

PRODUCTION PROCESS

TEXTILHUS

PART II

DIPLOMA

THEME B

SOLANGE PICCARD

1. COLLECTING

FROM TEXTILSAMMELCONTAINER TO INDUSTRY

2. SORTING

SIX CATEGORIES

3. WASHING

WASHING, DRYING, IRONING

4. DECOMPOSING

FROM CLOTHES TO YARNS

5. REFORMING

FROM YARNS TO FABRIC TO CLOTHES

6. COMMUNICA

PRICING, TAGGING, PHOTOGRAPHING

7. SELLING

IN SITU, POP UP STORE

1

COLLECTING

FROM TEXTILSAMMELCONTAINER TO INDUSTRY

1. COLLECTING

TEXTILE WASTE PER YEAR

1 ZÜRCHER WASTES 10 KG OF CLOTHES PER YEAR.
450'000 ZÜRCHER WASTE 4'500 T OF CLOTHES PER YEAR.

WHERE

2'700 T (60%) ARE COLLECTED IN CLOTHES BINS PER YER.
1800 T (40%) ARE GIVEN AWAY OR THROWN AWAY.

ABOUT CLOTHES BINS

THERE ARE 82 TEXTILSAMMELCONTAINER ARRANGED IN ZÜRICH.
82 CONTAINER CONTAIN 2'700 T PER YEAR.
82 CONTAINER CONTAIN 50 T. PER WEEK.

CAPACITY

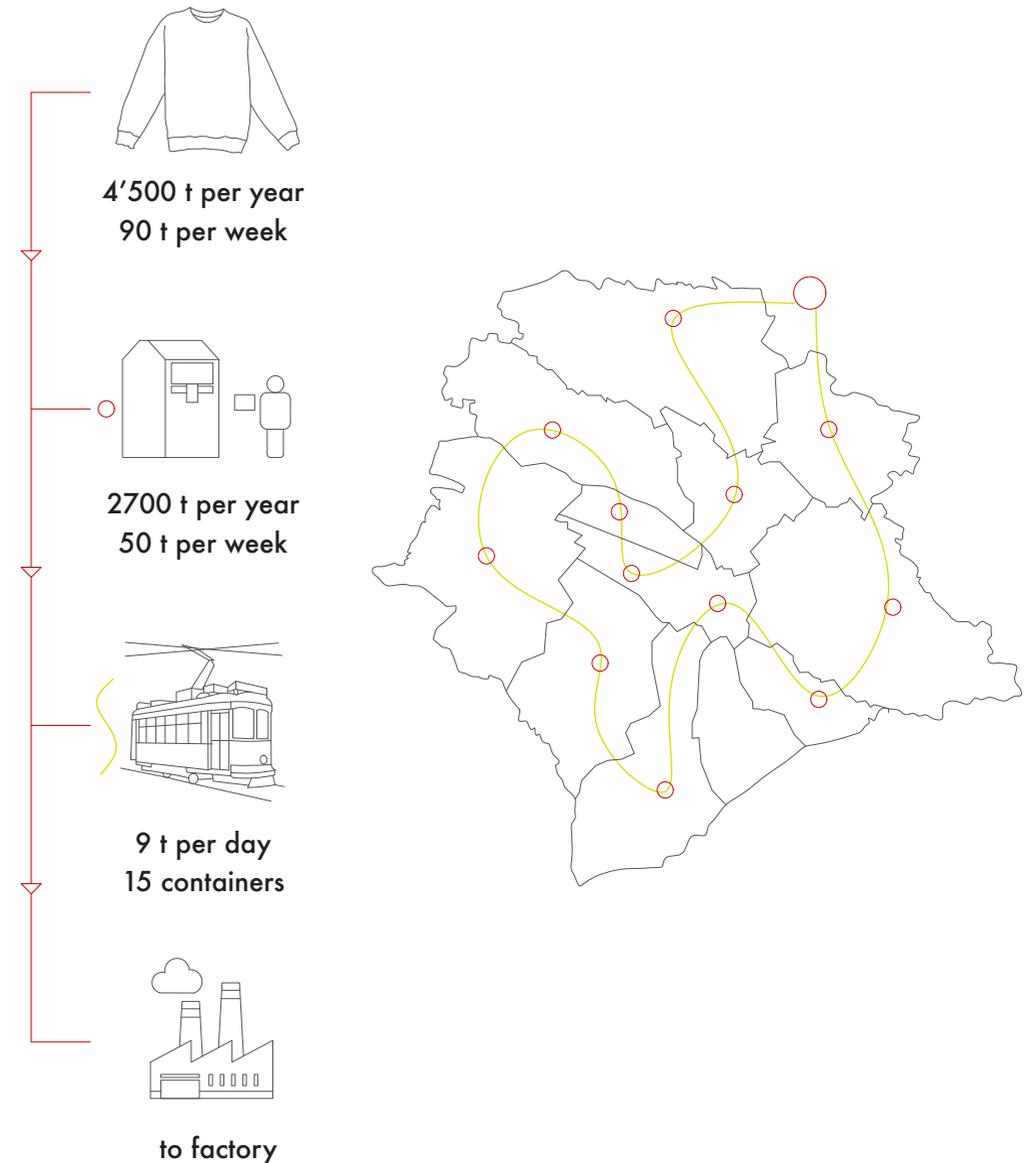
1 CONTAINER COLLECTS 33 T PER YEAR.
1 CONTAINER COLLECTS 330 M³ PER YEAR.
1 CONTAINER COLLECTS 0,6 T PER WEEK.
1 CONTAINER COLLECTS 0,6 M³ PER WEEK.

