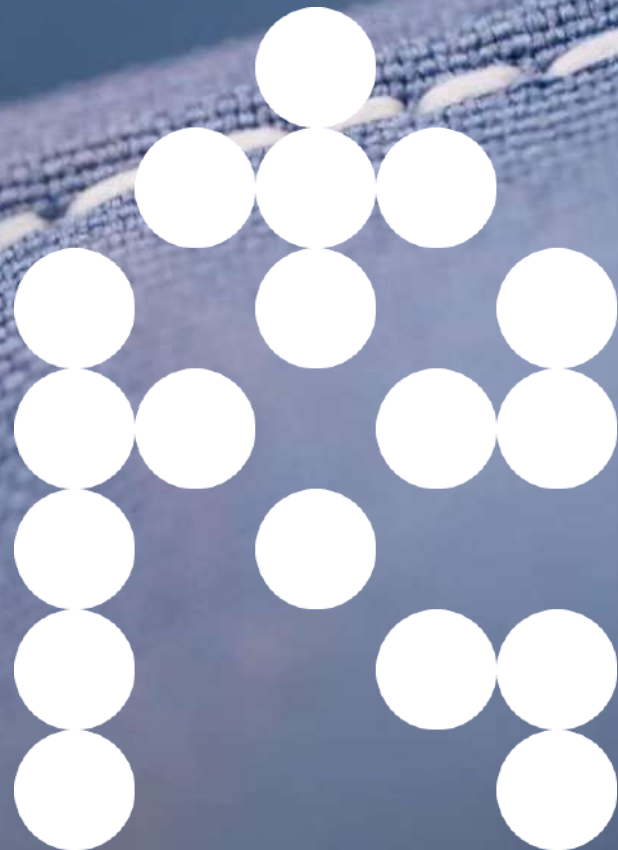


# Resortecs, Recycling made Easy

Investment Deck Series A



**Yearly, more than  
100B clothes are  
produced globally.  
Yet, less than 1% is  
recycled.<sup>1</sup>**

**\$500 billion worth of materials is lost every year.<sup>1</sup>**

**Fashion represents 10% of the yearly global CO2  
emissions.<sup>2</sup>**

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<sup>1</sup> <https://www.ellenmacarthurfoundation.org/case-studies/an-open-access-circular-supply-chain-for-fashion>

<sup>2</sup> [https://www.researchgate.net/publication/340635670\\_The\\_environmental\\_price\\_of\\_fast\\_fashion](https://www.researchgate.net/publication/340635670_The_environmental_price_of_fast_fashion)

Strict legislation requires the textile industry to recycle and reduce its environmental impact.

[DOWNLOAD POLICY OVERVIEW](#)

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1

Extended Producer Responsibility (**EPR\***)

2

Eco-design for Sustainable Products Regulation (**ESPR**)

3

The Corporate Sustainability Due Diligence Directive (**CSDDD**)

4

The waste Shipment Regulation (**WSR**)

5

Separate collection of textile waste

\*European Legislation in line with Green Deal:  
[https://drive.google.com/drive/folders/1Aj2E1srIx5Xg\\_5VqOlyq86PGahqWy1He?usp=sharing](https://drive.google.com/drive/folders/1Aj2E1srIx5Xg_5VqOlyq86PGahqWy1He?usp=sharing)  
[https://ec.europa.eu/commission/presscorner/detail/en/QANDA\\_22\\_2015](https://ec.europa.eu/commission/presscorner/detail/en/QANDA_22_2015)



**78% of textile products are difficult to recycle because they are difficult to disassemble.**

1

9% of products have a lining (multi-layer)

2

69% of products have trims e.g. zippers.

# Recycling efforts are hindered by inefficient disassembly and sorting.

1

Mechanical solutions **cannot process 1/3 of all products** (multi-layer products or products with soft-trims like elastics).

2

**Feedstock quality** falls below the required purity levels of Recyclers (<80%).

3

Feedstock **costs** up to **3x more** than recyclers are willing to pay.

# Resortecs addresses disassembly inefficiencies at two critical stages.

## Design and production stage

where zippers, buttons, and threads are engineered for efficient removal.

## Recycling stage

where automated systems recover more material and can process complex products.

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# Resortecs' 2-parted solution consists of:

## Smart Stitch™

A revolutionary (**biobased**) sewing thread that melts at high temperatures (150–200°C), enabling garments to disassemble easily.

