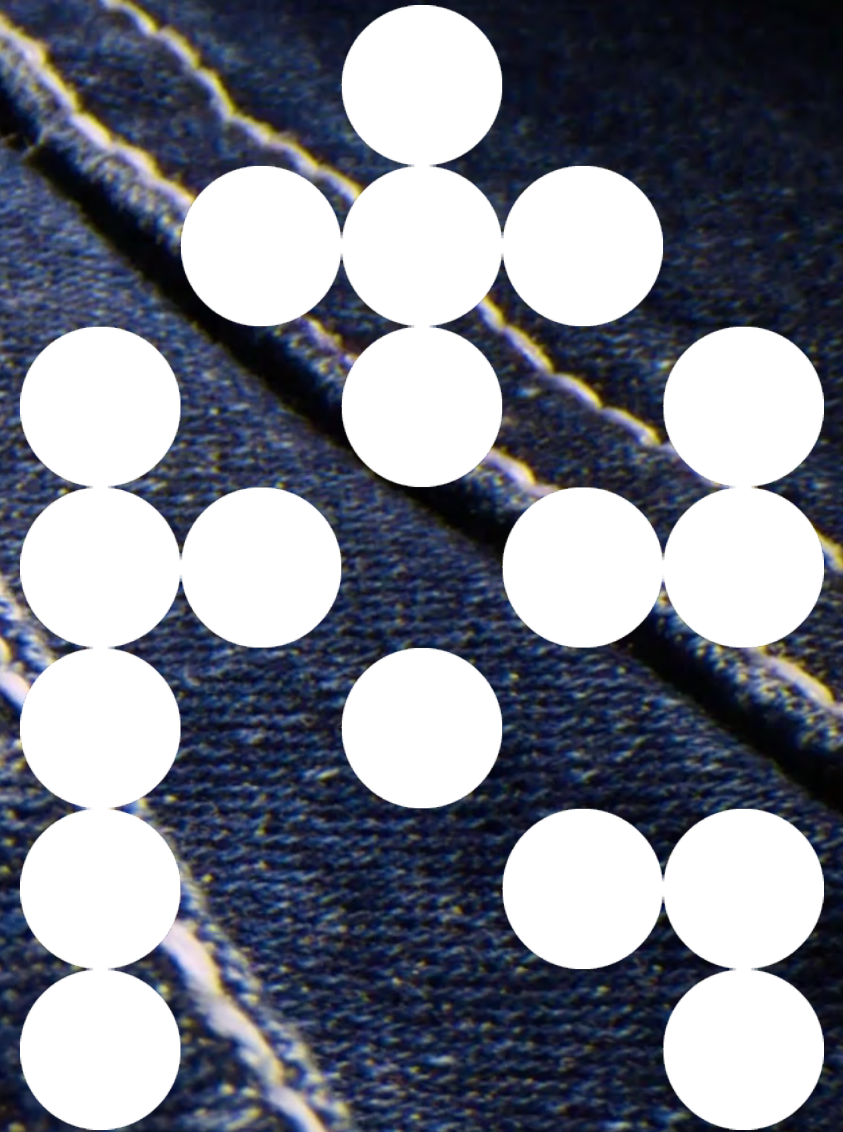



# Resortecs, Recycling made Easy







Resortecs is garment recycling on an industrial scale and higher quality

Resortecs,  
Recycling made  
Easy.

# Garments are difficult to recycle because they are difficult to disassemble

Manual disassembly is expensive, not scalable & time consuming.

Mechanical disassembly harms the textile and results in downcycling.





# Less than 1% of all garments are effectively recycled<sup>1</sup>

Fashion represents 10% of the yearly global CO<sub>2</sub> emissions.<sup>2</sup>

\$500 billion worth of materials is lost every year.<sup>2</sup>

A hand is holding a white TJ Maxx price tag in the foreground. The tag has the TJ Maxx logo at the top, a barcode, and the price '\$15.00' printed on it. The background is a vast, dark landscape filled with a massive pile of discarded clothing, including shirts, pants, and jackets, stretching towards a horizon under a dark sky.