EMPTYING

82 CONTAINERS ARE EMPTIED ONCE A WEEK.
50 T. OF CLOTHES ARE EMPTIED EVERY WEEK.
15 CONTAINERS ARE EMPTIED ONCE A DAY
9 T. OF CLOTHES ARE EMPTIED ONCE A DAY
90 M³ ARE EMPTIED ONCE A DAY
(MO - FR : 15 CONTAINERS EACH DAY / SA : 7 CONTAINERS)

TRANSPORTING

THE TRAM COLLECTS THE CLOTHES AND BRING THEM TO THE TEXTILE FACTORY
THE TRAM MODEL IS THE 'FLEXITY ZÜRICH'
ITS DIMENSIONS ARE 42,86 M (L) X 2,4M (W) X 3,6 (H)
ITS INTERIOR VOLUME IS OF 350 M³.
THE DAILY VOLUME OF COLLECTED CLOTHES IS OF 9T.
THE DAILY VOLUME OF COLLECTED CLOTHES IS OF 90M³.



1. COLLECTING

MÄNTIG

KREIS 2-3
15 CONTAINERS
9 T.

ZICHTIG

KREIS 9
15 CONTAINERS
9 T.

MITTWUCH

KREIS 7-8-9-12
13 CONTAINERS
7,8 T.

DUNSCHTIG

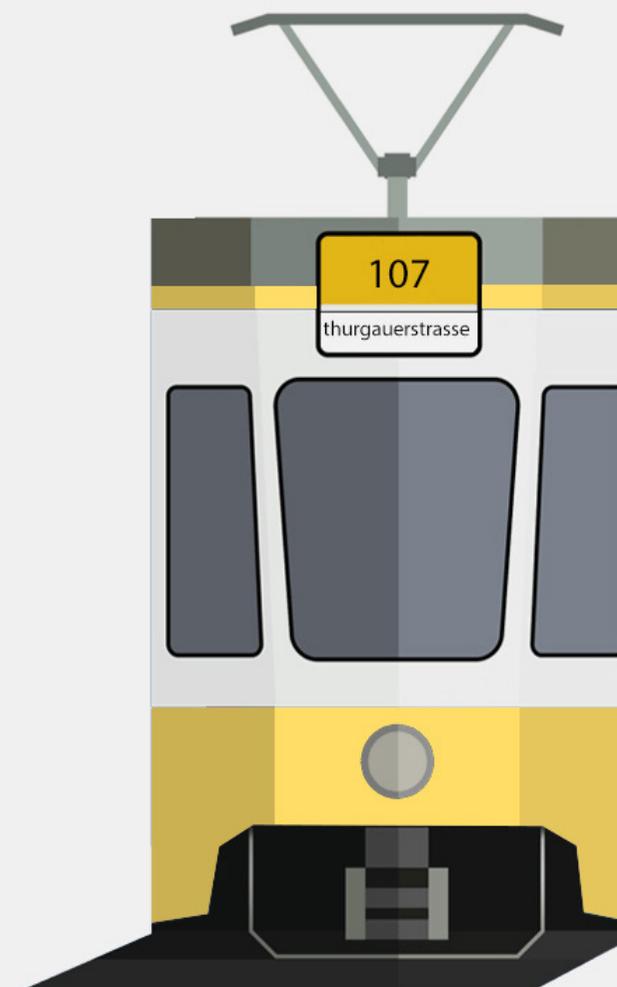
KREIS 11
15 CONTAINERS
9 T.

FRITIG

KREIS 10-11
12 CONTAINERS
7,2 T.

SAMSCHTIG

KREIS 1-4-5-6
12 CONTAINERS
7,2 T.



2

SORTING

SIX CATEGORIES

2. SORTING

9 TONNES OF CLOTHES ARE BROUGHT TO THE FACTORY EVERYDAY. THE CLOTHES ARE FIRST STOCKED IN THE UNDERGROUND FLOOR AND BROUGHT TO THE SORTING AREA.

STOCKING

THE CLOTHES ARE FIRST STOCKED ON THE 6TH FLOOR.

