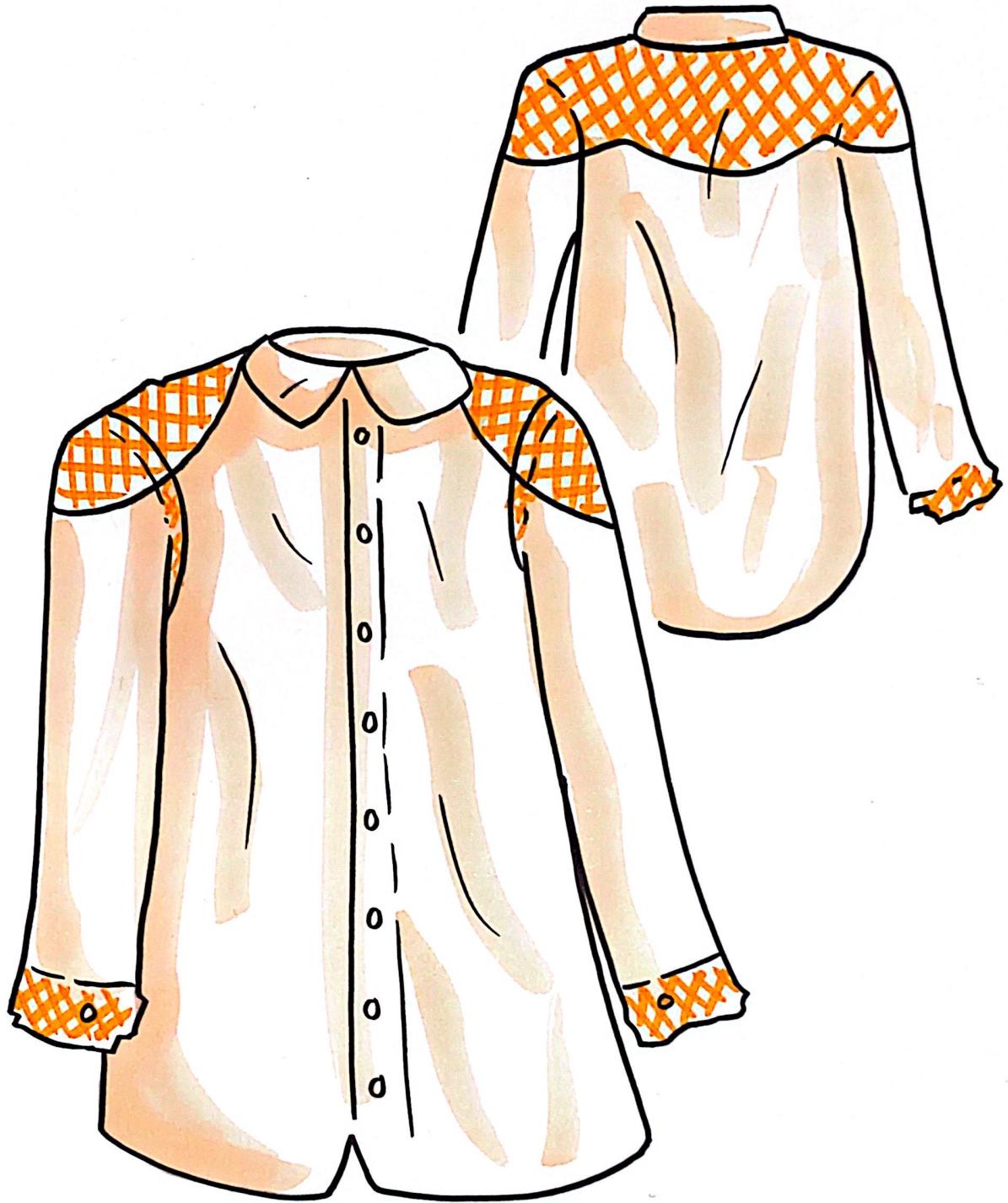
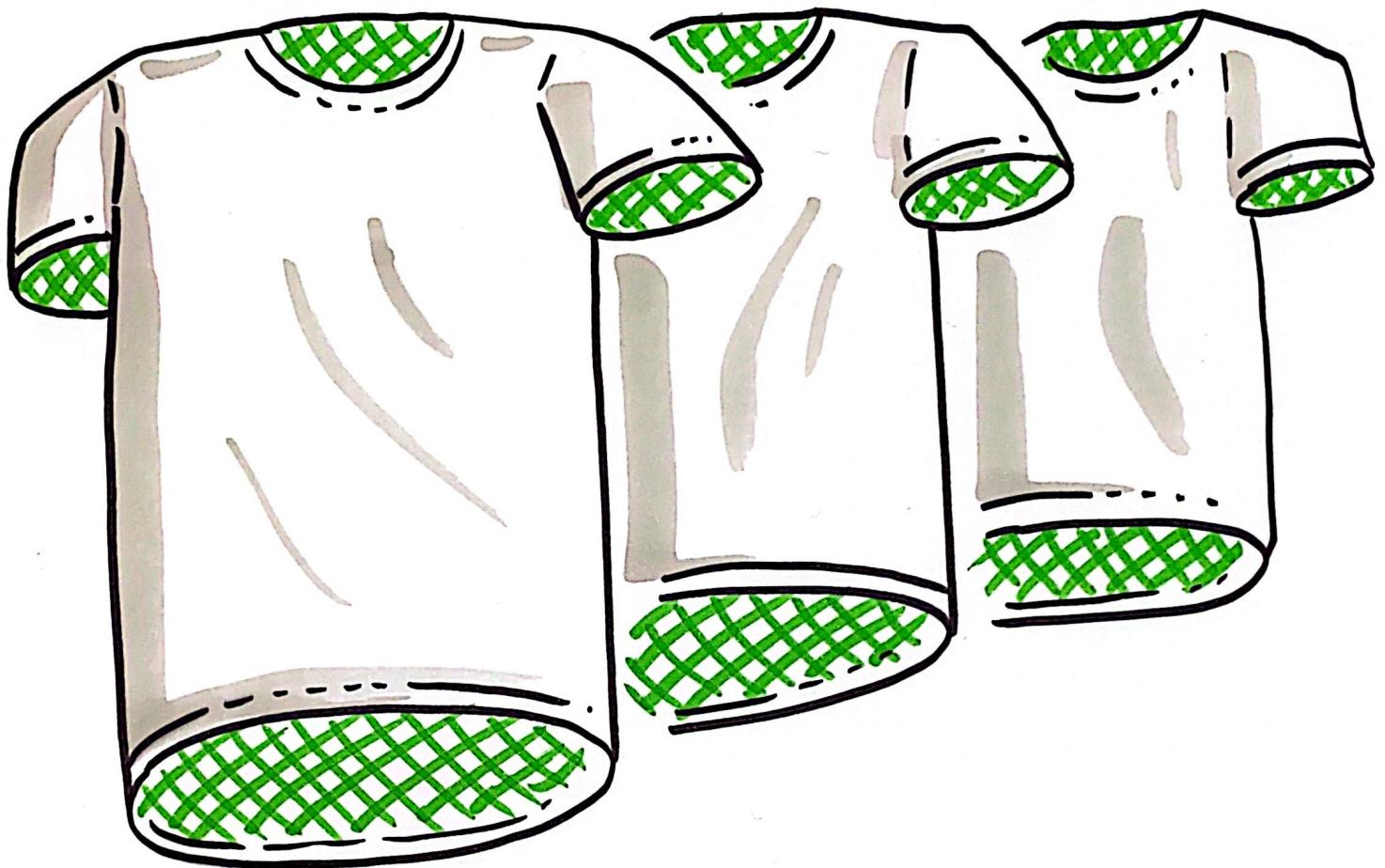


WAYS to MAKE a FINER
3D REPAIR/ REINFORCEMENT,
or USING COLOURS that
MATCH GARMENT...



SILK - eg. 'THREADBARE on SHOULDERS,
SEAMS etc.

"IS THERE A WAY TO DO 'INVISIBLE'
REINFORCEMENT?

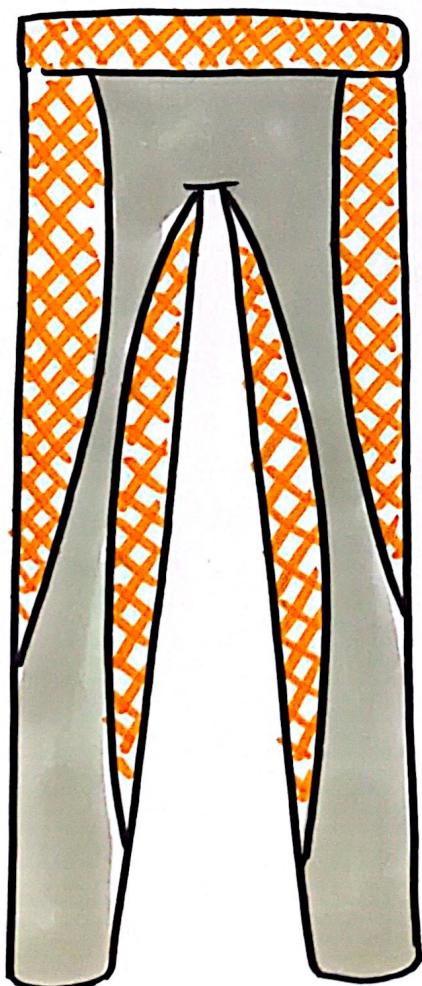


REINFORCEMENT CONSIDERED
at MANUFACTURE STAGE -
EG REINFORCEMENT INSIDE
the GARMENTS

INTERACTIVE INTERFACES/ CATALOGUES



TO EXPLORE the
OPTIONS of REPAIR
for YOUR GARMENT...



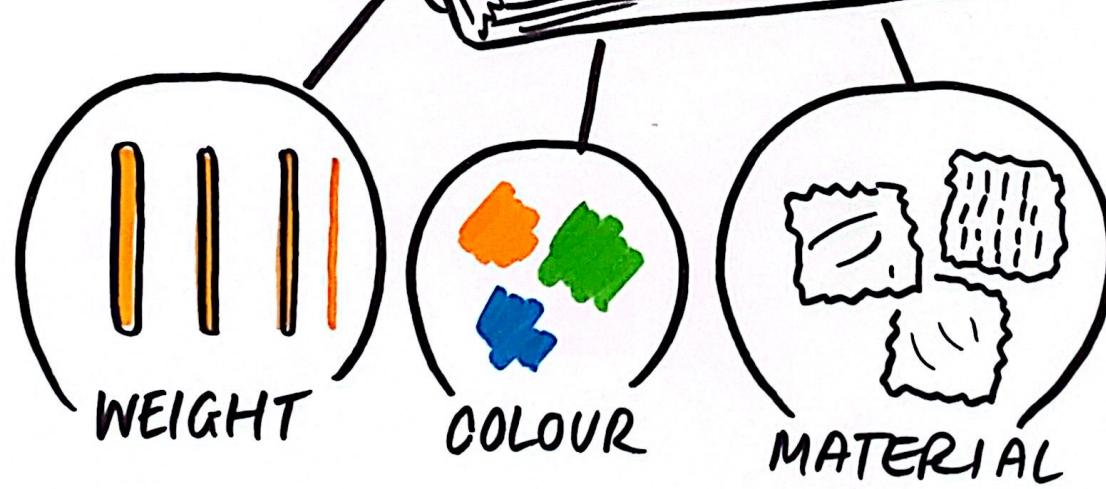
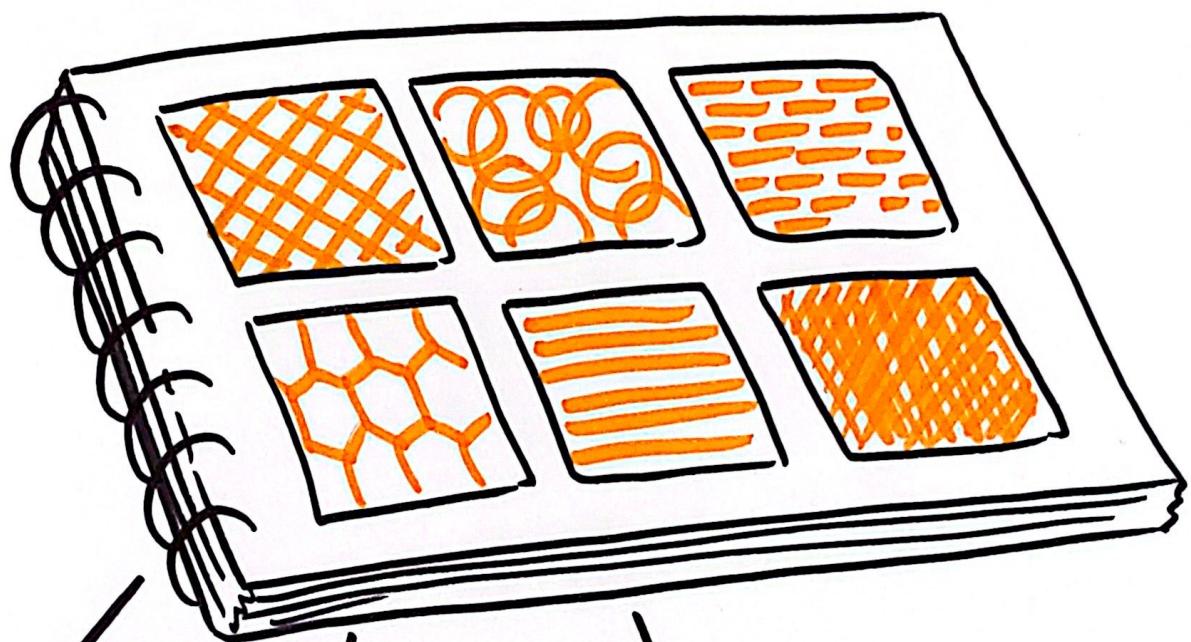
3D PRINTING
REINFORCEMENT
FOR SPORTSWEAR

ELECTRONICS COULD
BE EMBEDDED into
the GARMENTS



VERY VISIBLE
REINFORCEMENT -
PART of the DESIGN as
WELL as PRACTICALITY.