## 30% of garments are wasted prior to being sold or used

Up to 10% of fashion production never reaches the stores.<sup>3</sup>

20% of garments remain unsold at the end of the season.<sup>3</sup>

In 2019, H&M struggled with a stack of unsold inventory worth \$4.3 billion.<sup>4</sup>

# Meet Resortecs: a globally patented solution tested by more than 30 international brands



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# Smart Stitch™: garments designed for disassembly by simply changing the thread

The heat-dissolvable threads melt at high temperatures (150-200°C), making the seams disappear automatically.

No changes in design nor manufacturing.

Washing, drying and ironing possible.



# Smart Disassembly™: patented thermal systems to dismantle garments 5x faster

Industrial ovens processing up to 10 tons of textiles per day.

No risk of damaging the fabric thanks to low-oxygen chamber.

Closed-loop heating system ensuring low energy consumption.

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# Circularity as a Service: a network ready to deliver tons of recycled material

Stress-free, garment-to-garment flow 100% ensured by Resortecs.

High-performing recyclers, spinners and fabric weavers in BE, ES, PT, and SE.

Up to 10 tons of recycled content processed per day.



# The benefit for brands: a small change with big impact



Continuous supply of high-quality recycled materials.

Costs reductions in unsold inventory and waste management.

Environmental compliance: EPR-readiness, reduced water use, less waste, and carbon footprint reduction.

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# The benefit for recyclers: high volumes of premium material

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES



17 PARTNERSHIPS FOR THE GOALS



Scalability: access to 5x more waste input at lower cost.

Clean, sorted and high-quality materials guaranteed.

Full traceability and an LCA-driven process.

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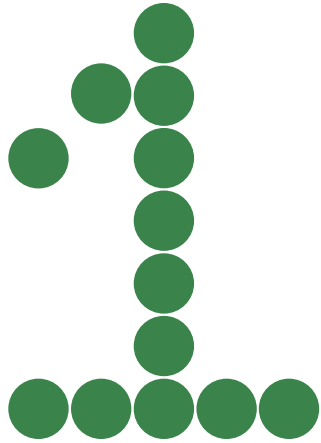
# How does it work?

Closing the loop: a garment-to-garment business case

- A modular approach with different optional outputs adapted to the needs of each brand.

Get **recycled fibers, yarns, fabrics or garments** completely sourced from pre-consumer waste: unsold inventory, overproduction, and defects.





**50K**  
PIECES

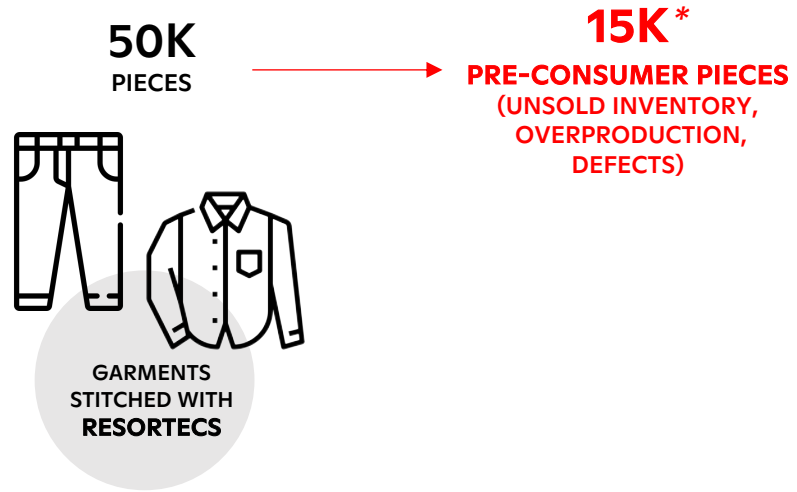
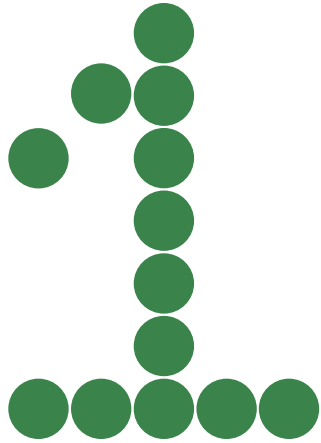
GARMENTS  
STITCHED WITH  
**RESORTECS**

A central graphic featuring line art icons of a pair of jeans and a button-down shirt. The text '50K PIECES' is positioned above the icons, and 'GARMENTS STITCHED WITH RESORTECS' is positioned below them, all within a light grey circular background.

