

**SaaS platform for the
textile industry to redefine
waste as resource**



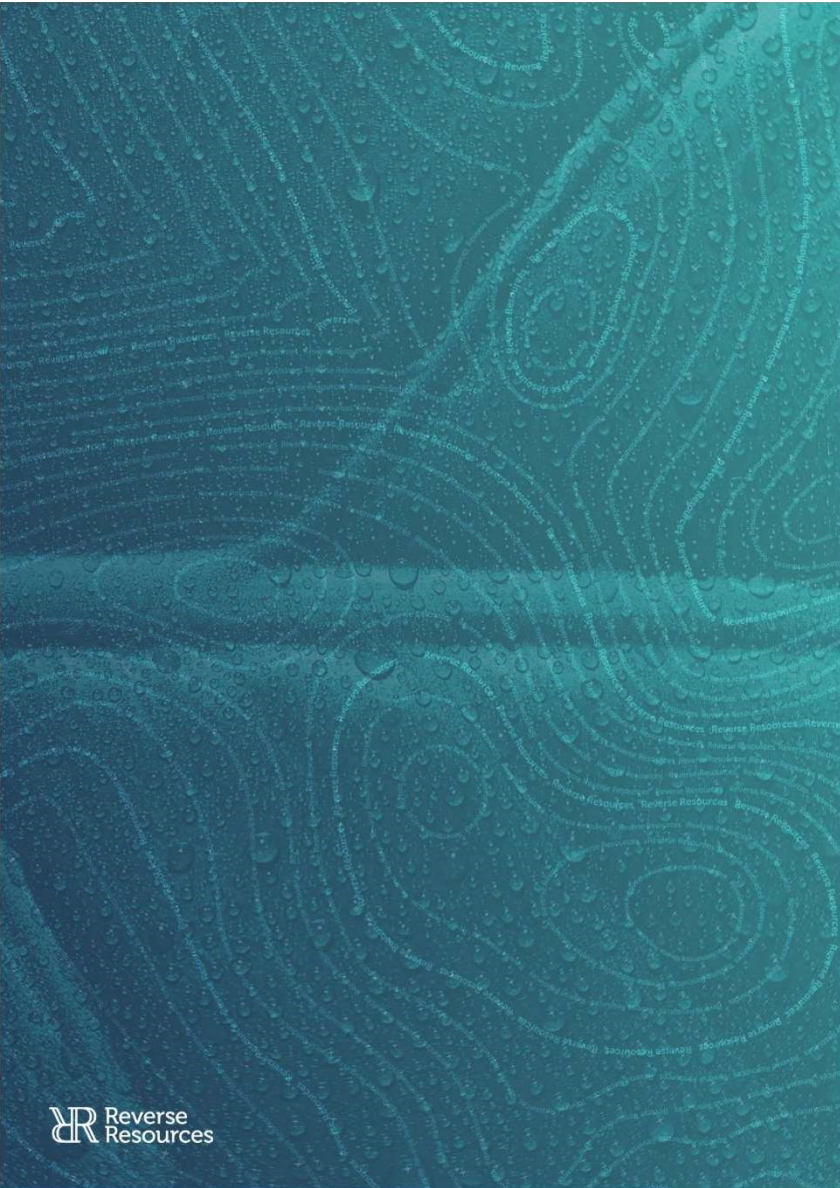
Global Change Award

Winner 2015



LEVI STRAUSS & CO.
THE COLLABORATORY





54 BRANDS
focus on Europe



Circular Fashion Partnership
21 BRANDS
focus on Bangladesh &
Indonesia



4 BRANDS
focus on India



6 BRANDS
focus on Morocco,
Tunisia & Egypt



focus on India



7 CORPORATE PARTICIPANTS
focus on Vietnam



RR mission:
help fashion brands reduce the use of virgin materials with recycled ones from fashion own waste.