SORTING

THE CLOTHES (9T) ARE BROUGHT TO THE SORTING AREA.
1,8 T. (20%) ARE SHOES. THE GOOD ONES ARE GIVEN AWAY TO THE HEILS ARMEE.
0,9 T. (10%) ARE NOT TEXTILE WASTE AND ARE THROWN AWAY OR RECYCLED.
6,3 T. (70%) ARE SORTED IN 4 CATEGORIES: A-B-C-D

A. VALUABLE CLOTHES

1260 KG (20%) ARE WASHED AND SOLD AS THEY ARE IN THE OUTLET.

B. VALUABLE CLOTHES TO BE REPAIRED OR CUSTOMIZED

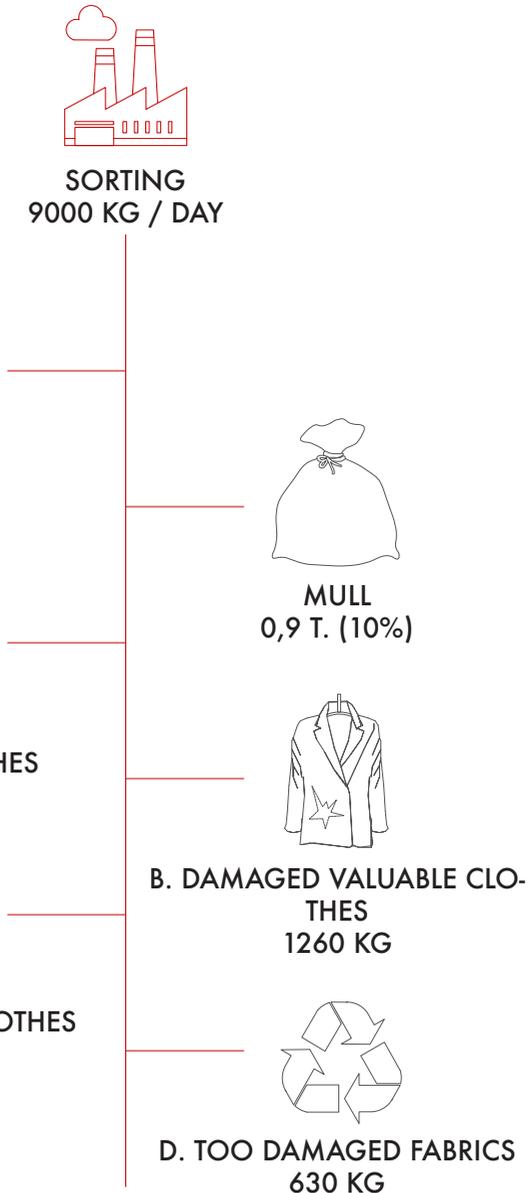
1260 KG (20%) ARE WASHED, REPAIRED OR CUSTOMIZED AND SOLD.

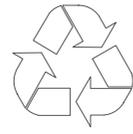
C. VALUABLE CLOTHES TO BE DECOMPOSED AND UPCYCLED INTO A NEW ITEM

3150 KG (50%) ARE DECOMPOSED TO CREATE A NEW ITEM AND SOLD.

D. NON VALUABLE FABRICS

630 KG (10%) ARE GIVEN AWAY TO BUILDING INSULATION FIRMS.

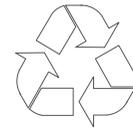
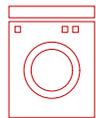




CATEGORY A
1260 KG/DAY

VALUABLE CLOTHES
WASHED & SOLD AS THEY ARE
SOLD IN SITU OR IN POP UP
PRICE RANGE: LOW

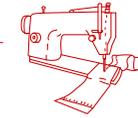
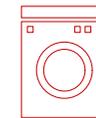
EXEMPLES:
COATS
JACKETS
SKI JACKETS
SUITS
HANDBAGS
SWEATERS (WOOL/
CASHEMIRE)

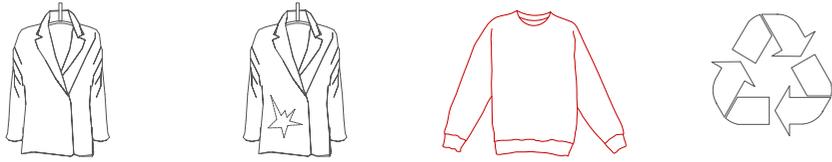


CATEGORY B
1260 KG/DAY

VALUABLE CLOTHES
TO BE REPAIRED OR
CUSTOMIZED
PRICE RANGE: LOW COST

EXEMPLES:
RIPPEN COATS
DAMAGED JACKETS
TORN SUITS
A PILLING BLAZER
BROKEN HANDBAG

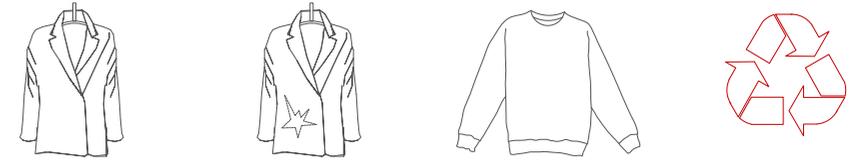
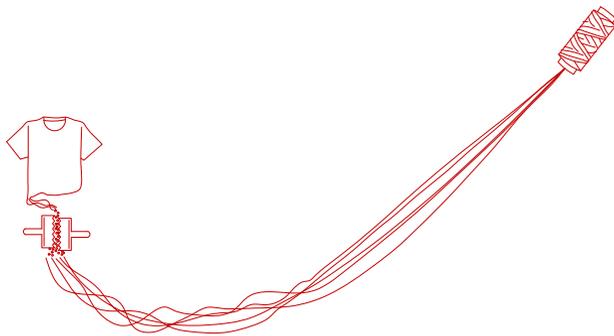
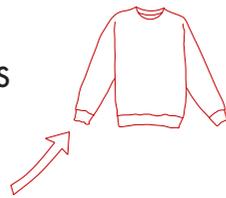




