buy and sell pre-owned items directly from each other.

Resale stores

Retailers buying, inspecting, and reselling second-hand items.

Consignement shops

Stores selling items on behalf of the owner and taking a commission on the sale.



Clothing rental market

➤ The clothing rental market involves **renting garments for a specific period instead of purchasing them**. This market is **particularly popular for formal wear, and event-driven fashion** such as weddings and galas.

➤ The rental model is **gaining traction due to its convenience, affordability, and sustainability benefits**, allowing consumers to access trendy outfits **without the commitment of ownership** and to borrow high-end designer outfits at a fraction of the retail price.

Rental market business models

Subscription model

Customers pay a monthly fee to access a rotating selection of garments.

Standalone model

Customers rent individual items for a specific event or period, a common model for formal wear and specific occasions like weddings and galas.

Sources: Thestylecycle; Interviews FMC x KPMG; KPMG Analysis

By reducing the need for new production, the “Reuse” pillar reduces textiles carbon, waste and water footprint

A strong contribution of the second-hand market...

Impact of lifetime extension

Extending the life of a garment by just **nine months** can reduce its carbon, water, and waste footprints by around **20–30%**.

Buying a **used garment extends its life on average by 2.2 years**, which reduces its carbon, waste and water footprint by **73 percent**.

Impact of buying used vs. new clothing items

The **environmental impact of reusing textiles is 70 times lower**, even when accounting for global exports for reuse, including transport emissions.


More specifically, **3 kg of CO2 are saved** for each high or medium-quality clothing that is reused, **reuse requires only 0.01 per cent of the water used in the production of new clothing**.

...coupled with promising impacts of the clothing rental market.

Rent the Runway (RTR), an online fashion rental brand, conducted a study on the sustainability of clothing rental. Their straightforward research involved surveying users and comparing the life cycle of purchased versus rented clothes. The results were promising, indicating that **clothing rental can significantly reduce environmental impact**:

Resource use and emissions of rented vs. purchased clothes





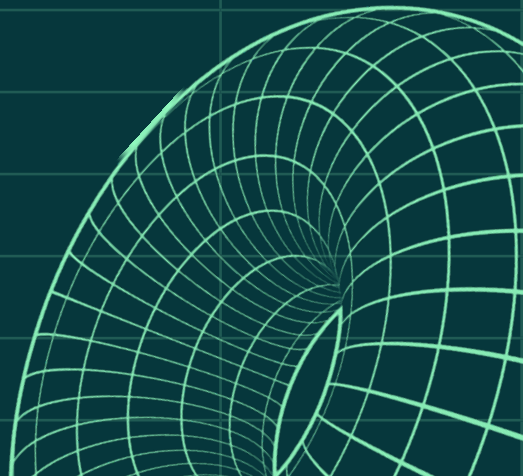
Special attention should be given to the rebound effects associated with second-hand fashion. These occur when the environmental benefits of resale are offset by increased consumption — particularly when fast fashion continues to feed the market with short-lived trends. Lower prices can encourage overbuying, and if second-hand purchases do not replace new ones, the potential for resource savings is minimal. Additionally, logistics and resale operations generate emissions, further limiting the net sustainability gains.

The second-hand clothing market helps lower the carbon footprint by reducing the need for new production. In 2022, the reuse of textiles in the EU saved approximately 3.5 million tons of CO2 equivalent.

Sources: European Environment Agency; Recycling magazine for European textile reuse and recycling industry; Patagonia institutional website; Rent the Runaway study; KPMG Analysis

«Caring for the planet has become the ultimate luxury—and indifference is simply out of style. With luxury fashion prices on the rise and economic pressures mounting, embracing second-hand represents a meaningful opportunity for brands to offer more inclusive pricing—profitably, sustainably, and at scale—while remaining true to their unique identity and style. Circularity is no longer optional; it’s fundamentally about reconnecting brands, their customers, and the planet.»

Daniela Ott, Founder, Agape Consulting



Certain second-hand market players have successfully measured these positive impacts and introduced new monitoring KPIs

Vestiaire Collective

Vestiaire Collective is deeply embedded in the **reuse pillar of fashion circularity**, facilitating **the resale of premium and luxury fashion items between individuals and professionals**. Operating on a global scale—primarily in Europe, the U.S., and Asia—the platform differentiates itself through **high authentication standards, a strong fashion-centric identity, and a highly engaged community**. In 2023, the platform generated a GMV of **\$168 million** in Europe.

A positive environmental impact

Localized Shipping

Warehouses in France, the UK, the US, and Hong Kong enable **local-to-local transactions**, reducing shipping distances.

Lower Air Transport Use

Air shipping dropped from **50%** in 2020 to **30%** in 2023, replaced by more **sustainable road transport**.

Direct Shipping Growth

65% of items are now shipped **directly** between buyers and sellers (vs. **48%** in 2020), cutting emissions from extra logistics steps.

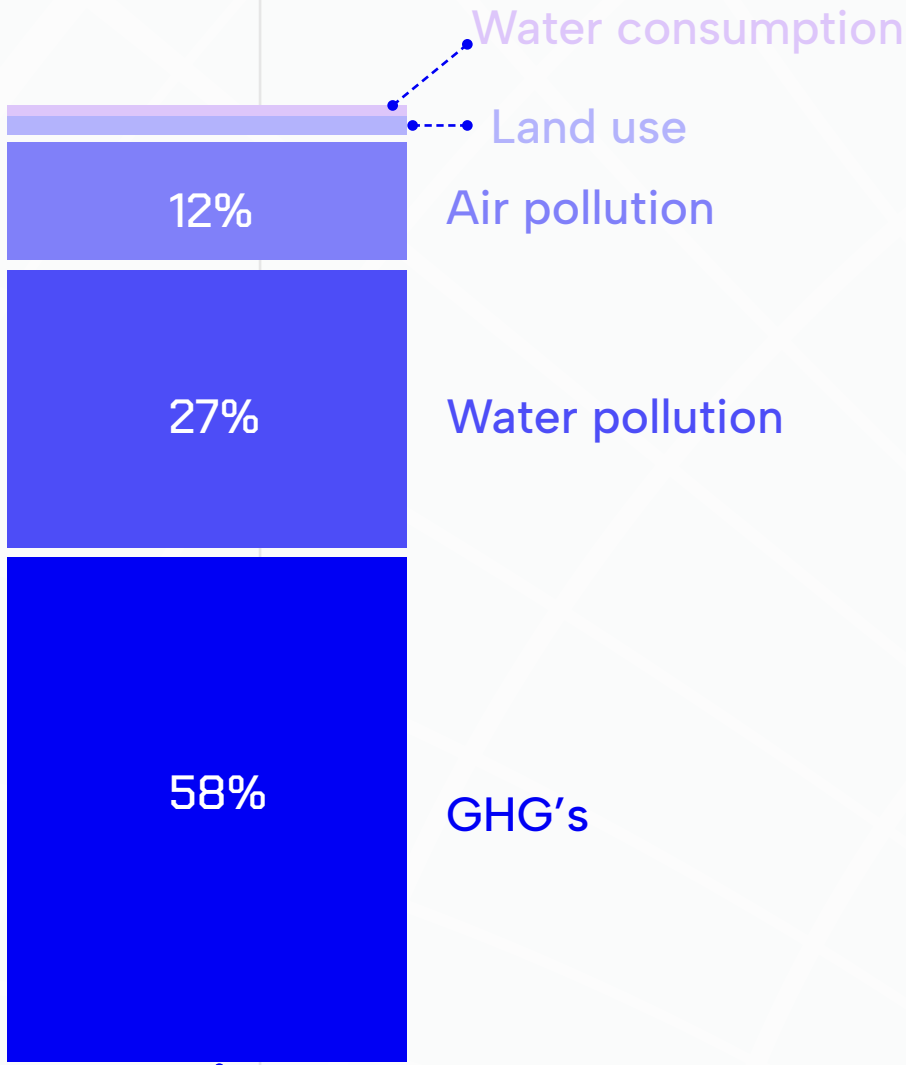
Reusable Packaging

Multi-use cardboard boxes and minimal excess packaging help cut waste—only **10%** of shipments require additional pouches (down from **50%** in 2019).

No Virgin Plastic

Since 2021, packaging is **98% recyclable**, with **63%** made from recycled, organic, or bio-sourced materials.

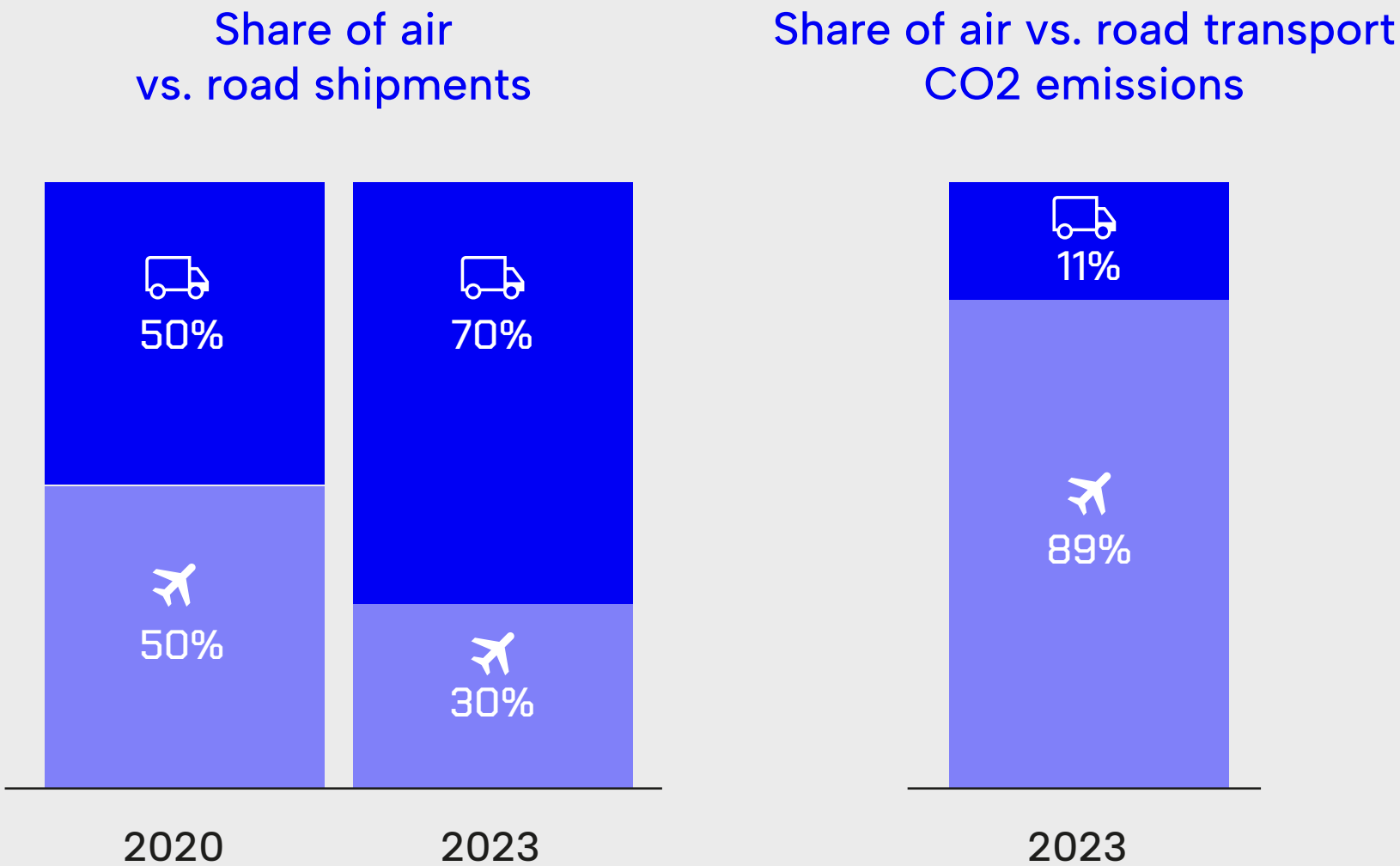
Breakdown of the environmental impact



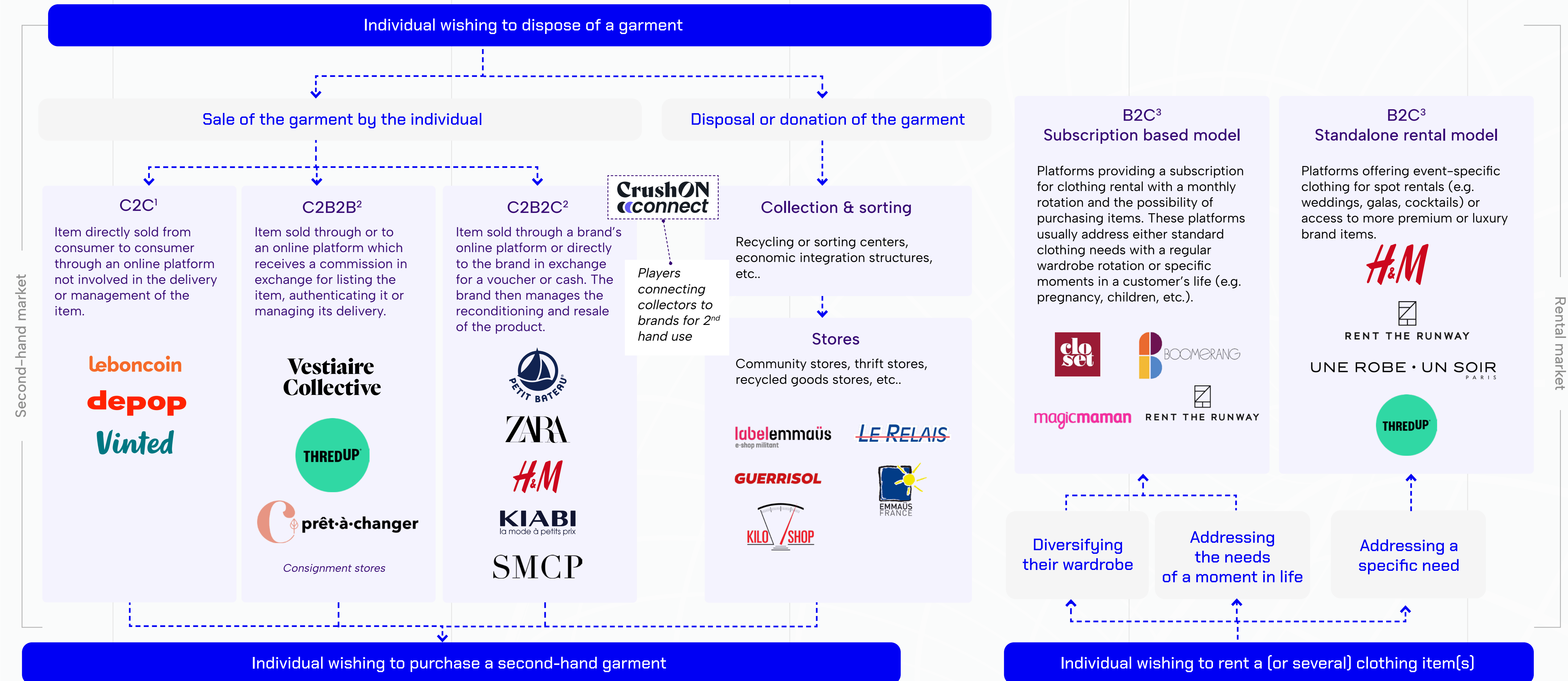
Shopping on the platform **reduces environmental impact by 90% compared to buying new**, as it avoids the significant environmental costs associated with production, such as water consumption, pollution, and greenhouse gas emissions.

«Vestiaire Collective acknowledges the environmental impact of logistics, particularly due to double transportation for authentication. However, even considering these impacts, second-hand fashion still reduces CO2 emissions by approximately 90% compared to new production.»

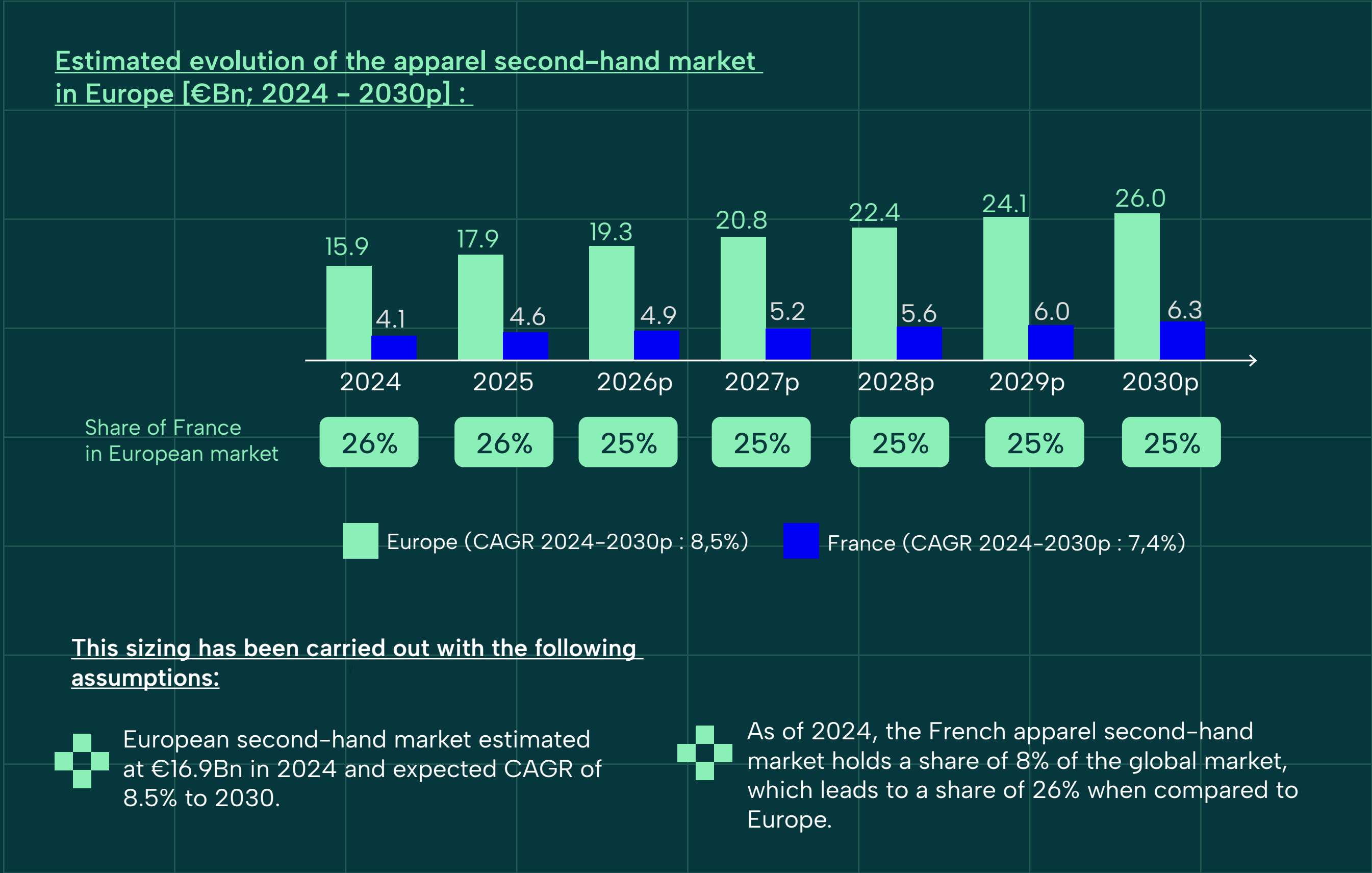
Hortense Pruvost, Head of impact of vestiaire collective



Players in the “Reuse” ecosystem are diverse and can be found at several stages of the value chain



Overall, the European second-hand market is expected to grow at an 8.5% p.a. rate, reaching ~€26Bn by 2030



European country-specific 2nd hand perspectives

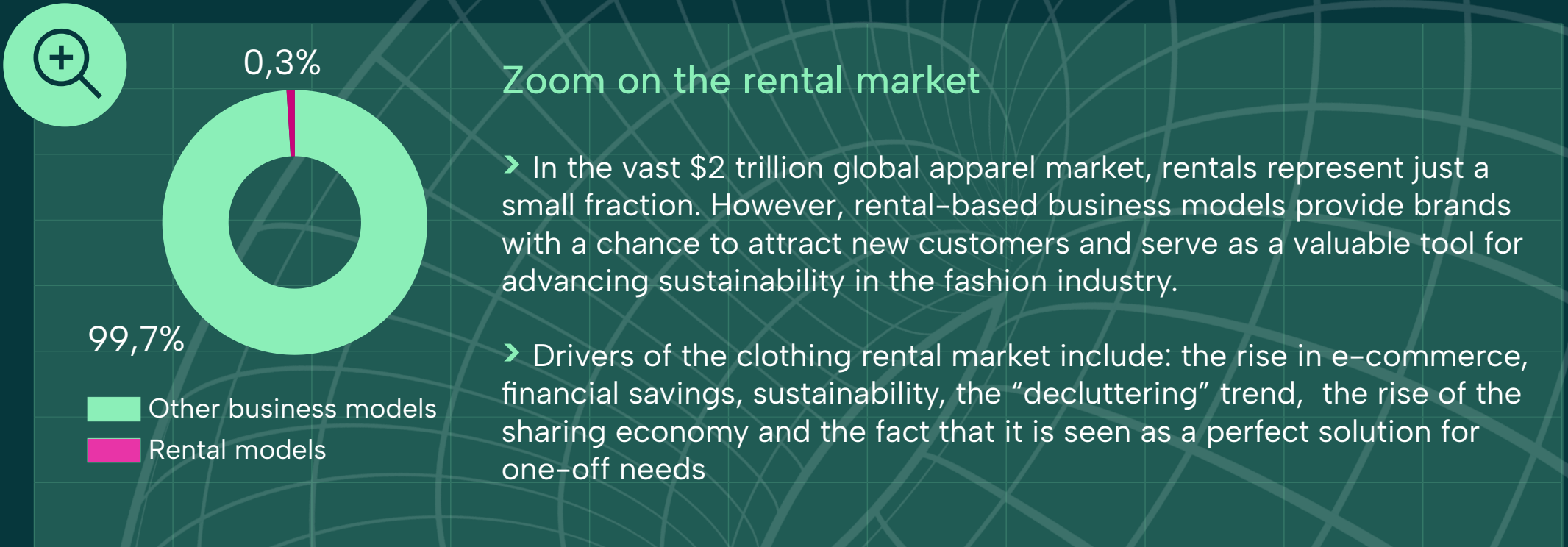
Italy displays a **projected CAGR of 7.4% from 2024 to 2034**. Sustainability focus and strong eCommerce infrastructures boost the market. Italy’s fashion and tourism reputation supports its growth.