3D PRINT LIBRARY / CATALOGUE



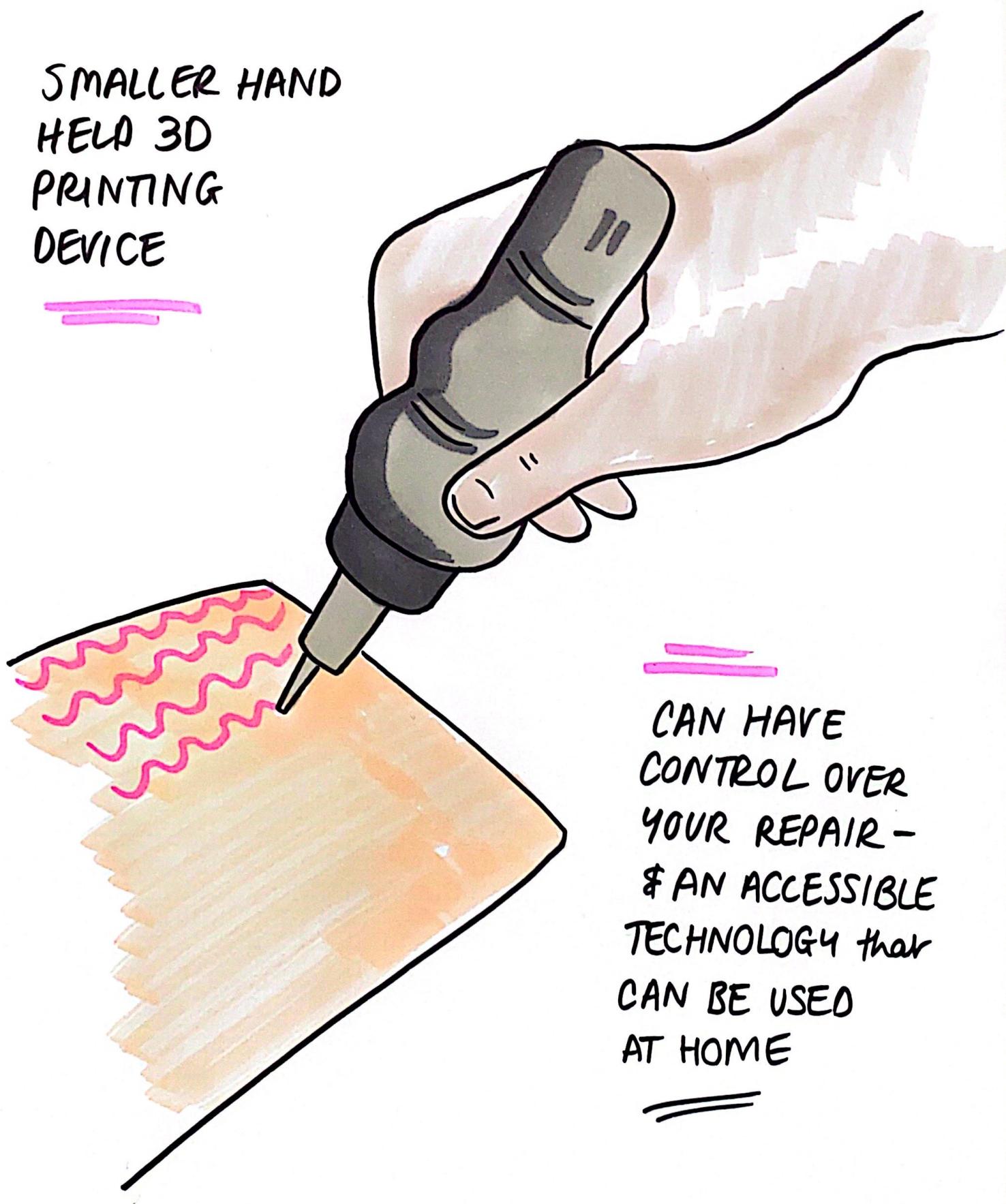
AR
TECHNOLOGY
TO DESIGN /
DETERMINE
YOUR
OPTIONS





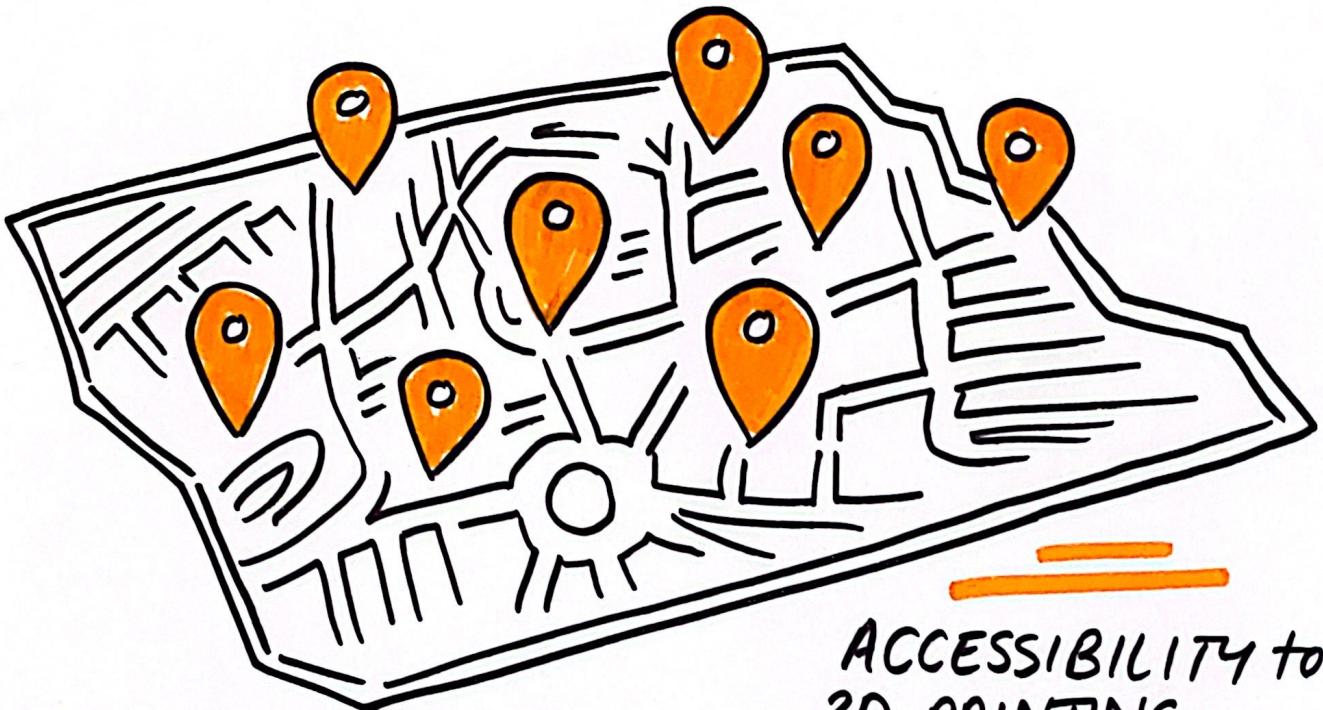
REINFORCEMENT COULD
APPEAR ON THE INSIDE of a
GARMENT, SO IT'S NOT VISIBLE
FROM THE OUTSIDE

SMALLER HAND
HELP 3D
PRINTING
DEVICE



CAN HAVE
CONTROL OVER
YOUR REPAIR -
& AN ACCESSIBLE
TECHNOLOGY that
CAN BE USED
AT HOME

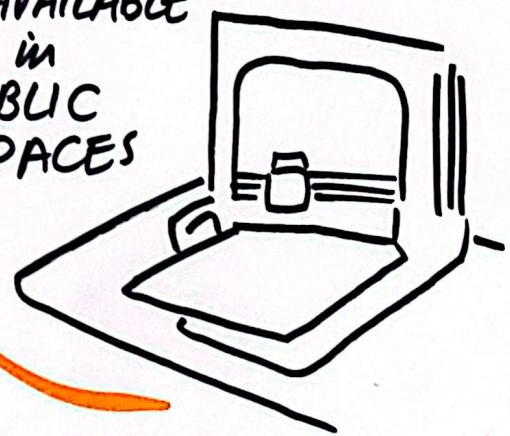




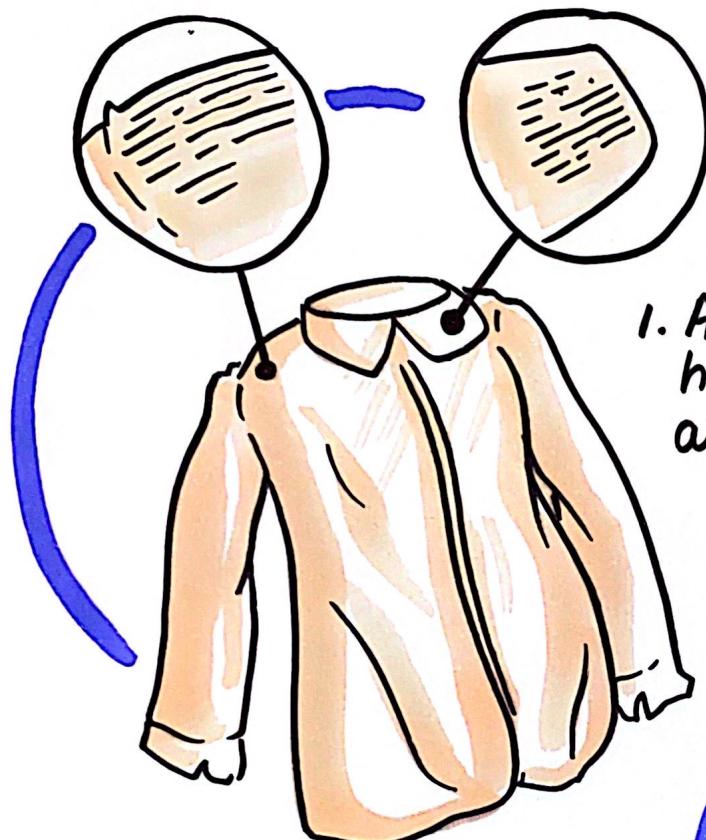
ACCESSIBILITY to
3D PRINTING
REPAIR - HUBS



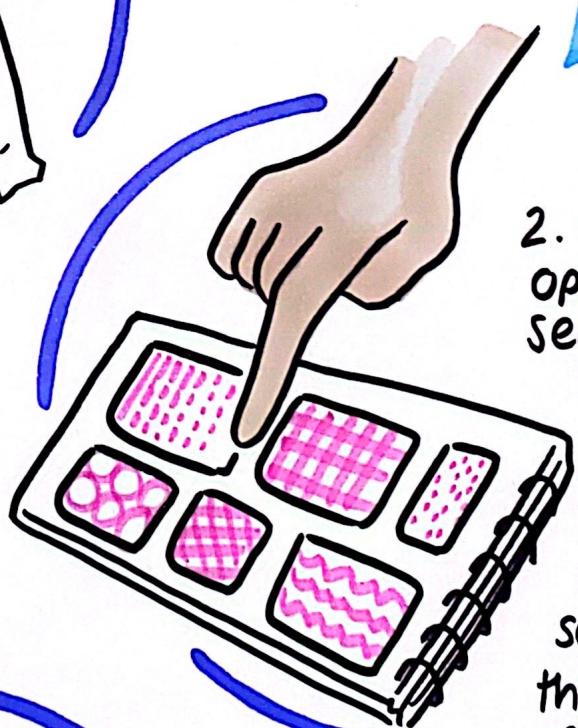
AVAILABLE
in
PUBLIC
SPACES



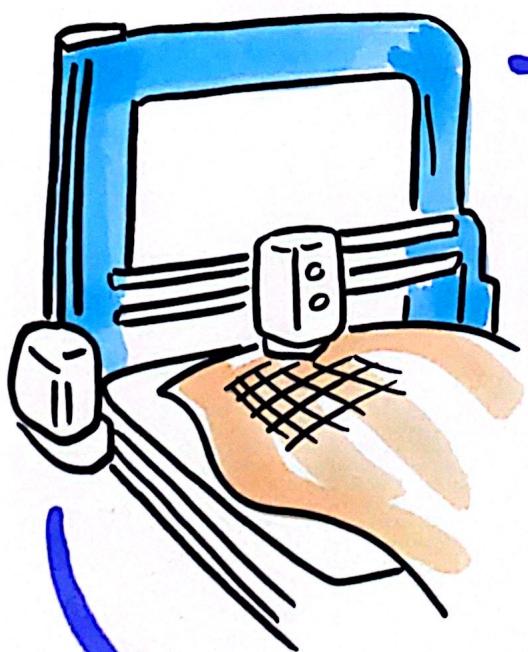
CO CREATION
SPACES - YOU
ARE INVOLVED
DIRECTLY in
the REPAIR of
YOUR ITEM



1. A silk shirt
has thinning
areas



2. Browse
options +
select most
appropriate
process
(eg. gradient,
something
that doesn't
affect drape)



3. PROGRAMME
CHOICE INTO
3D PRINTER
TO REPAIR



1. Garment has QR code that leads to information on specific garment repair settings

Pattern:
Colour:
 :
 :
 :



2. Consumer can take garment to local hub (eg. dry cleaners) & follow recommended settings or select their own



3. 'Brand approval if settings are followed (remains authentic)



=
Custom settings option allows for totally unique garment



1. Online app/
knowledge
library
(locations of
specialists)

2. Take garment
to specialist
(drop off/stay +
watch repair)

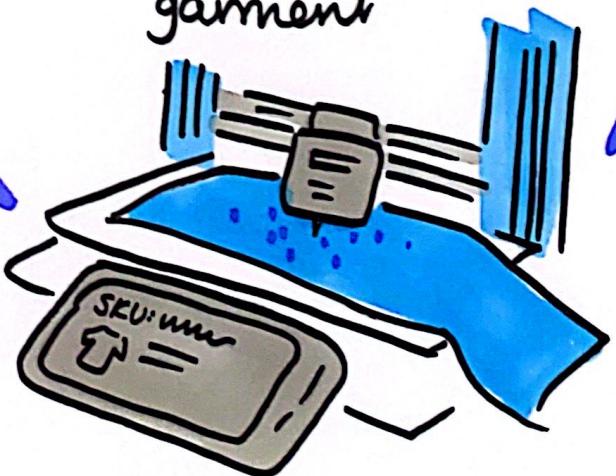
3. Collect/have
repaired garment
delivered to you



1. Consumer visits the 'Brand repair shop/ brand repair Specialist'



2. Repair Specialist programmes 3D printer to repair garment alongside specific settings to garment



3. Repaired garment receives certificate of brand authenticity





LUXURY CUSTOMISATION OPTIONS -
RESPRAY COATING



IRIDESCENT



NEW
COLOUR



CUSTOM
DESIGN



POTENTIAL TO
3D 'THREAD' the
ELEMENTS of a
GARMENT
TOGETHER

HAVING A SUSTAINABLE
MATERIAL TO COAT
PROTECTS



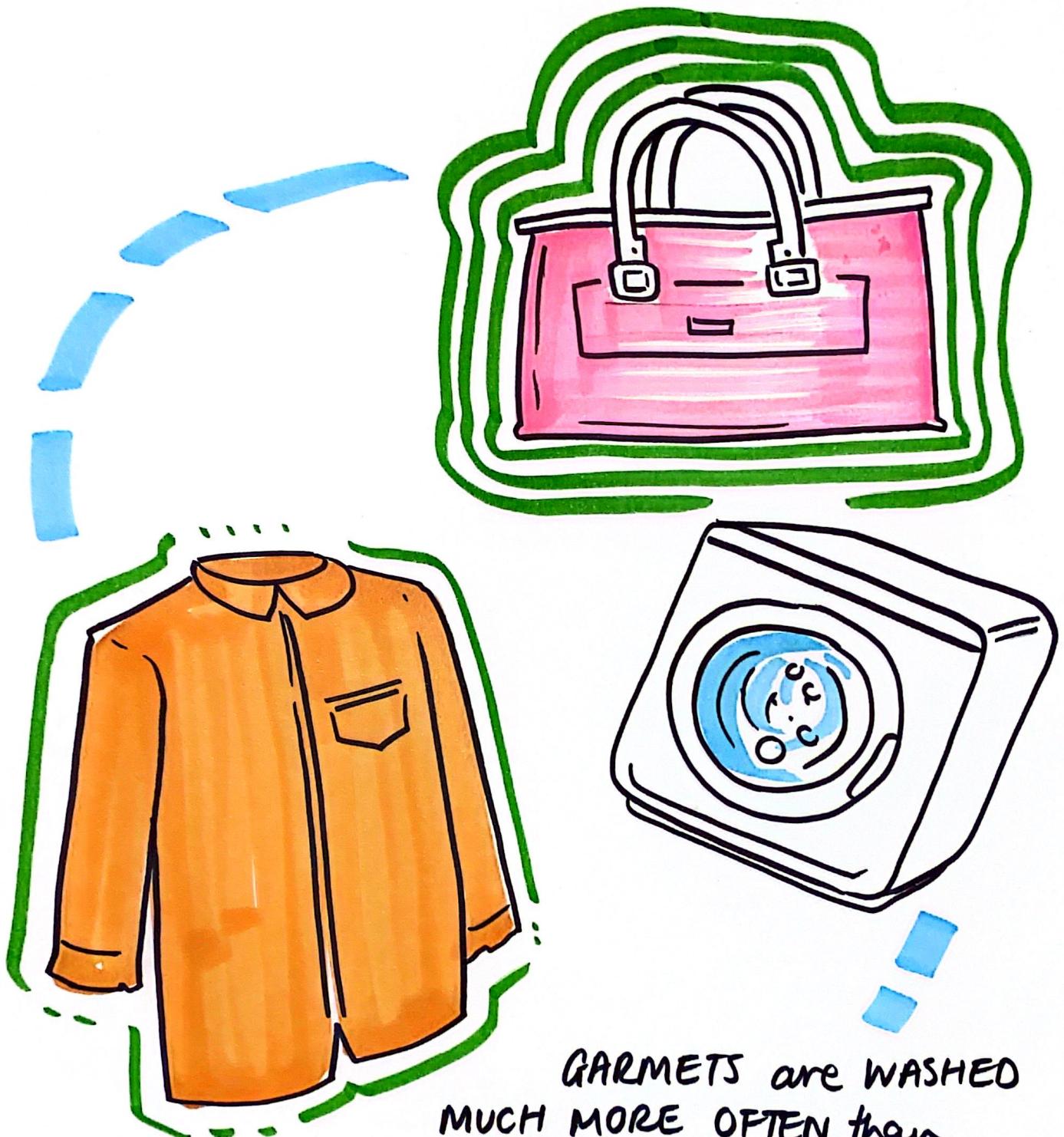
CURRENT PROCESSES OF PROTECTION
COATING ARE SYNTHETIC-
NOT SUSTAINABLE



'GROWING'
BIO MATERIAL-
ROBOTIC ARM MAINTAINS the GROWTH &
QUALITY of BIO MATERIALS

CHALLENGES WITH BIO BASED FINISHING...