[DOWNLOAD PRODUCT OVERVIEW](#)

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## Smart Disassembly™

An advanced EOL-management service using high-tech thermal disassembly and sorting machines to process textiles at an industrial scale.

[DOWNLOAD PRODUCT OVERVIEW](#)

# Resortecs combines 2 revenue models acting at 2 stages in the product life cycle.

Find more information via the link(s) below:

[Financial Plan](#)

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## Smart Stitch™ (license\*) sales

At the production stage, sewing threads are sold (€ per km) to garment makers via brands using standard sewing thread sales channels.



## Feedstock & service sales\*\*

At end-of-life, sorted materials (€ per ton) are sold to recyclers. These sales cover the costs of sourcing and Smart Disassembly™ operations.  
*N.B. Smart Disassembly™ systems are not sold. In some cases disassembly is sold as a service.*

\* Smart Stitch™ licenses currently negotiated with global sewing thread market leaders.

\*\* The feedstock sales represent only 3% of the revenue in 2027, yet in the long term can evolve to parity with Smart Stitch™ (>2030).



The globally patented solution is used in apparel, bedding and workwear products sold by major brands in 60+ countries.



H&M

UTERQUE | Stradivarius | ZARA | ZARA HOME

INDITEX

Mossimo Dotti | PULL&BEAR | Bershka | OYSHO

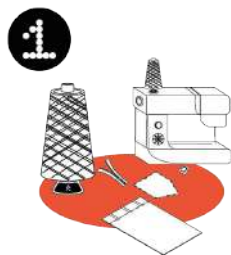


BEKAERT DESLEE

DECATHLON | WEDZE

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# Resortecs<sup>®</sup> closes the loop in 4 steps.



**Eco-design  
with Smart Stitch™**

Guiding brands in  
designing garments for  
easy disassembly using  
Smart Stitch™ technology.

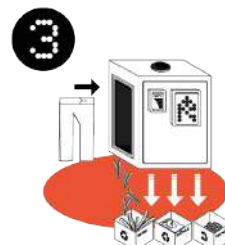
**Proprietary solution**



**End-of-life garment  
recovery**

Facilitating garment  
recovery with available  
solutions/providers.

**Strategic partnership**



**Pre-processing  
for recycling with Smart  
Disassembly™**

Transforming textile  
products, made with  
Smart Stitch™, into  
feedstock for recyclers.

**Proprietary solution**



**Optimized material  
routing**

Selling sorted material of  
high purity (feedstock)  
to the most suitable  
recyclers.

**Strategic partnership**

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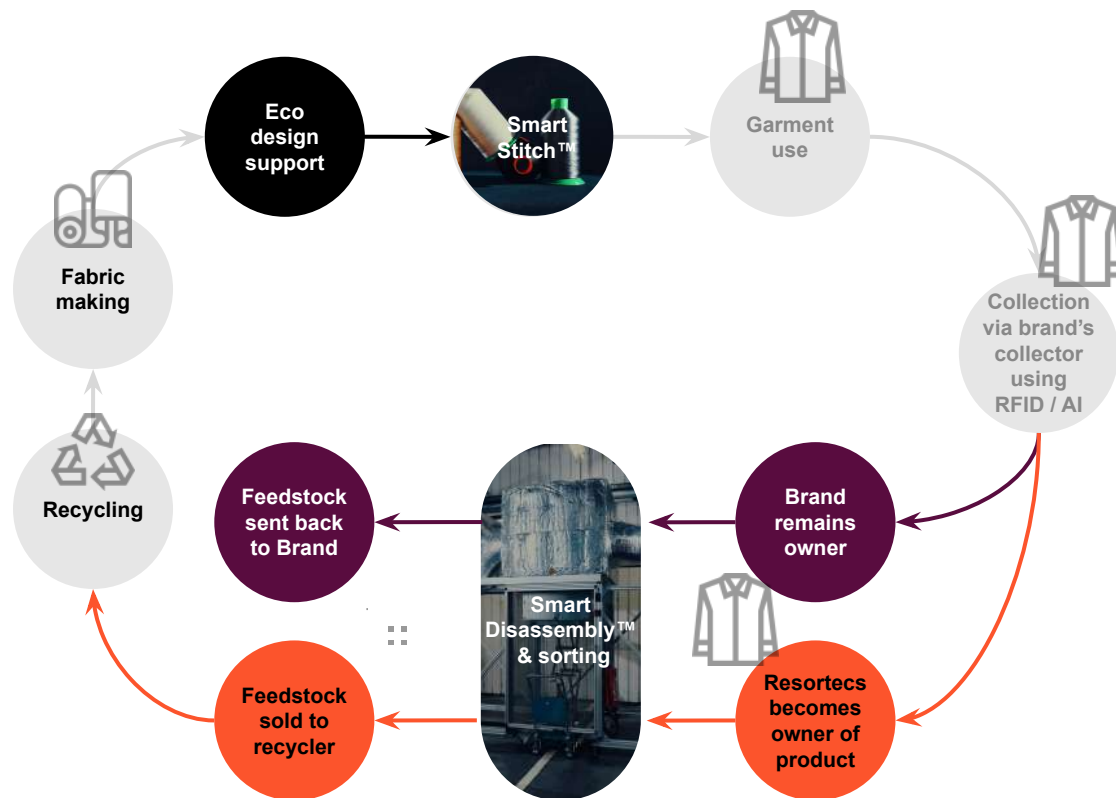
# Resortecs makes circular economy effortless for brands.