CATEGORY C
3150 KG/DAY

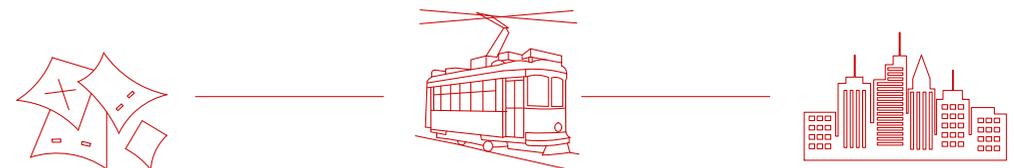
NON VALUABLE FABRICS
DECOMPOSED TO FORM A
NEW ITEM
PRICE RANGE : MIDDLE COST

EXEMPLES:
JEANS
BASICS
UNDERWEARS
SWIMMING SUITS
SPORTWEAR
BED SHEETS
TOWELS



CATEGORY D
630 KG/DAY

TOO DAMAGED FABRICS
TO BE GIVEN AWAY TO
BUILDING INSULATION
COMPANIES
PRICE RANGE: FREE



3

WASHING

WASHING, DRYING, IRONING

3. WASHING

5'670 KG OF CLOTHES ARE WASHED PER DAY.

PROCESS

- 3.1 WASHING PHASE
- 3.2 DRYING PHASE
- 3.3 IRONING PHASE

MACHINES

3.1. INDUSTRIAL WASHING MACHINE

5'670 KG /DAY
45 KG/H CAPACITY
1 DAY OF 8 HOURS : 360 KG
NEED OF MIN 20 MACHINES

3.2.1 FABRIC DRYING MACHINE

1260 KG / DAY
17 KG/H CAPACITY
1 DAY OF 8 HOURS : 136 KG
NEED OF MIN 16 MACHINES

3.2.2 AIR DRYING ZONE

1260 KG / DAY
12,6 M3 / DAY
SPACE NEEDED ~ 10 M3

3.2.3 INDUSTRIAL DRYING MACHINE FOR CLOTHS

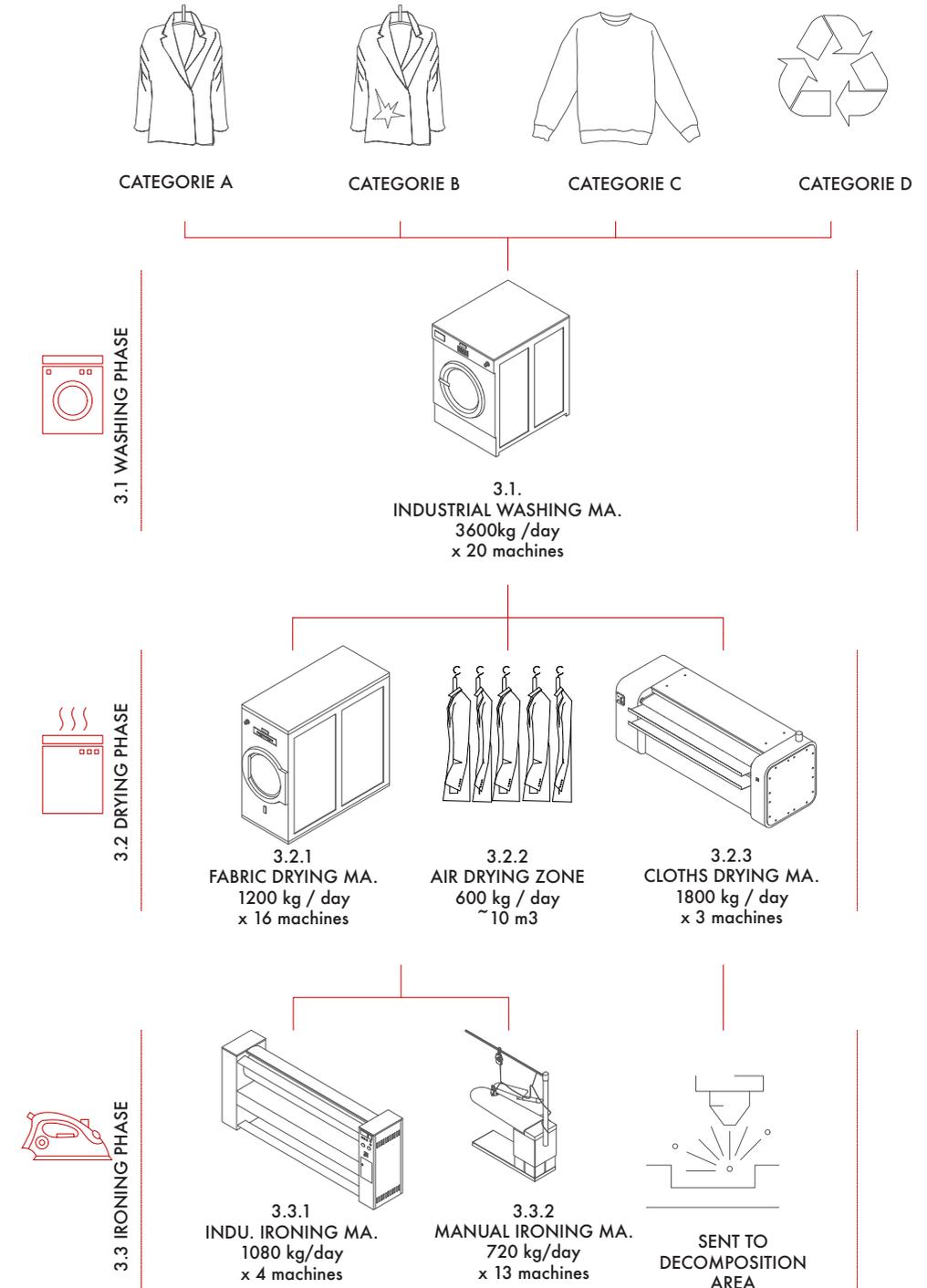
3150 KG/DAY
152 KG/H CAPACITY
1 DAY OF 8 HOURS : 1216 KG
NEED OF 3 MACHINES

3.3.1 INDUSTRIAL IRONING MACHINE

630 KG/DAY
75 KG/H CAPACITY
1 DAY OF 8 HOURS : 600 KG