Germany has an **expected CAGR of 5.4% by 2034**. Eco-conscious consumers and robust digital infrastructures drive the market. Germans invest in high-quality pre-owned clothing.





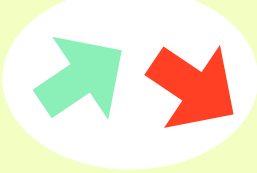
Spain is poised for explosive growth with a **projected CAGR of 8.1% through 2034**. Young population and thriving e-commerce make second-hand clothing accessible while Spanish consumers value vintage authenticity.

France is **set to expand at a CAGR of 6.6% through 2034**. Government initiatives and the sharing economy support its growth. Millennials and Gen Z drive demand for sustainable, unique fashion.

Best in class country



«Reuse» is driven by evolving consumption habits, especially among new generations, and regulatory changes

Economic	<ul style="list-style-type: none">› Consumers are driven by the financial benefits of second-hand, seeking affordable prices and value for money to maximize their purchasing power.	<div>Positive</div>	<ul style="list-style-type: none">› High economic motivation leads to favorable attitudes towards second-hand clothing.› Ability to stretch their budget and shop at lower prices.
Hedonic (treasure hunting)	<ul style="list-style-type: none">› Excitement of finding rare, unique, or vintage pieces drives buyers.› Thrill of hunting for treasures provides emotional satisfaction, making shopping fulfilling.	<div>Strong Positive</div>	<ul style="list-style-type: none">› Treasure-hunting thrill enhances positive attitudes more than economic and ethical considerations.
Ethical motivations	<ul style="list-style-type: none">› Environmentally responsible consumers buy second-hand to reduce waste/conserve resources.› Concerns about labor rights and ethical production lead to choose second-hand over fast fashion.	<div>Positive</div>	<ul style="list-style-type: none">› Consumers feel they are contributing to larger environmental and social good, connecting with individuals seeking to align their consumption with their values.
Fashion Interest	<ul style="list-style-type: none">› Fashion-forward consumers are drawn to second-hand stores for vintage or unique items.› Fashion-conscious consumers prefer second-hand clothing as a sustainable alternative.	<div>Mixed</div>	<ul style="list-style-type: none">› While interest in unique fashion can be a positive driver, strong materialistic values and a preference for new or trendy items can have a negative impact.
Political views	<ul style="list-style-type: none">› Consumers favor Second-hand when supporting government intervention in environmental issues.› Those who prioritize personal freedoms may prefer individual choice.	<div>Divergent</div>	<ul style="list-style-type: none">› Belief in government responsibility for environmental issues.› Individual liberty reflecting a preference for personal choice over communal responsibility.





Zoom on regulatory framework

The EU’s Strategy for Sustainable and Circular Textiles aims to ensure textile products are durable, repairable, and recyclable. Key measures include:

- › Design requirements
- › Digital product passports
- › Extended producer responsibility (EPR) for waste management

The Commission proposes mandatory EPR schemes for textiles in all EU member states.



France’s Anti-Waste and Circular Economy Law (AGEC, 2020) includes environmental labeling, prohibition of destroying unsold goods, and extended EPR for the lifecycle of other products.



Germany’s Circular Economy Roadmap emphasizes resource efficiency, supply chain due diligence, closed-loop systems, and compliance for textile production and sale.

Sources: “Sustainable Fashion Choices: Exploring European Consumer Motivations behind Second-Hand Clothing Purchases” study (2024); European Commission; KPMG Analysis

The implementation of “Reuse” initiativesrelies on a set of prerequisites that brands need to secure

1

Differentiated pricing and value proposition

Leveraging **price as an indicator of brand desirability** on second-hand platforms. Appropriate pricing and differentiated value proposition helps to maintain the value required to make the model profitable.

«For brands that produce their own collections, resale raises legitimate concerns: risk of brand dilution, loss of control over the narrative, or confusion in positioning. For these players, the key lies in building strong, trusted partnerships with second-hand professionals — to ensure not just access to product, but coherence in experience and brand integrity.»

Maxime Delavalle, Founder and CEO of CrushOn



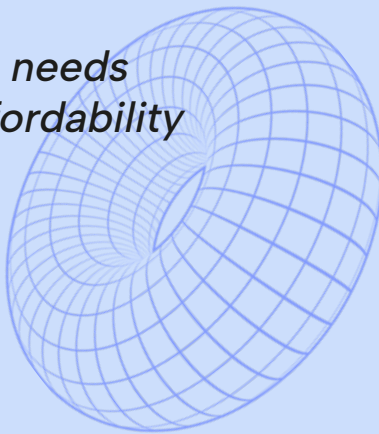
2

Secured desirability

Ensuring desirability via the brand’s engagement on social networks (e.g., TikTok, Instagram, Facebook – groups) and including CSR, circularity and second-hand aspects in communication planning.

«For second-hand to be a real alternative, it needs to have the sameease of use, supply and affordability as new fashion.»

Marianne Gybels, Senior Sustainability Director at Vinted



3

Omnichannel maturity

Achieving digital and e-commerce maturity as a first stage, then developing the physical in-store channel (e.g., Petit Bateau, Kiabi, Galeries Lafayette, H&M, Selfridges).

4

Optimized warehousing

Ensuring sufficient storage space in the boutiques network and warehouse for second-hand stock, **as well as the necessary logistical platforms.**

5

Trained salespeople

Train sales staff in the second-hand speech, as well as in the process of receiving and checking garments on deposit.

6

Controlled environmental impact

Ensuring a **limited rebound effect** on sales to avoid additional environmental impact from second-hand sales.

Market experiences incorporating “Reuse” initiatives can offer numerous business benefits



2nd hand clothing market

- Generation of an **additional in-store purchases** through vouchers, as seen with several brands that have set up a second-hand segment, with a very large proportion of vouchers used quickly and driving a **boost of the customer’s basket average value**.
- **Reactivation of existing non-active customers or new customers who do not initially belong to the brand’s core target segment** (i.e., segments for whom ‘first-hand’ products’ pricing is perceived as too expensive, for example).
- In the short term, creation of a **“defensive approach”**, meaning it might not drive immediate additional client acquisition, but it can contribute to churn reduction.
- **Better control of brand’s prices on the 2nd hand market**, considering the brand’s value on the 2nd hand market is a true **reflection of brand perception and popularity among customers**.
- Reduced acquisition costs and improved customer loyalty.

«With the trade-in of second-hand products by brands, we have seen sales generated at a margin of 40% year-on-year and we are on track to reach 50% in the next few years.»

Aymeric Déchin, Co-founder & CEO of Faume

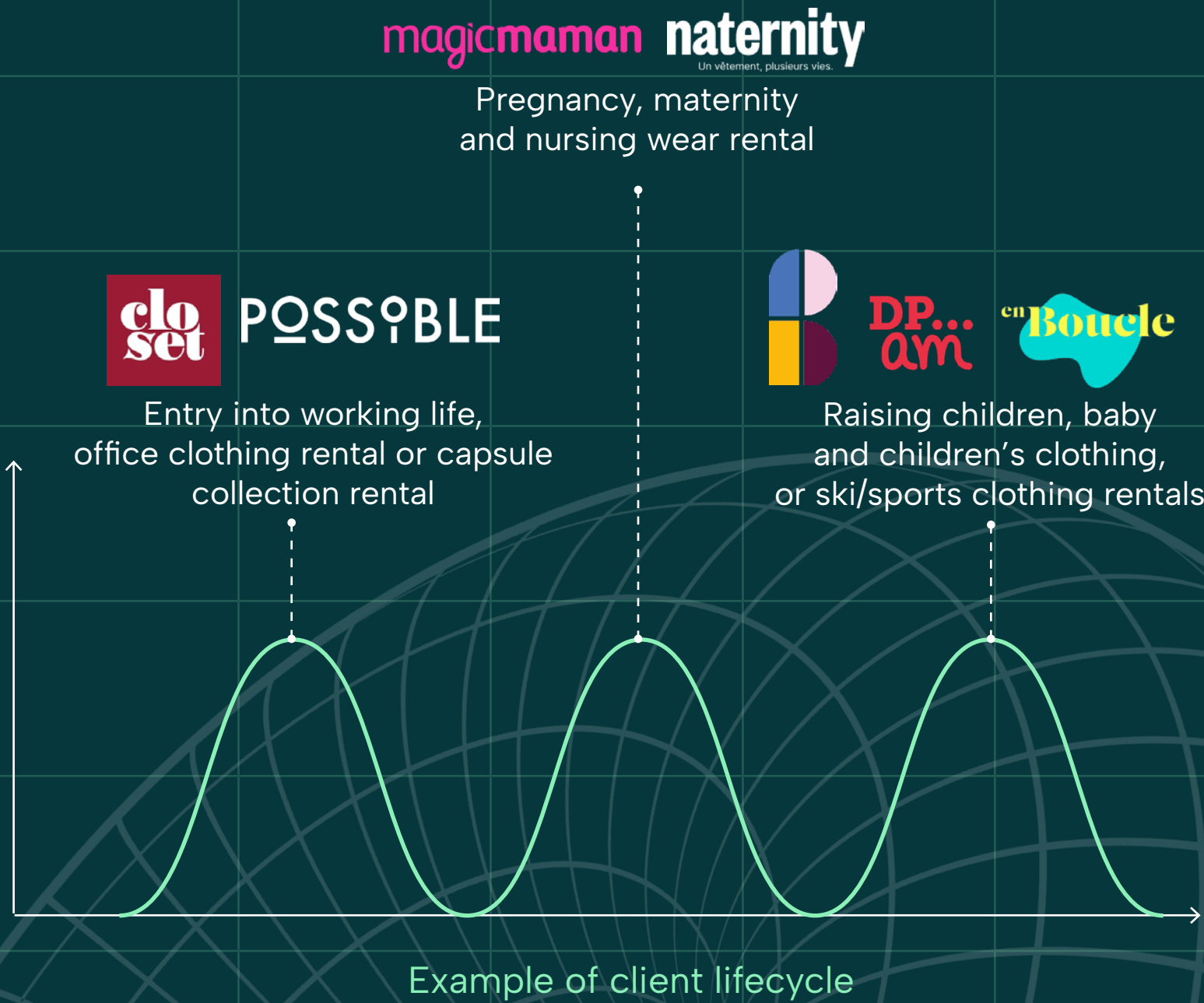
«Second-hand is no longer a trend — it’s a strategic lever for growth and circular profitability. The key is to rely on historical professional resellers to source coherent assortments at scale.»

Ihem Jaï, Co-Founder & COO of CrushON

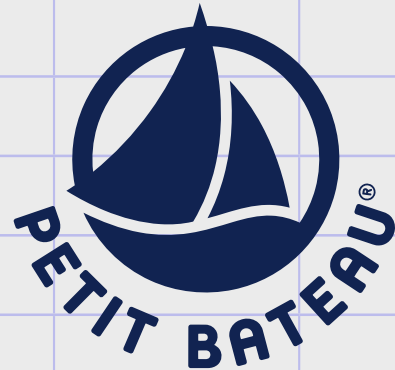


Clothing rental market

- The rental model has the potential to drive progress in the circular fashion economy, but its **success is highly dependent on shifting consumer habits**.
- While rental is gaining traction in Europe, **cultural barriers and usage patterns still limit its widespread adoption**. Unlike in the US, where event-driven fashion rental (e.g., weddings, galas, formal events) is deeply embedded in consumer habits, European consumers are less accustomed to renting clothing for specific occasions.
- To make rental a scalable and profitable business model, **companies must align offerings with cultural habits in each geography, but also with key life moments** as shown with examples of players operating on the French rental clothing market today:



Zoom on “Reuse” initiatives of first hand players facing challenges on the second hand market



- Since 2017, Petit Bateau has embraced circular fashion, starting with a **resale app** and **expanding in 2021 with the «Changer (De)main» trade-in program**. The initiative has already processed **200,000+ items per year**, with **second-hand sales representing 10% of revenue in stores with resale corners in 2023**.
- After expanding to over **20+ resale corners** in 2023, Petit Bateau ended its in-store second-hand sales in June 2024 and the program has been fully integrated into its **e-commerce site**, offering both new and pre-owned products in a single shopping cart. The initiative boasts an NPS (Net Promoter Score) of 60+, reinforcing strong customer engagement.
- **75%** of online shopping carts at Petit Bateau contain both new and 2nd hand items, and the brand aims for **one-third** of its volume to come from circularity by 2030.

Strengths of Petit Bateau’s approach

Circularity Commitment

Petit Bateau successfully integrated second-hand resale into its strategy, aligning with eco-responsibility goals.

Strong Customer Engagement

The 10% of store revenue from second-hand sales and the NPS of 60+ highlight positive customer reception.

Expansion

The opening of 22 resale corners and the introduction of second-hand sales on the e-commerce platform was a significant success.

Brand loyalty

The brand offers the same after-sale services for both new and second-hand products building trust and loyalty.



2nd Hand prerequisites highlighted by Petit Bateau’s Strategy



Proper pricing

- Properly differentiating the pricing of second-hand items from new ones is crucial to maintaining **brand desirability**.
- A key lesson here is the importance of aligning prices with operational costs, including cleaning, treatment, and merchandising to **ensure profitability** while **reinforcing the brand’s value across both product categories**.



Differentiated value proposition

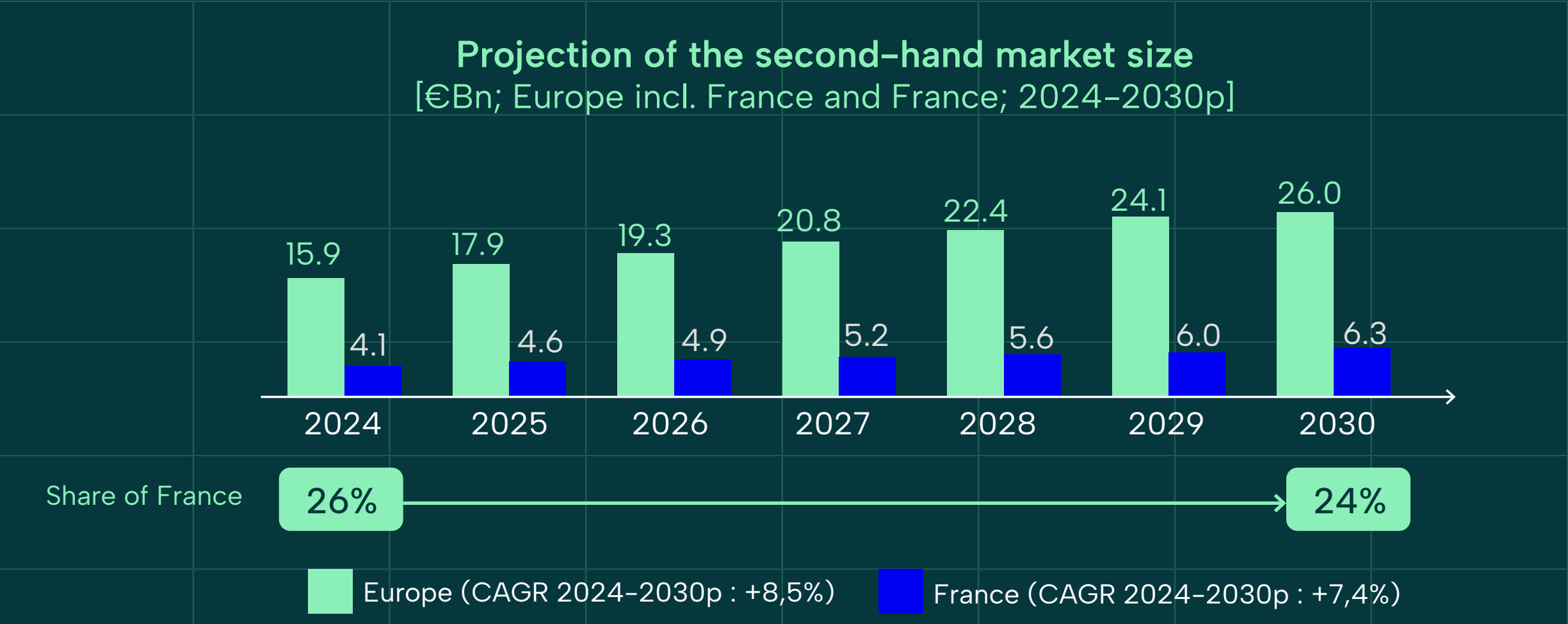
- Integrating new and second-hand items into a **single shopping experience** (same website and card) could diminish the perceived premium value of new products, particularly in a brand like Petit Bateau, known for its **strong permanent collection**.
- This approach could make second-hand items seem like **viable alternatives**, weakening the appeal and exclusivity of new offerings.



Optimized warehousing

- Managing and storing second-hand stock effectively across multiple stores where secondhand items are collected remains a **logistical challenge**.
- An **efficient warehousing system is essential** to mitigate the risk of operational costs **overwhelming the profitability of second-hand sales**.

The European second-hand apparel market is expected to reach €26Bn and generate 66+ thousand jobs by 2030

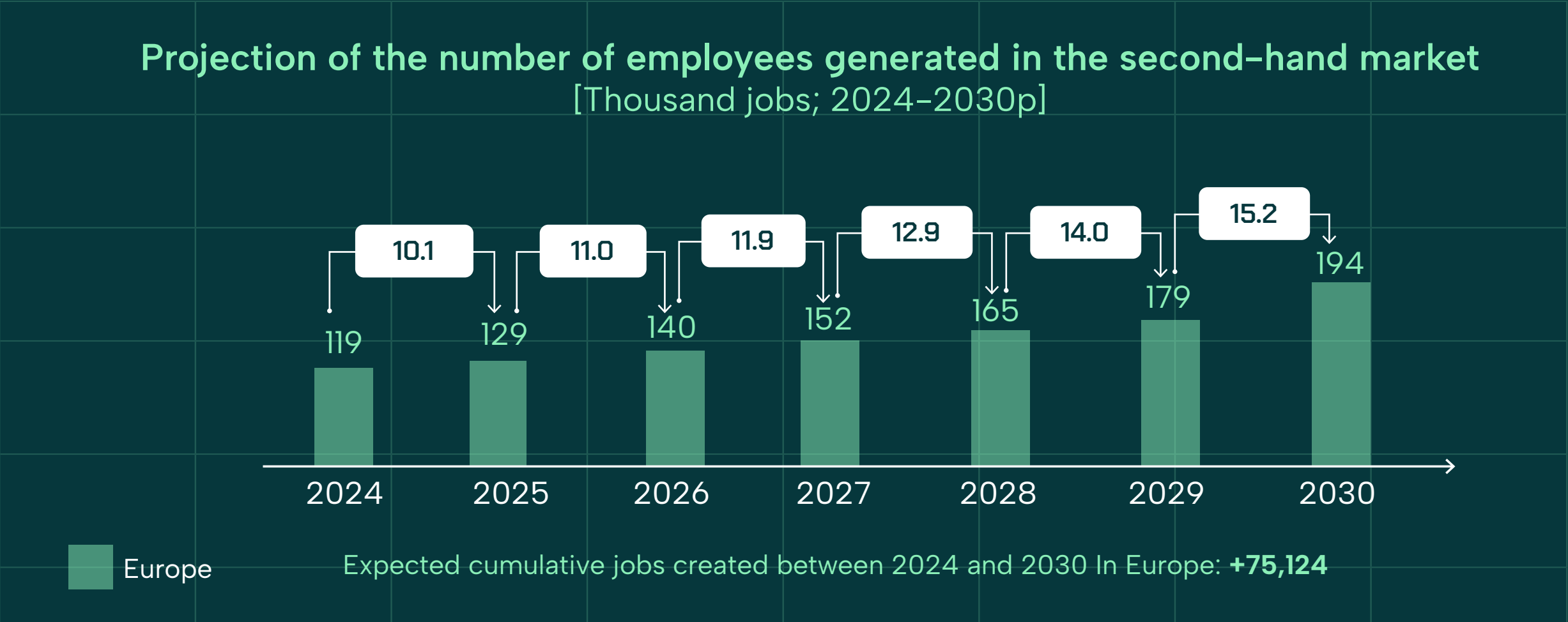


This sizing has been carried out with the following assumptions:

- European second-hand market estimated at €15.9Bn in 2024 and expected **CAGR of 8.5%** to 2030.
- French second-hand apparel market expected **CAGR of 7.4%** by 2030. The French market is supported by governmental incentives to promote second-hand.
- As of 2024, the French apparel second-hand market holds a share of **8%** of the global market, which leads to a share of 26% when compared to Europe. As of 2030, France will represent **24%** of the European second-hand apparel market.