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- 1 **Off-the-shelf eco-design** solution with **no compromise on creativity nor functionality**.
- 2 Cost-effective and **effortless EOL management** with an improved carbon footprint (avg. 30-50% CO<sub>2</sub> reduction).
- 3 Premium **recycling feedstock** at ½ of the cost (i.e. access to reliable and affordable recycled material).
- 4 **Compliance** with ESPR, WFD and EPR legislation.
- 5 Actionable **insights through reliable data**, with detailed disassembly and recycling reports to track progress.



By integrating in the existing supply chain, Resortecs offers **disassembly-as-a-service** or a comprehensive **EOL management service**.



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Resortecs partners with collectors to address the gap of efficient disassembly.



- ✓ Strength
- ✗ Not envisioned
- ↻ Work in Progress

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# A small change with a big impact.



50%

reduction in CO<sub>2</sub> emissions (via insetting).



80%

reduction in waste generation.



98%

reduction in water use.

Find more information via the link(s) below:

[Life Cycle Assessment](#)

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Combined with recycling and taking a pair of jeans as an example, the following impact can be generated:  
As incineration is avoided, CO<sub>2</sub> emissions are cut by 50%;  
As the fabric is recovered, waste generation is reduced by 80%;  
As new cotton is not needed, water use is reduced by 98%.



Our mission is  
to become  
fashion's new  
standard,  
allowing planet  
and culture to  
go hand in  
hand.

Learn more about our mission, code of conduct  
and materiality assessment

[DOWNLOAD CODE OF CONDUCT](#)

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CO<sub>2</sub>

1B tons

reduction in CO<sub>2</sub> emissions by 2050.

9



11



12



13



17



**Resortecs is building global pre-processing infrastructure by bringing together key stakeholders in local Smart Disassembly™ hubs.**

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**1****Brands**

Eco-design products and purchase Smart Stitch™.

**2****Waste Collectors**

Collect discarded Smart Stitch™ products.

**3****Resortecs**

Operates the local Smart Disassembly™ lines to produce feedstock.