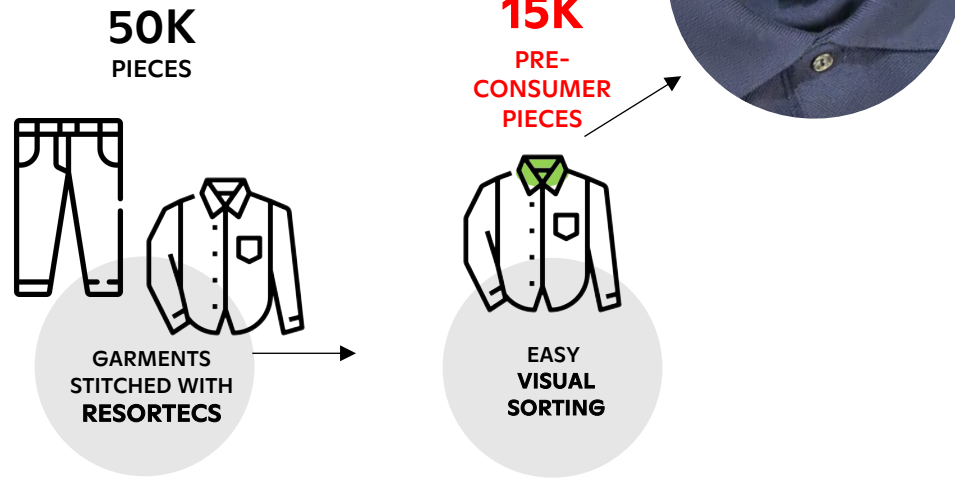
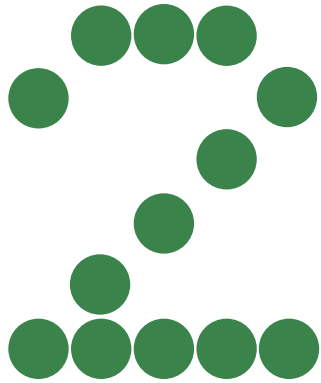
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\*Considering 500g per garment. e.g.: denim jeans.





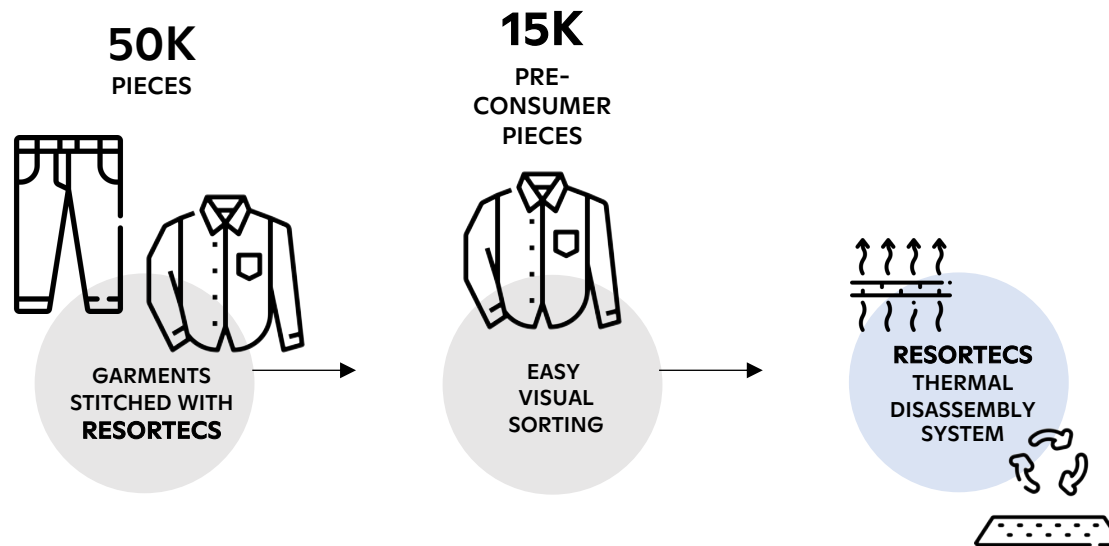
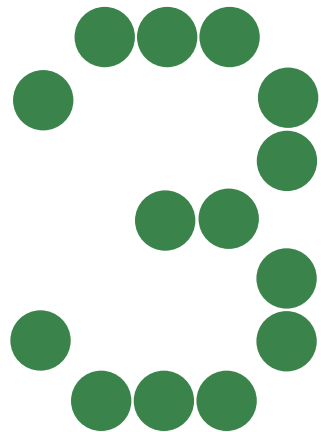