Limits of the assumptions:

- > The study includes the UK, a mature market with an expected CAGR at ~4%.



This sizing has been carried out with the following assumptions:

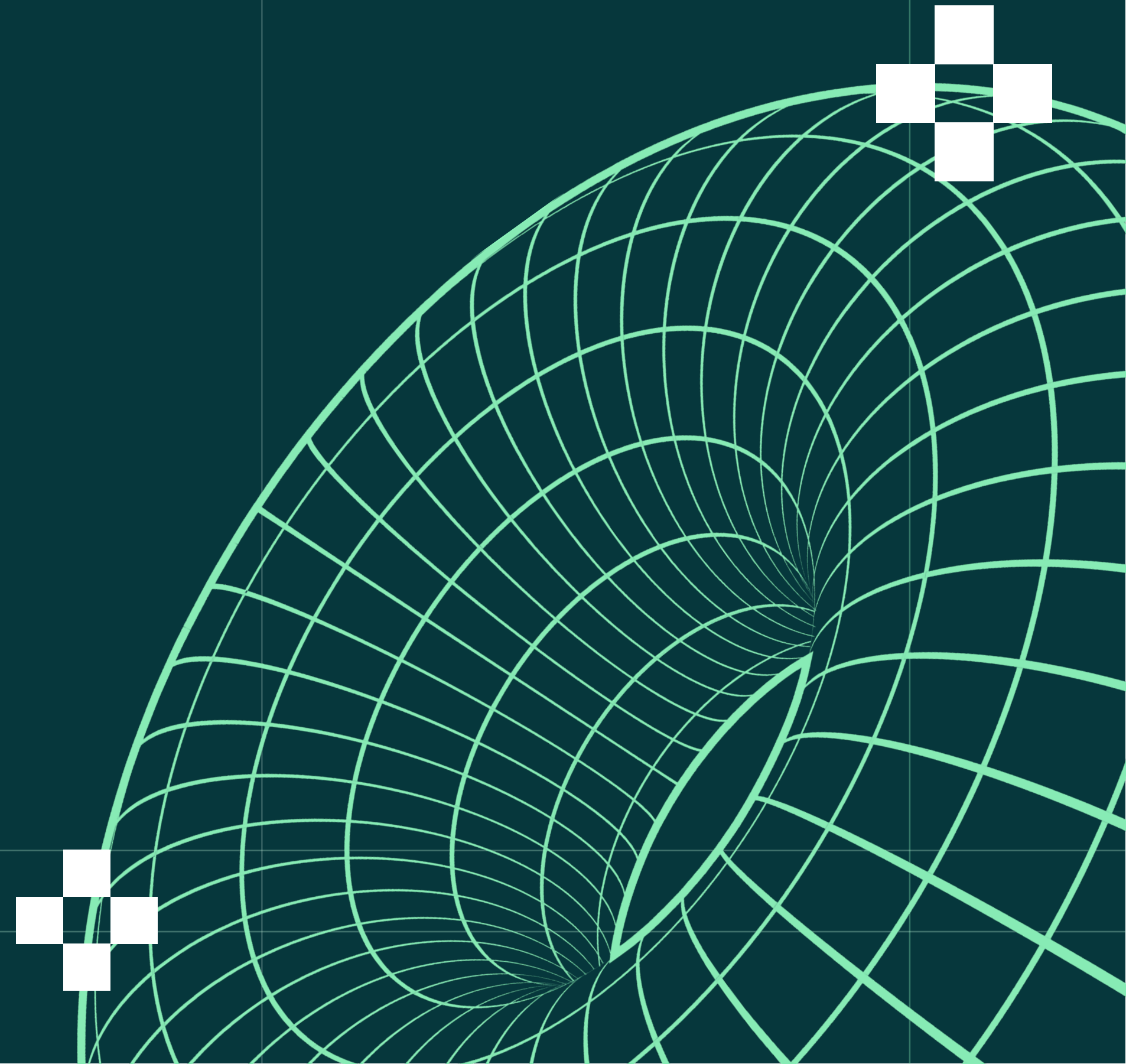
- Job creations follow the same growth as the European second-hand apparel market with an expected CAGR at **8.5%**.
- It is estimated that in Europe **19%** of the second-hand revenue comes from online purchases, while **81% occur offline** (ex. Vintage stores).
- Existing jobs in the European second-hand apparel market in 2023 were estimated **at 110,000 in the EU27** (150,000 including the UK).

Limits of the assumptions:

- > The French market was not sized because of the **lack of reliable data**.
- > The European apparel rental market was not included due to the lack of data.

PILLAR 3 Repair

For a longer lasting
fashion



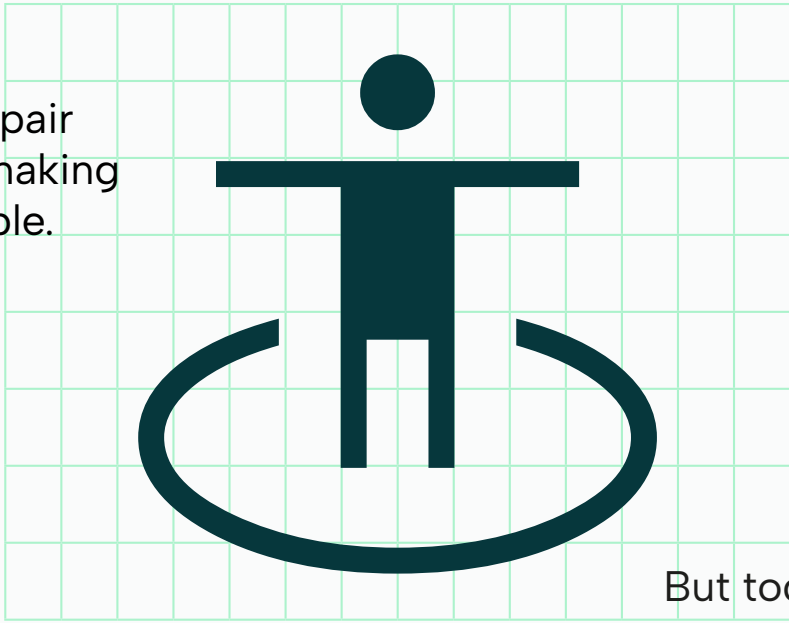
Repair is a powerful tool that can be used by industry players to further increase an item’s lifespan

As regulations evolve to limit the environmental impact of fashion, a growing category of consumers are changing their habits and turning towards more sustainable practices. **Repairing garments is emerging as a solution to extend the lifespan of textile pieces and reduce the need for a new purchase.**

Historically based on artisan shoemakers or dressmakers/tailors, **repairs are today increasingly carried out by fashion brands**, mobilizing to meet a growing demand for repair and to improve their image. By setting up **Repair services, through internal capabilities or external partnerships with craftsmen or platforms**, brands also seek to capture the value of a growing market while creating a new ecosystem around repair of clothing items, footwear or leather goods.

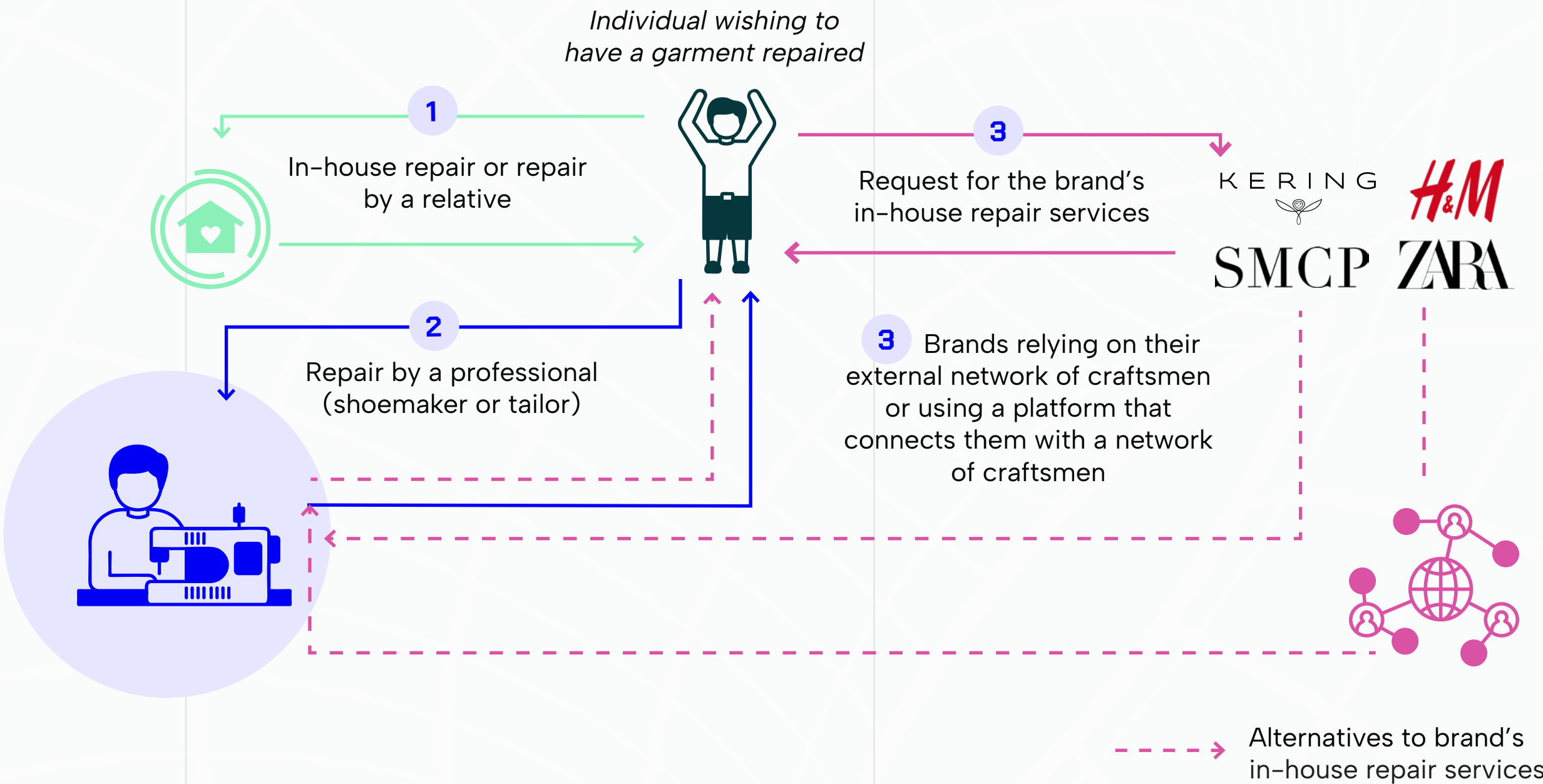
From consumer habits evolving at a slow pace...

55%
of consumers already considered clothing repair as one of the keys to making fashion more sustainable.
(EU study, March 2022)

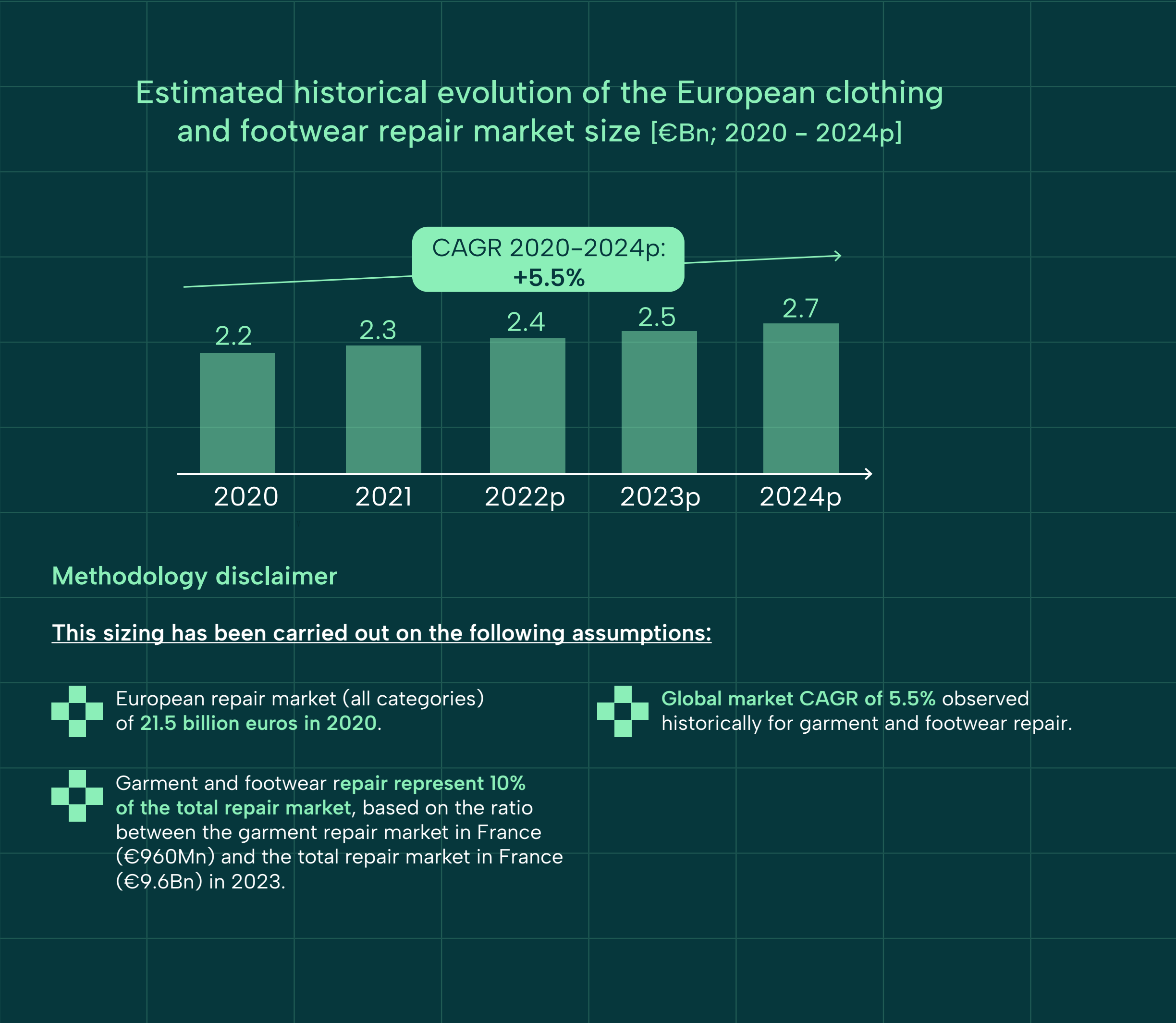





But today, only **36%** of French people report sometimes or often repairing or adapting clothes for a new use.
(IPSOS, 2023)

...to a changing ecosystem and a diversifying competitive landscape




Overall, the current market size for the repair of apparel amounts to a total of €2.7Bn globally in 2024



Zoom on contribution of France and its market drivers

- In 2019, ADEME estimated that **16 million clothing items and shoes were repaired in France**, demonstrating France’s major contribution to Europe’s share of the global repair market.
- In addition, a **“repair bonus” has been introduced in France** to encourage the repair of textiles and shoes. With a budget of **154 million euros for the period 2023-2028**, this initiative aims to increase the volume of repaired products by 37% by 2028.
- By 2025, the **bonus repair scheme should include 1,500+ repairers, with many certified repairers** having reported a 20 to 30% increase in their revenue, without raising the prices they charge.
- The bonus, which ranges **from 6 to 25 euros for clothing and 7 to 25 euros for shoes**, is applied as a discount at the time of payment. Over the first year of application of this bonus scheme, an **average bonus of 8€ was applied on a total of 826,000 repaired item**.

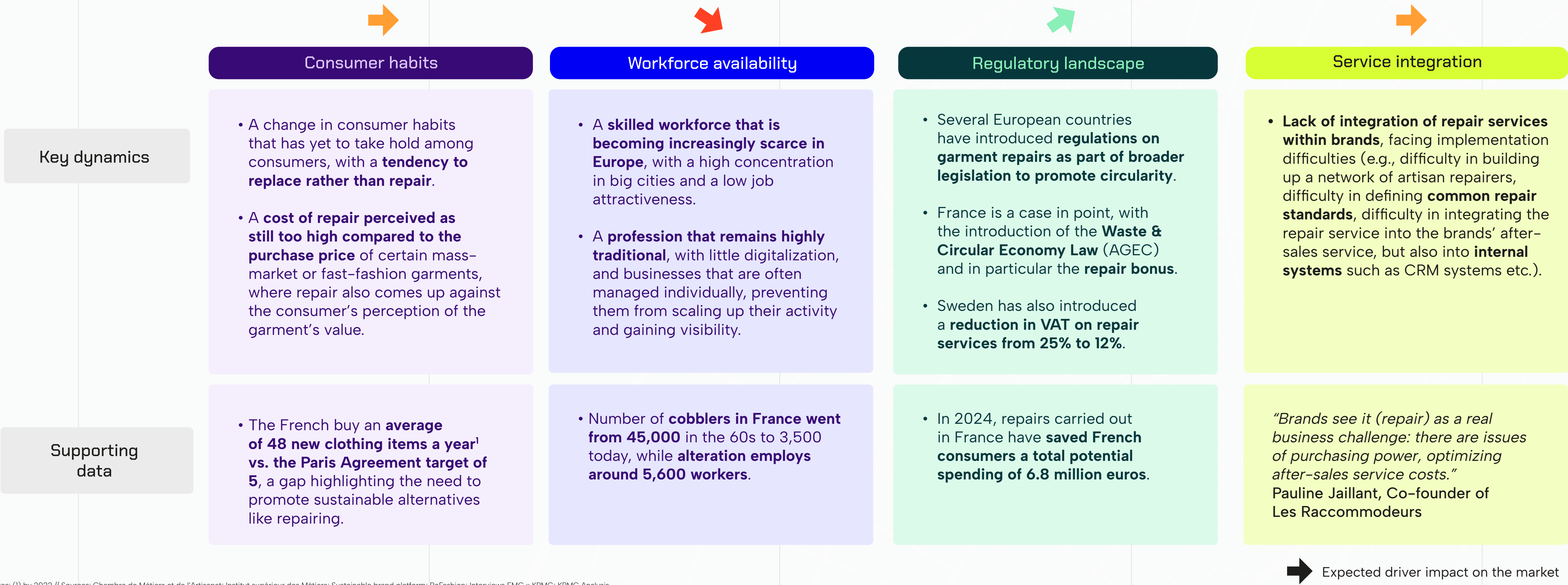


Best in class country

- The global clothing and footwear repair market mainly comprises **metal clothing repair**¹ with 40% of the total revenue, followed by footwear repair at 35%, and other repair types at 25%, with footwear repair expected to grow the fastest
- In particular, zipper repairs were **the largest sub-segment**, holding 50% of the metal clothing share, while **sneaker repairs** are dominating the footwear segment.