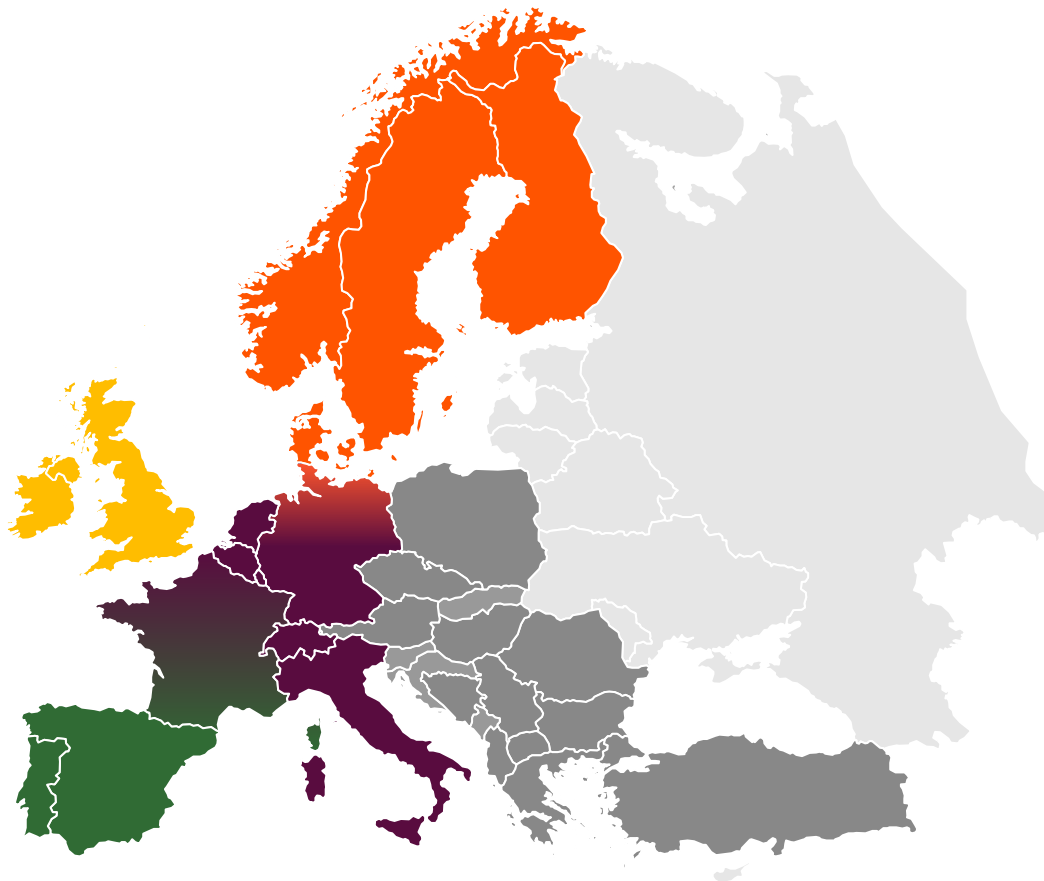
**4****Recyclers**

Purchase the pre-processed feedstock tailored to their needs.

# The Smart Disassembly™ hubs network leverages the local volumes and needs from workwear, apparel, bedding, and automotive industries.

Beyond Europe, additional hubs planned for Australia, Japan, USA, and the Middle East.

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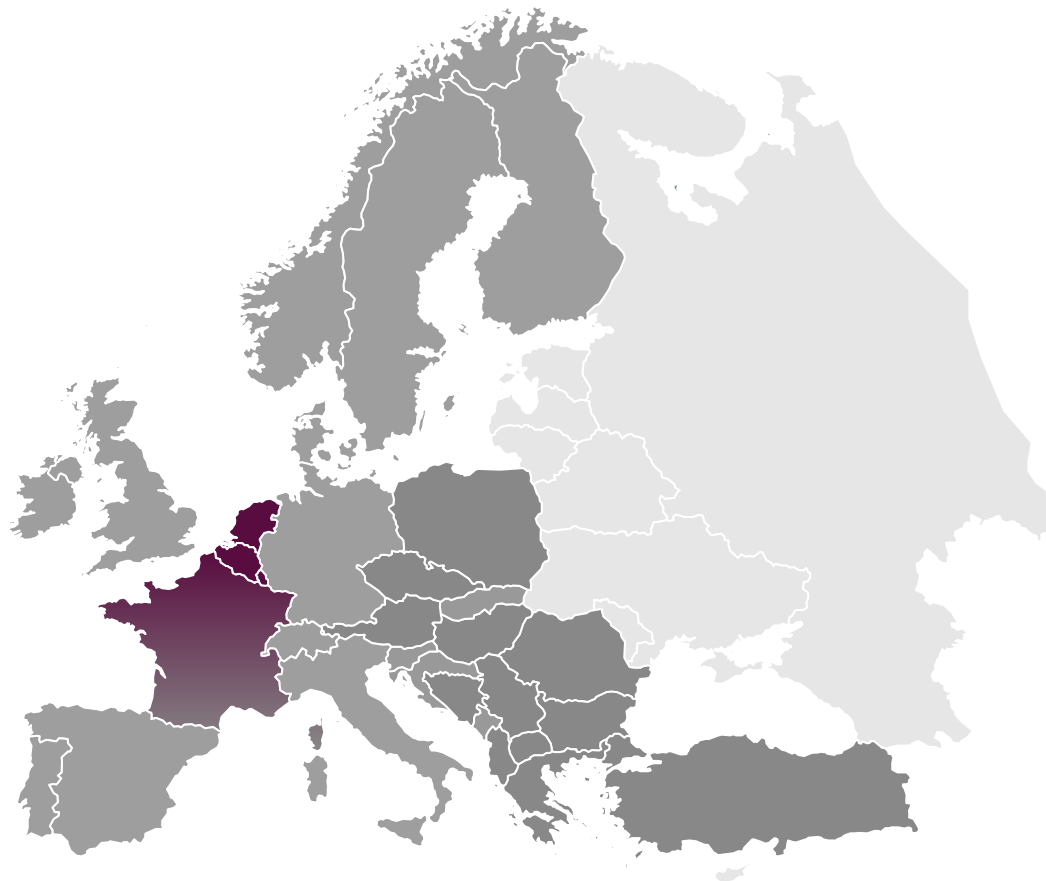