GARMENTS are WASHED
MUCH MORE OFTEN than
ACCESSORIES... COATING NEEDS
to be MUCH MORE DURABLE...

DROP IN 'FINISH
TOP UP' - RECOATING
REPAIR on YOUR
OWNED PRODUCTS



DAMAGE is
DETECTED & a
REPAIR / COATING
COVERAGE
PROCESS is
DETERMINED



COATING
APPLIED &
PRODUCT is
RESTORED.



'VALUE OVER TIME'...

LOGO of BRAND is SPRAYED onto
PRODUCT at time of SALE (BUT is
NOT VISIBLE...)



LOGO APPEARS
OVER TIME,
ENCOURAGE
USE + REUSE
+ TO KEEP
FOR LONGER...



RECYCLING MATERIALS - LUXURY BRANDS

eg. WELL LOVED
LEATHER JACKET,
TRANSFORMED
INTO BAG...



MATERIAL CAN
ALSO BE RESPRAYED
with NEW COLOUR



Family Heirloom

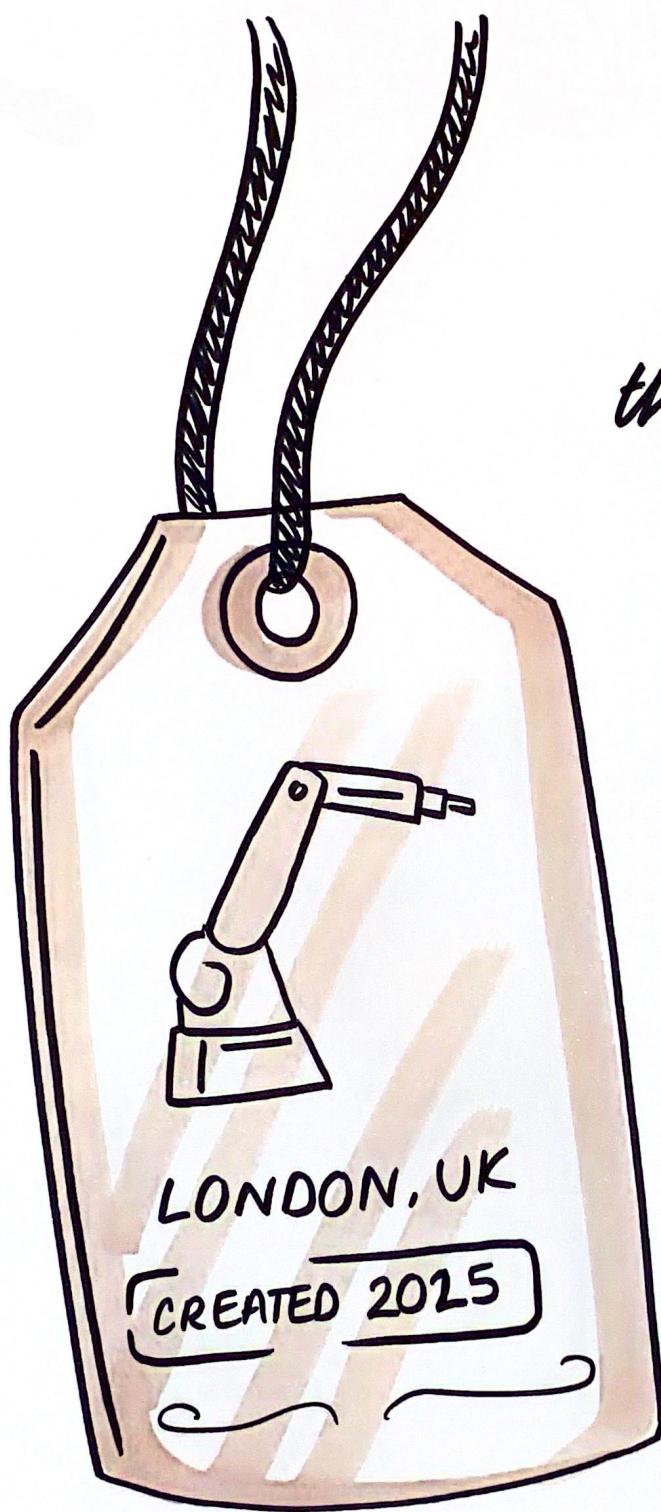
REPAIR & CUSTOMISATION



REPAIR
DAMAGES

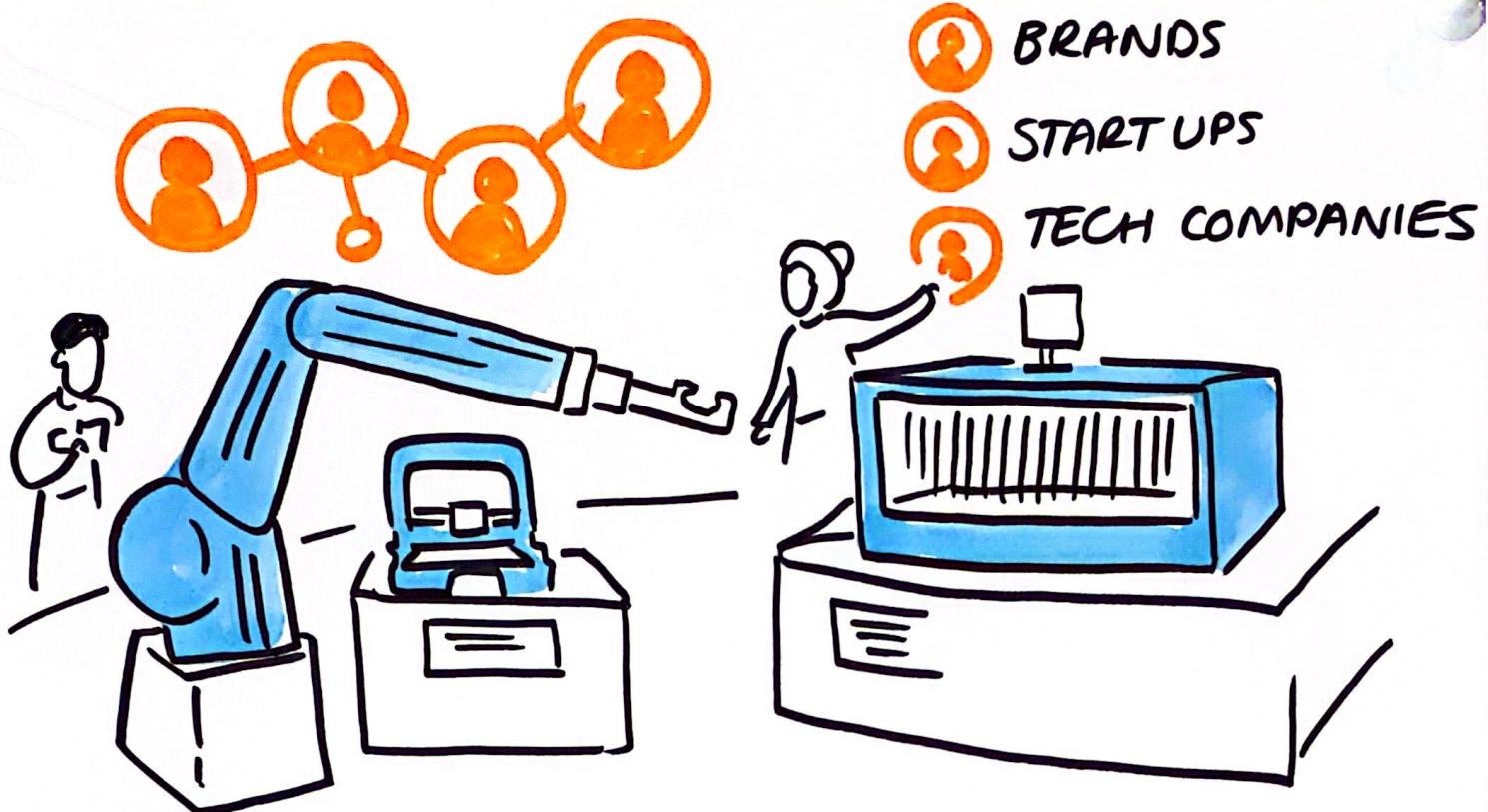
CUSTOMISE -
eg. FAMILY
CREST



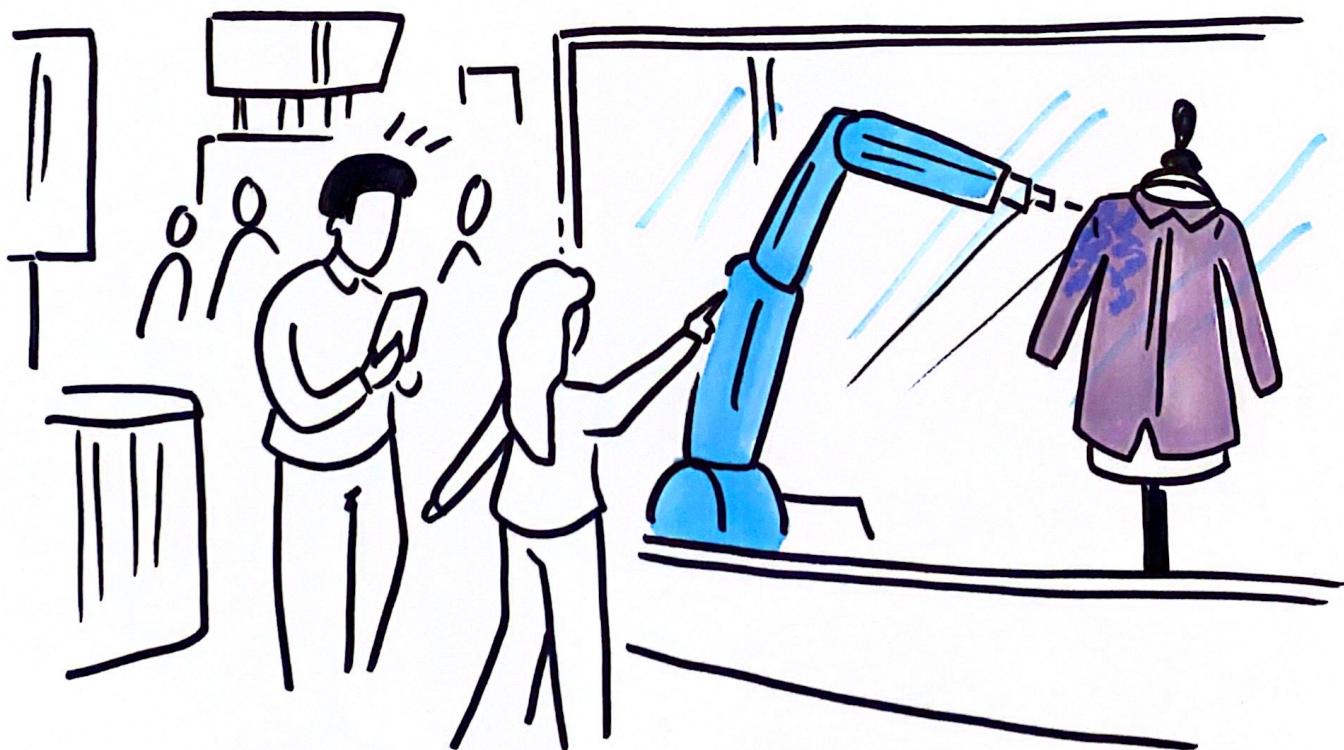


the 'MADE in /
by' LUXURY
ELEMENT of
a PRODUCT
(eg 'MADE in MILAN')





TECHNOLOGIES ACCESSIBLE TO
START UPS / BRANDS in
CO-WORKING STYLE ENVIRONMENT
[EITHER SELF INITIATED or SEND OFF]



'EXHIBITION' in RETAIL
ENVIRONMENT - see tech in action.