Notes: (1) includes metallic components of clothing such as zippers, buttons, rivets, etc. // Sources: European Environment Agency; ADEME; Market Reports; INSEE; FashionNetwork articles; Interviews FMC x KPMG; KPMG Analysis

The repair market appears to be highly sensitive to consumer habits among various external factors



Notes: (1) by 2022 // Sources: Chambre de Métiers et de l'Artisanat; Institut supérieur des Métiers; Sustainable brand platform; ReFashion; Interviews FMC x KPMG; KPMG Analysis

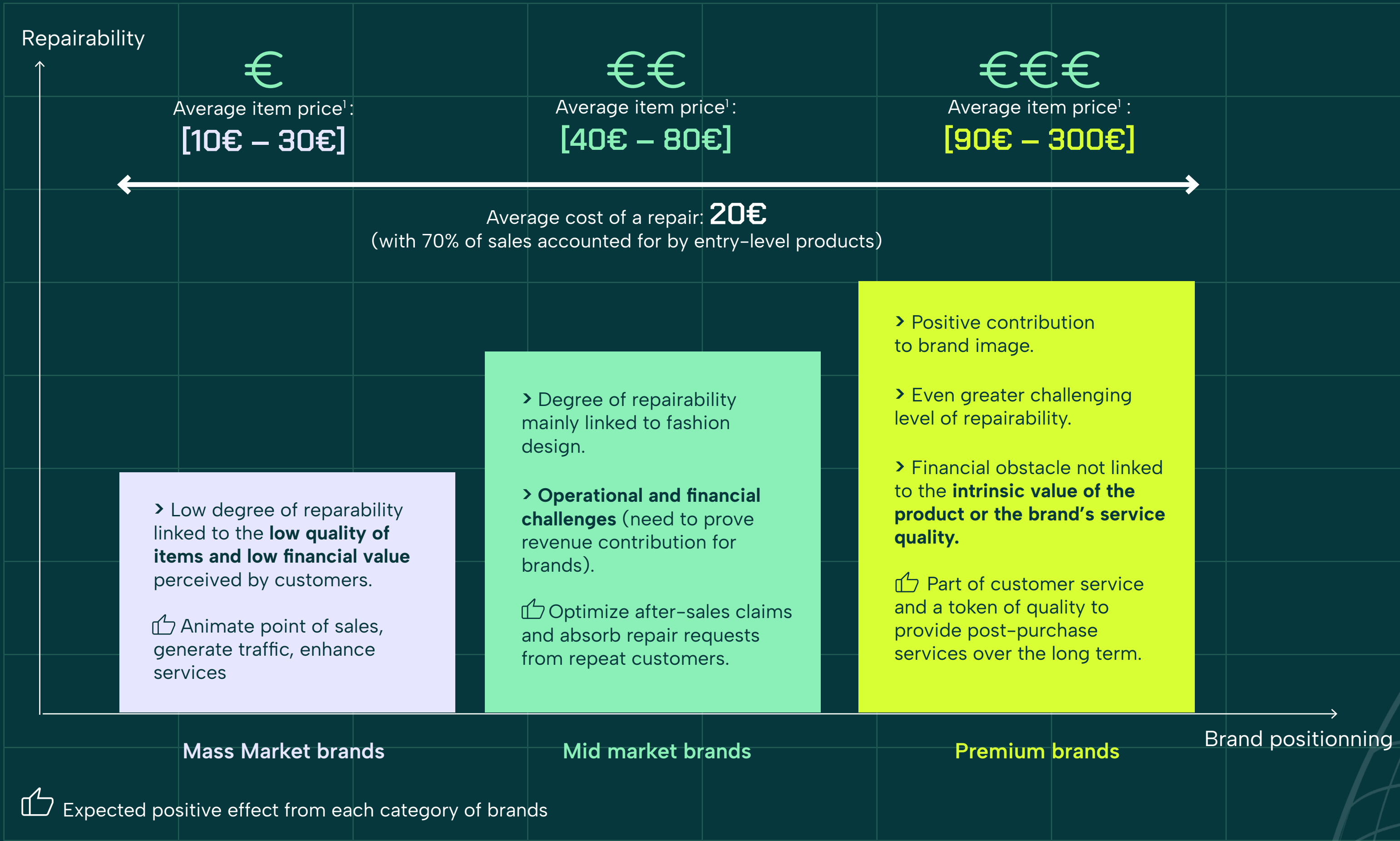
The main obstacle to setting up our repair service has not been necessarily the cost. It's the workforce: it has become very difficult to recruit shoemakers from the other side of the world. Whether in France or anywhere else in the world, the business is in decline, also because shoemakers haven't necessarily kept up with market trends and the growing importance of sneakers.

Daniel Schmitt, Head of repair operations at Veja

1st hand manufacturers face financial and operational challenges for integrating repair depending on their positioning

The repair market mainly depends on a key criterion: the gap between the purchase price and the repair price. The level of integration of repair depends on the brands’ positioning, among which some might therefore face a bigger operational challenge in integrating Repair-as-a-service:

The luxury sector nevertheless contrasts with this comparison of repair costs with purchase costs, for reasons of product desirability and attachment to intrinsic qualities of materials and high level of design.




«Today, customers no longer part with their clothes because they are worn out, but because they are emotionally detached from them. This is what we call marketing obsolescence, or even programmed obsolescence. At Kering, an important lever for moving from a linear economy to a circular economy is to increase the extrinsic or emotional durability of products. In particular, this involves making our Houses more desirable, in order to strengthen attachment to our creations.»

Sophie Bonnier, Head of Sustainability and Circular Economy at Kering

Note: 1) Price range observed within a collection of items depending on the brand's positioning
Sources: Kantar study; Interviews FMC x KPMG; KPMG Analysis

Focus on “Repair” initiatives: Case Studies of first hand players illustrating the development of repair as a service

Examples of a success story for “Repair” initiatives



Veja’s sneakers repair service

Key findings


- Many sneakers were returned or discarded, even though they were **largely repairable**.
- Repairing them could have a **significant environmental impact**, while also offering business benefits.
- The repair of sneakers had **not yet been fully mastered** by cobblers.


Actions

- Launched in 2020, the **“Clean, Repair, Collect” project**, focuses on collecting worn-out shoes from consumers, repairing them, and reintegrating them into the traditional sales cycle for products with minor defects or reselling them through dedicated second-hand channels.
- Creation of a **repair school to open in September 2025**.

Measurable impacts

- Number of shoes repaired since 2020: **+23,000**.
- **8 Veja shoe repair centers** are active today, mainly in Europe, including one in the United States.
- In 2025, **3 new shoe repair centers planned**: one in the United States, one in South America and one in France.





Les Racccommodeurs’s Repair-as-a-Service platform for brands

Repair as an after-sales service

- Objective : Offer **repair as an after-sales** service, **benefit from the repair bonus** and offer **omnichannel repair services**.
- Configure a repair platform with **logistics planning** tailored to dispatch the right products to the appropriate craftsmen based on product type and required expertise.

Repair as a centralized platform

- Objective : **Ensure the garment is repaired by their network of craftsmen** and centralize repair regardless of sales channel¹.
- **Integrate requests from all channels** into a centralized ticketing platform, automating exchanges between end-customers, resellers and craftsmen to enhance team efficiency and reduce existing after-sales service costs.

Repair for multi-brand retailers

- Objective : **Enrich retail spaces with circular services** (i.e. through in-store repair services to their customers for instance).
- Les Racccommodeurs **provides the tools needed to offer in-store, multi-brand repair services** (e.g. diagnosis tool, interface, etc.).

Notes: (1) Meaning whether sold in stores, online or through external resellers. // Sources: Company websites; Interviews FMC x KPMG; KPMG Analysis

Repair opportunities primarily lie in the operational integration of repair services and the enhancement of product reparability

A two-fold strategy for brands...

Develop a fully integrated repair service

- **Integrate repair within a broader ecosystem of after-sale care services** contributing to the extension of product lifetimes (e.g. alterations, repair, customization, upcycling).
- **Provide an omnichannel repair solution**, not only limited to boutiques, but also accessible via the online site and even via resellers.
- **Set up a dedicated team** to engage sales, operations and finance teams in priority.
- **Provide in-store sales staff** with the right **narrative and arguments** around circularity and clothing alteration to offer a complete, high-quality service.
- **Establish a partnership** when internalizing the solution is not feasible.

Contribute to increasing the reparability of its garments

- **Integrate reparability requirements into product specifications** right at the design stage.
- **Limit the use of components** (e.g. buttons, zippers) **that are too diverse or rare**, favoring easily replaceable components and working with suppliers to ensure a continuous supply of these components.
- **Provide support for home-repairs to customers**, encouraging repair rather than discard. For instance, offer repair kits with purchases, including matching threads, spare buttons, and patches, educational resources online (e.g. tutorials and guides).

... providing a wide range of positive outcomes

- **Increases data collection on product quality and reparability**, key for production and quality control teams to reduce the proportion of defective products in stock.
- Provides immediate **economic savings** when logistical challenges are overcome: **"1,000 hours of management time saved** per year, as well as savings in after-sales costs and a **50% reduction in the time taken to process requests"** for a use case mentioned by Les Racccommodeurs.
- Generates ecological benefits: "On average, for a garment that is repaired and not replaced, **repairing saves 30% in CO2 emissions and extends the product's lifespan by around 70%**" as mentioned by Les Racccommodeurs.
- **Improves customer commitment and loyalty**, by capitalizing on repair as a guarantee of quality and the brand's commitment to the circularity of its products.

«Today, brands are faced with the challenge of reducing costs to maintain positive margins, operational efficiency and to build customer loyalty. The topic of after-sales and care and repair is a way of generating new revenue, reducing costs while optimizing flows, and continue building customer loyalty.»

Tanguy Frecon, CEO and co-founder of Prolong


Integrating repair services at the very start of the customer’s purchasing experience can also be leveraged for growth

Garment repair appears to be an increasingly crucial element which positively contributes to the customer experience. When addressed directly by brands, repair can demonstrate a strong commitment to sustainability, offering cost-saving benefits to customer, while enhancing brand positioning. In this context, a question that arises is:

- Why shouldn't repair be addressed right from the start of the customer experience?
- How can repair be approached so that it is no longer confined to after-sale care?

«56% of customers who have experienced a failed post-purchase experience, particularly when it comes to repairs, will revert to competition.»

Tanguy Frecon, CEO of Prolong




Repair as a customer reactivation tool

Today, **repair can serve as a powerful CRM and communication tool**, playing a key role in customers **reactivation when strategically leveraged**.

Key moments such as the end of the ski season, the holiday season, or back-to-school transitions **present opportunities to re-engage customers by offering repair or refurbishment services** for ski apparel, evening wear, or sports and hiking gear, reinforcing brand loyalty while maintaining customer relationships.

«Repair is seen as a strategic lever by brands, [...] Today, maintaining the link with the customer after the purchase is the black gold of retail.»


Pauline Jaillant, Co-founder of Les Racommodeurs



Repair as a pre-sale lifetime extension

Taking this further, **brands can reposition repair as an upselling strategy to extend a product’s lifespan**.

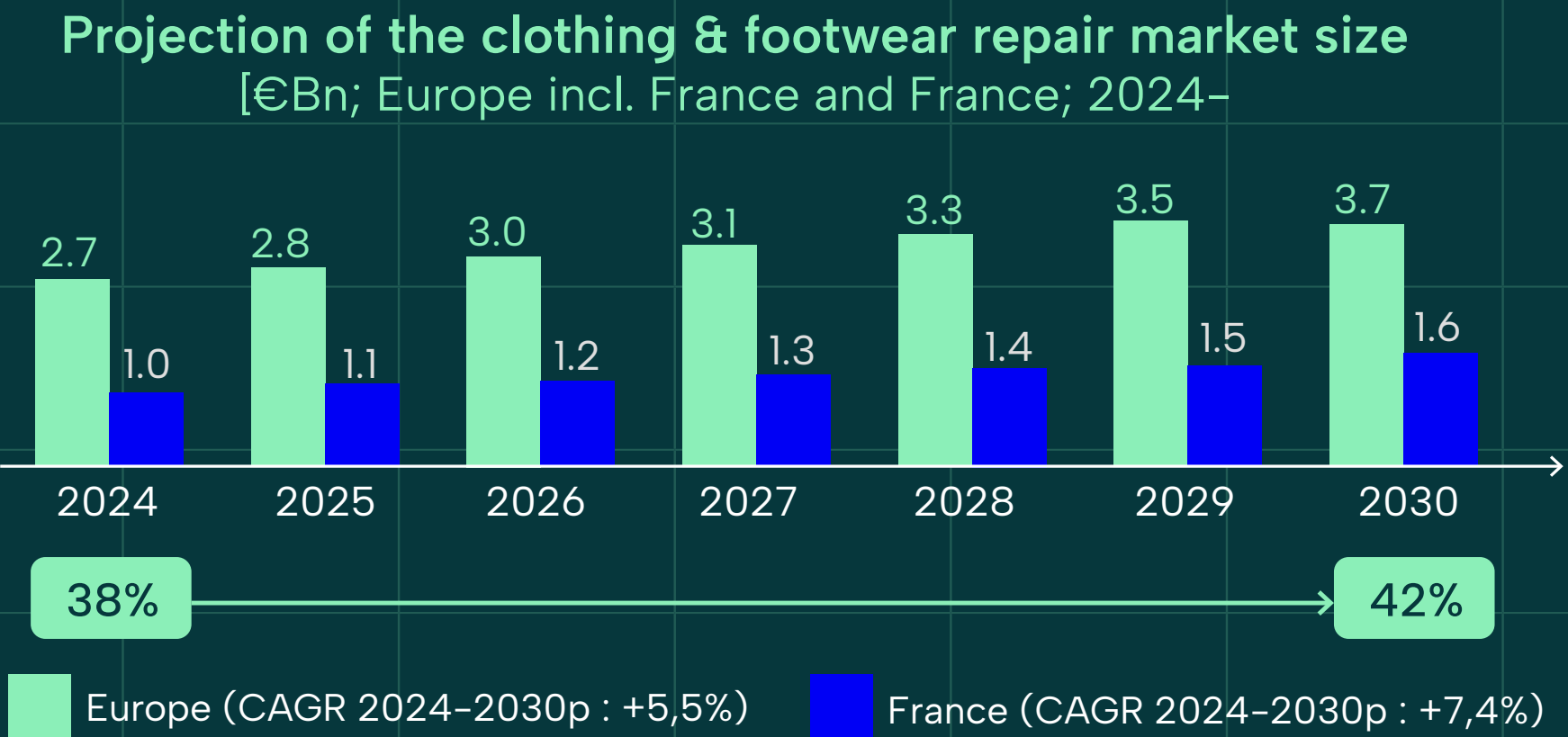
Similarly to what can be observed in the cell phone and household appliance industries, fashion brands could introduce **subscription-based repair programs or lifetime warranties**, integrating repair into the purchasing experience from the outset. This approach not only strengthens consumer trust but also enhances product longevity and circularity.



Subscription of €9.99 per month, covering:

- > **Advice** on use and maintenance, home **assistance** for all major household appliances.
- > **100% repair coverage** (parts and labor) for a minimum of 7 years and for as long as spare parts are available.
- > **Gift card refund** if the product cannot be repaired.

The European clothing & footwear repair market is expected to reach €3.7Bn and generate over 12,800 jobs in Europe by 2030

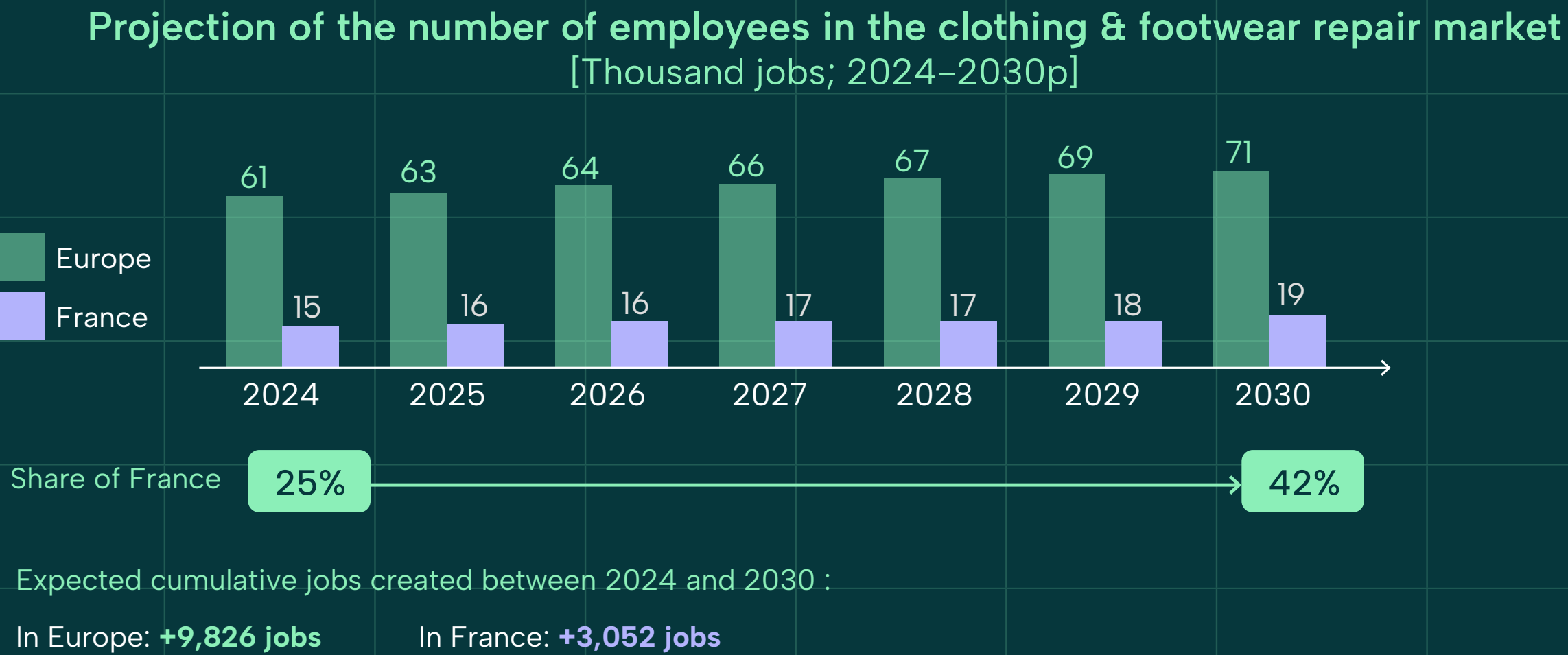


This sizing has been carried out with the following assumptions:

- European repair market estimated at €21.5Bn in 2020 and expected **CAGR of 5.5%** to 2030.
- The share of apparel repair market over total repair market of **10% observed in France in 2023 has also been applied to the European repair market to determine the size of apparel repair.**
- French repair market estimated at €960Mn in 2023 and expected **CAGR of 7.4%** to 2030, notably linked to the recent introduction of the repair bonus in France.

Limits of the assumptions:

- The base year of 2020 used for Europe is a particular year due to COVID effect, leading to a potential underestimation of the market.
- With our estimations, the French market would account for **42%** of the projected EU market. While the French repair sector benefits from consistent monitoring by ADEME, ensuring reliable data, there is a lack of comprehensive information on the European repair market and other national markets. As a result, we believe the European repair market is underestimated, as many repair activities in small local shops go **unreported**.