# Resortecs is leading cross-industry collaboration for circular textiles, starting with the first Smart Disassembly™ hub in Benelux.

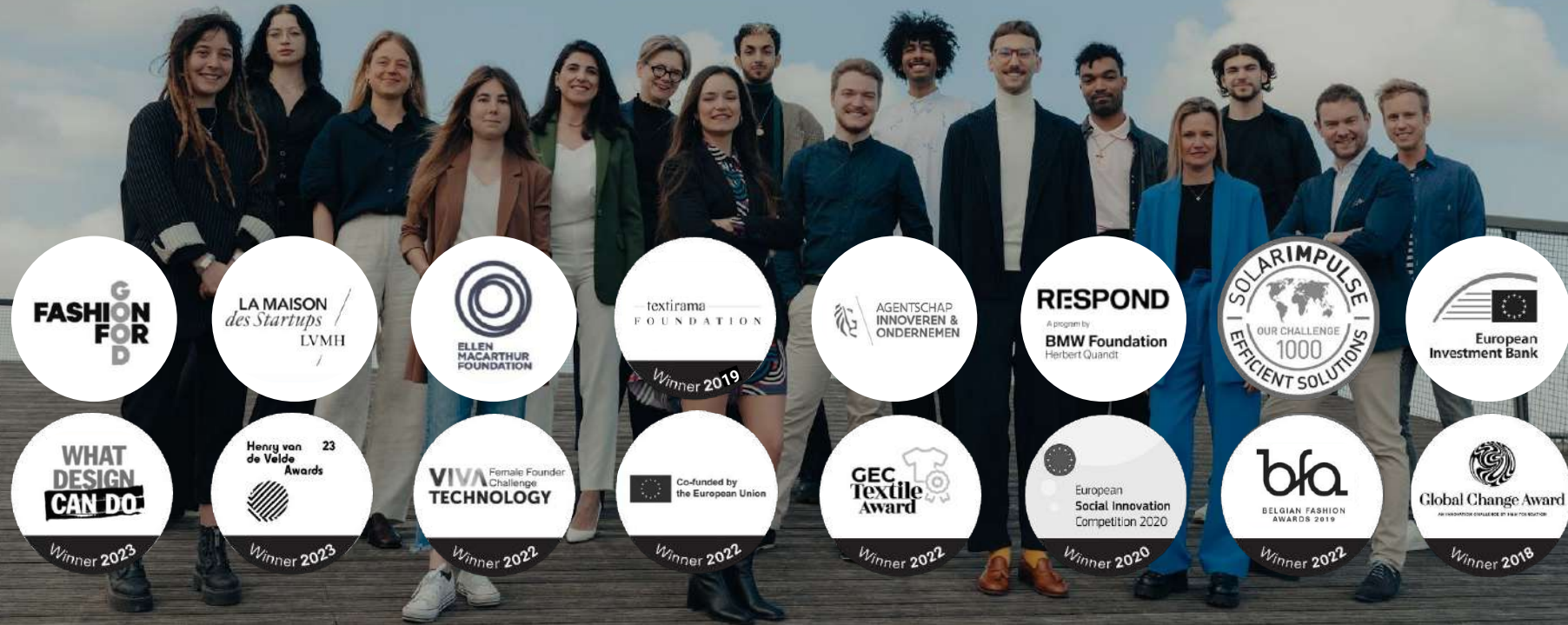
Backed by industry leaders like Sioen and supported by a network of over 70 EOL stakeholders - including recyclers.