AR/AI SYSTEM
FOR CONSUMER
TO EXPLORE
REPAIR
OPTIONS



BRING
INTO
BOUTIQUE
STORE



VISIT
TAILOR

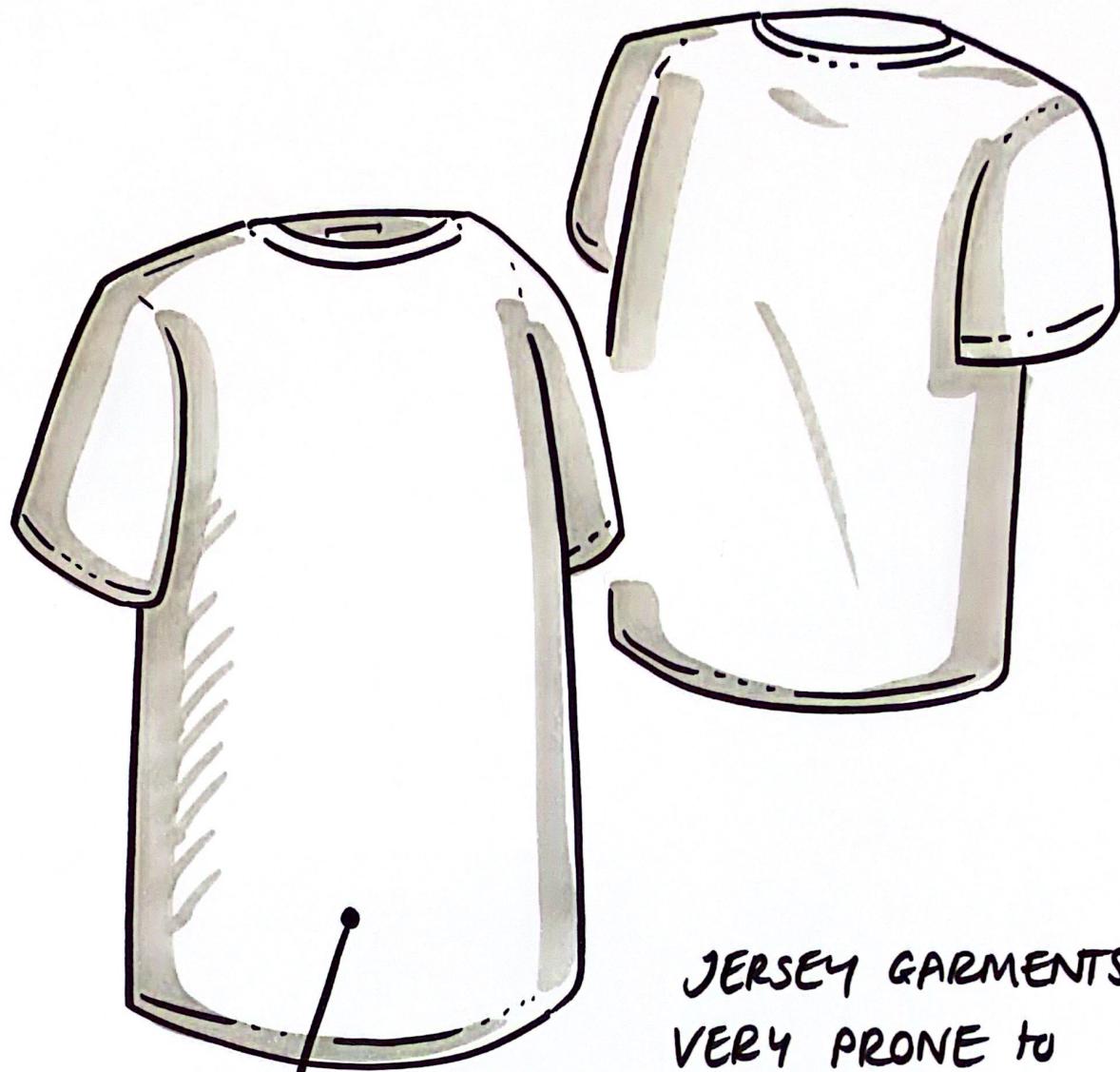


SEND OFF
GARMENT

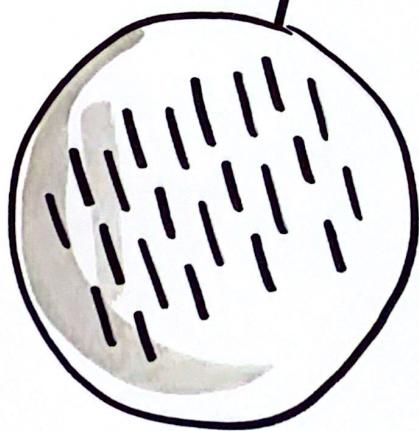
REPAIR LAB



SENT TO REPAIR LAB WITH
REQUESTED OPTIONS

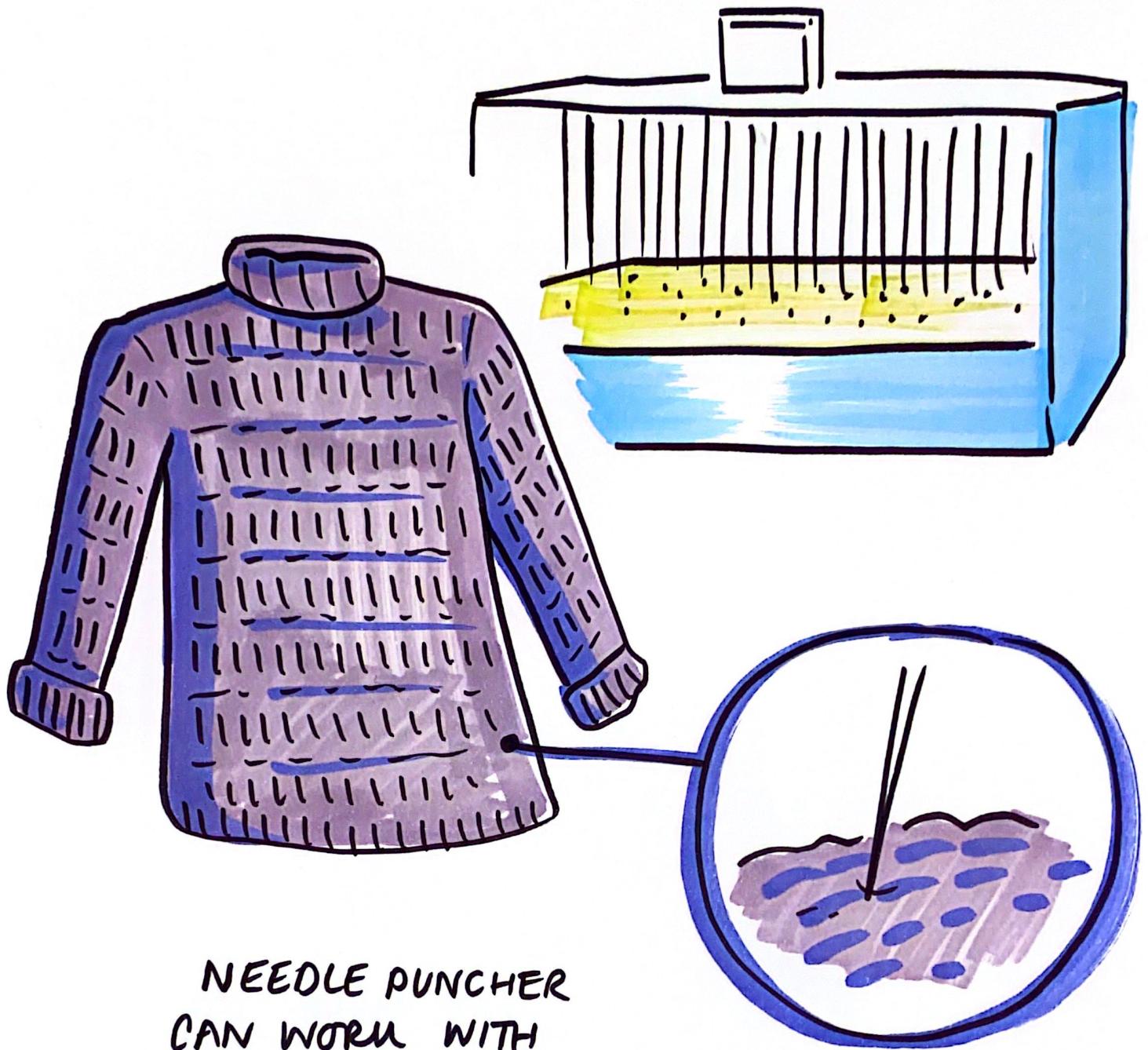


JERSEY GARMENTS -
VERY PRONE to
DAMAGE due to
SINGLE LAYER



VISCOSE or
COTTON PUNCHING
TECHNIQUES

(THE STITCHING COULD NOT
BE VERY DURABLE)

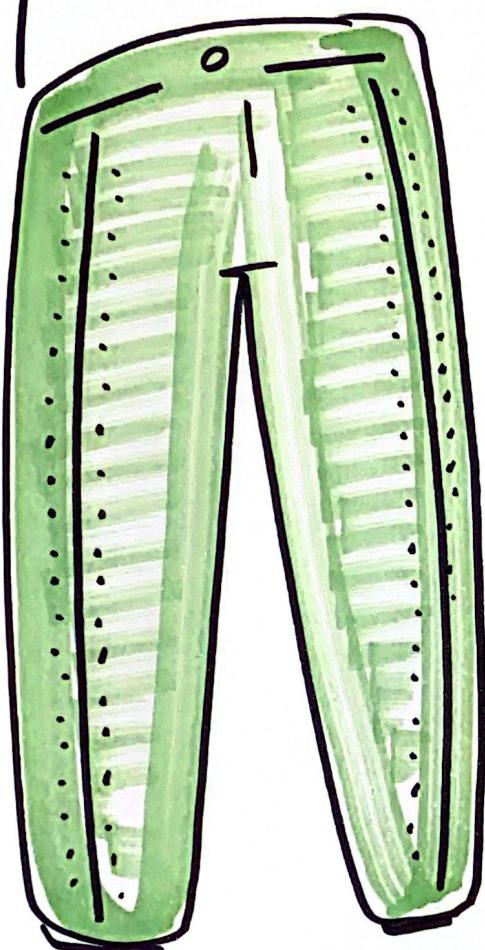


NEEDLE PUNCHER
CAN WORK WITH
VERY SMALL FIBRES-

THIS WOULD WORK WELL FOR
REPAIRING WOOL GARMENTS

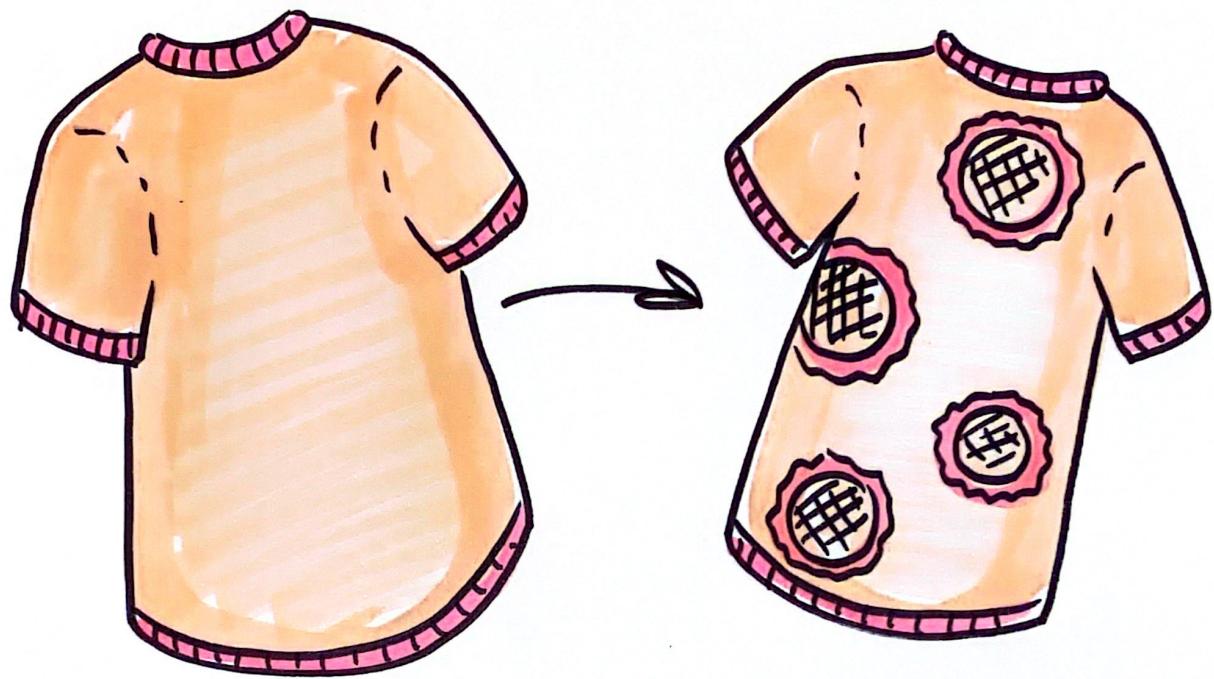
BINDS
FIBRES
TOGETHER

FELTING /
SEAM REINFORCEMENT



REINFORCEMENT OF
GARMENTS

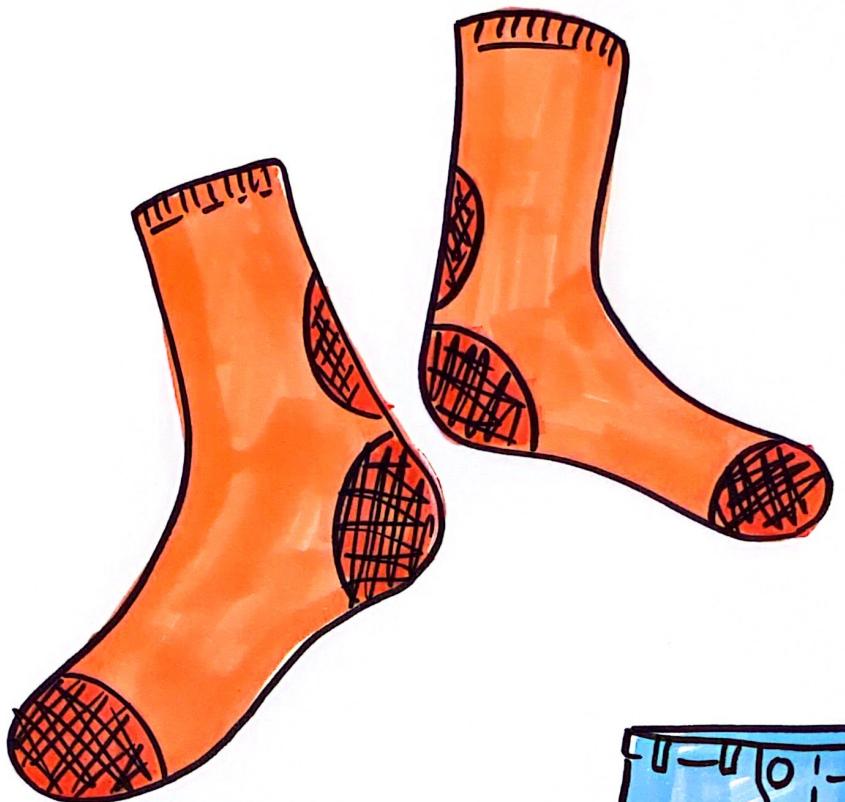
the VALUE of CUSTOMISATION...



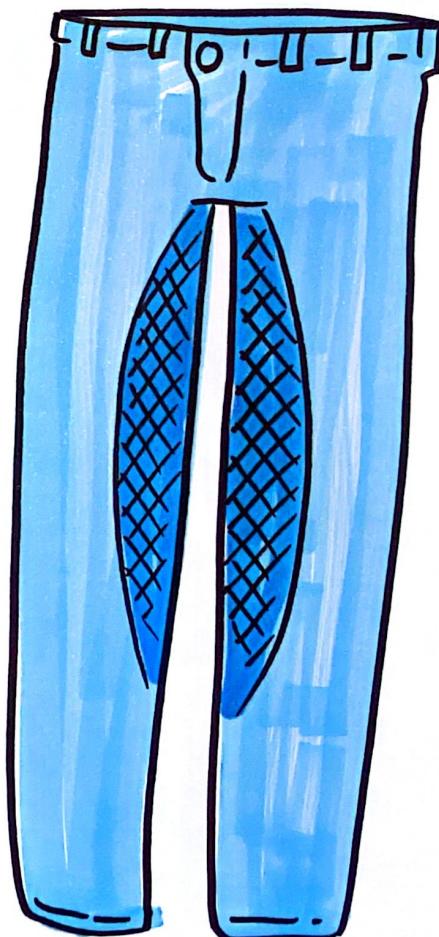
VALUE INCREASE
OVER TIME +
NUMBER OF
REPAIRS

WOULD HAVING CUSTOM ADDITIONS
TO GARMENTS MAKE PEOPLE WANT
TO KEEP THEM FOR LONGER?

(THE STITCHING COULD NOT
BE VERY DURABLE)

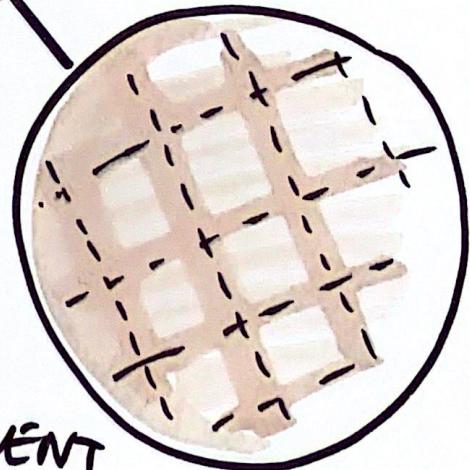


NEEDLE PUNCHER
USING DARNING
APPROACH -
STRENGTHENING
PARTS of a GARMENT
that EXPERIENCE
the MOST WEAR.

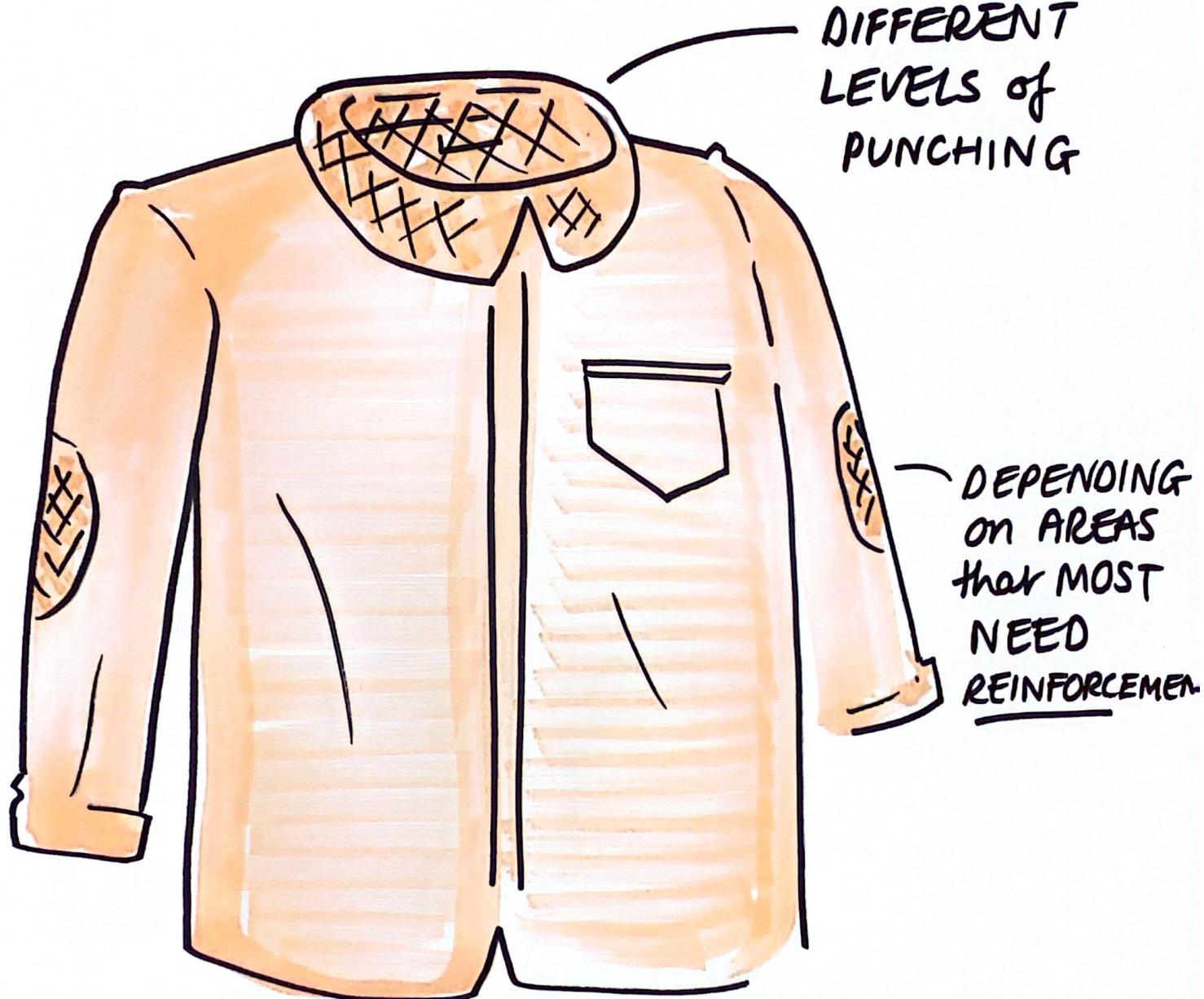




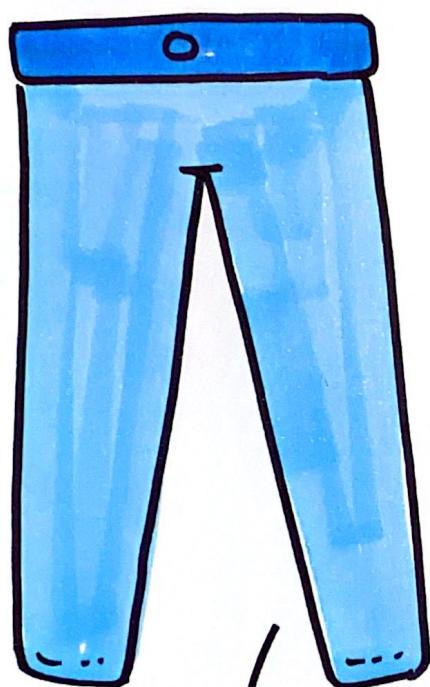
NEEDLE
PUNCHING on
INSIDE of GARMENT
to PROVIDE REINFORCEMENT