2030 AGENDA GLOBAL FASHION



OVS

BESTSELLER



PULL&BEAR

Bershka

H&M Group

M&S

gina tricot



pimkie

Gray State*



PRIMARK



THE VERY GROUP



> 45% textiles lost from supply chain

Where brands are heading

- ☐ EPR
- ☐ Recycled content in textiles by 2025 / 2030
- ☐ Various projects being initiated

Current Industry Scenario



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NO SUPPLY CHAIN
+
NO DATA
=
NO ACCESS

Waste collection is scattered, there's no central standard or system for data & statistics, no common categorisation, lack of at-source sorting

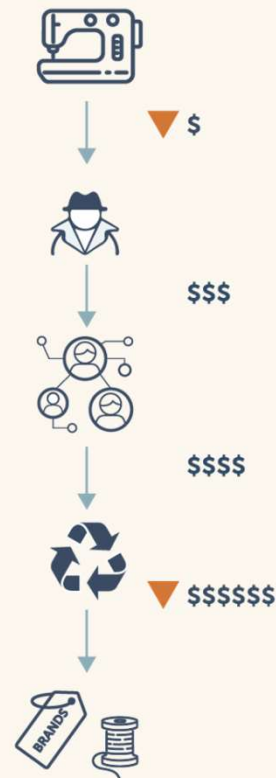
A large network of middle-men providing little to no transparency of the overall textile waste flows.

Recyclers have no source of data and lack access to such textile waste that meets their specific requirements. They overspend >30% on accurate sourcing and quality checking.

Brands fully depend on that supply chain and have no transparency or tools how to guide their waste to recycling or lower the cost of recycling



Problem: inefficient supply chain of waste



Factories mix up waste, quality of waste drops (80% of waste). They have no market insight what is worth to segregate by composition to maintain the value.

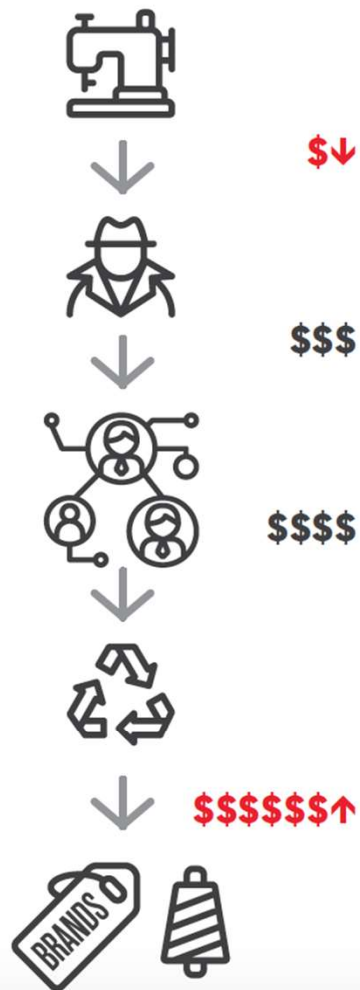
Waste moves through 4-5 middle-men who manually sort and trade it, each adding a % to the price. 90% of the total money stays with middle-men.

Recyclers face problems with quality of waste, low lead times, high prices, no background data. They pay >30% extra for better sources of waste. 15,000+ tonnes/month demand from recyclers mapped out for cleaner and transparent waste flow

What does Reverse Resources do?

CURRENT REALITY

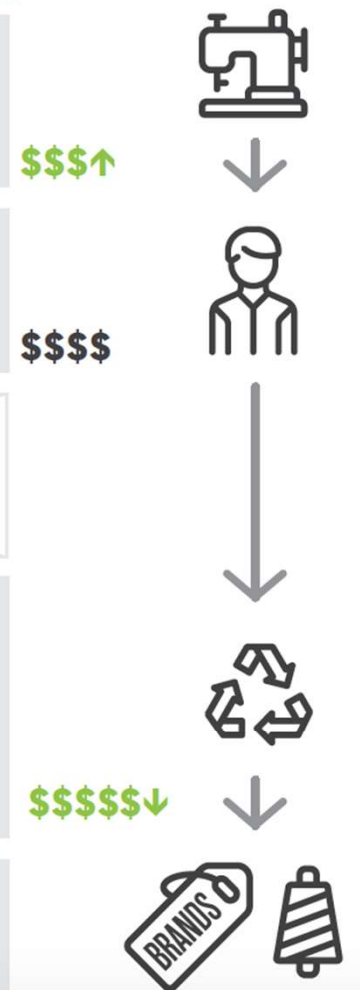
CHALLENGES



- 1 #cutting scraps are unsegregated
#highly contaminated
#lowest value
#zero visibility
- 2 #no value addition
#raising the cost
- 3 #primitive method of segregation
#up to 40% process loss
#moderate level of contamination
#multiple stakeholders further increases cost
- 4 INPUT
#high price, low quality, high risk
(zero traceability)
#high operation cost
(lab testing, further cleaning & segregation)
OUTPUT
#poor to moderate quality material
#high price
- 5 #no overview
#low quality
#high price