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# An award winning, multidisciplinary & international team.

6 different nationalities combining senior expertise in engineering, marketing, design and environmental science; connected with leading foundations, institutions and accelerators around the globe.





Cédric  
Vanhoeck  
CEO

Bachelor Design Engineering - **TU Delft** (NL) • Master Marketing - **Domus Academy** (It) • Fashion design - **Royal Academy of Fine Arts** Antwerp (Be)



Christophe  
Berlo  
CFO

Master Business Engineering - **ICHEC** (Be)  
•  
Finance Lead - **Baxter International** (EMEA) • Senior Auditor - **PWC** (Be)



Acerina  
Trejo Machin  
CTO/COO

PHD Material Sciences - **University of Luxembourg, LIST & Goodyear** (Lu)  
•  
Master Chemical Engineering - **Politecnica Catalunya** (Es)



Rawaa  
Ammar  
CSO

PHD Environmental Science - **ULB** (Be)  
•  
Master hydrology and Water Resources Science - **Lebanese University** (Lebn)  
•  
Post-Doc Prestige **Marie Curie** - **Paris 12** (Fr)  
•  
Research Scientist Manager - **Baxter International** (Be)  
•  
Corporate Sustainability and Innovation - **Harvard Extension School** (Uk)



Maxime  
Fougère  
Sales

PHD Mechanical Engineering - **Ecoles des Mines Saint-Etienne** (Fr)  
•  
MBA - **IESE Business School** (Es)  
•  
Market Development - **The Venturi Tribe** (Be)  
• Strategic Marketing Manager Peroxides - **Solvay** (Be)  
• Global Strategic Marketing Manager - **Lubrizol** (Be)



Daphné  
Martin  
**Head of  
HR**

Master in  
Communications -  
**IHECS** (Be)

•  
HR manager - **Porter**  
**Novelli** • HR Manager -  
**Ketchum** (Us) • HR  
manager -  
**Hill+Knowlton** (Be)



Jean-François  
Benoit  
**Head of  
disassembly**

Master in Mechanical  
Engineering -  
**Université de**  
**Technologie de**  
**Compiègne** (Fr)



Maria  
Duque  
**Head of  
Testing**

Master in Textile  
Engineering -  
**Politécnica de**  
**Catalunya** (ES)

•  
Master in Health and  
Safety - **Universidad**  
**Europea Miguel de**  
**Cervantes** (Es)

•  
Health and Safety  
Technician - **Sidenor**  
**Aceros Especiales**  
(Es) • Research  
Assistant -  
**Aachen-maastricht**  
**Institute for biobased**  
**Materials** (NI)



Sofia  
Cunha  
**Head of production**

Master in Textile  
Engineering -  
**Universidade do**  
**Minho** (Pt)

•  
Process Engineer -  
**Adalberto** (Pt)



Djaber  
Gadi  
**Testing & quality**

Master in Material  
Sciences - **Polytech**  
**Montpellier** (Fr)



Tom Maertens  
**Graphic  
Designer**

Bachelor in Digital and  
graphic design -  
**Arteveldehogeschool**  
(Be)

•  
Graphic Designer -  
**Freelance**



# Supported by an international board of directors.



Cédric  
Vanhoeck  
**Member BoD**  
**Co-founder**  
*CEO Resortecs*  
*(Be)*



Christine  
Goulay  
**Chairwoman**  
**BoD**  
*Former Innovation & sustainability director*  
*Kering*  
*(Fr)*



Vanessa  
Counaert  
**Member BoD**  
**Co-founder**  
*Head Connected care*  
*Baxter*  
*(Be)*



Mattias  
Jonsson  
**Observer**  
**BoD**  
*Former CEO*  
*Renewcell*  
*(Se)*



Christophe  
Berlo  
**Member**  
**BoD**  
*CFO Resortecs*  
*(Be)*



Marion  
Schuppe  
**Member**  
**BoD**  
*MakeSense*  
*(Fr)*



Lucie  
Thieule  
**Member**  
**BoD**  
*Finance Invest*  
*Brussels*  
*(Be)*



Alexandre  
Dutoit  
**Member**  
**BoD**  
*Scalefund*  
*(Be)*

# Supported by a complementary and international advisory board.



Rawaa  
Ammar  
**BoA member**  
CSIO Resortecs  
(Be)