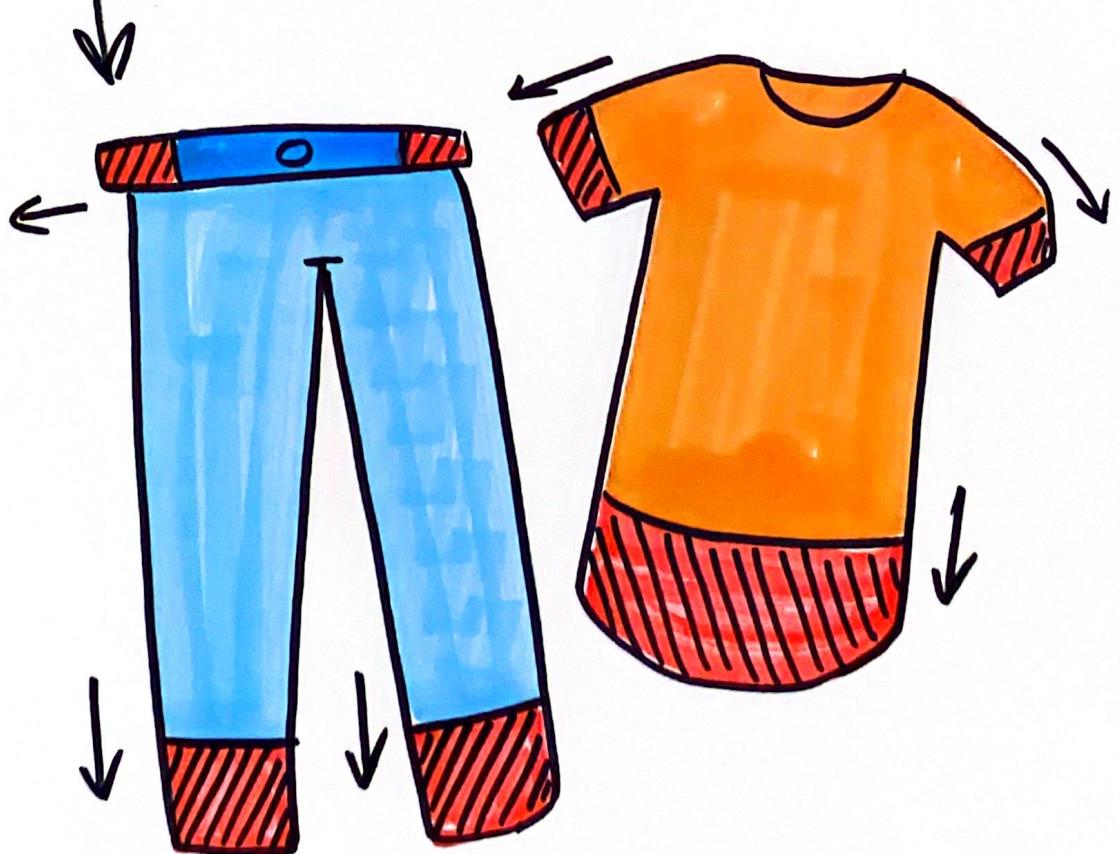
COULD THIS REPLACE
STARCHING?



DISASSEMBLY & REASSEMBLY .

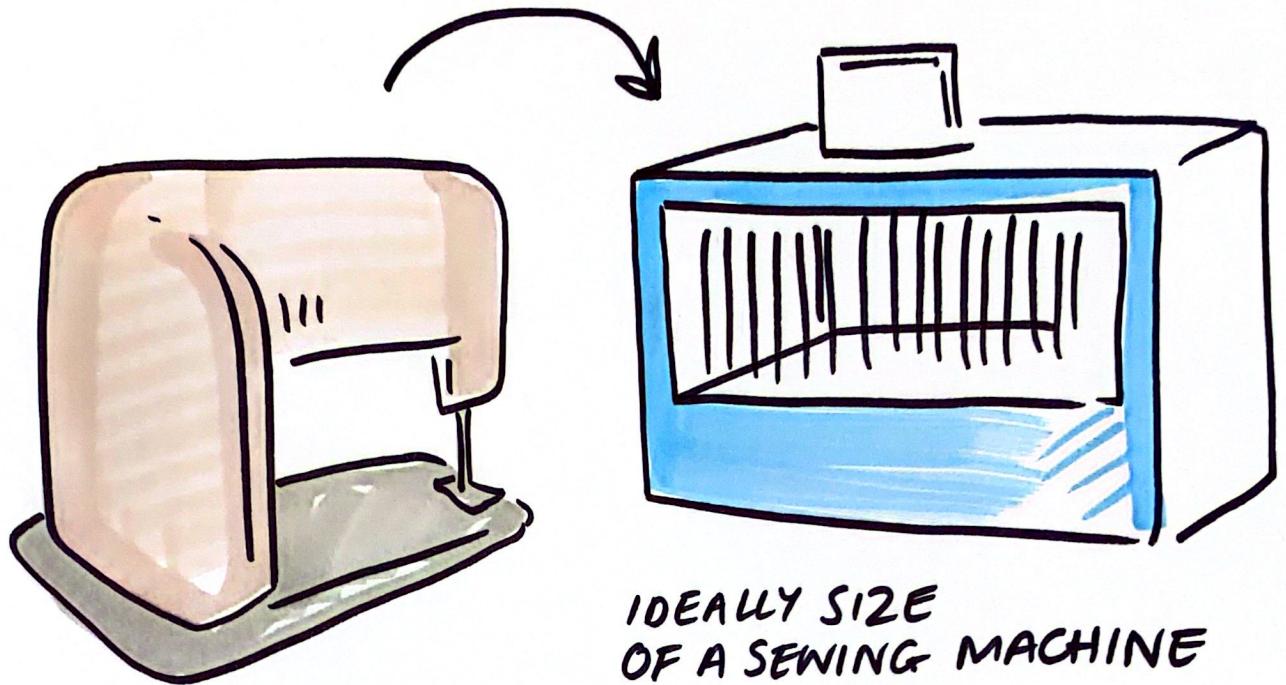


eg. CHILDRENS CLOTHES
- BEING ABLE TO TAKE
ELEMENTS APART &
ADD TO THEM ...





NEEDLE PUNCHING FOR BRANDING -
BOTH VISIBLE ON GARMENT
+ 'HIDDEN' (INSIDE REINFORCEMENT,
LABELLING INSIDE etc)



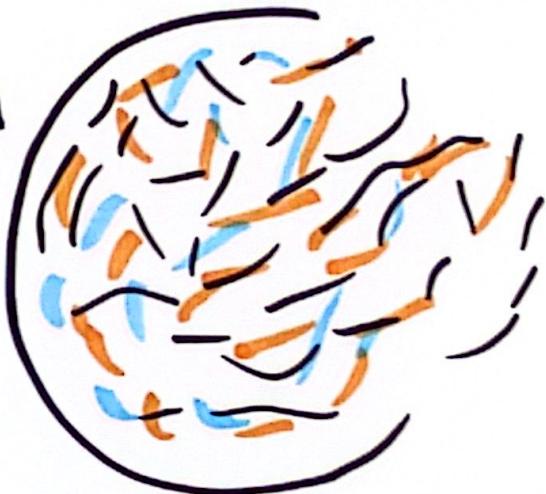
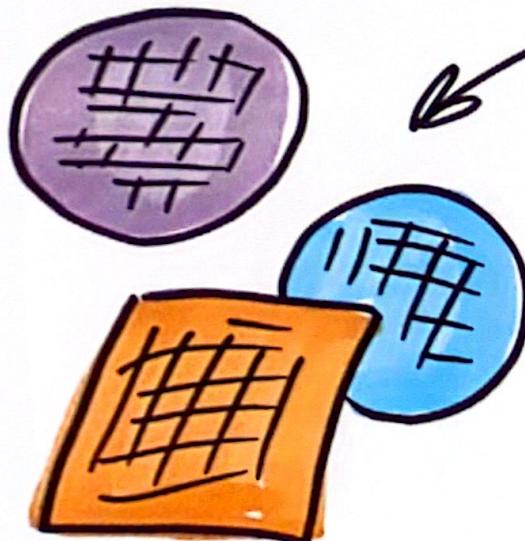
SIZE ↔ COST RESTRAINTS...





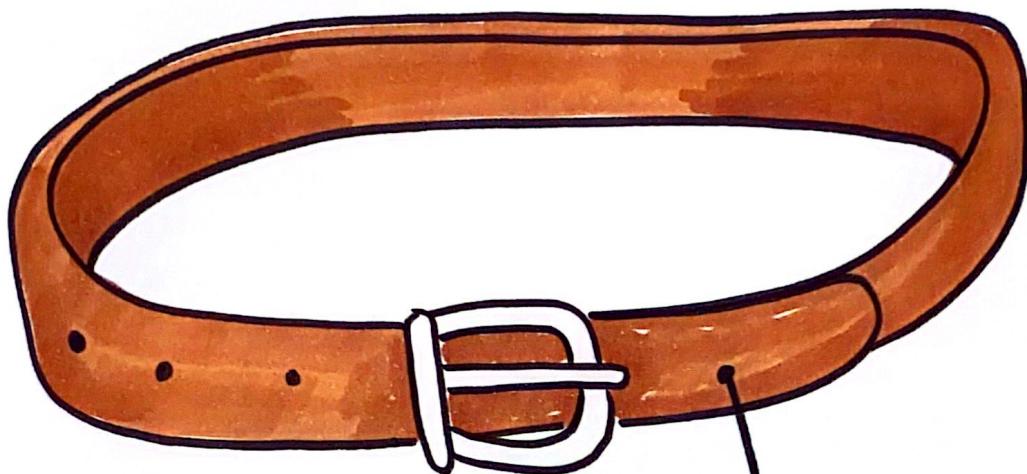
MASS COLLECTION
of WASTE MATERIALS

DARNING PATCHES
DEVELOPED FOR SALE

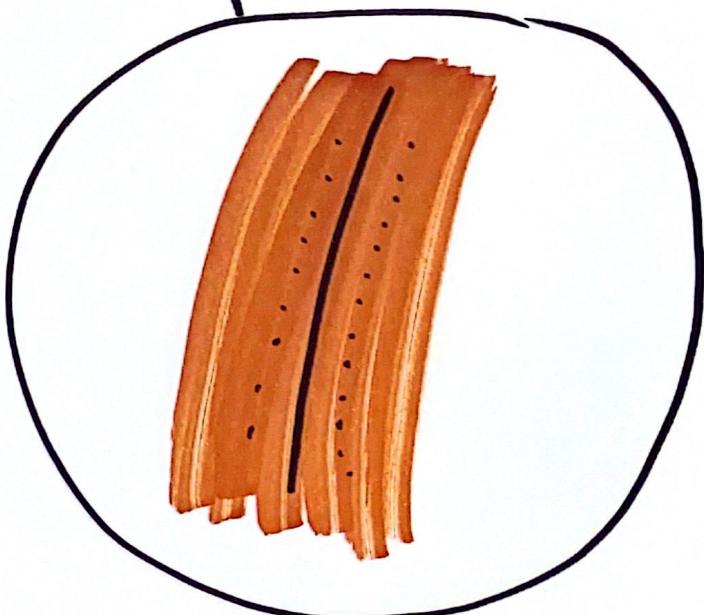


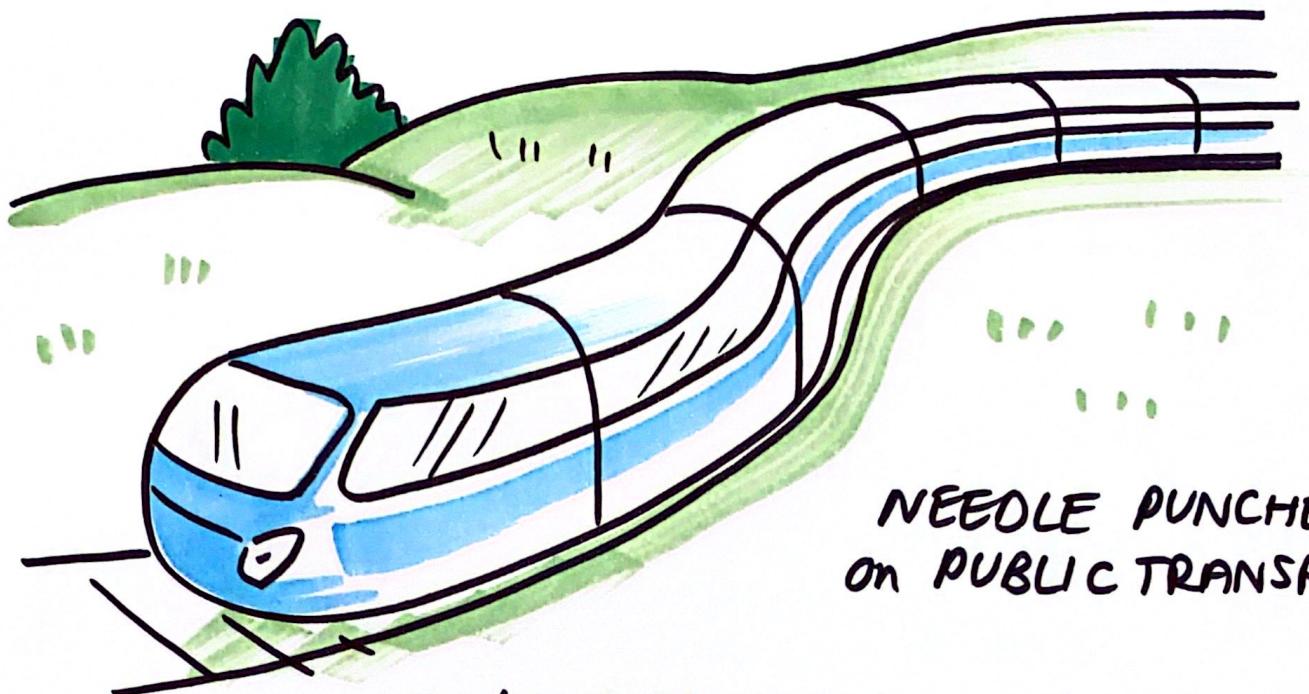
FIBRES
PUNCHED
DIRECT ONTO
GARMENTS

AVOIDING SOLVENTS



NEEDLE
PUNCHING
CAN REDUCE
the NEED
for USING
SOLVENTS....