NEED OF MIN 3 MACHINES

3.3.2 MANUAL IRONING MACHINE

630 KG/DAY
ONE PERSON : 6KG/H
1 DAY OF 8 HOURS : 48 KG
NEED OF MIN 13 MACHINES



4

DECOMPOSING

4. DECOMPOSING

CATEGORY C1 (40%) : 1260 KG

SORTED ACCORDING TO ITEMS:
 > JEANS, SCARFS, BED SHEETS,
 CHECKED PLAID, TOWELS, FUT
 ITEMS, LEATHER ITEMS, CASHMIRE
 ITEMS

PROCESS:

- 4.C1.1. CUTTING OFF THE SEAMS AND ZIPPERS
- 4.C1.2. CUTTING ITEMS INTO FABRICS BANDS
- 4.C1.3. IRONING THE BANDS
- 4.C1.4. FOLDING THE BANDS
- 4.C1.5. LIFTING BANDS TO THE RECOMPOSITION

MACHINES

- 4.C1.1. CUTTING TABLE
 1260 KG/DAY
 12,6 M³/DAY
 TABLE SURFACE: 10M²
- 4.C1.2. CUTTING TABLE
 1260 KG/DAY
 12,6 M³/DAY
 TABLE SURFACE: 10M²
- 4.C1.3. INDUSTRIAL IRONING MACHINE
 630 KG/DAY
 75 KG/H CAPACITY
 1 DAY OF 8 HOURS : 600 KG
- 4.C1.4. FOLDING MACHINE
 630 KG/ DAY
 34M/MIN CAPACITY

CATEGORY C2 (60%) : 1890 KG

SORTED ACCORDING TO MATERIALS:
 >NATURAL FIBERS: COTTON,
 6SCOSE, LINNEN, SILK, WOOL
 >SYNTHETIC FIBERS: POLYESTER,
 ACRYLIC, ELASTHANE
 >MIXED MATERIALS

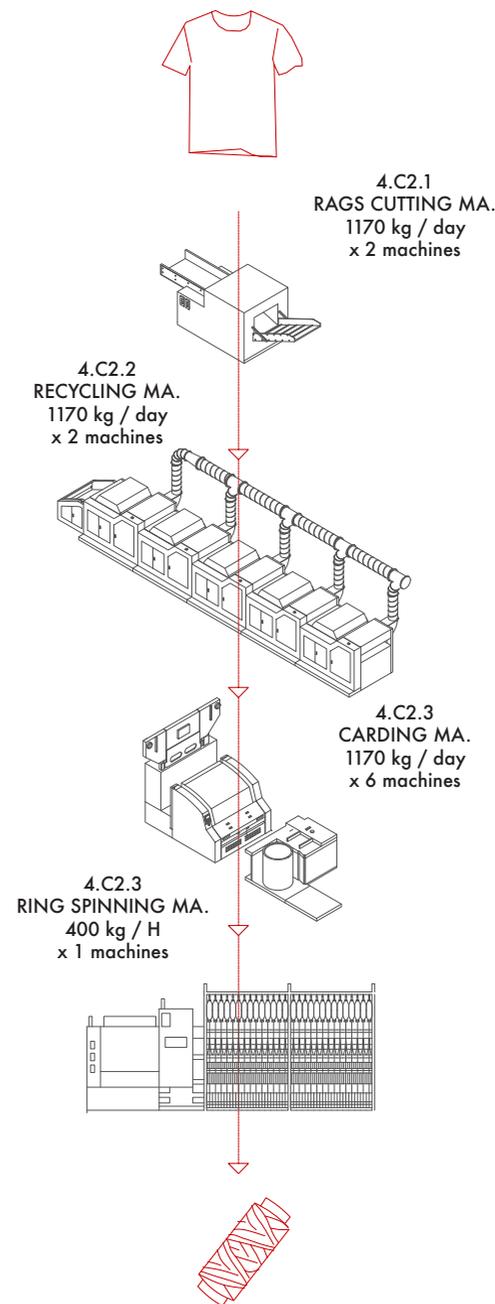
PROCESS:

- 4.C2.1. SHREDDING THE ITEMS INTO TINY PIECES
- 4.C2.2. RECYCLING THE TINY PIECES INTO FIBERS
- 4.C2.3. CARDING THE FIBERS
- 4.C2.4. TURNING THE CARDED FIBERS INTO YARNS
- 4.C2.5. LIFT YARNS TO THE RECOMPOSITION AREA

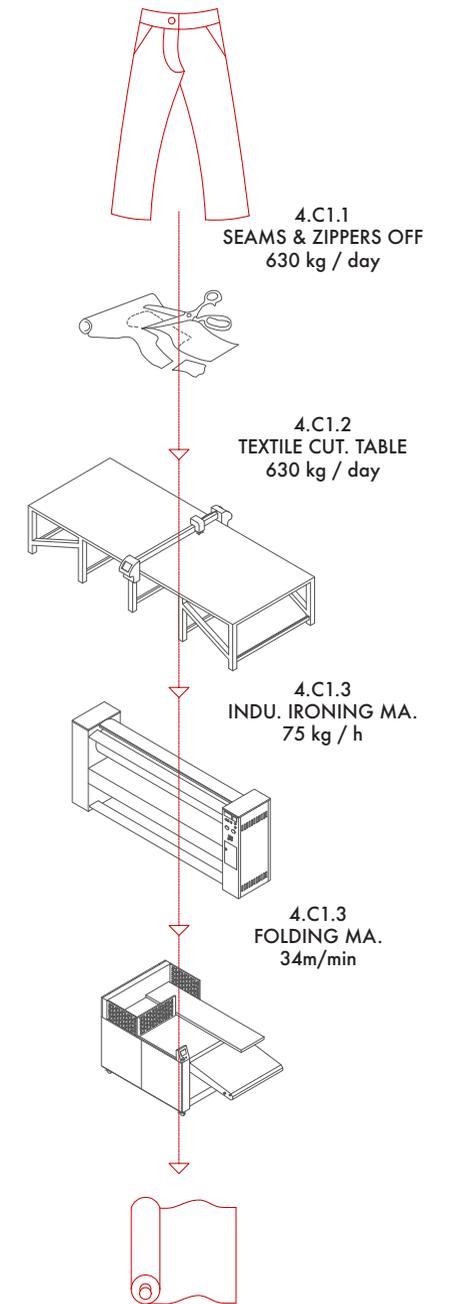
MACHINES

- 4.C2.1 RAGS CUTTING MACHINE
 1890 KG/DAY
 1000 KG/H CAPACITY
 NEED OF 2 MACHINES: NATURAL OR SYNTHETIC FIBERS
- 4.C2.2. RECYCLING MACHINE
 1890 KG/DAY
 850 KG/H CAPACITY
 NEED OF 2 MACHINES: NATURAL OR SYNTHETIC FIBERS
- 4.C2.3. CARDING MACHINE
 1890 KG/DAY
 225 KG/H CAPACITY
 NEED OF 6 MACHINES: 3 NATURAL OR 3 SYNTHETIC FIBERS
- 4.C2.4. RING SPINNING MACHINE
 3150 KG/ DAY
 400 KG/H CAPACITY
 NEED OF 1 MACHINE

CATEGORY C1 (40%) : 1260 KG



CATEGORY C2 (60%) : 1890 KG



5

REFORMING

FROM YARNS TO FABRICS TO CLOTHES

5. REFORMING

PROCESS:

- 5.1 NEW ITEMS ARE DESIGNED IN THE CONCEPTION AREA
- 5.2 USE OF BANDS (C1) OR YARNS (C2) TO MAKE A NEW FABRIC
 - 5.2.1. WEAVING YARNS TO MAKE A NEW FABRIC
 - 5.2.2. STRATFYING THE NEW FABRIC
 - 5.2.3. WINDING THE NEW FABRIC, or
 - 5.2.4. FOLDING THE NEW FABRIC
- 5.3. CUTTING FABRIC
 - 5.3.1 CUTTING TEXTILE TABLE
 - 5.3.2 LASER TEXTILE CUTTING MACHINE
 - 5.3.3 FABRIC SLITTING MACHINE
- 5.4 SEWING ITEM
 - 5.4.1 SEWING MACHINE
- 5.5 IRONING ITEM
 - 5.5.1 IRONING MACHINE
- 5.6 SENDING TO COMMUNICATING AREA

MACHINES:

5.2.1. WEAVING MACHINE
 3150 KG/ DAY
 700 SETS/ MONTHS
 MIN 2 MACHINES

5.2.2. STRATIFICATION MACHINE
 UP TO 3150 KG/ DAY
 30M/MIN CAPACITY
 NEED OF ONE MACHINE

5.2.3. FABRIC WINDING MACHINE
 UP TO 3150 KG/ DAY
 0-30M/MIN

5.2.4 FABRIC FOLDING MACHINE
 UP TO 3150 KG/ DAY
 34M/MIN

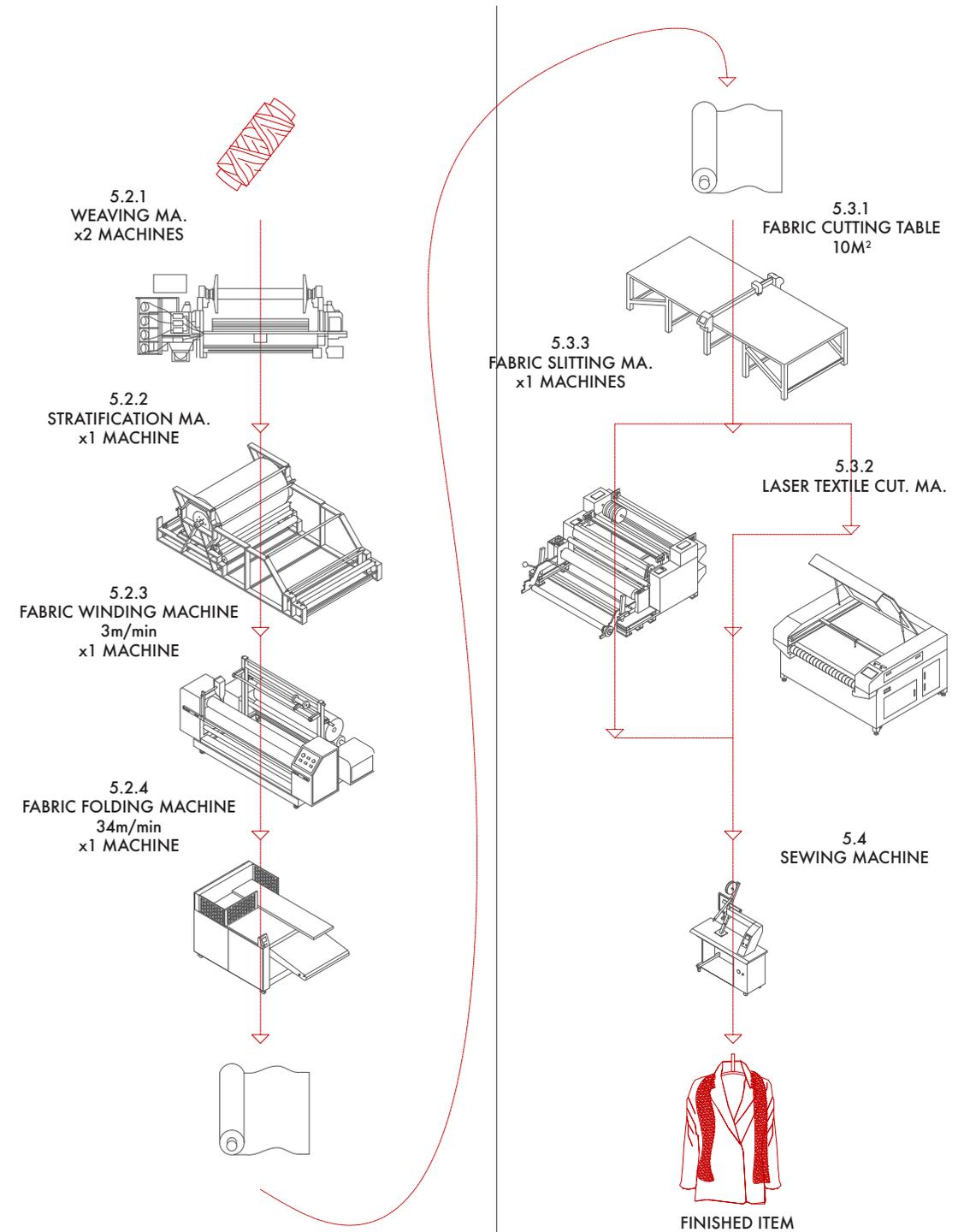
5.3.1 FABRIC CUTTING TABLE
 UP TO 3150 KG/DAY
 10M²