Prof. Dr. Robert  
Groten  
**Advisor**  
Textile Engineering  
Niederrhein university  
(De)



Dr. Johanna  
Braun  
**Advisor**  
Impact  
Investment advisory  
(De)



Serena  
Bonomi  
**Advisor**  
Fashion Supply  
Former Vf-corp  
(It)



Acerina  
Trejo Machin  
**BoA member**  
CTO Resortecs  
(Be)



Sven  
Gyselinck  
**Advisor**  
Operations  
Former CEO  
Sunconfex  
(Be)



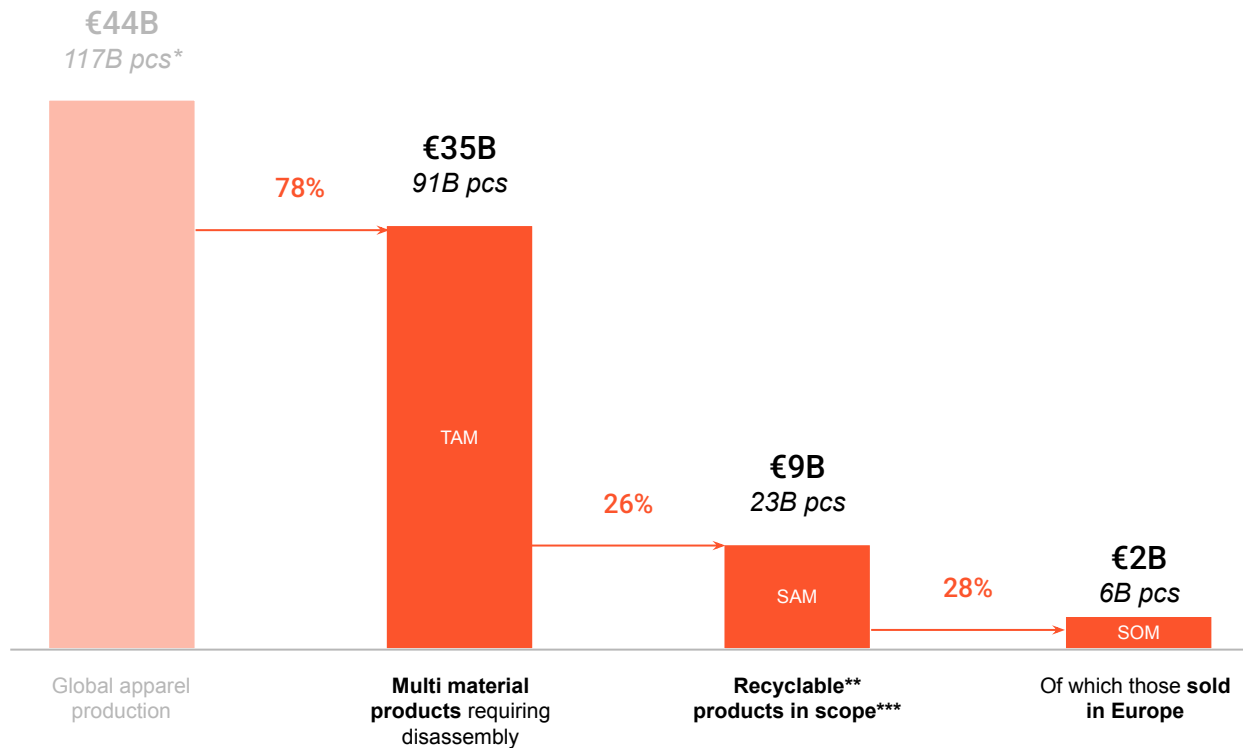
Prof. Rebecca  
Earley  
**Advisor**  
Circular Design  
UAL  
(Uk)

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# The global Active Disassembly market for textile products is valued at €35B.

Market repartition between 53% Smart Stitch™ sales, and 47% feedstock sales through Smart Disassembly™

Resortecs targets to reach 423M pcs by 2030 or a penetration of 1.8% of the SAM.