NEEDLE PUNCHER
on PUBLIC TRANSPORT

eg. LONG JOURNEY TRAIN

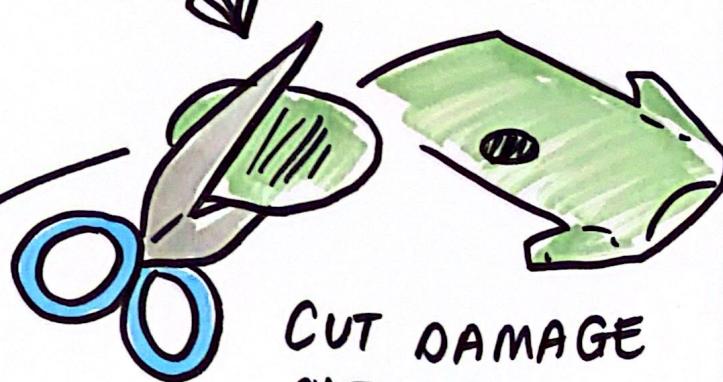
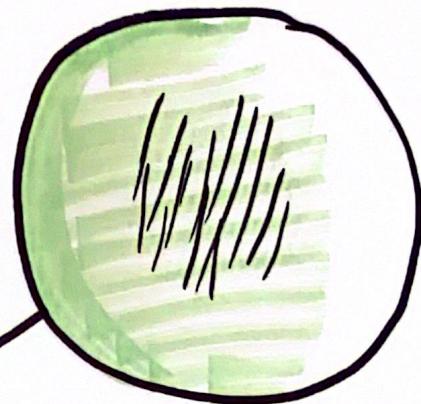


CONSUMERS
CAN ACCESS
+ USE
MACHINE
ON TRAINS



PARTNERING with
KNOWN BRANDS
to SHOWCASE TECHNOLOGIES
& TECHNIQUES

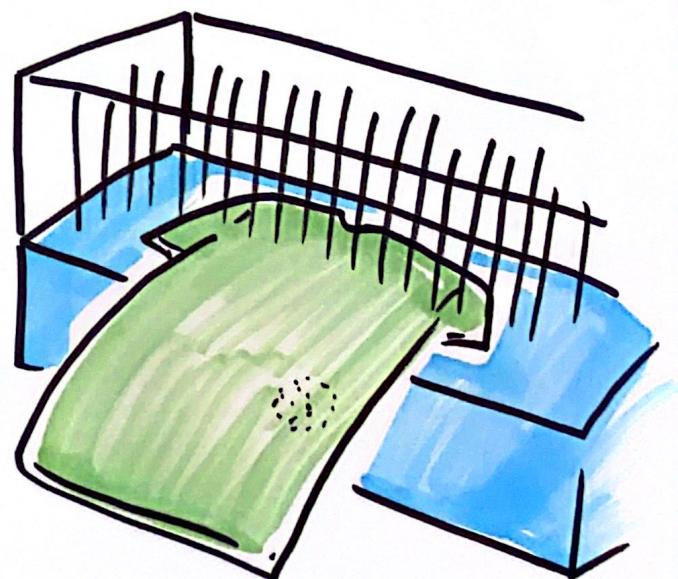
DETECT DAMAGE
ON GARMENT



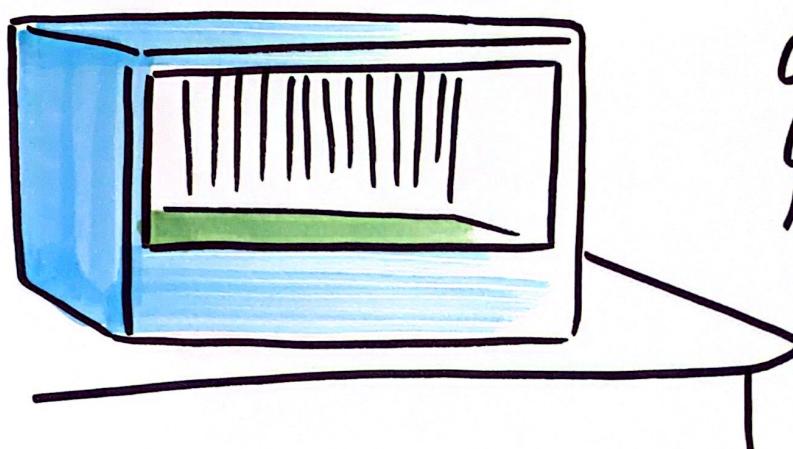
CUT DAMAGE
OUT OF
GARMENT



SMALL
SHREDDER CAN
BREAK SAMPLE
DOWN TO SMALL
FIBRES



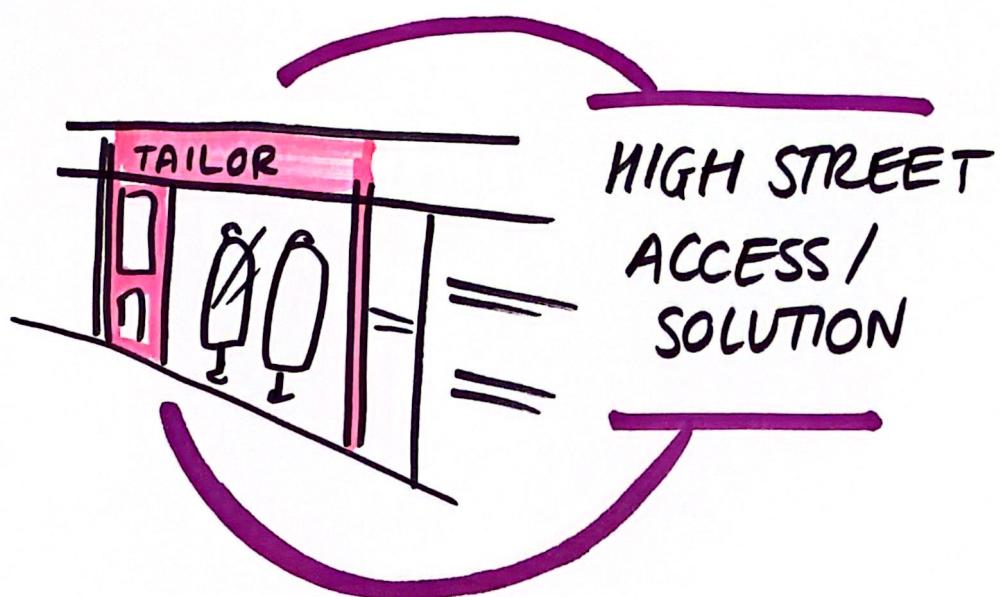
NEEDLE PUNCHER
ADDS FIBRES BACK
INTO ORIGINAL GARMENT



REPAIR HUB –
CONSUMERS CAN
EXPLORE
HABIDASHERY
STYLE SPACE
WHILE THEY WAIT



PHYSICAL
LIBRARY OF
REPAIR
EXAMPLES

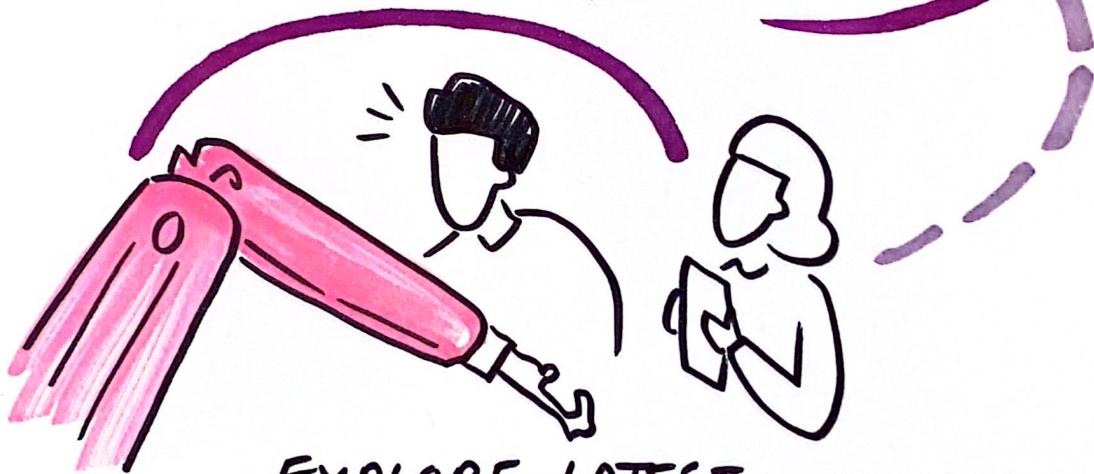


CONSUMER VISITS RETAILER
that OFFERS this as a
SERVICE - QUICK CONSULTATION
& QUICK REPAIR





POP UP /
ROAMING
SHOWCASE
HUB

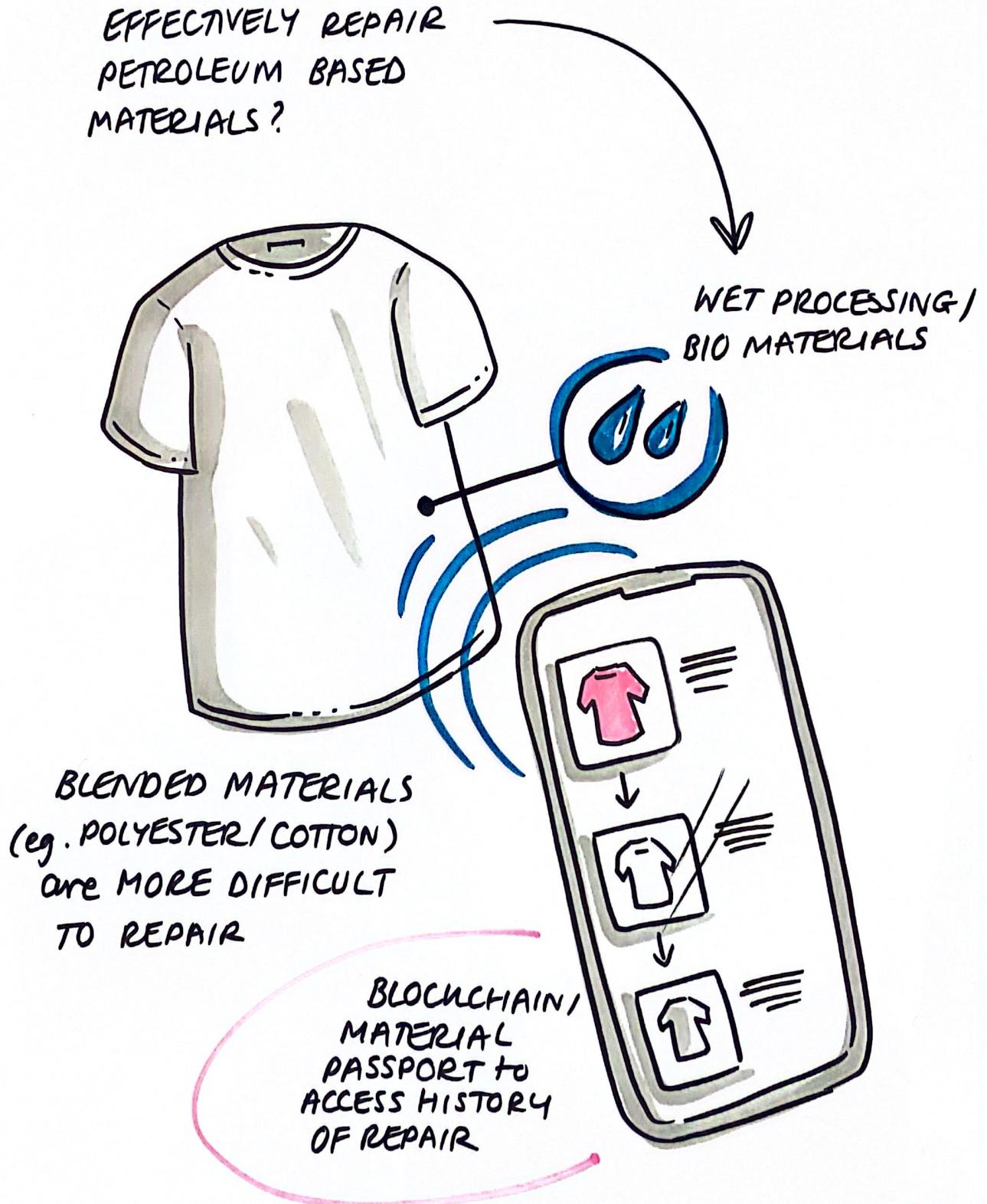


EXPLORE LATEST
TECHNOLOGIES /
MACHINES

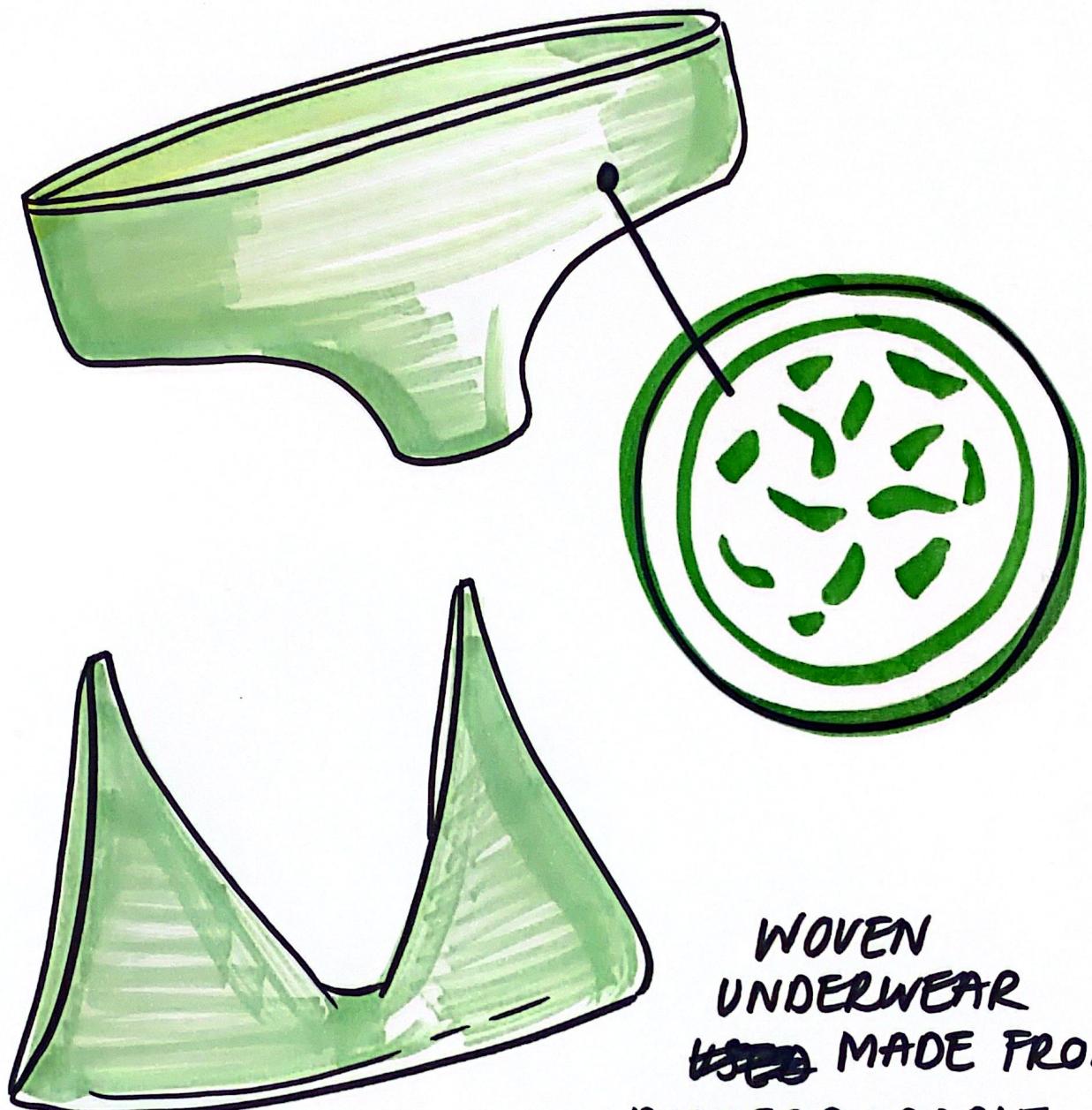
LEARN ABOUT
the REPAIR
PROCESSES &
THEIR BENEFITS



HOW TO ADD VALUE/
EFFECTIVELY REPAIR
PETROLEUM BASED
MATERIALS?