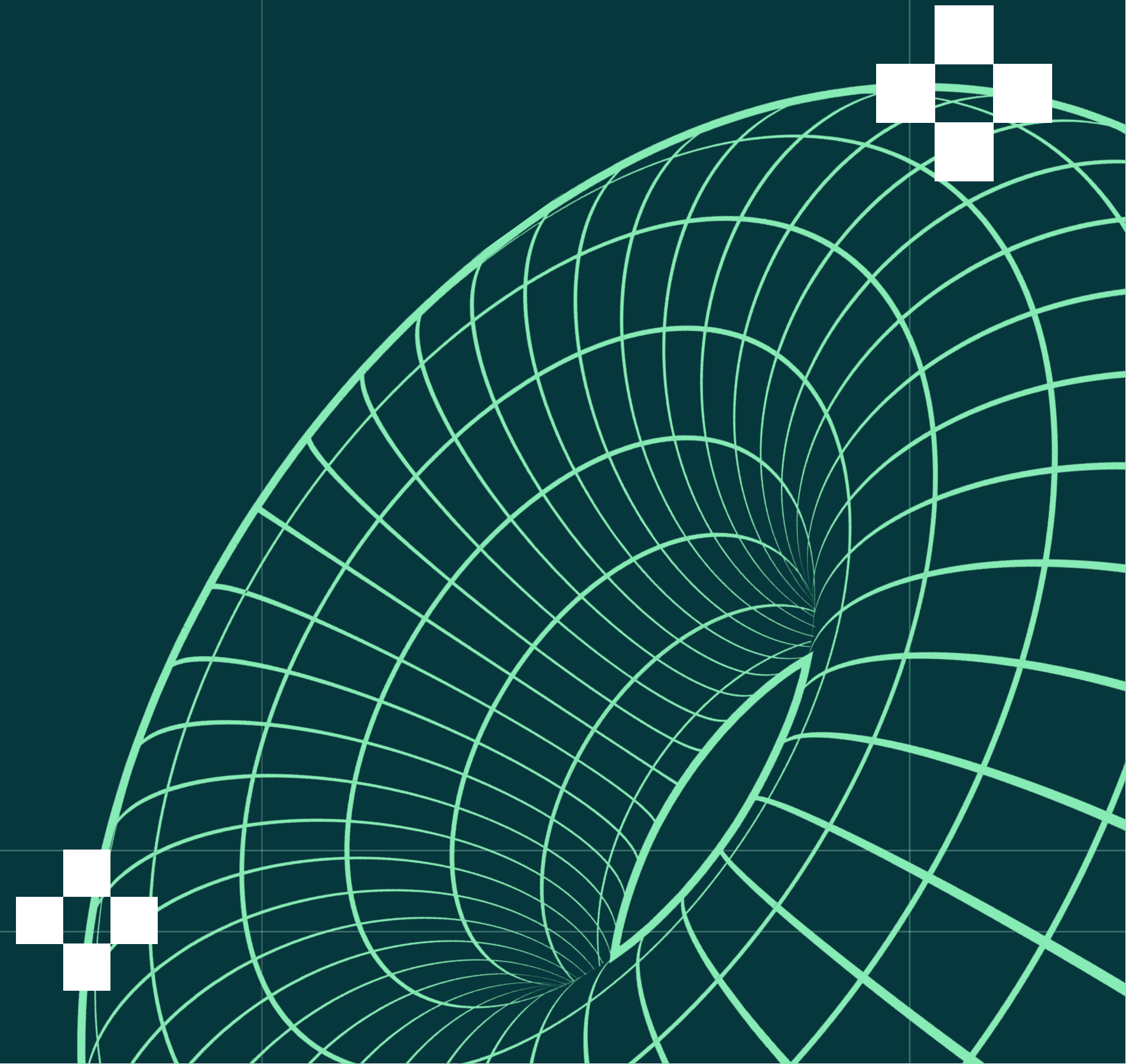


This sizing has been carried out with the following assumptions:

- European repair footwear & leather goods workforce estimated at 23,805 in 2023 with an expected **CAGR of 2.52%** to 2030 applied to overall repair jobs in Europe.
- Total jobs in France for clothing and footwear repair services estimated at **15,000**.
- Repair is divided into clothing repair accounting for 60% and footwear and leather goods repair at 40%.
- We assume that the CAGR of jobs is proportional to the sales growth in Europe and France. Therefore, with a CAGR of **2.52%** in Europe and a market growing at 5.5%, we estimate a CAGR of **3.4%** in France, where the market is evolving at 7.4%.
- The discrepancy between projected market size and jobs created can be explained by a growth absorbed by existing craftsmen (e.g. brands starting to offer repair services but relying on an existing network of craftsmen).

PILLAR 4 Recycle

Breathe new life
into the garment



Textile recycling can be defined as the process of converting used or discarded textiles into new materials or products



Mechanical recycling

Description of the process
Involves breaking down garments by chopping them into shredded fragments, pulling apart the fibers and then disentangling and aligning them using a carding process.

Type of fabric
High purity, long staple fibers such as wool, cashmere, cotton (no mix).

Fiber use
Yarn, materials for isolation, automotive, towels

Chemical recycling

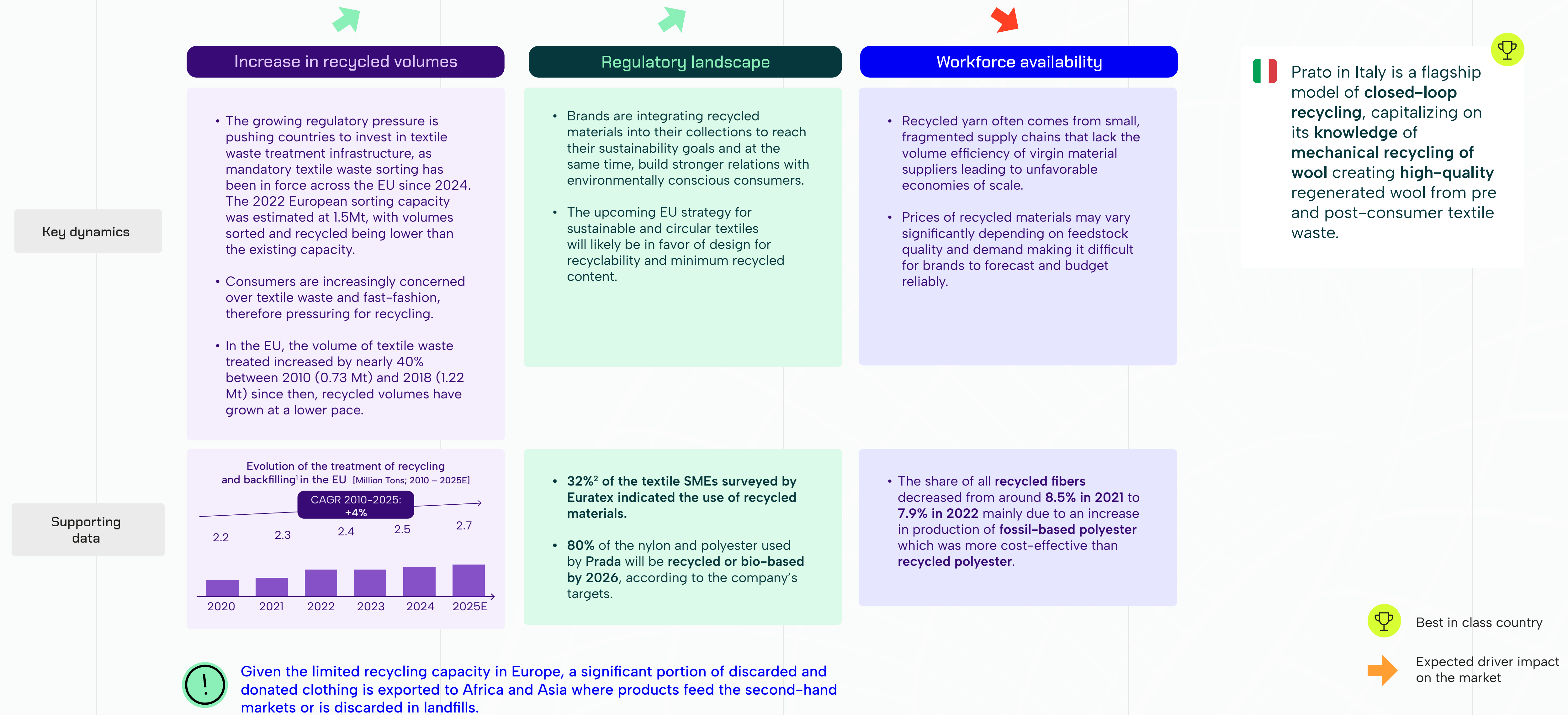
Description of the process
Involves breaking down textile waste to a molecular level using chemical processes. Once separated, the molecules, known as monomers, can be reassembled to form new textile fibres or other products.

Type of fabric
All types of fibers: natural, synthetic, artificial.

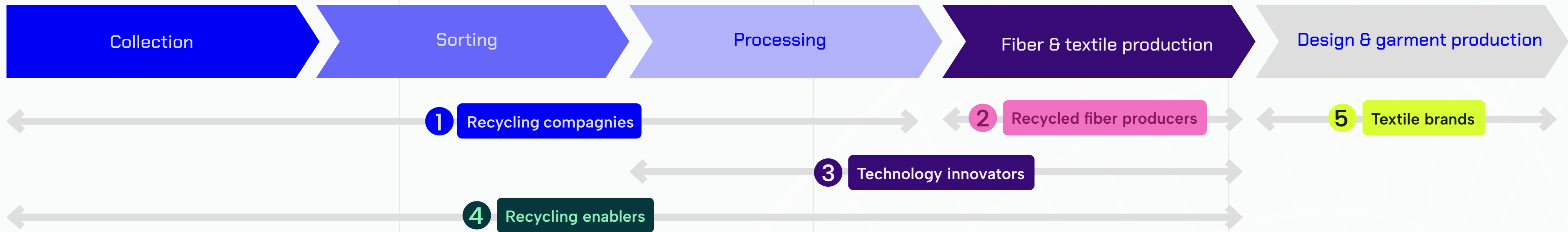
Fiber use
Mainly for new textile fibers.

! Mechanical recycling is a well-established and widely used method for textile recycling. In contrast, it shortens the fibers and makes them more fragile. In contrast, chemical recycling offers greater versatility and the potential to produce higher-quality fibers. However, it remains in the development phase, with technologies yet to be scaled up and currently limited to specific fiber types.

The gradual increase in recycled textile volumes supports a cautious but positive outlook on recycling's role in the circular fashion economy



Various players are involved in textile-to-textile recycling, including facilitators who help overcome technical and operational barriers



- 1** Companies specializing in **collecting, sorting, and processing textile waste into reusable fibers and materials**:
- > **Collection**: companies that gather used clothing and textiles from various sources, including collection points and donations.
 - > **Sorting**: facilities that manually sort garments based on their condition and material type, separating them into various categories.
 - > **Processing**: companies that use mechanical or chemical processes to transform sorted garments into new materials, such as fibers for new yarn or other products.
- 4** **Solution providers** for the facilitation and management of textile waste and textile-to-textile recycling.



- 2** Companies that focus on **producing recycled fibers from textile waste**.
- 3** Companies that develop **advanced recycling technologies to improve the efficiency and effectiveness of textile recycling** (e.g. enzymatic recycling solutions that break down polyester textiles into monomers for re-polymerization) or **software platforms** to help brands manage and optimize their recycling processes.

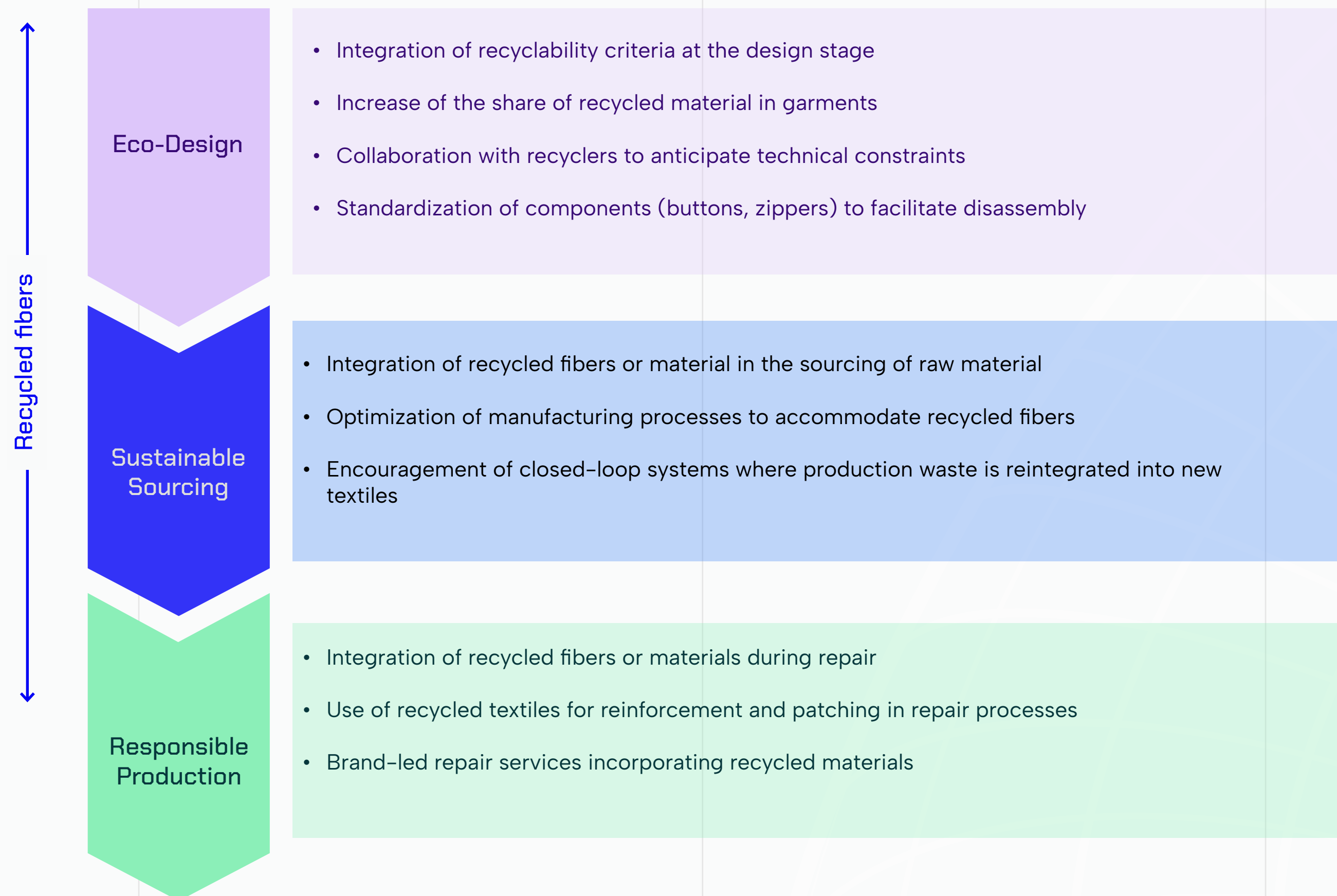


- 5** Brands or companies promoting circular fashion by **integrating recycled materials into their products and encouraging sustainable practices**.



Eco-design is the cornerstone to overcoming technical recycling challenges, linking the value chain's up and downstream stages

Integrating recycled material at the different stages of the value chain is possible but involves the challenge of aligning stakeholders' interest



Ecodesign for recycling is a solution to align interest and close the loop

- The success of eco-design relies on a **continuous exchange of data** between **designers** and **recyclers**: recyclers provide insights on fiber recyclability to guide **material choices**, while designers share **constraints**, and **performance needs** to ensure sustainable materials meet functional and aesthetic requirements.
- Currently, fashion design overlooks **end-of-life considerations**, complicating recycling. Brands must adopt «**design for recycling**» strategies, prioritizing **recyclable fibers** over blended or non-recyclable materials.
- A **closed-loop approach**, where recyclers provide data on fiber recyclability and designers share feedback on material performance, will **optimize material selection and garment construction for improved circularity**.

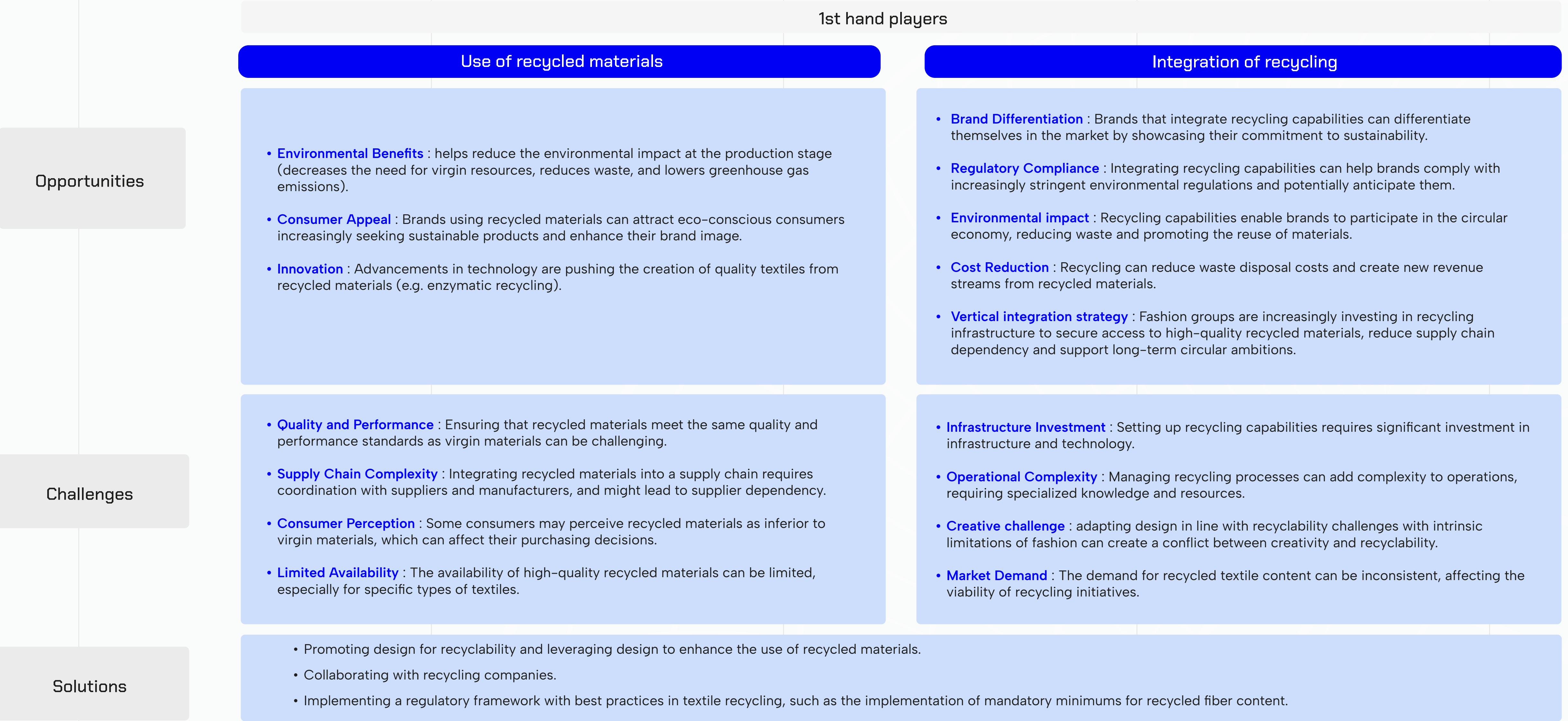
«It is essential to plan both the beginning and the end of a product from the design phase, taking into account costs and operational flows. The product's entire life cycle must be considered as a whole.»

Laia Moya Martinez, Head of Clearance Offline – Second Choice – Stock Quality at Veepee

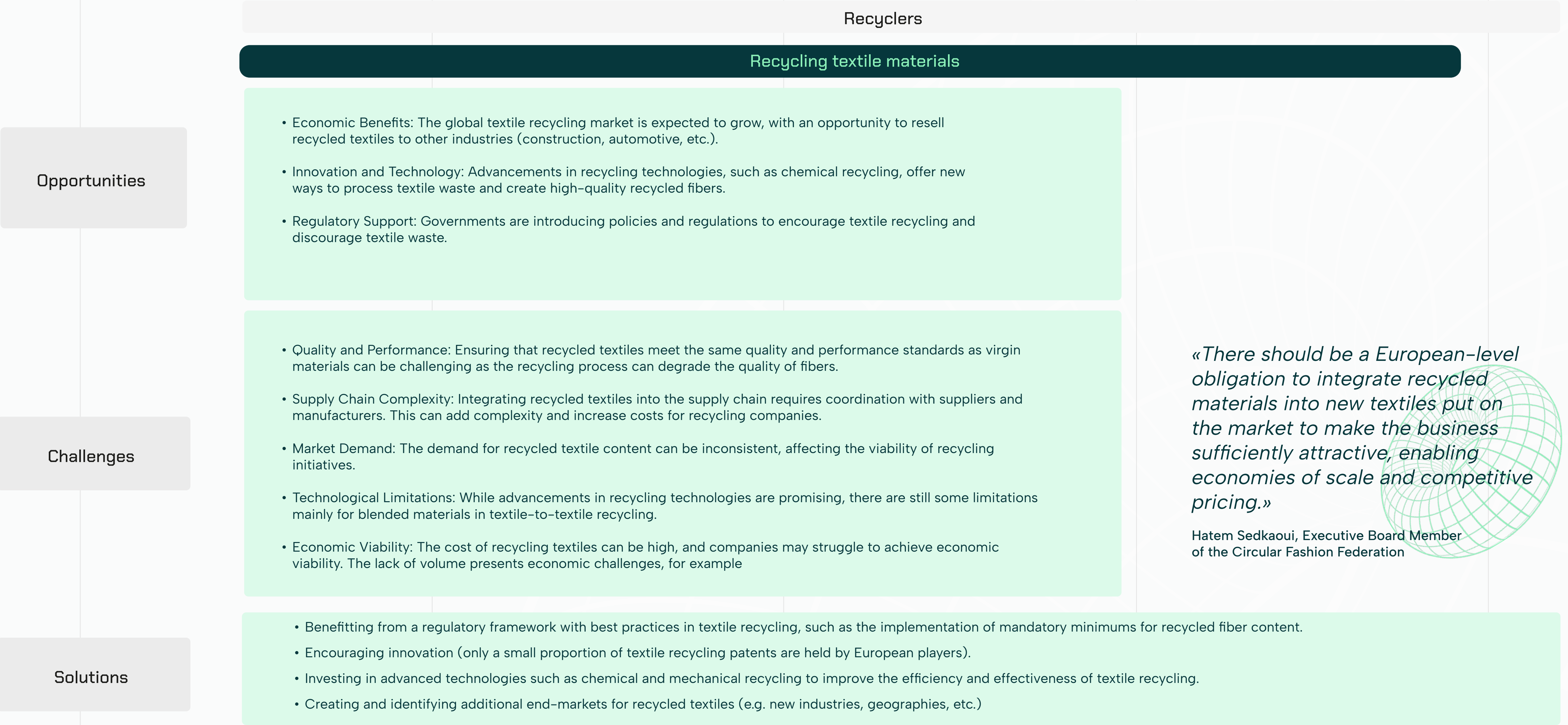
«I think the discussion on circularity needs to start at the design stage. This discussion is essential for a circular textile chain because the companies that are dealing with the textiles when they become end of life need to be in contact with the manufacturing industry starting with designers to understand recyclability requirements of items for instance but also the potential and desired recycled content.»