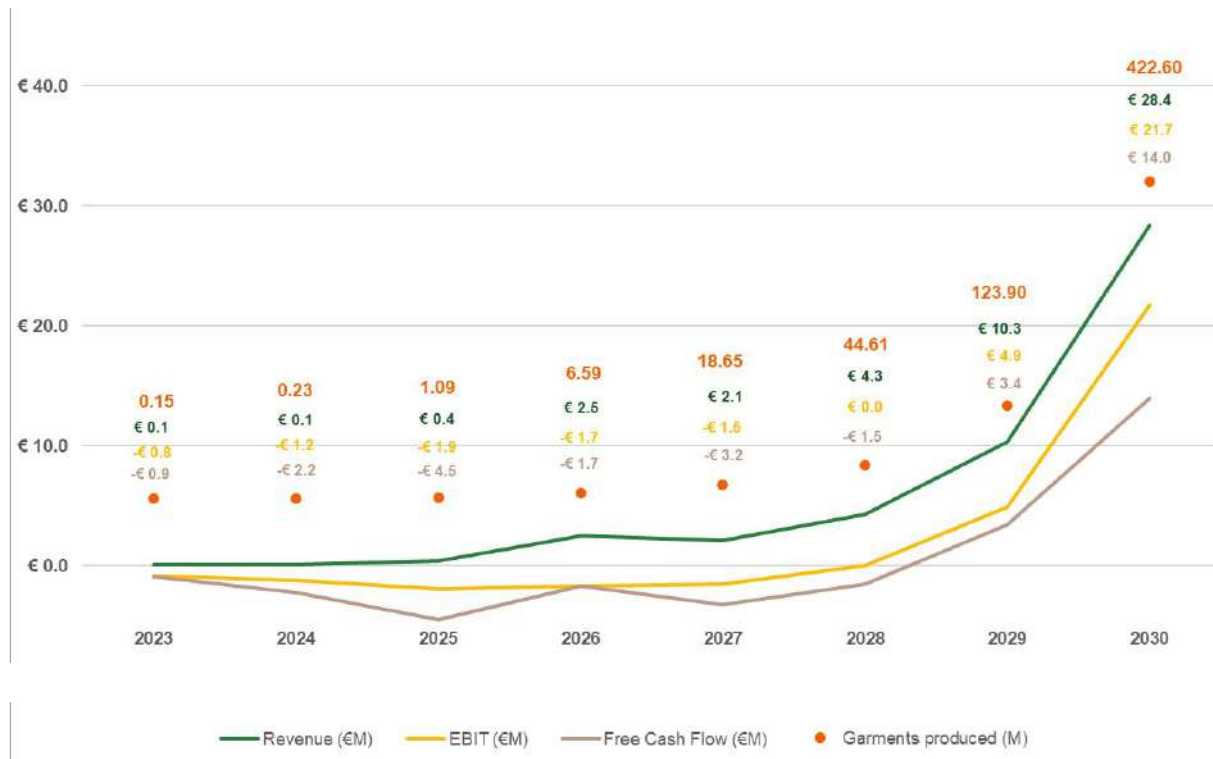


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\* Statista – Apparel Europe, and Apparel Market Worldwide.  
 \*\* 59% of all products - Fashion For Good, Sorting for Circularity Report, 2022.  
 \*\*\* products in scope: jacket/blazer/trousers (30%), coats (7%), other complex products (6%) - Fashion For Good, Sorting for Circularity Report, 2022.  
 \*\*\*\*\* Refashion, Characterisation study of the incoming and outgoing streams from sorting facilities report, 2023.  
 \*\*\*\*\* Statista - Apparel worldwide 196Bn pieces by 2028 expected.

**Break-even in 2028.  
Switching from revenue to license model in 2027.**

Clothes produced,  
Revenue, EBIT & Free  
Cash Flow in € Million.



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Since 2017, Resortecs raised more than 6M€.

€3M still open from the current €10M round needed to:

1

Scale the operational and commercial team.

2

Scale disassembly infrastructure (capacity & geography) and integrate in global ecosystem.

3

Reduce production cost of Smart Stitch™ and (co-)develop other techniques.

Some of our key investors and backers:



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# Resortecs, a technology so hot it will melt your mind.

H&M FOUNDATION



Global Change Award

AN INNOVATION CHALLENGE BY H&M FOUNDATION

Winner 2018

VOGUE

Bloomberg

Forbes

FAST  
COMPANY

Get in touch!

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