5.3.2 LASER TEXTILE CUTTING MA-
 CHINE
 UP TO 3150 KG/DAY
 30 M/MIN CAPACITY CAPACITY

5.3.3 FABRIC SLITTING MACHINE
 UP TO 3150 KG/DAY
 90 M/MIN CAPACITY
 NEED OF ONE MACHINE

5.4.1 SEWING MACHINE
 UP TO 3150 KG/DAY

5.5.1 MANUAL IRONING
 MACHINE
 UP TO 3150 KG/DAY
 ONE PERSON : 6KG/H



6

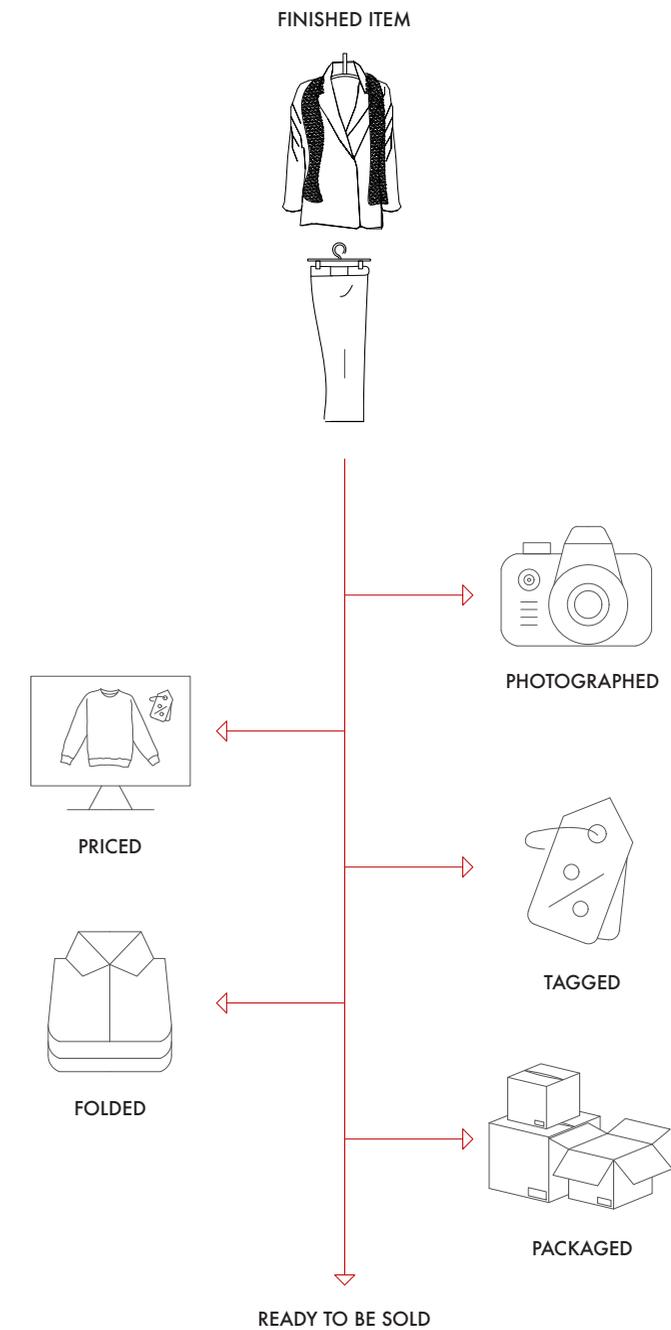
COMMUNICATING

PHOTOGRAPHING, TAGGING, PACKAGING

6. COMMUNICATING

PROCESS:

- 6.1. FINISHED ITEM IS PHOTOPHED AND UPLOADED ON THE SERVER
- 6.2. THE ITEM IS STUDIED BY THE COMMUNICATION TEAM. A PRICE IS ESTABLISHED.
- 6.3. THE ITEM IS TAGGED AND READY TO BE SOLD.
- 6.4. THE ITEM IS FOLDED AND IRONED IF NEEDED.
- 6.5. THE ITEM IS PACKAGED IF NEEDED.
- 6.6. THE ITEM GOES TO THE STOCKING AREA



7

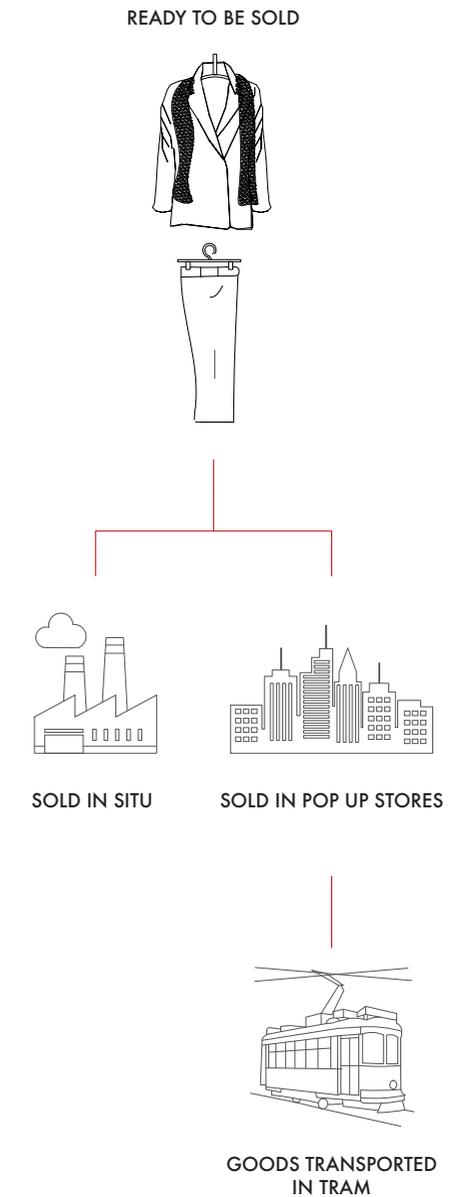
SELLING

IN SITU / IN POP UP STORES

7. SELLING

PROCESS:

- 7.1. THE ITEM IS READY TO BE SOLD.
- 7.2. IT IS BEING STOCKED IN THE UNDERGROUND FLOOR
- 7.3. IT IS SOLD IN THURGAUERSTRASSE IN SITU.
- 7.4.1 OR IT IS SOLD IN A POP UP STORE IN ZÜRICH.
- 7.4.2 IF SOLD IN A POP UP STORE, IT IS TRANSPORTED BY THE TRAM.



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TEXTILHUS

POP-UP VIADUKT

5 - 23 DEZEMBER 2020

107
Thurgauerstrasse

OFFENZEIT:
Montag-Freitag: 11h - 20h
Samstag: 10h - 19h

VIADUKTSTRASSE 55
8005 ZÜRICH

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8005 ZÜRICH