Mariska Boer, President of EuRIC Textiles (Textiles Branch of the European Recycling Industries Confederation EuRIC)


However, a closed-loop textile recycling system can present challenges and obstacles for brands involved in recycling...



...as well as for recycling companies active in the textile recycling industry



Beyond textile-to-textile use, recycling can also serve other industries, presenting major opportunities for recyclers



Decathlon has integrated recycled cotton in its manufacturing in a textile-to-textile approach

➤ For a few years now, Decathlon has improved its cotton sourcing. The brand sources cotton from **biological agriculture, cotton certified Better Cotton Initiative and recycled cotton.**

Sources of recycled cotton

Production off-cuts

Integration of Decathlon's own production off-cuts to create recycled yarns

Post consumer

Integration of recycled fibres from end-of-life cotton waste

Advantages

➤ Reduction of the use of virgin resources and raw materials.

➤ Optimization of flows of materials.

➤ Optimisation of waste management and reduction of production waste.



Drawbacks

➤ **Potential change in aspects:** Visual aspect and physical touch can sometimes be different from conventional cotton.

➤ **Continuance dependence on Virgin Cotton:** proportion of recycled cotton in textiles capped at 30%.

14%

Reduction of CO2 emissions linked to the production of yarn by using recycled cotton instead of virgin cotton.



Le Relais¹ provides recycled cotton to the construction sector in an «textile-to-other industries» approach

➤ In 2007, Le Relais launched MetisseR, a range of **thermal and acoustic insulation products for the building industry. Textiles that cannot be re-used** are defibred, and processed to make high-quality, high-performance **insulation wools.**

➤ MetisseR insulation product is composed of 85% recycled jeans and 15% polyester.

Business Opportunities of this Open-Loop Approach

➤ **Reduced environmental impact**
The lifecycle of textile waste can be extended. The insulation of a building lasts between **20 to 30 years.**

➤ **Performance stability**
The quality of recycled textiles does not affect their thermal and acoustic efficiency. Non-reusable, and low-quality fibers that cannot be reintegrated into a textile-to-textile process are the perfect fit for this process.

➤ **Strong Market Demand**
The construction industry has a high demand for insulation materials linked to **regulatory support and available incentives.** In Europe, existing energy standards, such as the Energy Performance of Building Directive, depend on the quality and availability of insulation products. French regulations promote building renovation and insulation, with public subsidies available (e.g. MaPrimeRenov').

Prerequisite for the profitability of the business model

➤ **The key success factor of volumes**
A prerequisite to the profitability of this business model is **volumes** because the margin is lower than a textile-to textile approach.

Le Relay Métisse estimated recycled cotton fiber price

6,40€/kg

Recycled cotton fiber price for textile

21€/kg

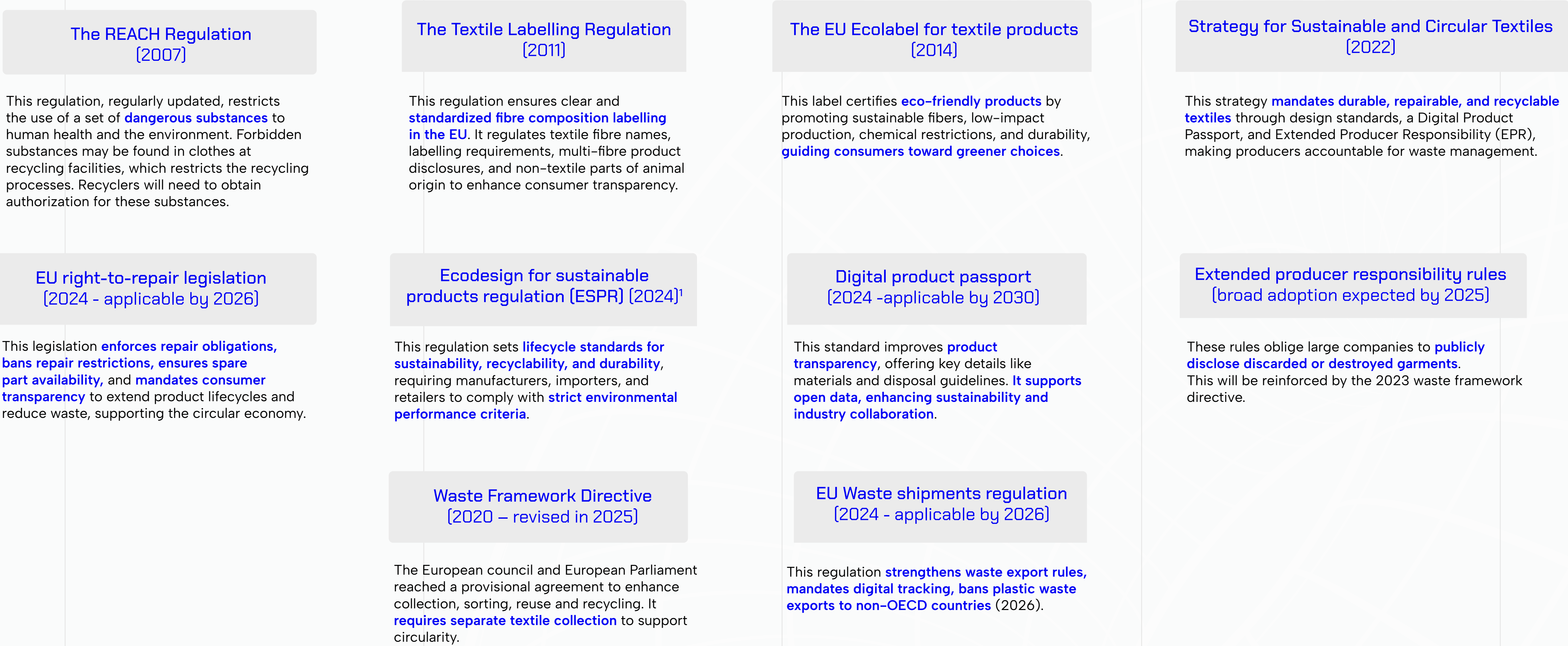
x 3,29

➤ **Beyond the building sector**
Other industries serve as outputs for recycled textiles (e.g. automotive, furniture, etc).

Notes: (1) Le Relais: Le Relais is a cooperative and participative company grouping companies with socio-economic aims dedicated to collecting, reusing and recycling textiles. It is part of the social economy branch of the Emmaus movement. In France, it is the leader in textile collection. // Sources: H2R Equipments; Le Relais; Green Tailor; Decathlon; FMC x KPMG interviews; KPMG Analysis

Despite not currently reaching its full potential, the European recycling sector is pushed by several regulatory incentives...

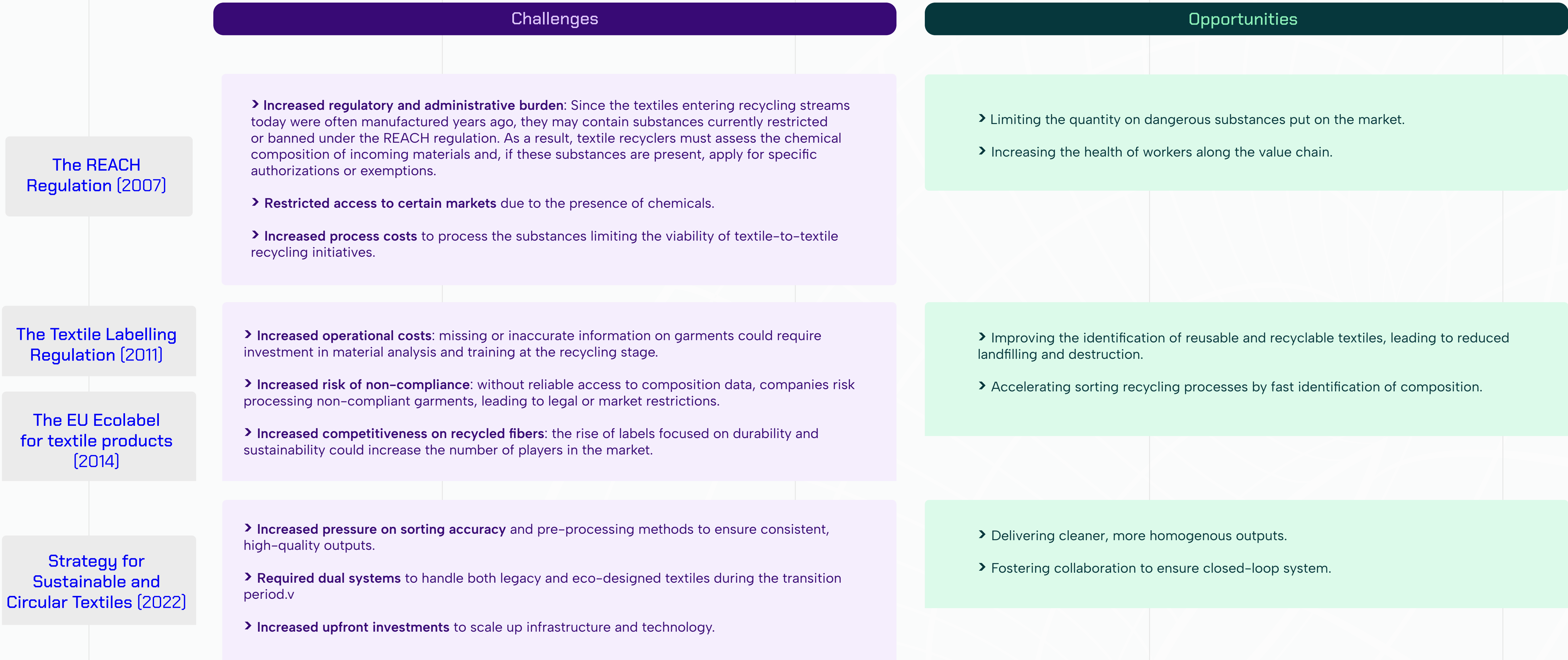
Overview of the expected evolution of the European regulatory framework around textile recycling



Notes: (1) Including Digital Product Passport implementation // Sources: European commission, European union data, Euric; KPMG Analysis

... presenting both challenges and opportunities for the textile recycling industry ^(1/3)

Snapshot of potential challenges and opportunities tied to forthcoming EU regulatory initiatives



Notes: (1) Including Digital Product Passport implementation // Sources: European commission, European union data, Euric; KPMG Analysis

... presenting both challenges and opportunities for the textile recycling industry ^[2/3]

Snapshot of potential challenges and opportunities tied to forthcoming EU regulatory initiatives

Challenges

Opportunities

EU right-to-repair legislation
[2024 - applicable by 2026]

- **Diversified business** models by transitioning from traditional recycling to reuse, refurbishment, or resale services, as longer product lifespans may reduce material volumes.
- **Complexified operations** as repaired items may be more difficult to sort or recycle due to mixed conditions or alterations.

- **Integrating recycled fibers** into repaired items leading to new revenue stream.
- **Unlocking funding** by participating in repair system and closed-loop models.

Ecodesign for sustainable products regulation (ESPR)
[2024]¹

- **Required dual systems** to handle both legacy and eco-designed textiles during the transition period.

- **Increasing partnerships** between designers and recyclers to simplify garment processing.
- **Increasing available data** to improve textile end-of-life.
- **Promoting** eco-design for recyclability and reducing operational costs.

Digital product passport [2024 -applicable by 2030]

- **Upgraded technology:** industrial will have to adapt and integrate DPPs into their processes which require new technologies, specific training.

- Simplifying sorting, repair and recycling processes.
- Securing the upstream supply chain by ensuring **end-to-end traceability**.

Extended producer responsibility rules [broad adoption expected by 2025]

- **Increased administrative and reporting burden** to track and report the data on processed and destroyed textiles to the producers.
- **Heightened pressure from stakeholders and producers** to reduce the percentage of garments discarded and boost recycling efforts.

- Increasing **financial support** to recyclers.
- Strengthening partnerships between producers and recyclers.
- Improving material quality and supply as producers are required to design products with recyclability in mind.

Notes: (1) Including Digital Product Passport implementation // Sources: European commission, European union data, Euric; KPMG Analysis

... presenting both challenges and opportunities for the textile recycling industry [3/3]

Snapshot of potential challenges and opportunities tied to forthcoming EU regulatory initiatives

Challenges

Opportunities

Waste Framework Directive [2020 – revised in 2025]

- **Increased pressure** from stakeholders and municipalities on recyclers to meet the targets.
- **Required upfront investments** to scale up .
- **Increased compliance and reporting** to track material flows and recycling rates, adding to administrative workloads.

EU Waste shipments regulation (2024 - applicable by 2026)

- **Increased compliance and operational costs** due to stringent requirements for exporting textile waste, including certification and transport arrangements for non-EU shipments, could deter recyclers from recycling textiles.
- **Raised administrative burden**, leading to more complex and time-consuming processes.
- **Hindered the global recycling market as increased export controls** to non-OECD countries, where recycling infrastructures are being developed to process EU textile waste, could reduce income in those countries and block access to markets with high demand for recycled materials.
- **Disrupted established recycling networks** between countries, potentially resulting in higher costs and delays.

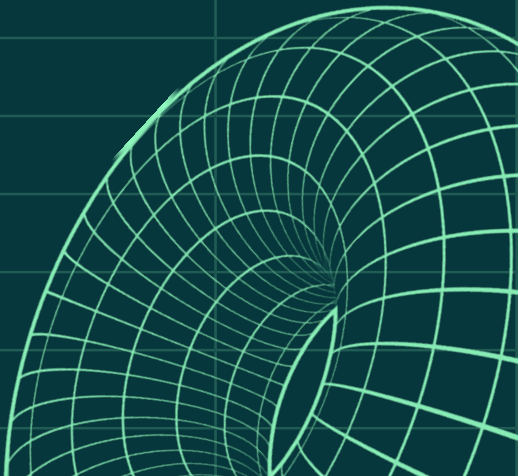
- Providing recyclers with **financial incentives and growing attention**.
- Creating a **larger market for recycling textile**.
- Simplifying sorting by separating textile from typical waste .
- Boosting recycled volumes by restraining landfilling

- **Expanding the textile recycling** market within the European Union.
- **Legitimizing export channels** by establishing long-term partnerships with buyers seeking high-quality recycled textile.
- **Boosting innovation** and collaboration between member states.
- Increasing traceability.

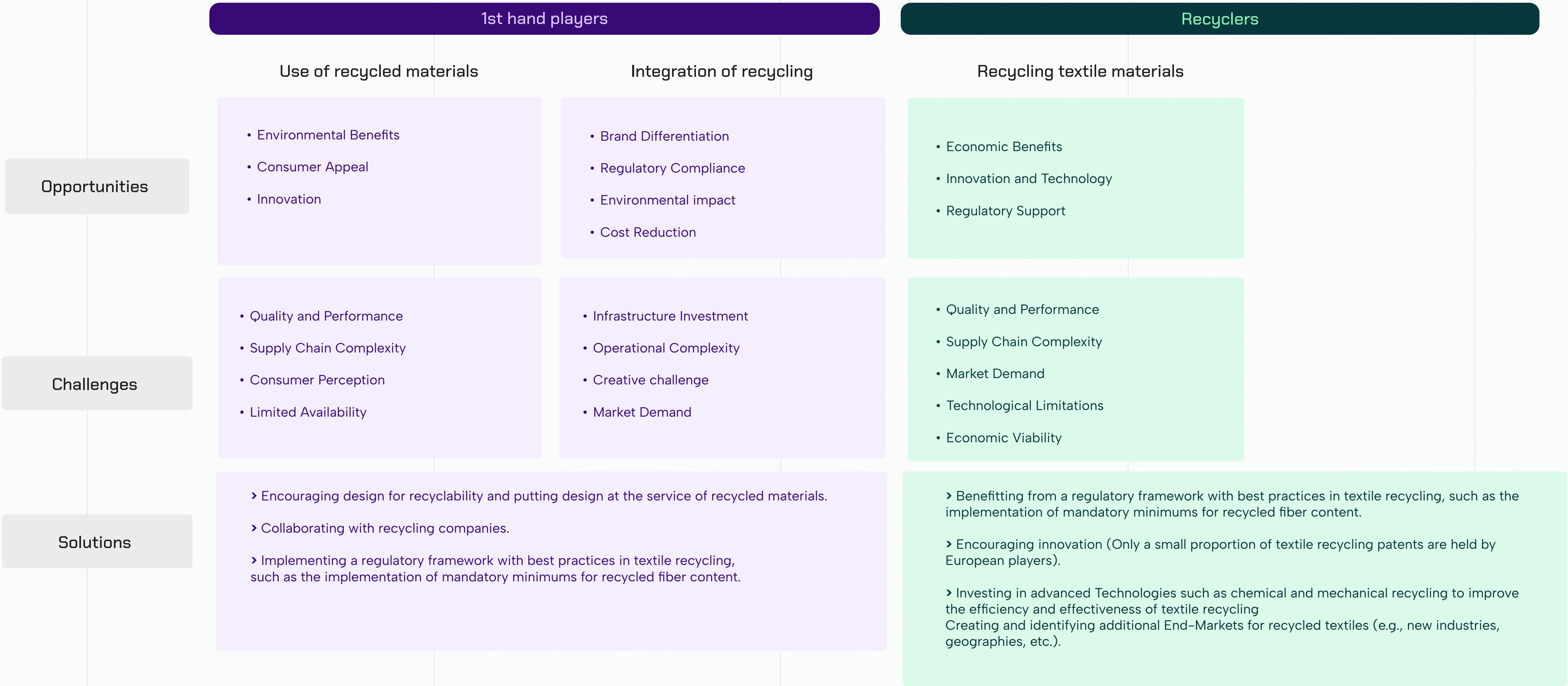
Sources: European commission, European union data, Euric, EFTA Surveillance Authority, KPMG Analysis

«Without textiles, there is no fashion. But textile manufacturing is highly polluting and there is an urgent need to make it sustainable. The industry and EU policymakers must work together on harmonizing different national rules to turn Europe’s catwalks green.»

Pernille Weiss, MEP from Denmark



Textile-to-textile recycling can present challenges for brands involved in recycling as well as for recycling companies



The future of textile recycling thus relies on a set of prerequisites allowing the industry to structure and scale up



«We will not be able to move forward in a structured and coherent manner on these textile circularity issues without having removed the technological barrier of automated sorting for recycling.»

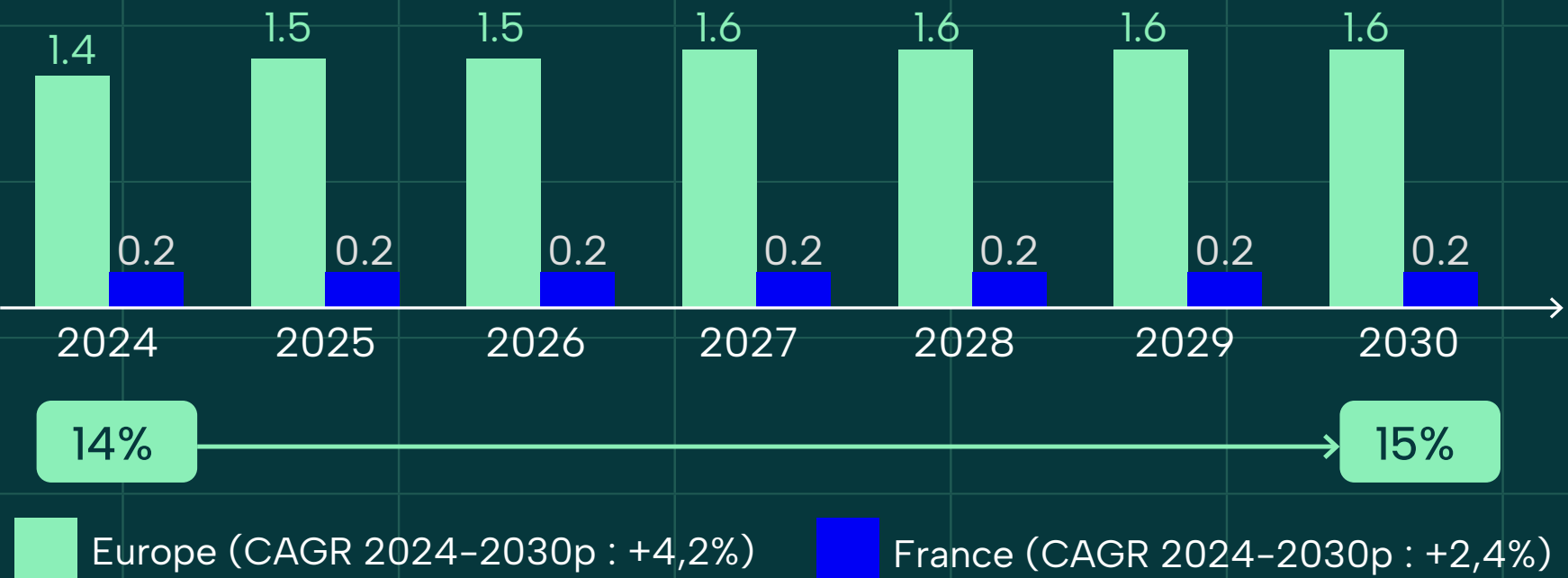
Stephan Arino, Vice-President Public Affairs Western Europe at TOMRA

«If producers/brands have to put recycled content from post-consumer textiles into their new garments, then you are creating a business model for recyclers. That business model is lacking at the moment. Not because technology is well developed, it is just not upscaled. So, it is not as cost efficient as it potentially could be.»