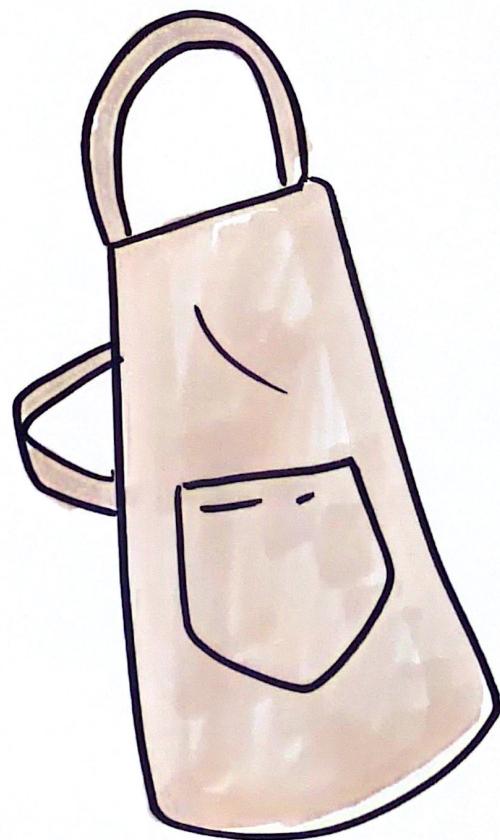
UNDERWEAR IS A HUGE WASTE...
NO ONE BUYS PREOWNED UNDERWEAR...



WOVEN
UNDERWEAR
~~IS~~ MADE FROM
BIODEGRADABLE
MATERIAL (with ADDED
ELEMENTS that PURIFY
WATER SYSTEMS.

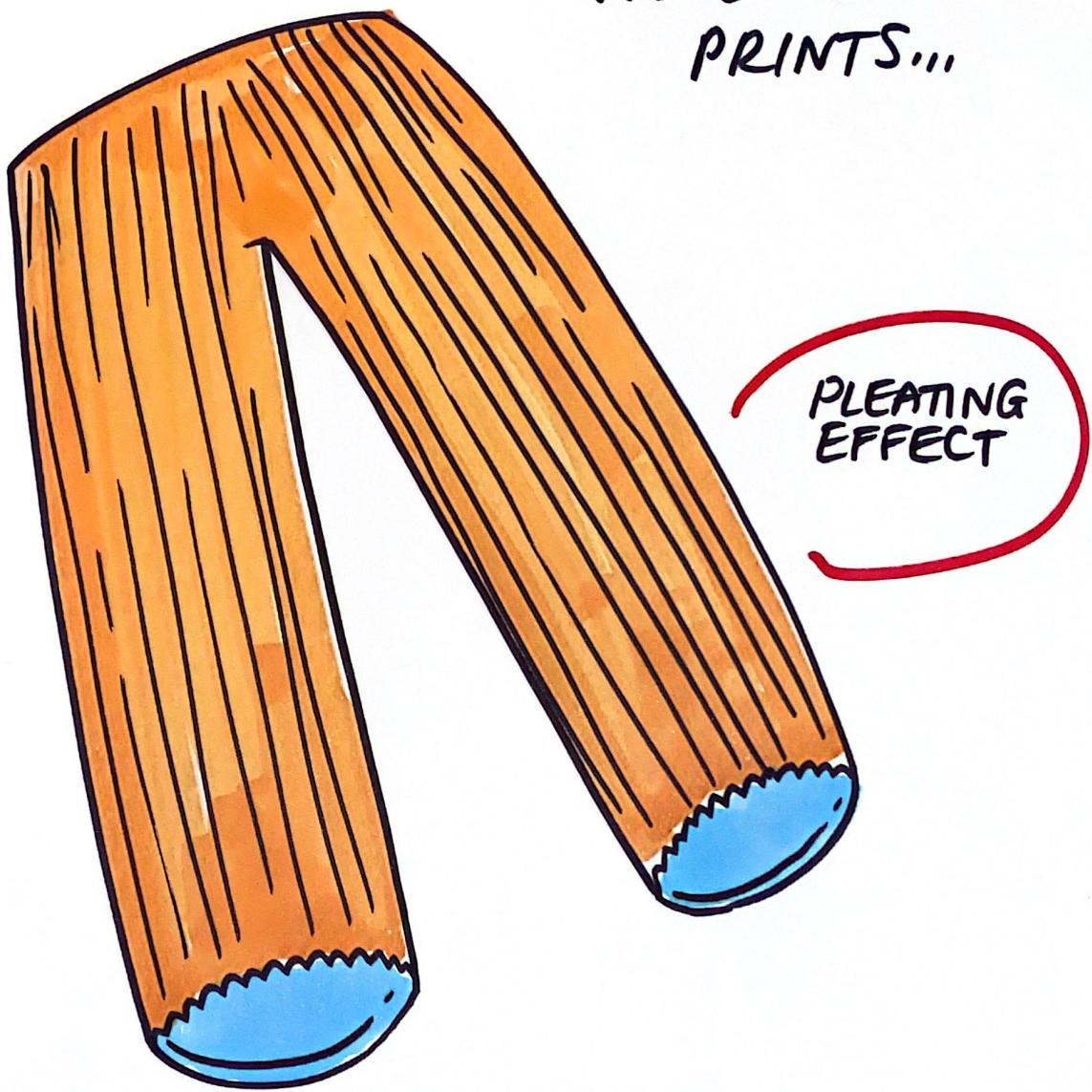


IT DOESN'T NEED
to be REPAIRED to
IT'S ORIGINAL DESIGN...



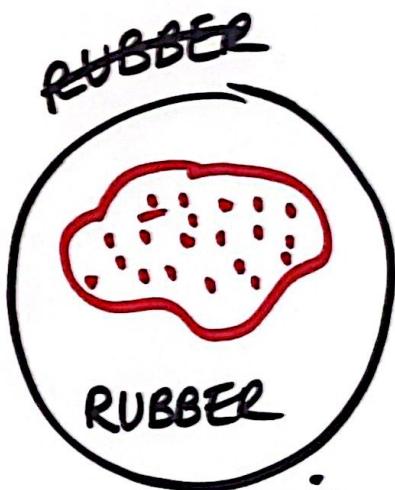
IT CAN BE REPURPOSED
INTO PRACTICAL
ITEMS - eg BAGS &
APRONS

LAYERING the
WOVEN LOOMS
PRINTS...

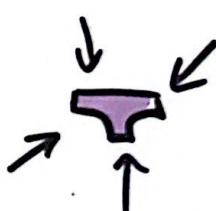
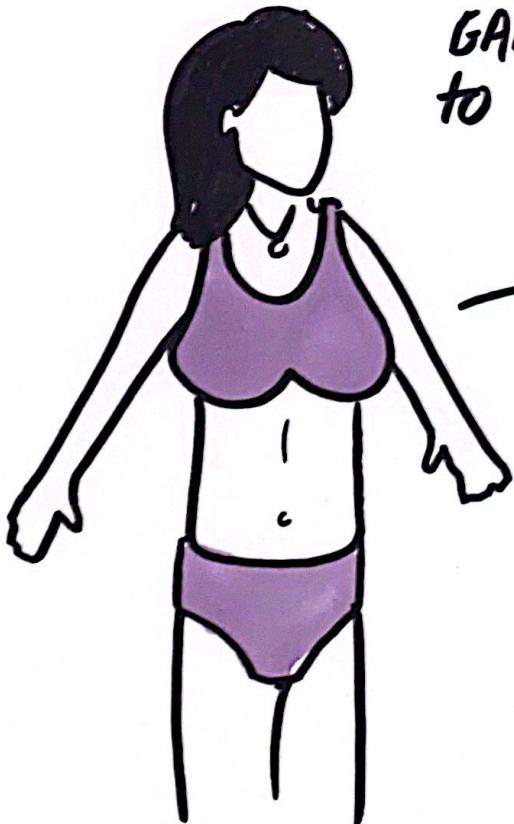


LAYERS CAN EITHER BE SEPARATED,
OR EXTRA LAYERS CAN BE ADDED...

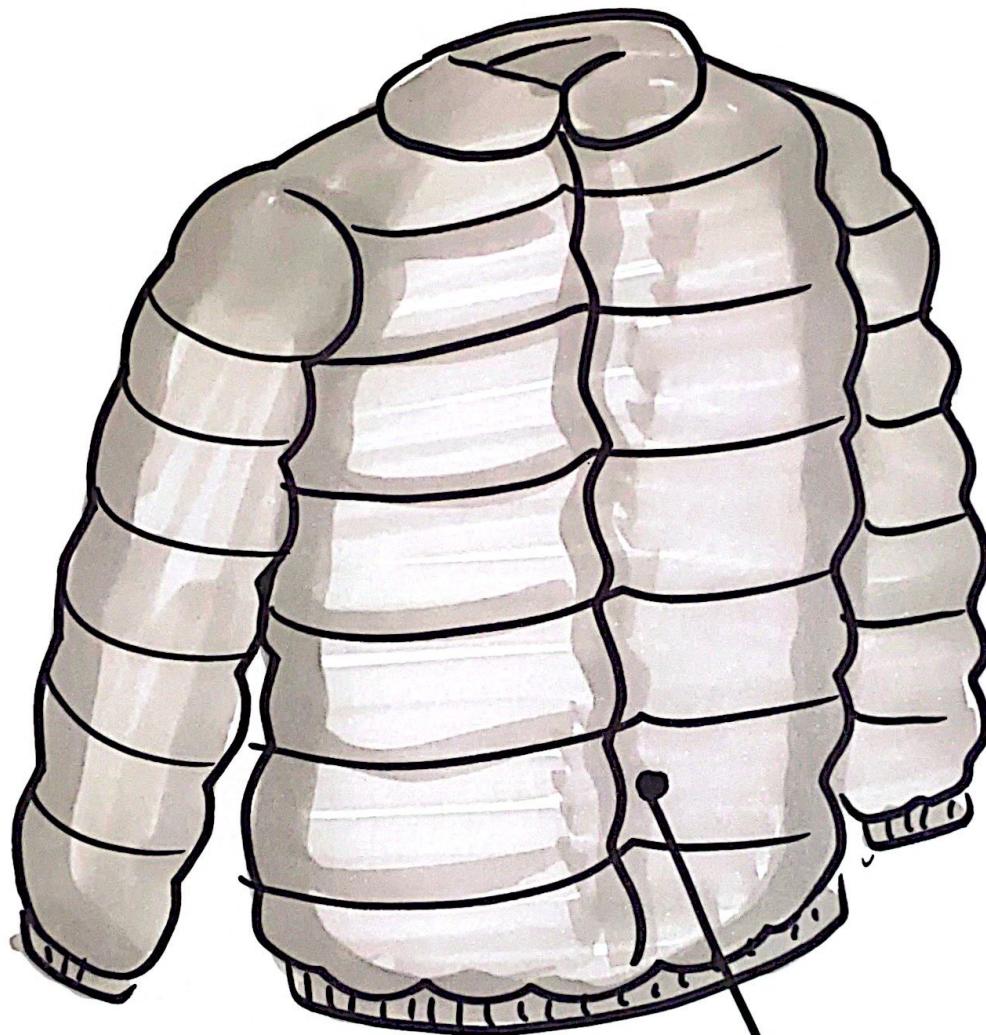
THINMING ABOUT NATURAL MATERIALS THAT HAVE STRETCH...



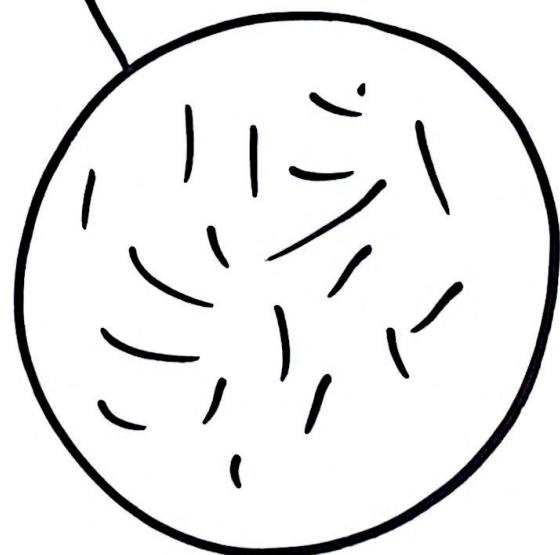
GARMENTS STRETCH
TO FIT WHILE WEARING...



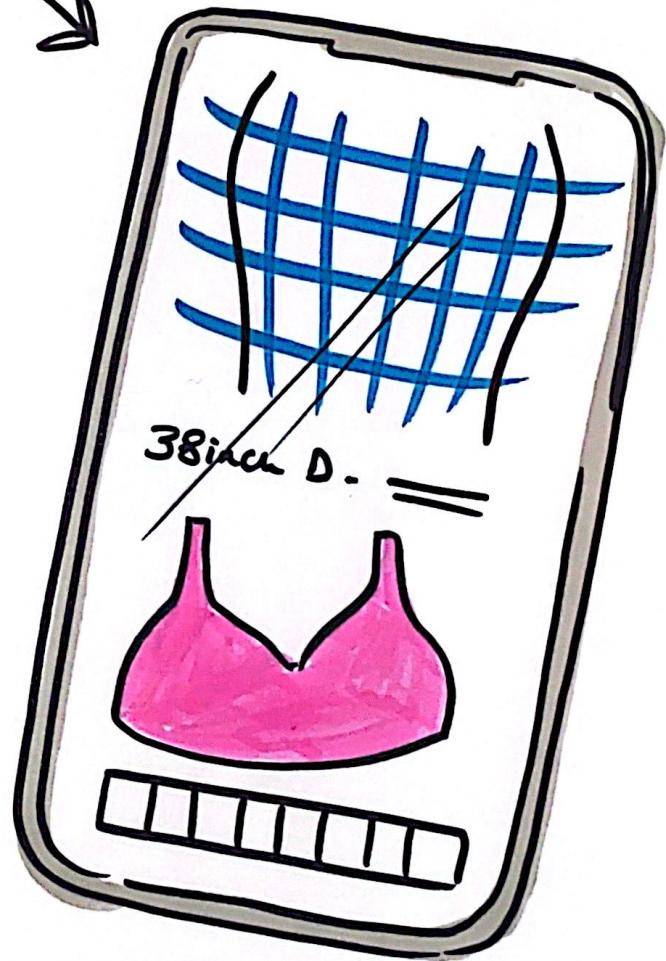
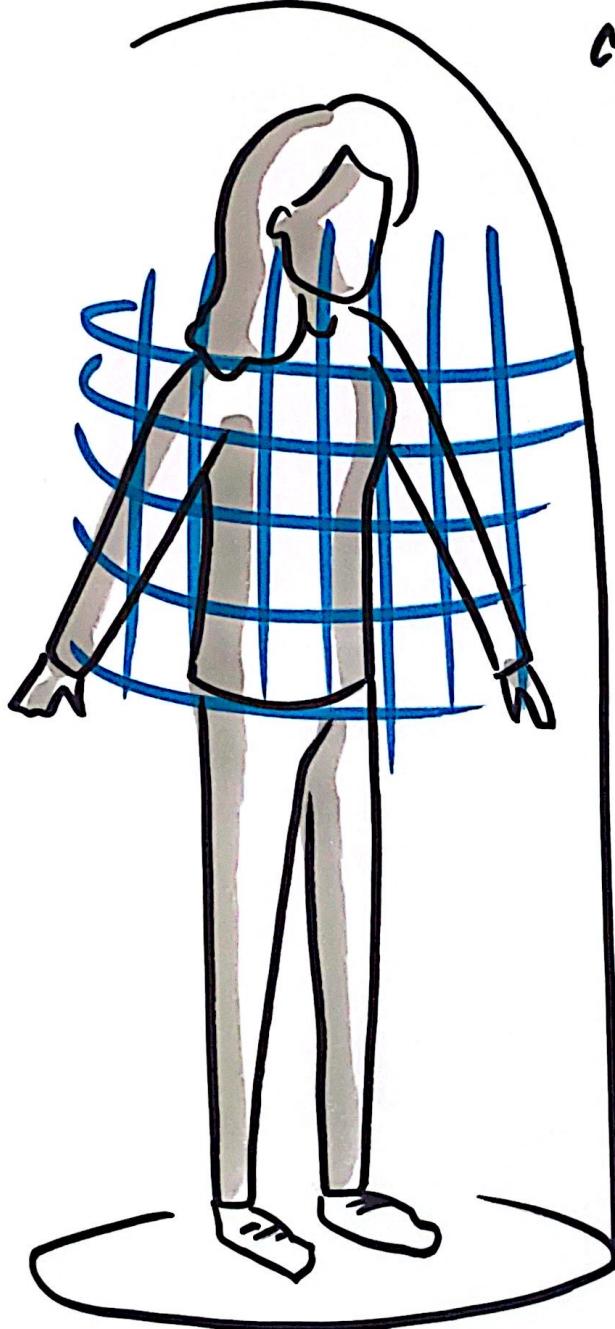
AND THEN
'SHRINK' TO
ORIGINAL FORM
AFTER WEAR...