REVERSE RESOURCE SOLUTION

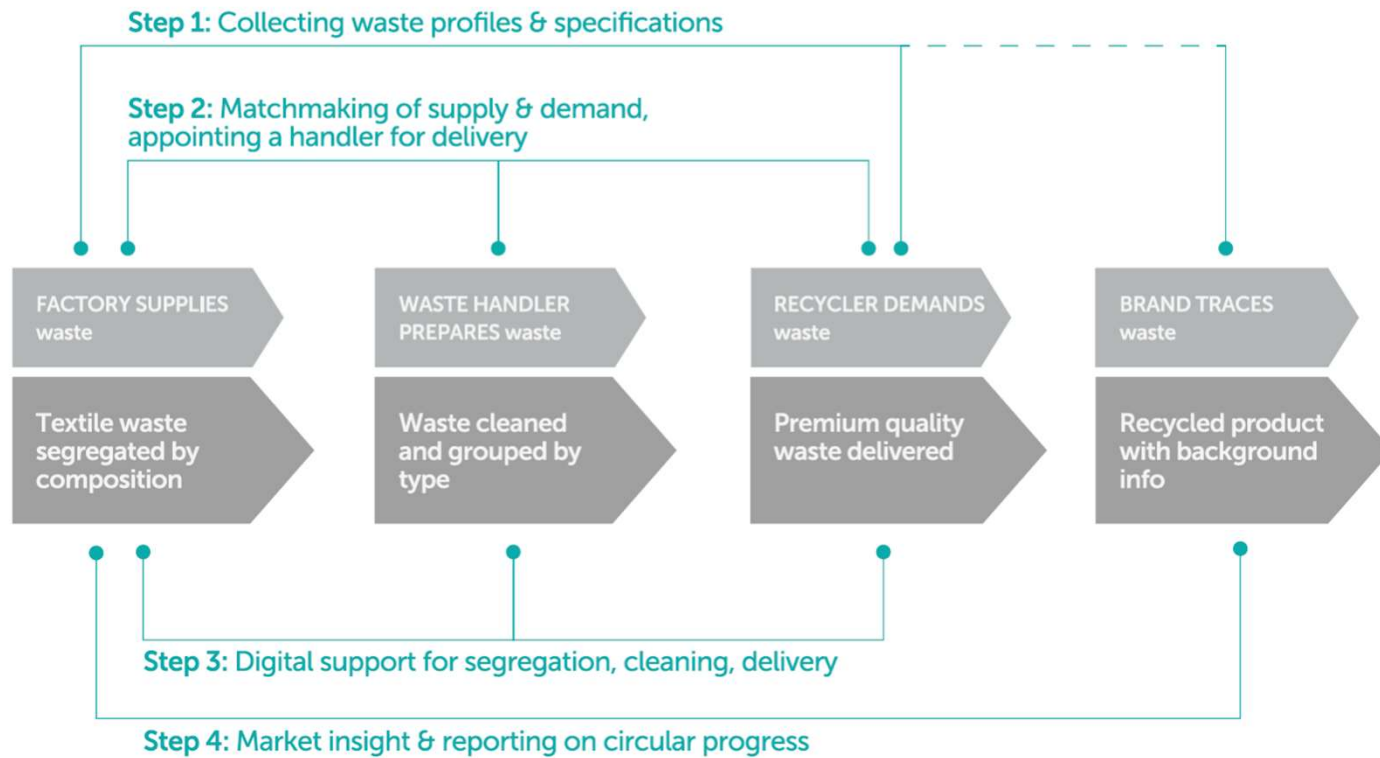
OPPORTUNITY



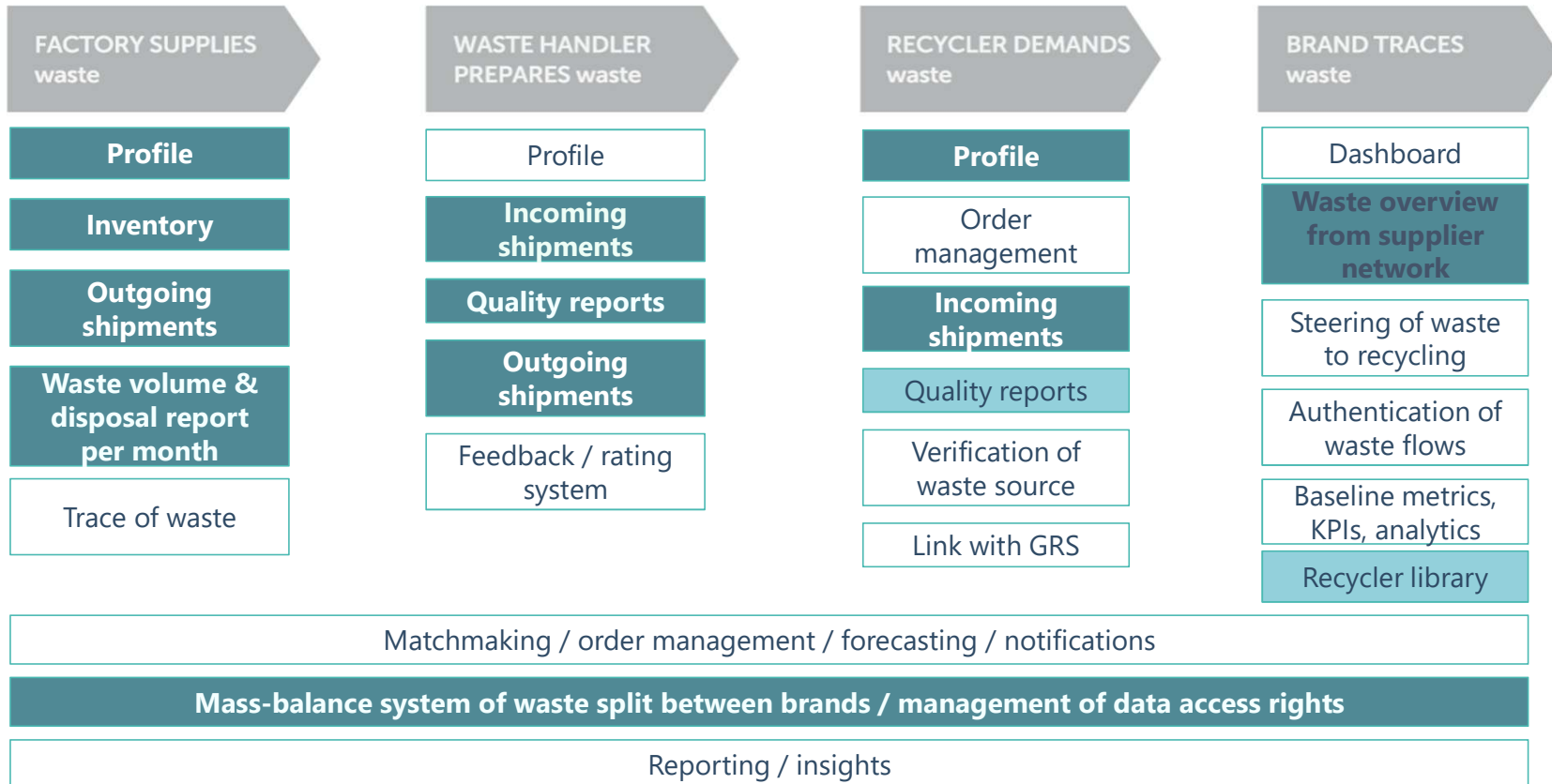
- 1 #segregated at source
#contamination free
#higher value
#trace to recycling
#buy back opportunity
- 2 #1-stop solution for collection, storage and shipping
#high value increase for moderate price increase
#part of a transparent supply chain
- 3 INPUT
#moderate price
#high quality
#full traceability
#minimum operation cost
OUTPUT
#high quality material
#moderate price
- 4 #scalable highest quality raw material
#cost not exceeding virgin material
#full traceability – minimum risk
#huge environmental footprint reductions