Mariska Boer, President of EuRIC Textiles (Textiles Branch of the European Recycling Industries Confederation EuRIC)

Without strong incentives, the recycling market is expected to show limited growth reaching €1.6Bn and create 3,500+ jobs by 2030

Projection of the textile recycling market size
[€Bn; Europe incl. France and France; 2024-2030p] 2030p]



This sizing has been carried out on the following assumptions:

- European recycling apparel market estimated at **€1.4Bn** in 2024 and expected **CAGR of 2.4%** to 2030.
- French textile recycling market size estimated at **€249Mn** by 2030 with an expected CAGR at **4.2%** from 2024.

Limits of the assumptions:

- > The European study includes the United Kingdom.
- > The French study only considers textile recycling. Shoes are not included.
- > Market growth assumptions remain cautious, reflecting the absence of clear EU targets and the still-limited scale of committed investments in textile recycling infrastructure

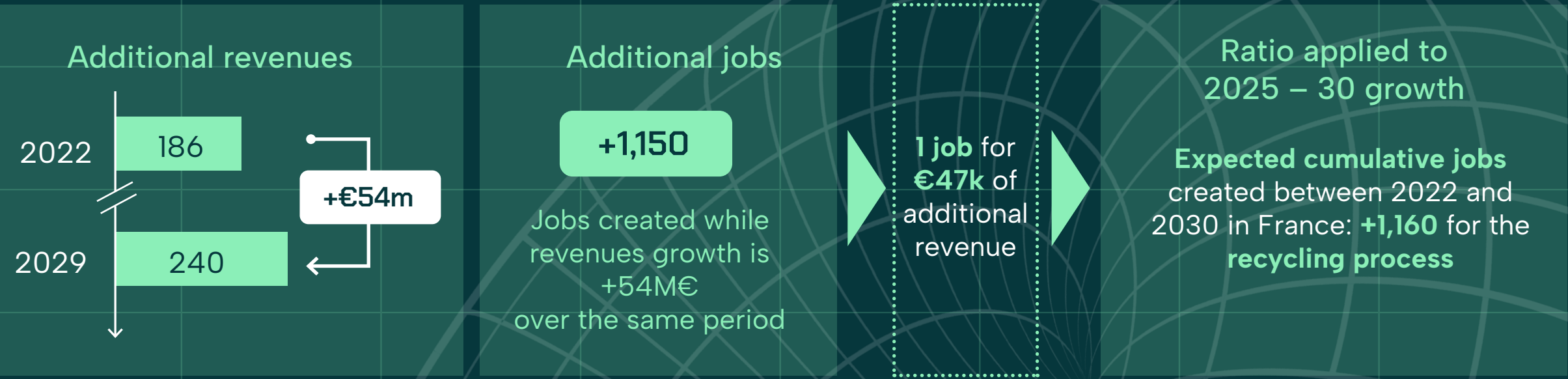
Projection of the of employees generated in the textile recycling market
[France-Europe; 2024-2030p]

Focus on the French textile recycling market

1 Number of jobs sourced from the French Government study on the 2022- 29 period



2 Calculation of the required volume of jobs to realize revenues projections



Estimations for the job creation in Europe:

Expected cumulative jobs created between 2022 and 2030 in Europe: **+3,500** for prepair and recycling processes.

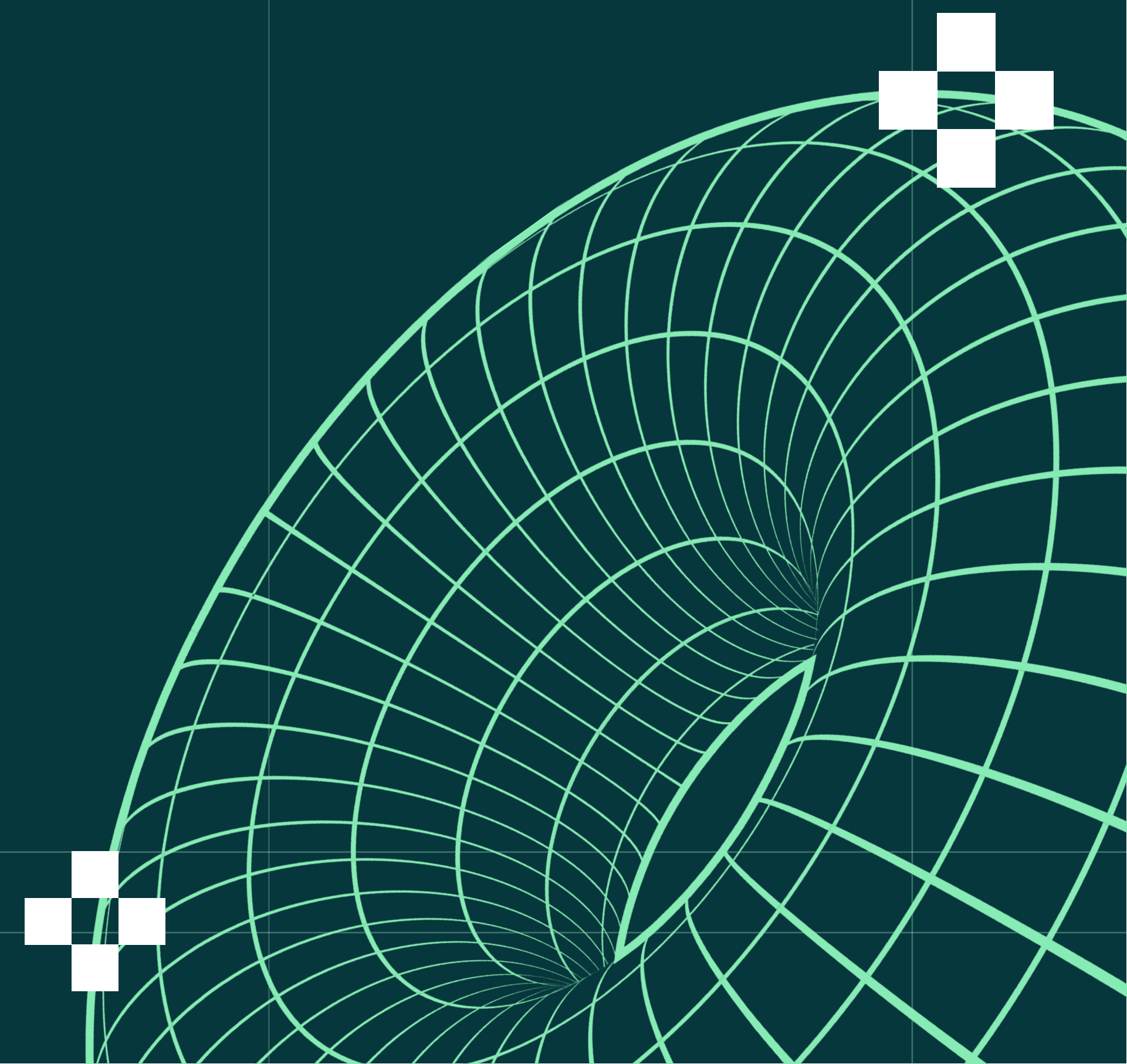
Due to the lack of reliable data, the following assumptions were used for the projection:

- > Average ratio of 1 jobs created for €47k of turnover generated based on French data applied to the yearly evolution of the EU projected revenue.

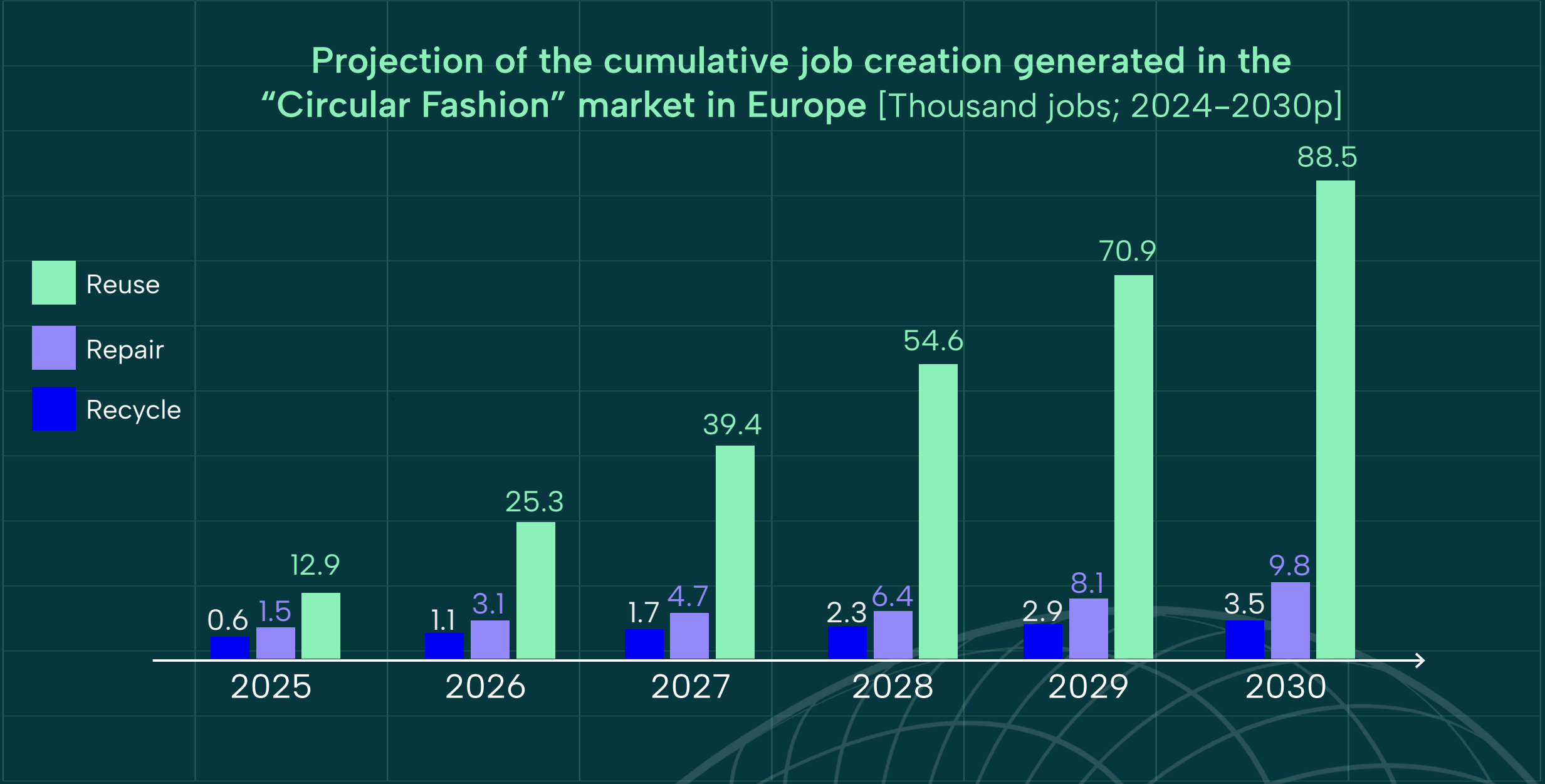
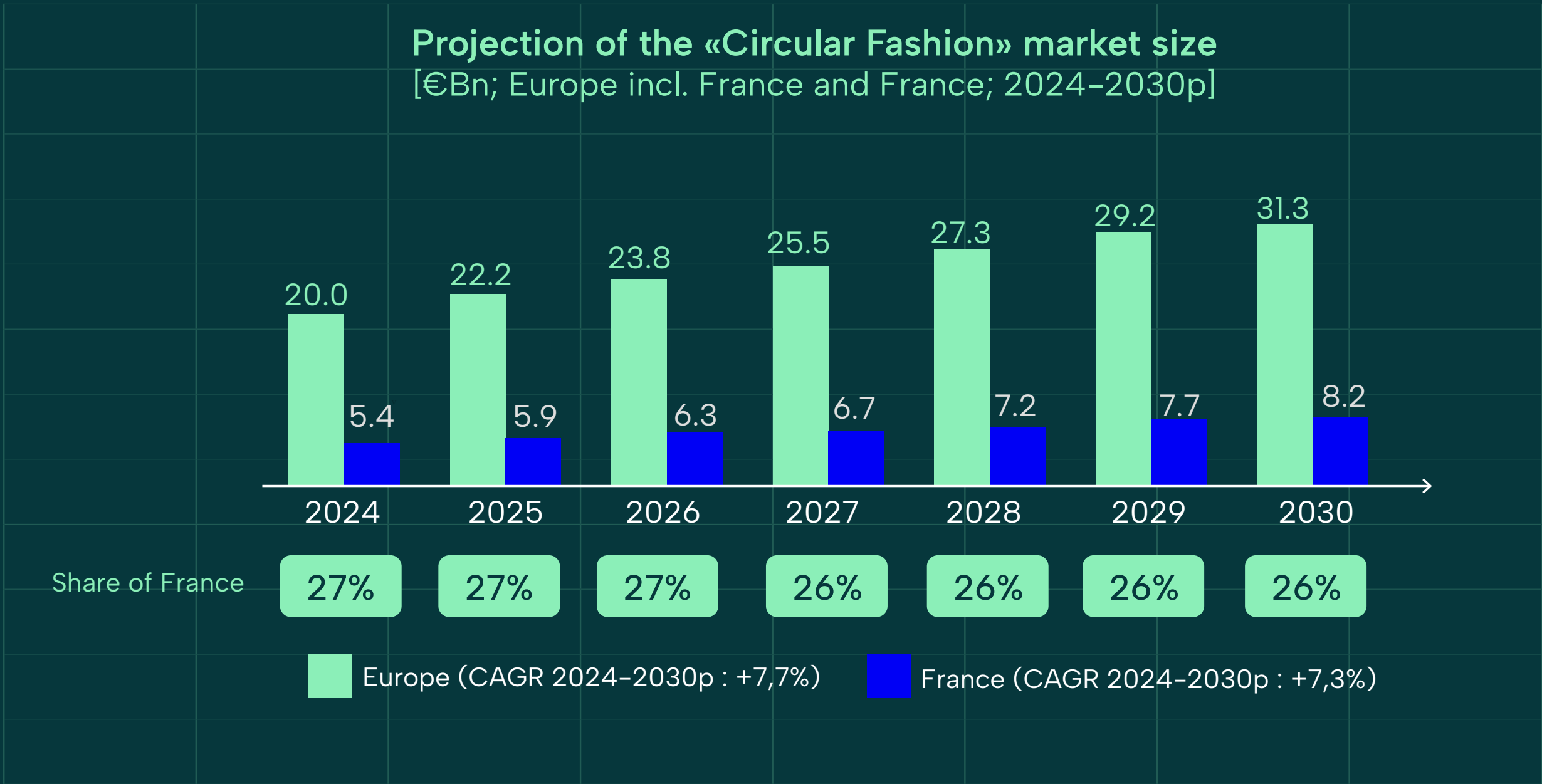
Sources: France 2030 "Perfect'R Impact du recyclage sur les besoins en emplois et compétence des industries textiles" (2023) ; IMARC "Europe Textile Recycling Market Report by Product Type" (2024) ; Horizon Grand-viewResearch "France Textile Recycling Market Size & Outlook, 2024-2030" (2024); Union des Industries Textiles "Rapport d'activité 2020 – 2021" (2021); European Environmental Agency; KPMG Analysis

CONCLUSION

Perspectives



“Circular Fashion” pillars are expected to generate a total of €31Bn by 2030, and create 88,500+ jobs between 2025 and 2030



Limits of the assumptions:

- Reinvent initiatives are excluded from this consolidated view, as they have not been sized due to a lack of data.
- To minimise potential overlap in job creation between the “Reuse” and “Recycle” pillars, particularly in collection and sorting activities, two activities were exclusively assigned to the “Reuse” pillar. Of the 110,000 existing jobs in the European second-hand apparel market in 2023, 31% are in sorting facilities and 9% are in the operation of collection sites.
- This sizing may also exclude indirect revenue generation or job creation for each pillar.

Three key challenges are identified as crucial for the development of the circular fashion industry



Implementing “Design for circularity”

- Players in the garment production cycle are not yet prioritizing the **anticipating of a garment’s extended lifespan, second-life, or end-of-life**.
- The introduction of **eco-design** would move beyond reactive approaches like **repair, reuse, and recycling** by addressing root causes—**creating garments designed for longevity**.
- Since raw material usage accounts for the majority of the industry’s carbon impact, **implementing eco-design initiatives at the production stage is of the most effective levers for change**.



Fostering data circulation and traceability

- The fashion industry has yet to fully leverage the wealth of data that its value chain can generate, data that could significantly enhance all pillars of circularity:
 - **Repair**: provides a deeper understanding of products strengths and weaknesses enabling to rethink manufacturing methods.
 - **Reuse**: provides insights into stock management, evolving demand, and second-hand market trends help assess perceived brand value.
 - **Recycle**: advises on most easily recyclable materials and insights on designing for recyclability.
 - In addition, actions under the **“Reinvent”** pillar can capitalize on these learnings to improve **eco-design, stock optimization** and the **use of recyclable materials**.



Enabling scale to develop a viable and profitable circular business model

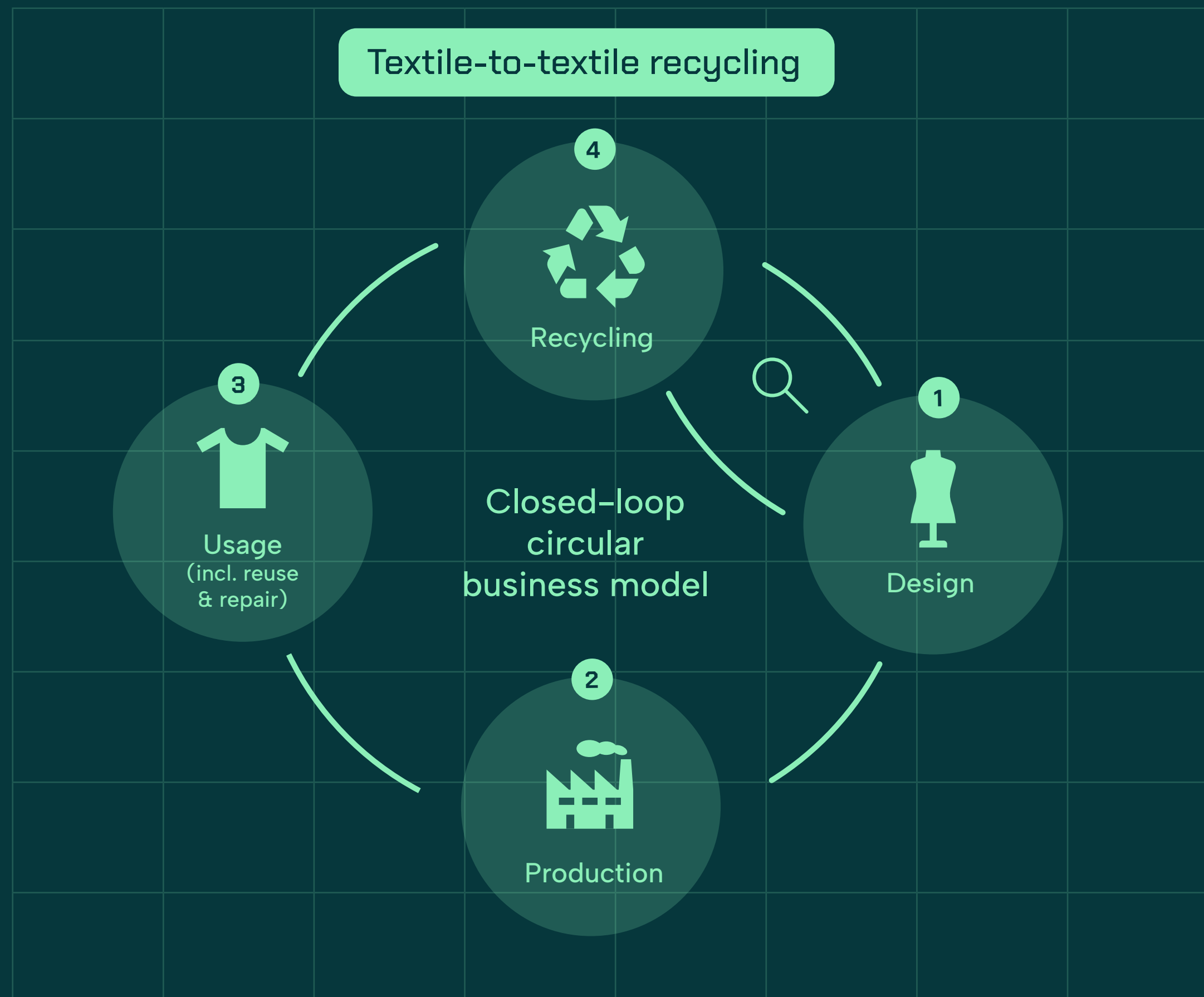
- Players in the fashion industry are often faced with the challenge of setting up a circular business model and achieving profitability when integrating circularity (e.g. repair, second-hand, etc.) into their current business.
- Many business cases are currently in a testing phase, with **very little perspective**, but this lack of foresight and understanding of circular business models is mainly due to the following:
 - **Failing to anticipate the long-term financial and extra-financial benefits** of the business model.
 - **Developing a model overly focused on traditional financial KPIs**, often failing to account for the impacts of a circular model.
 - **Lacking internal buy-in**, hindering the scaling-up process necessary for deploying the business model effectively.