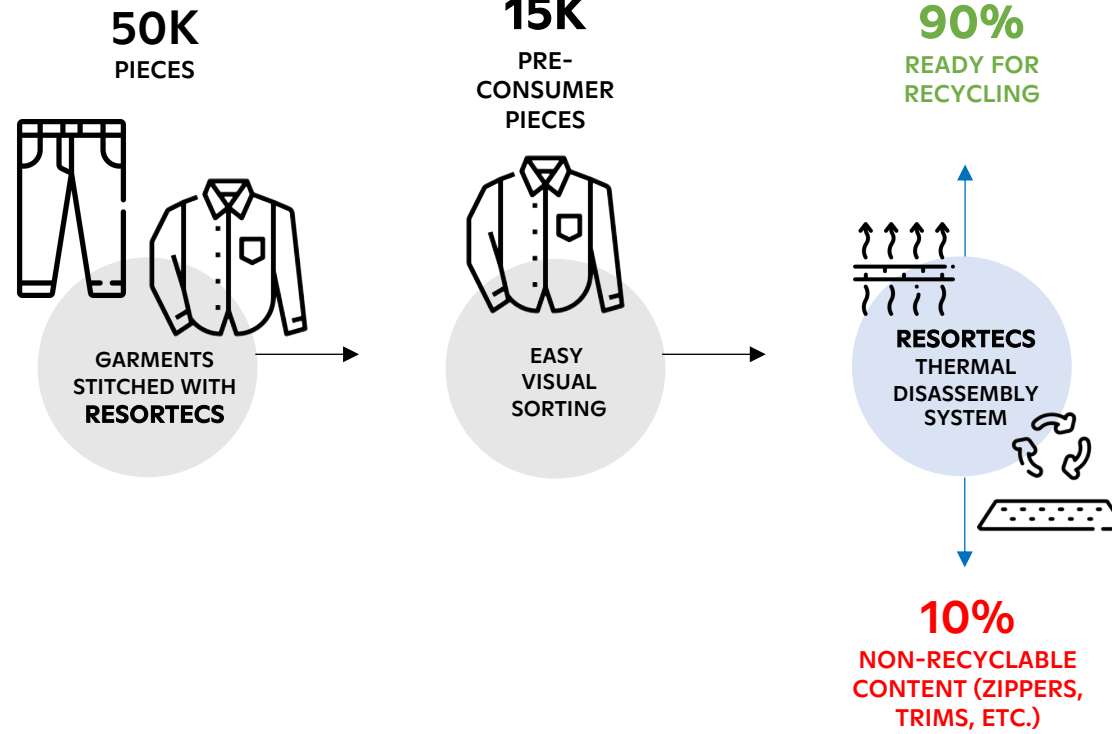
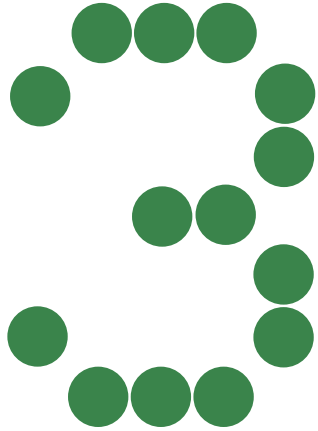
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*\*Data from industry partners and clients*