RR SaaS SOLUTION

Creating 360° transparency



Functionality on RR platform



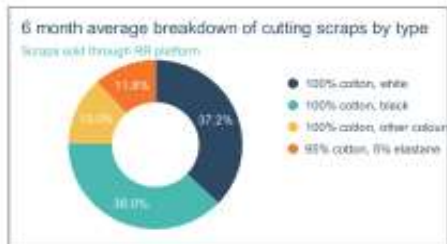
Circularity Report



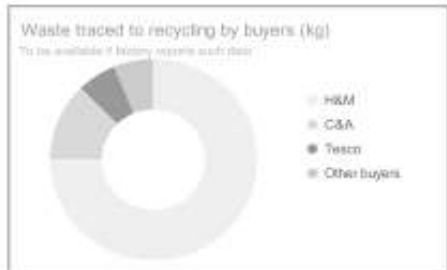
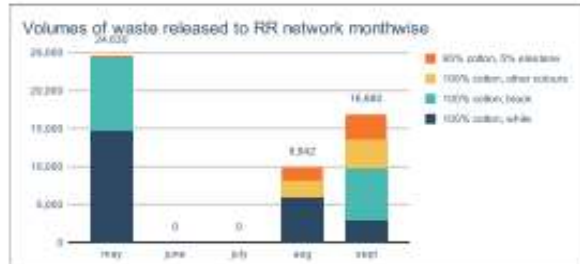
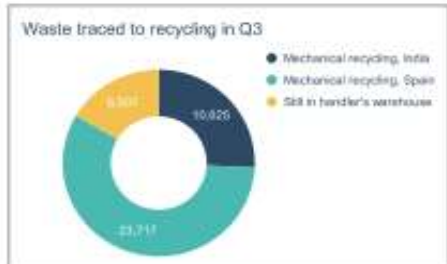
CIRCULARITY REPORT - Q3 2020

Fakir Knitwear

Total earned from sales of scraps: **707,128 BDT**
Average per kg: **26.4 BDT/kg**



July - September 2020	Total given to handler (kg)	Sent to recycling (kg)	Still in handler's warehouse	Contamination with other fibers	Process loss	% of contamination
100% cotton, white	24,207			435	55	2.02%
100% cotton, black	6,807	6,807	6,807			0.00%
100% cotton, other colours	5,645		0		67	1.19%
95% cotton, 5% elastane	5,102		0	37	18	1.07%
Total	41,761	6,807	6,807	472	140	1.46%



Certificate



Dashboard: Brand X

Total network
February 2021

CURRENT WASTE IN STOCK

43,978 kg

FACILITIES

11

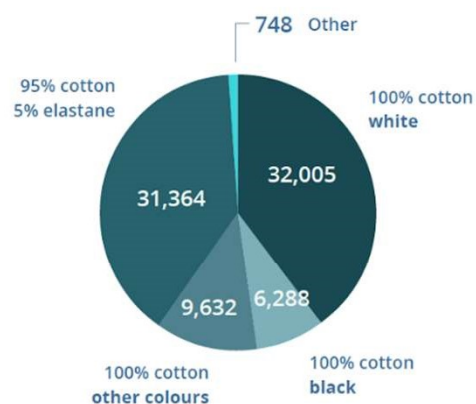
TOTAL WASTE LAST MONTH

62,714 kg

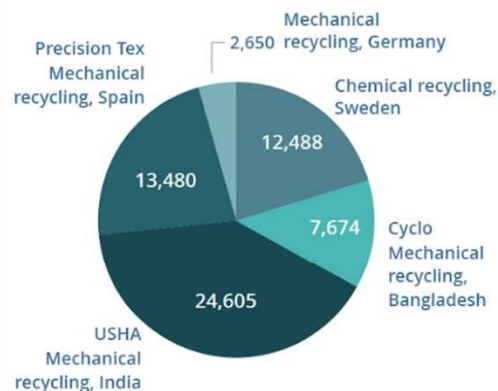
TRACED

41,420 t

Average breakdown of cutting scraps by type



Waste traced to recycling in February 2021



Tracing map
February 2021



Stock



Reports



Verifications



Network

Baseline for KPIs:

Monthly overview of waste volumes & disposal methods

Monthly waste volume & disposal report

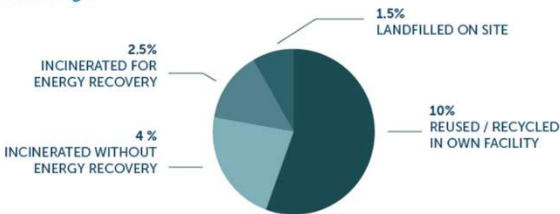
March 2021

Bangladesh

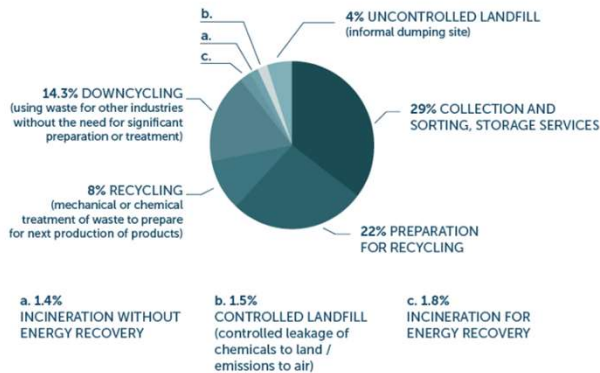
data of 312 facilities aggregated

COMPOSITION	TOTAL WASTE GENERATED (balance)
100% cotton	484,511
97% cotton / up to 3% elastane	98,103
95% cotton / up to 5% elastane	97,972
80% cotton / up to 20% elastane or other fibers	48,449
CVC - 65% cotton, 35% polyester	452,383
TC - 65% polyester, 35% cotton	202,111
PC - other combination of poly-cotton, no elastane	190,720
Other cotton-Poly-Elastane mix	179,329
100% Polyester	167,938
80% polyester / up to 20% elastane or other fibers	156,548
100% Nylon / Polyamide (PA)	145,157
50% Nylon / Polyamide cotton mixes	133,766
100% Viscose / Tencel / Modal	122,375
65% Viscose / 35% Cotton	110,984
100% Cellulosic blend	99,593
100% Wool / Cashmere	88,202
100% Linen	65,421
100% Lycra	54,030
100% Polypropylene (PP)	42,639

18%
Inhouse usage



82%
Passed over to 3rd party





Waste Trace Report - 2021

RR Full Network

Total waste registered on the platform

273,921

Number of factories segregating:

13

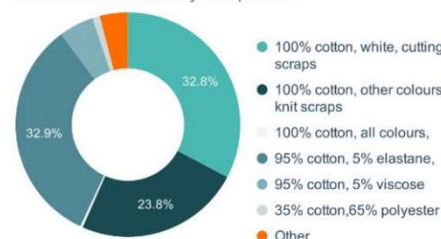
Waste reported per factory, average last month (kg):

12,756

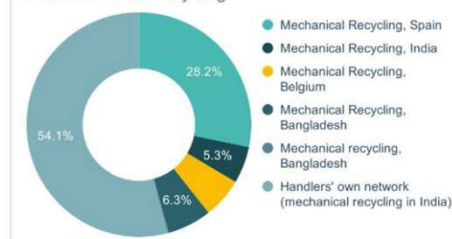
Waste traced to RR recyclers:

50.5%

Breakdown of waste by composition



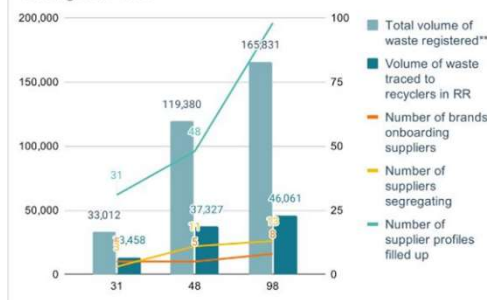
Waste traced to recycling



KG	Volume in inventory at month-end	Total given to handler	Volume stored at waste handler	Traced to recycling	Traced to waste handler's network*
100% cotton, white, cutting scraps	34,312	55,413	0	49,547	5,865
100% cotton, other colours, knit scraps	22,748	42,563	3,199	19,130	20,234
100% cotton, all colours, woven scraps	1,000	0			
95% cotton, 5% elastane, all colours	2,891	87,229	0	22,274	64,955
95% cotton, 5% viscose	13,750	0			
35% cotton, 65% polyester	2,891	0			
Other	2,411	8,715	0	6,940	1,775
Total	80,001	193,920	3,199.0	97,891.3	92,830
		100.0%	1.6%	50.5%	47.9%

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Changes in time



** Incl. waste currently still in suppliers' warehouses

Waste trace report: tracking movement of waste from source to recycling

Steering of waste flows :

Factory status updates,
live inventory overview,
recyclers' orders
overview, etc.