«The key is the conviction of leaders in the circular economy. Without that, we won’t succeed.»

Anna Balez, Co-founder of Lizee



Eco-design in a closed-loop is based on reciprocal actions and information exchange between designers and recyclers



The **Digital Product Passports (DPP)** can enable full transparency throughout a product's lifecycle, **providing crucial data at multiple stages** including key information at design and recycling phases.



Zoom on eco-design for circularity

- **Current fashion design do not fully integrate end-of-life considerations**, making repairing, and recycling difficult.
- **Implementing eco-design** or 'design for circularity' would provide brands and fashion stakeholders with benefits at each stage of the value chain and **simplify repair, reuse and recycling**.
- The success of eco-design rests on the efficiency of the **collaboration between designers and recyclers** to ensure clothes are built for circularity from the start. A closed-loop approach, where recyclers and repairers provide feedback to designers, will optimize material selection and garment construction for better circularity.

Designers

Key actions:

- Prioritizing mono-material garments
- Implementing modular construction
- Anticipating disassembly

Key information:

- Material specifications (mix of materials, source, etc.)
- Garment construction and assembly methods.

Recyclers

Key actions:

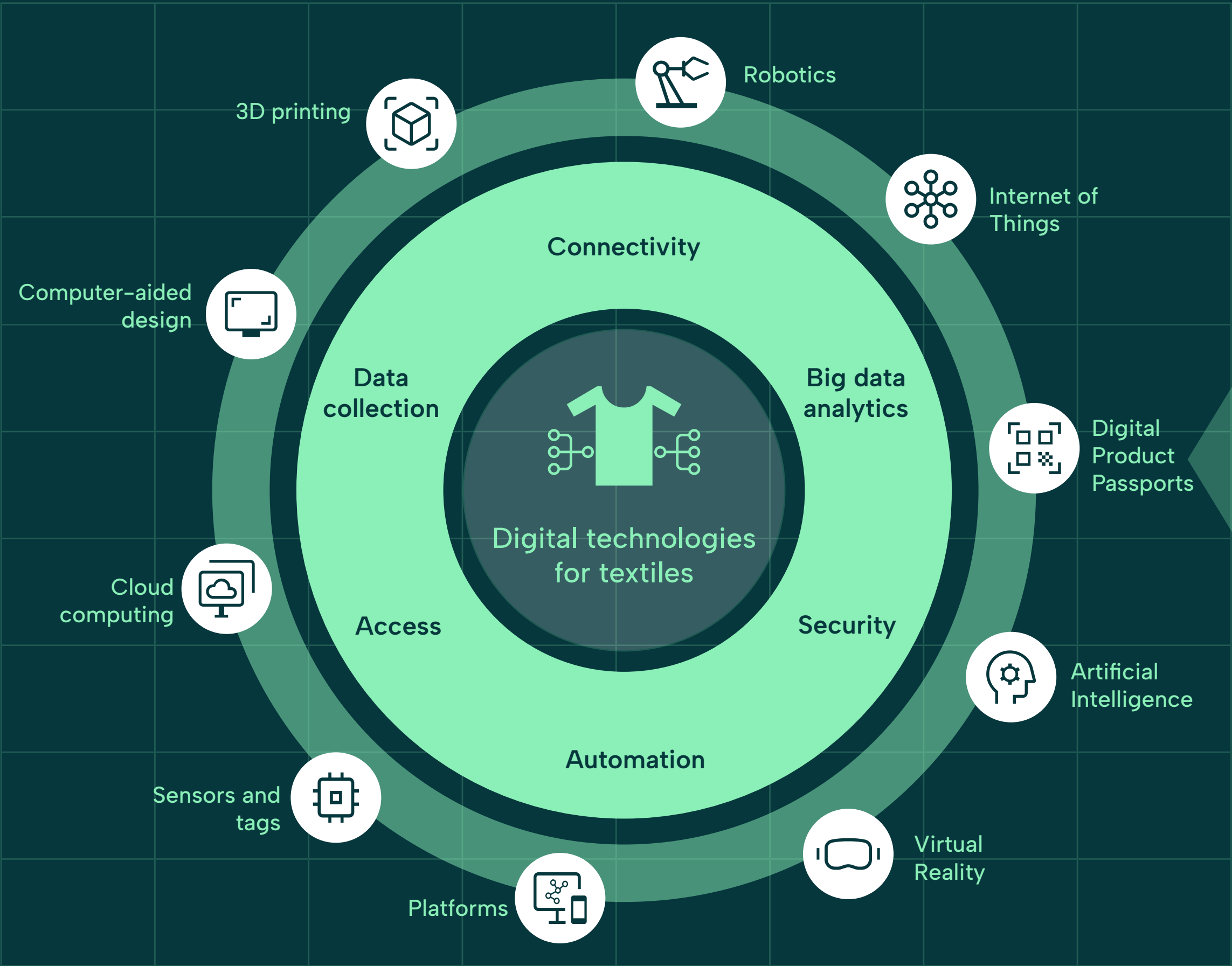
- Adapting disassembling and recycling techniques to design requirements
- Investing and innovating on sorting and processing techniques

Key information:

- Insights on recyclability of different materials
- Feedback on design choices that help better optimize recyclability

At every stage of a product’s lifecycle, Digital technologies and Digital Passports in particular act as a circularity enabler

Among all digital technologies presenting efficiency, productivity and competitiveness opportunities for the textile sector...



...the Digital Product Passport (DPP) is a true game-changer, providing crucial data at multiple stages of the garment’s lifecycle

	REINVENT	REPAIR	REUSE	RECYCLE
First and second –hand consumers	Verifying sustainable sourcing, garment composition	➤ Identifying previous repairs ➤ Getting information on care requirements	Verifying previous ownership info and product lifetime	
Second-hand sellers	Verifying sustainable sourcing, material composition	Getting information on reparability and Care requirements	Obtaining information for product sales sheet	
Repairers, cobblers		Optimizing time and costs through a better understanding of composition		
Recyclers				Optimizing fiber sorting and reprocessing








«Early adoption of DPPs ahead of regulatory mandates allows brands to gain a competitive edge by leveraging the mandate to align with consumer expectations, building greater trust, and building stronger storytelling by showcasing end-to-end product stories.»

Romain Carrere, Aura Blockchain Consortium CEO

Circular business models provide various benefits beyond financial gains, but need specific conditions to be fulfilled

Circular models create mid to long-term business value by strengthening resilience, optimizing resources, and unlocking new potential

Developing a viable and profitable circular business model is based on a set of prerequisites that must be secured right from the beginning


Benefits of circular Business Models		
<div> Operational efficiency</div> <p>Circular models (e.g. optimized inventory, pre-ordering) help reduce overproduction, lower waste management costs, and fuel demand forecasting.</p>	<div> Carbon and environmental footprint reduction</div> <p>Reducing virgin material use, improving recyclability, or extending product lifespan positively impact the environmental footprint.</p>	<div> Securing supply chain</div> <p>Diversification of raw materials portfolios mitigate sourcing risks linked to climate change or geopolitical conflicts.</p>
<div> Market differentiation and new customers</div> <p>Circular services (rental, resale) help brands reach price-sensitive or sustainability-first consumers, opening new demand pockets in the saturated / slow-growing market of fashion.</p>	<div> Product development insights</div> <p>Circular services (rental, resale) help brands reach price-sensitive or sustainability-first consumers, opening new demand pockets in the saturated / slow-growing market of fashion.</p>	<div> Regulatory resilience</div> <p>Returns, repairs, and second-hand data reveal quality insights or customer preferences, which can inform better design choices and durability enhancement.</p>
<div> Customer loyalty and brand image</div> <p>Fostering emotional attachment to the brand, increasing repeat purchases and reducing churn, which is more cost-efficient than acquiring new customers. Additionally, circular strategies visibly demonstrate a commitment to sustainability, enhancing brand credibility.</p>		


- Increase volumes of the three Rs to achieve scalability and profitability.
- Define right pricing and have a clear value proposition (as taught by 2nd hand use cases).
- Get buy-in internally, not just from CSR teams, but also from finance, operations and sales functions (equip sales with the right narrative, arguments and training).
- Communicate around the circular business, and make it as appealing as 1st hand shopping and engage new audiences, especially young consumers.
- Invest in the business model, not just in capabilities but also in training (e.g., repairs, relying heavily on training shoemakers and menders).
- Surround yourself with external partners, if only to get started and achieve scalability.
- Be open to collaboration with other players along the value chain to join forces, or with other industries that can benefit from the positive externalities of textile activity (e.g., industries using recycled textiles).


All efforts required to meet these challenges take place in a fast-paced regulatory context...


	Upcoming regulations at the European level				
	Waste framework directive (2025) Harmonizes the Extended Producer Responsibility in use across member states and facilitates the management of textile waste (separate collection of textile).				
	ESPR Working plans (2025) <ul style="list-style-type: none">➤ Produces a list of eco-design requirements with key guidelines and rules. The preparatory work for textiles has already begun.➤ Establishes implementation rules for the Digital Product Passport.				
	Green claims (2025) Empowers consumers by harmonizing green claims that will need to be independently verified by a third party .				
	Circular Economy Act (2026) Harmonizes circular economy policies across members states to reduce regulatory fragmentation by aligning with existing regulations. Key topics addressed: <ul style="list-style-type: none">➤ Incentivizing the use of secondary materials in manufacturing.➤ Creating a single market for waste and secondary raw materials.				
	Textile Labelling regulation (2026) Introduces a single and uniform set of rules on labelling requirements for textile and related products.				
				Revision of an existing	


Member states legislations recently adopted or debated

**France’s anti fast fashion law** has been adopted by the General Assembly early 2025 and is yet to be discussed by the senate in May 2025. It aims at **defining fast fashion practices**, increasing consumers’ information on the environmental impacts and implementing an ecological malus on the price of fast fashion items.

**Germany** adopted a **National Circular Economy Strategy**. It will implement a circular economy platform, a roadmap to 2030 with concrete circular practices.

**Denmark** introduced an **EPR¹ system** for packaging as of 2025, in line with the current **EU Packaging Directive**.

**Hungary’s EPR system** established in 2023 has been revised. Effective from April 1st, 2025, if a producer fails to meet its reporting and fee payment obligations, or if false data is provided leading to a lower fee payment, the competent waste management authority may impose a fine.

**The Netherland** recently adopted its **National Circular Economy Program 2025–2030**. Its aims at implementing **circular practices** within the country on different sectors including textile with targets for 2030.

...with external factors affecting the industry, while also offering opportunities for players to capitalise on

Several external factors impact the circular fashion value chain... ... yet they offer opportunities for industry development



Climate impact

Unpredictable Fiber Supply & Rising Price
Water scarcity and extreme weather events in producing regions impact fiber farming, **limiting the availability** of virgin fibers and **increasing prices**.

Higher Energy Costs for Recycling
Climate-related disruptions in energy supply (e.g. power outages, fossil fuel phase-outs) increase **energy prices**, making textile recycling **more costly** and **less competitive** against virgin fiber production.



Regulatory impact

Weak Enforcement of Circularity Standards
Weak enforcement of **environmental laws** allows manufacturers to prioritize virgin fibers over recycled ones due to **cost** and **availability**.

Export Bans on Textile Waste
Restrictions on **waste imports/export** policies can **limit the flow of recyclable materials**, reducing the supply of high-quality recycled fibers for production.



Geopolitical impact

Dependency on unstable Supply Chains
Political instability or trade restrictions can lead to **disruptions in waste logistics** (due to damaged transport networks) reduce the efficiency of **circular supply chains**, leading to **material shortages**.

Rise of Protectionist Policies
Protectionist policies in some regions (e.g. banning second-hand clothing imports) can **reduce the reuse** and **resale** potential of garments.



Economic impact

Exchange rates
Fluctuations can raise the cost of importing recycled materials, affecting the affordability of sustainable practices.

Inflation
Rising costs of materials, transport, and processing make recycled fibres more competitive, but this is not easily reflected in final prices, ultimately reducing profit margins.

Cost of textile fibers
The cost of textile fibers is linked to raw materials (e.g. petroleum, wood), with rising prices increasing the cost of virgin fibers.

Increased use of Recycled Fibers
Compensates climate-induced shortages of virgin materials, fostering a shift to more sustainable sourcing.

Optimizing Fiber Selection at the Design Stage
Ensure compatibility with future recycling processes

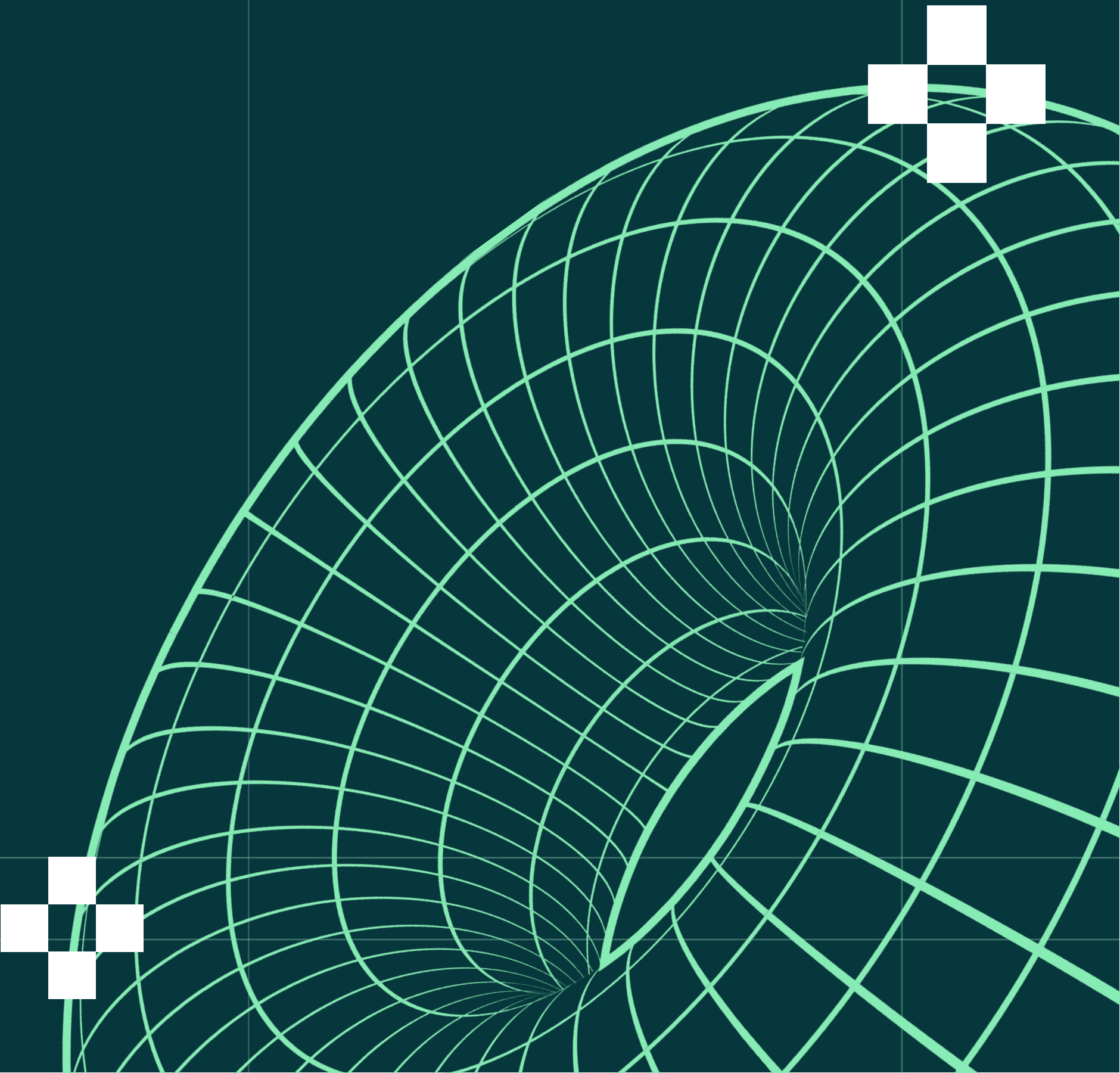
Rationalize its supply chain
Supply chain verticalization to anticipate medium- and long-term supply disruption linked to climate change.

Regulatory Incentives for Circular Fashion in the EU
Pushes for regulatory changes can open the door to **tax incentives or subsidies** for recycled material usage, making circular fashion **more financially viable**, especially in the EU, home of a large share of textile consumption.

Localized Circular Systems
Drives brands to **shorten supply chains** by investing in **localized closed-loop systems** enhancing sustainability and operational efficiency, reducing reliance on **long-distance logistics** and promoting local circular economies.

Circular Business Models to Reduce Dependency
High Inflation and textile fibers costs encourage **the development of circular business models**, driving opportunities for **reuse** (second-hand, rental), and garment **repair** and **recycling**, helping brands reduce their reliance on virgin material.

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- BALEZ Anna, Co-founder of Lizée
- BOER Mariska, President of EuRIC Textiles (Textiles Branch of the European Recycling Industries Confederation EuRIC)
- BONNIER Sophie, Head of Sustainability and Circular Economy at Kering
- CARON Camille, CSR Leader at Kiabi
- CARRERE Romain, CEO at Aura Blockchain Consortium
- CATGIU Chaira, Manager, climate change & Sustainability Services, Subject Matter Expert Circular Economy at KPMG
- DECHIN Aymeric, Co-founder and CEO of Faume
- DECOIN Clément, Circular Economy Program Director at Kiabi
- DE LABOUCHERE Beryl, Co-founder of Tilli
- DOLIGER Philippe, Policy Advisor at the European Recycling Industries Confederation (EuRIC)
- FRECON Tanguy, CEO and Co-founder of Prolong
- GIMENO Leila, Regulatory Affairs Officer at Fairly Made
- GYBELS Marianne, Senior Sustainability Director at Vinted
- HURSTEL Pierre-Nicolas, Co-Founder & CEO of Arianee
- JAÏ Ilhem, President of CrushON
- JAI Younes, Regulatory and Traceability Project Manager at Product DNA
- JAILLANT Pauline, Co-founder of les Raccommodeurs
- LE GAL Camille, Co-founder of Fairly Made
- LE GUAY Gabrielle, Head of Sales Fashion Strategic Accounts at Venteprivee.com
- MALHEN Sofia, Project Manager, Circular Business Models at H&M
- MASSE Samuel, Head of Sustainability and Data at Inditex France
- MCHUGH Rachel, Communications and Marketing Specialist at Aura Blockchain Consortium
- MINVIELLE Gildas, Economist and professor at IFM Paris
- MOYA MARTINEZ Laia, Head of Clearance offline – Second choice – stock quality at Venteprivee.com
- NAZARE Isabel, Senior Sustainability Strategy Manager at Vinted
- OTT Daniela, Founder of Agape Consulting
- PADRE Chloé, Recycling manager at Venteprivee.com
- PELISSIER Julie Marlène, Regional Sustainability Manager at H&M
- PELLE Damien, Chief Sustainability Officer at SMCP
- PRUVOST Hortense, Impact Director at Vestiaire Collective
- RODRIGUEZ CORRAL Monica, Co-founder and CEO of Recovo
- SAMBA Marie, Head of Product & Customer Experience at Vaayu
- SCHAEDLICH Clémentine, CSR Manager at Sandro
- SCHMITT Daniel, Head of Repair Operations at Veja
- SOLIMEO Giuseppe, Technical Director at Valletti
- TONNAER Tony, Business Development Manager at Product DNA
- TRELUYER Mailys, CSR Director at Showroomprivee.com
- TURI Szilvia, Co-founder of Redivivum
- WONE Dounia, Chief Impact Officer at Vestiaire Collective

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