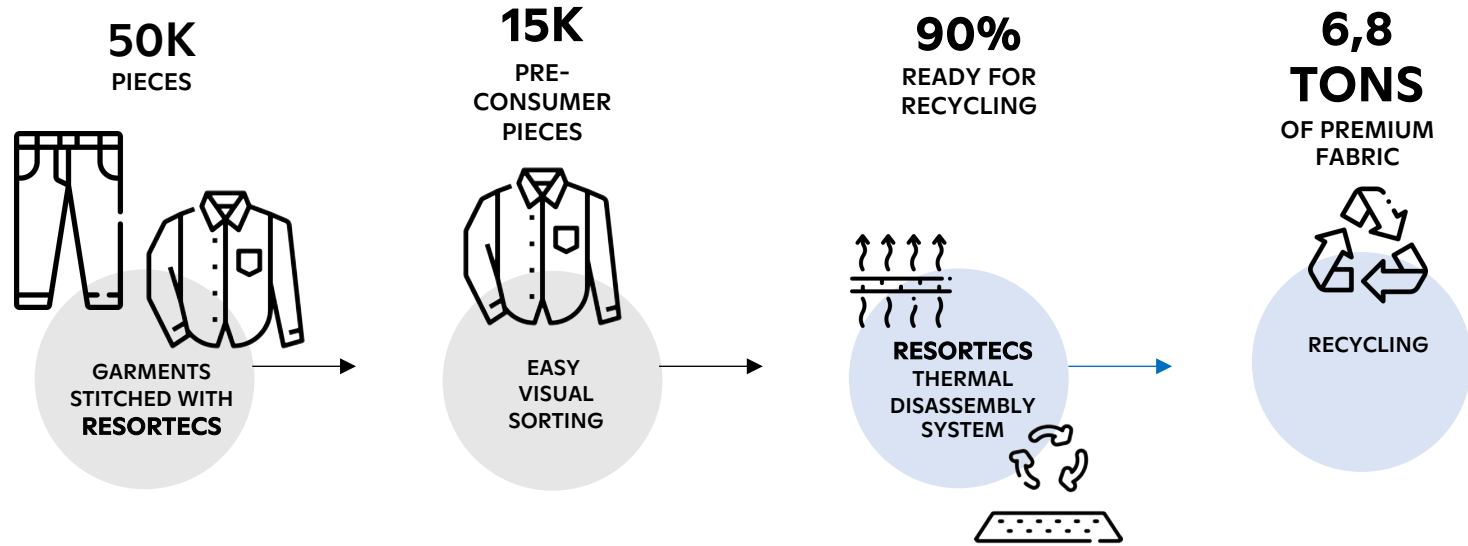
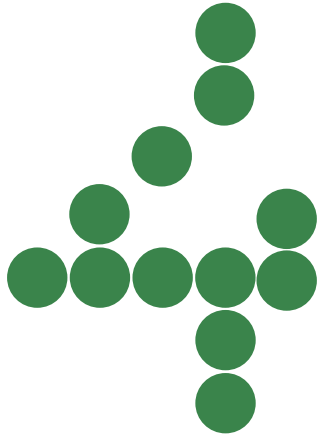