Waste traced from facilities: **Brand x**

February 2021



	Profile filled up	Shortlisted & onboarded	Total waste registered last month (kg)	Volume of waste traced out of factories (kg)	Volume in inventory at month-end
1 Meditex Ind Ltd	x				
2 ODESSA FASHION LTD	x				
3 SPACE SWEATER LTD	x				
4 TITAS SWEATER IND LTD	x				
5 SIRAJGONJ FASHIONS LTD	x				
6 Ratul Knitwears Ltd.	x	x	4,525	0	4,525
7 Ratul Fabrics Ltd.	x	x	3,385	0	3,385
8 ASROTEX LTD	x				
9 SAKURA DYEING AND GARMENTS LTD	x	x	6,748	4,546	2,202
10 SB Style	x	x	7,329	3,260	4,069
11 Impress	x	x	4,877	0	4,877
Other facilities producing for the brand, but not listed among monitored facilities	15	4	14,351	11,235	9,412
Total	26	9	26,864	7,806	19,058

Example report from
RR platform for
brands:
monthly overview of
waste volumes &
disposal methods across
all supplier network



From: Jan 2021

To: Feb 2022

Waste volumes and compositions

Brand: All facilities

Country

Supplier

Total waste registered on
the platform during the
period (kg)

6,780,621

Brand share of the
waste

No data

Share of textile waste
from total waste volume

81%

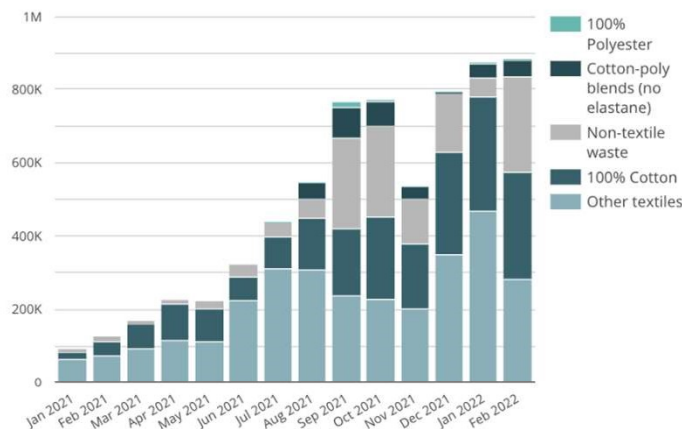
Volume in inventory by end
of the report period (kg)

1,287,240

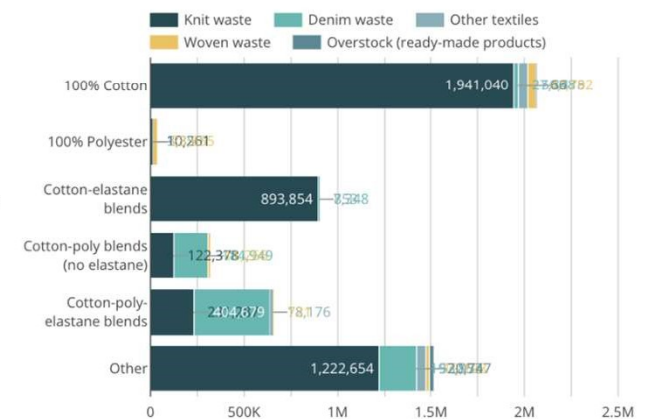
Number of suppliers*

106

Compositions of all waste registered on RR platform



Key compositions & materials types of textile waste



Waste composition ▾	Waste inventory at the beginning of the period (kg)	Inventory added during the period (kg)	Moved out of factories during the period (kg)	Inventory at the end of period (kg)	Share of textile waste
100% Acrylic (PMMA)	0	0	78	0	100%
100% Lycra / Elastane	0	0	2,520	0	100%
100% Nylon / Polyamide (PA)	0	533	895	533	100%
100% Polyester	0	29,337	7,929	29,337	100%

Your benefits

- ☐ Understanding of waste generation in your supply chain
- ☐ Visibility of waste movement - Traceability
- ☐ Part of the circularity story
- ☐ USP to showcase to brands
- ☐ Circularity report for environmental and HIGG audits
- ☐ Be counted as a sustainable organisation
- ☐ Buy back possibility



**Let's turn fashion circular
together!**

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