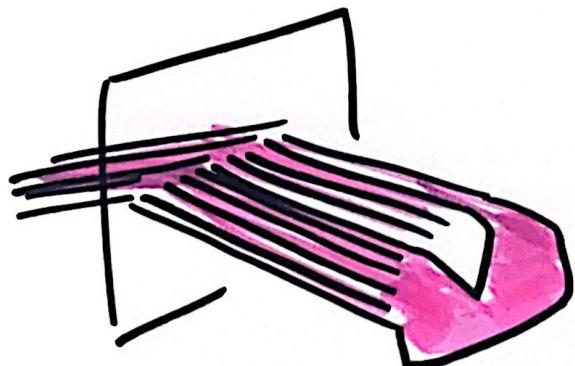
NO NEED to USE
FILLING LIKE
DOWN - CAN USE
LEFTOVER
FIBRES FOR
FILLING ...



CONSUMER IS 3D SCANNED
& MEASURED



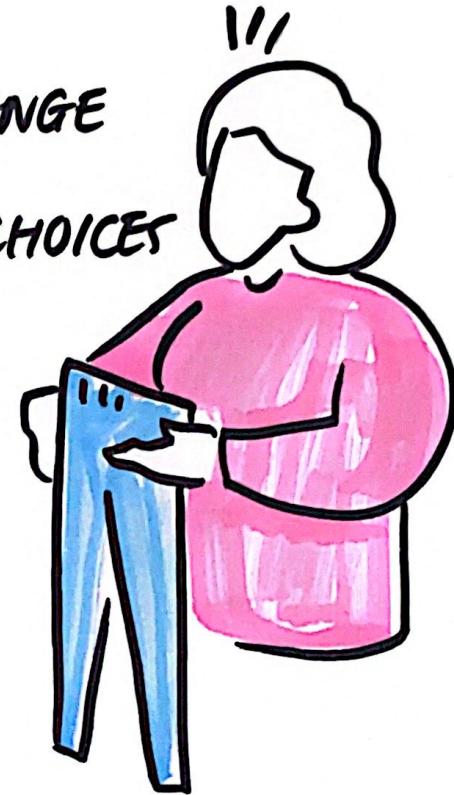
CONSUMER CAN
CUSTOMISE THEIR DESIGN



3D LOOM CREATES
GARMENT BASED
ON INPUT



WE CHANGE
SHAPE +
FASHION CHOICES
ALL THE
TIME...



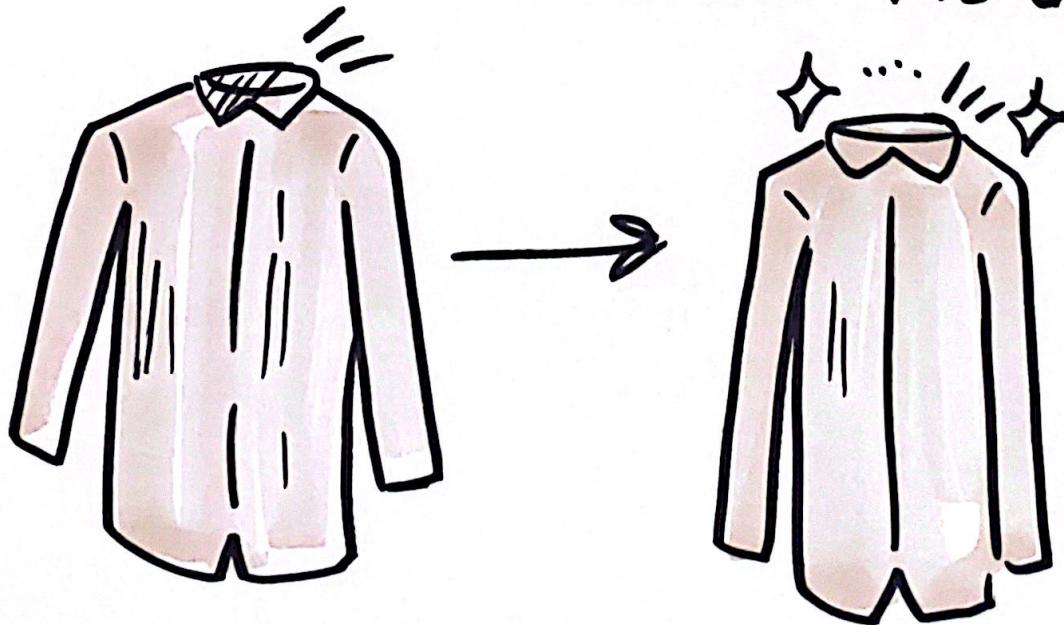
3D LOOM COULD NOT
ONLY CHANGE SIZE,
BUT ALSO STYLE...

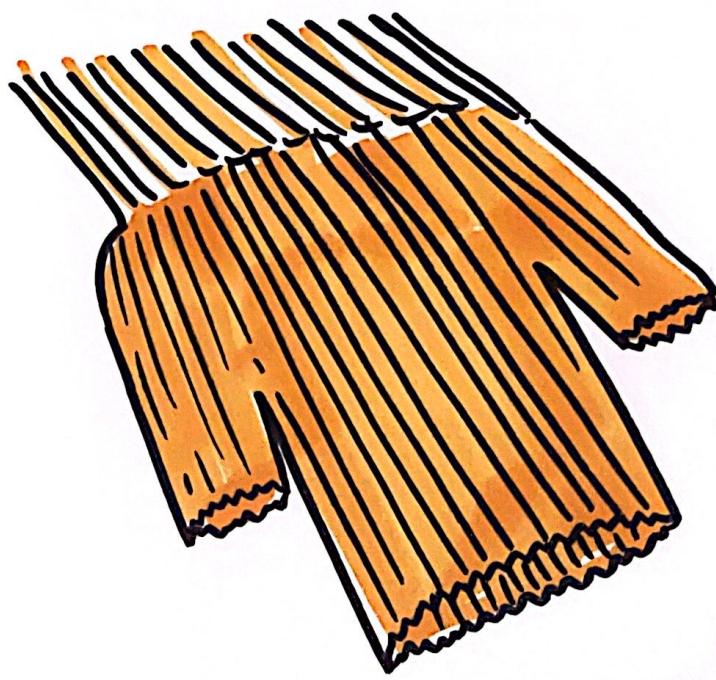




SHIFT in the
WAY that
THINGS are
WOVEN...

PRINT MODULAR
SO THAT WORN ELEMENTS
CAN ALWAYS BE
REPLACED, FOR EXTENDED
LIFE OF THE GARMENT...





3D WEAVE in
PLEATED DESIGN



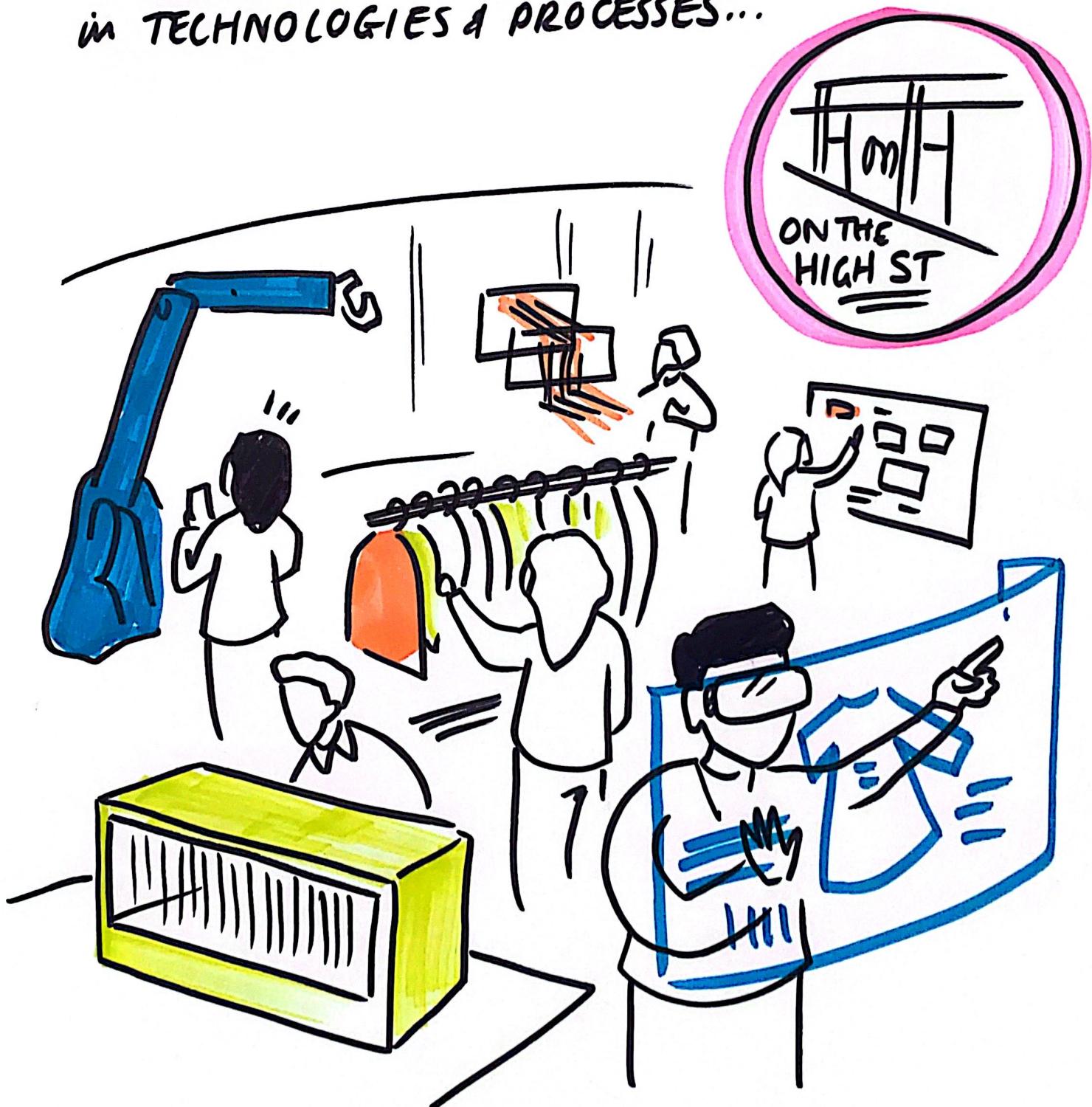
CREATING MORE
'ONE SIZE FITS ALL'
GARMENTS / GARMENTS
that FIT AS YOU CHANGE
SIZE / SHAPE FOR LONGER
USE...



5 YEARS LATER ...

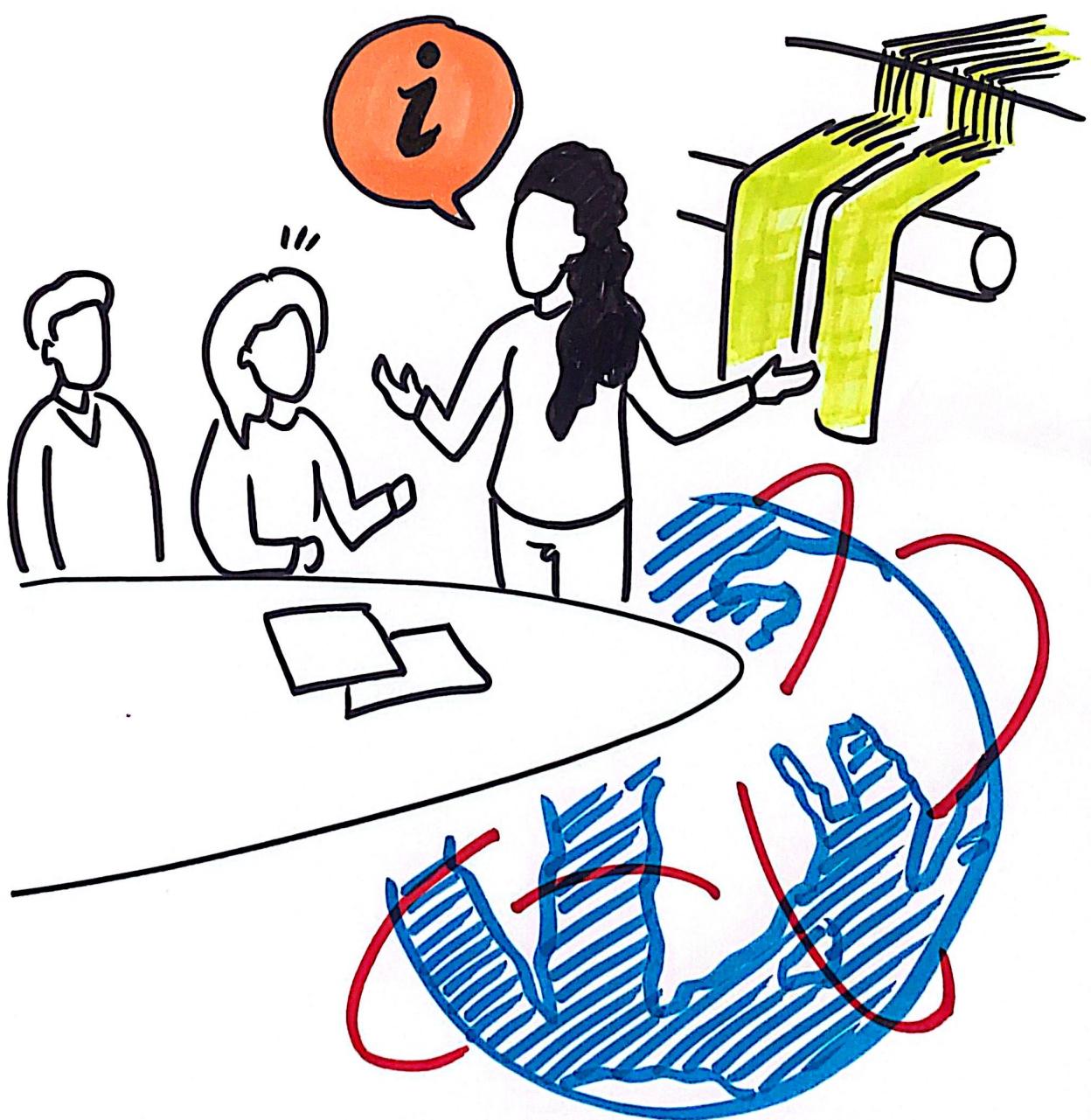
A PLAY SPACE =

FOR PEOPLE to EXPLORE, DISCOVER &
INTERACT WITH the LATEST INNOVATIONS
in TECHNOLOGIES & PROCESSES...



• CUSTOMISE • REPAIR • REUSE •

DIRECT TRAINING OF NEW
TECHNOLOGIES to INFLUENCE
the SOURCE of MANUFACTURING



TRAINING on INTERNATIONAL
LEVEL (eg. TEXTILE MANUFACTURE
POPULAR COUNTRIES eg BANGLADESH)

GET LOCAL COUNCILS INVOLVED



DEVELOP ACCESS to LOCAL NETWORK



WORKSHOPS FROM LOCAL SPECIALISTS...



CONTACT SPECIALISTS FOR THEIR SERVICES

IMPROVING EDUCATION...



MAKING THEIR
UNDERSTANDING RELATABLE...



THE IMPACT
ON SOCIETIES



CONSEQUENCES
OF PROCESSES



UNDERSTANDING
ALTERNATIVES

WITH THIS
KNOWLEDGE, THEY
WILL MAKE MORE
CONSCIOUS, INFORMED
+ SUSTAINABLE
DECISIONS...



SHIFTING the VALUE & the MINDSET....

THIS IS £50 NOW... IT WILL
BE WORTH £150 in 2 YEARS
TIME...



SWAP SHOP

ENCOURAGING
'SWAP SHOPS'
(REFRAMING
PRE-OWNED)