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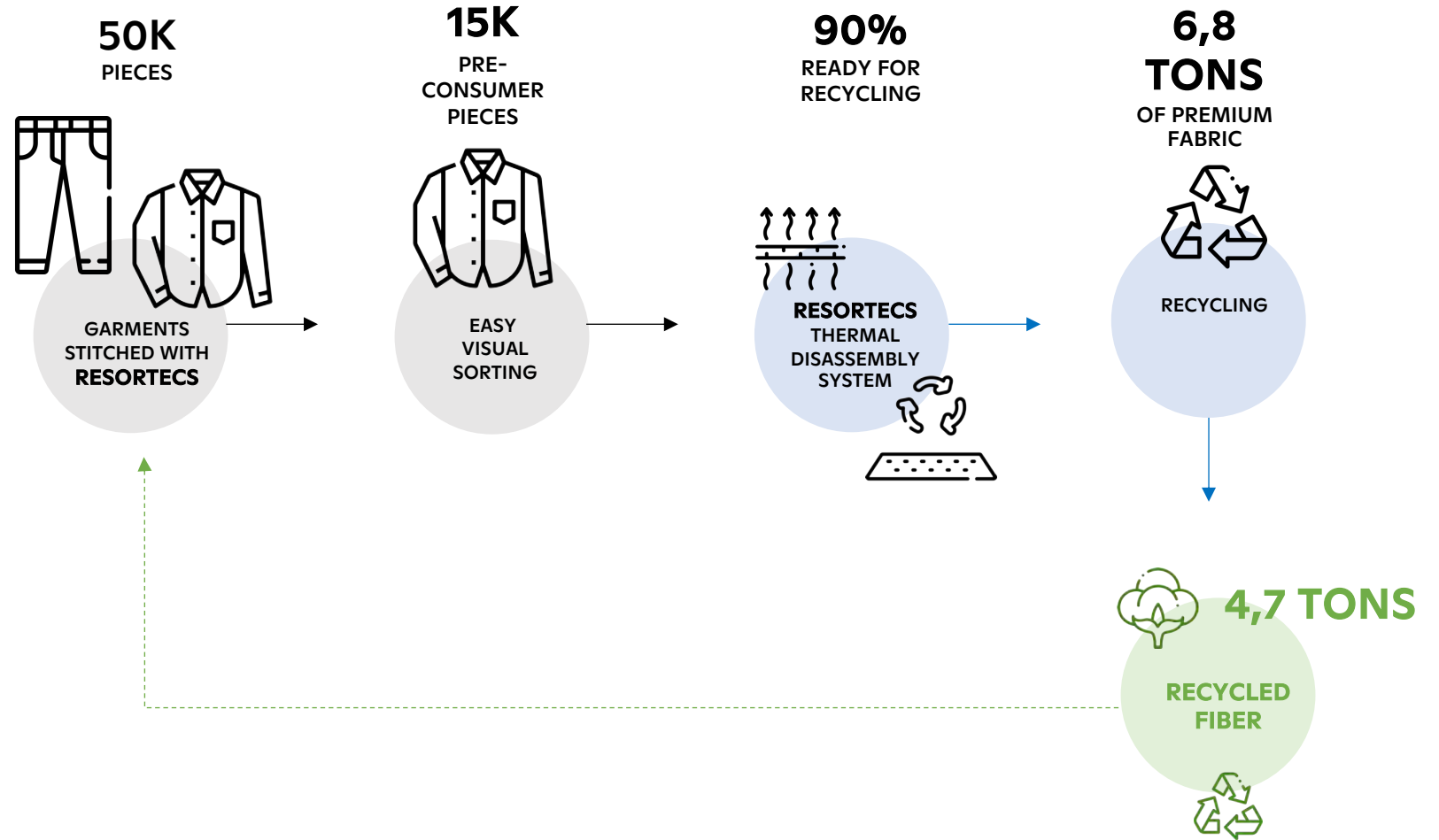
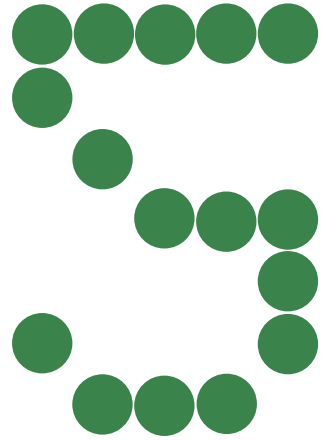
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Recycling made  
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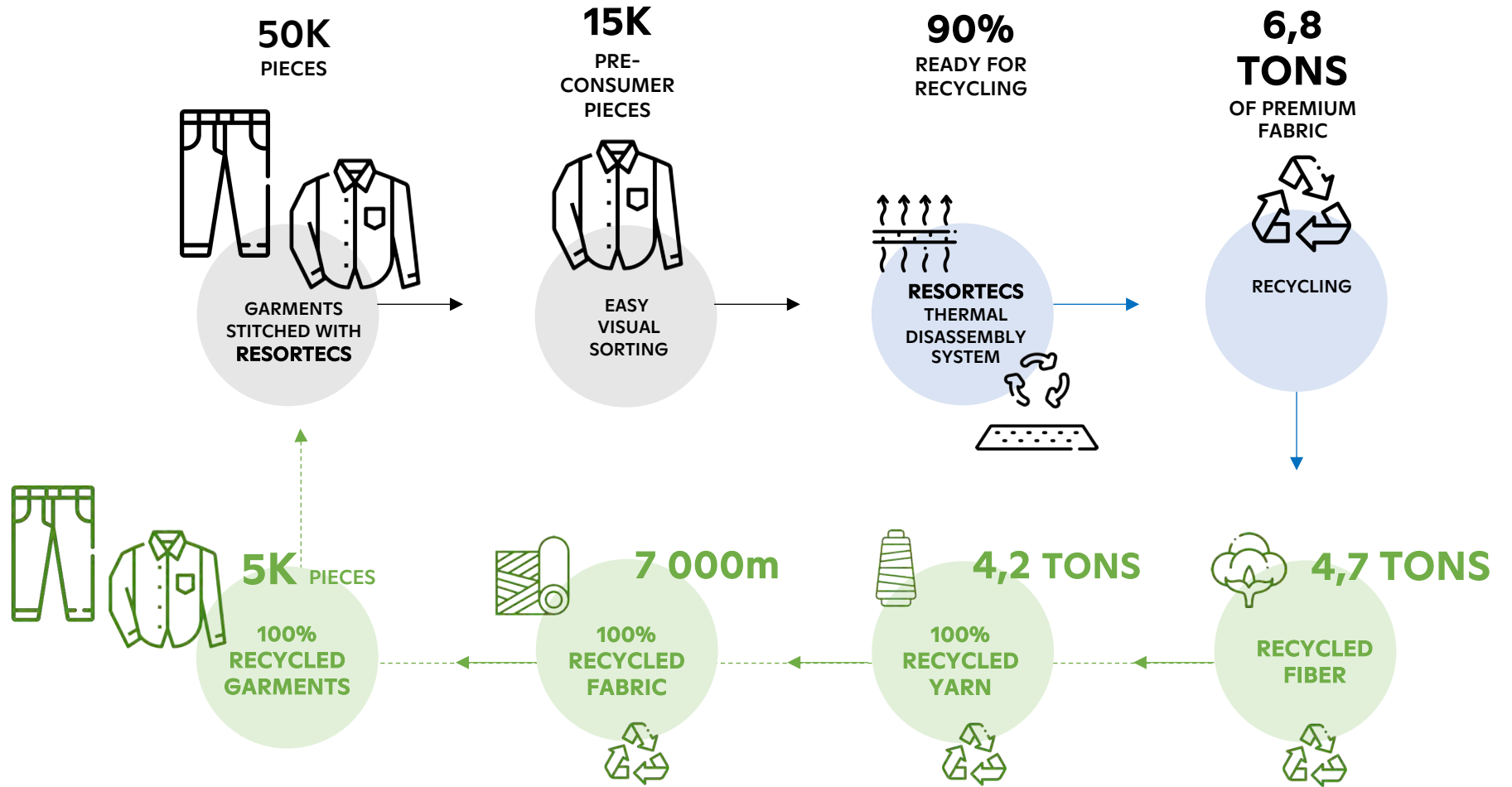
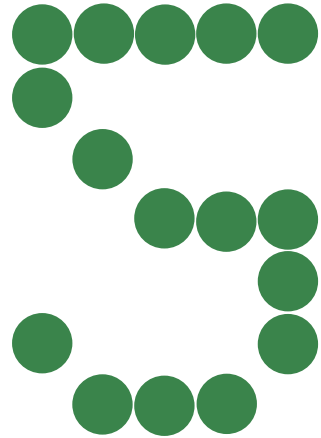
\*Considering 500g per garment. e.g.: denim jeans.



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## The results:

- **Economic impact: Get up to 5 000 recycled products, with higher marketing value, out of 15 000 unsold products that would end up landfilled or incinerated.**

**Environmental impact: 80% less waste, 98% less water and 50% less CO<sub>2</sub>.**



# An award-winning team supported by international advisors

Combining senior expertise in engineering, design and environmental science.

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**Scan to download  
our externally  
reviewed LCA**



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Easy.



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

#M FOUNDATION



Global Change Award

AN INNOVATION CHALLENGE BY H&M FOUNDATION

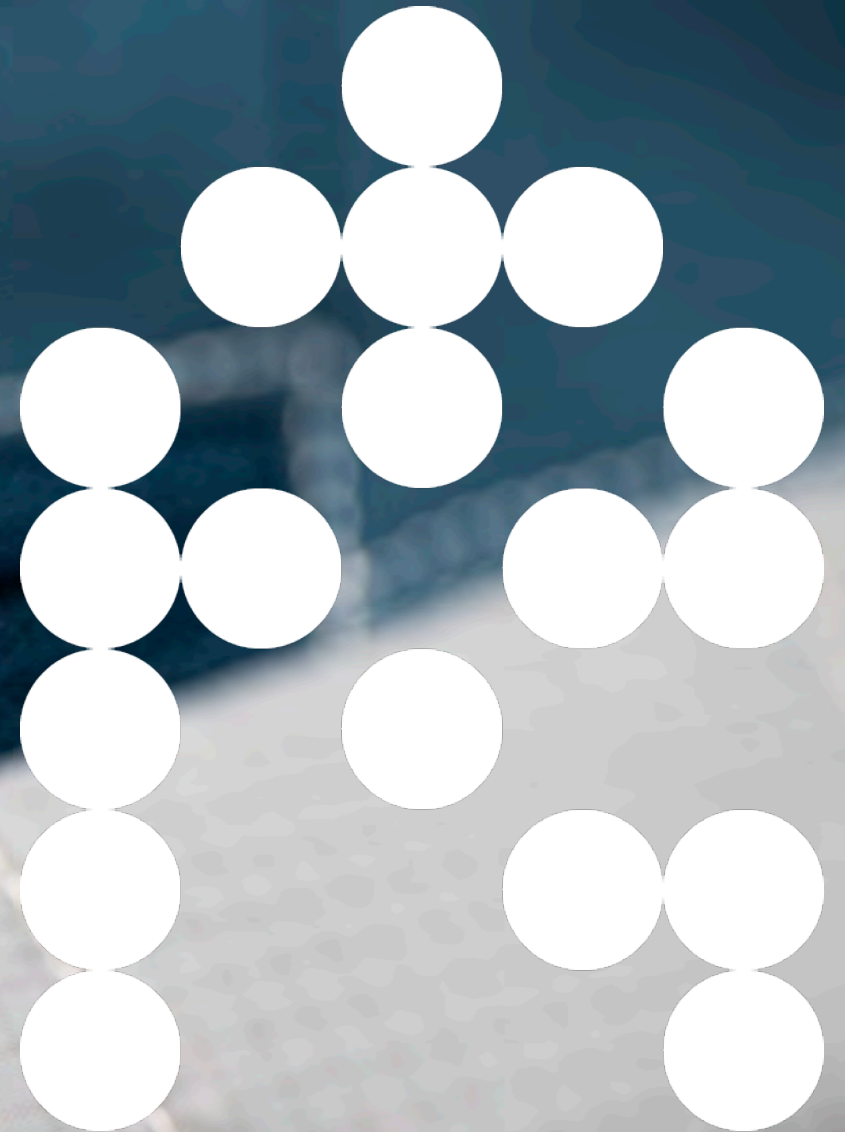
Winner 2018

VOGUE

Bloomberg

Forbes

FAST  
COMPANY



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