

FRAGMENTS STUDIO

biomaterials

research about
aesthetics of local
waste streams



goal

creating a cookbook
focused on washable
materials

design

research about
ergonomics of a
button



goal

creating 3
parametric molds

electronics

research about
small inputs/outputs
that do not need
an electric circuit
(e.g: NFC chip)



goal

integrating 1 electronic
piece in a button

academic research

plastic to plastic recycling releases more microplastics
(Ecoage, 2025)

construction is the main waste stream in Belgium
(Innoviris, 2025)

**could the innovative use of renewable cellulosic materials
change our material world?**
(CHEMarts Cookbook, 2020)

**Demand for Next-Gen Materials Is Projected to Outpace
Supply by 2030**
(Fashion for Good and Boston Consulting Group, 2025)

similar projects



FM BUTTONS

25% of fruit and
vegetable waste



TextileGarden.

urea, potato
starch



collagen-based
bioresin

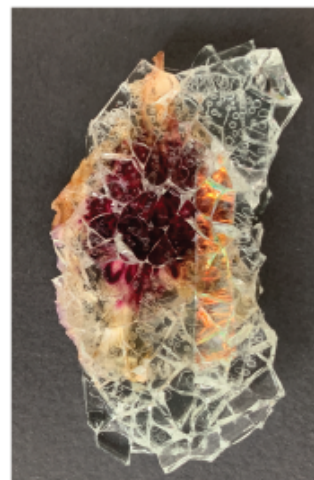
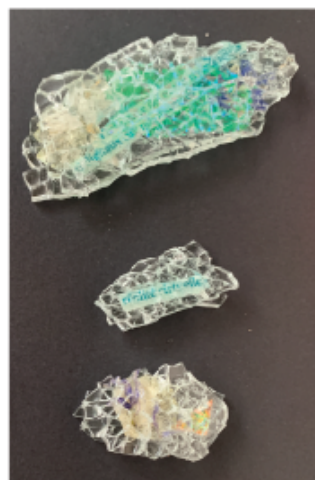
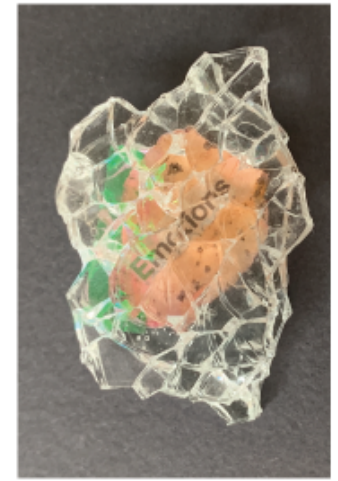
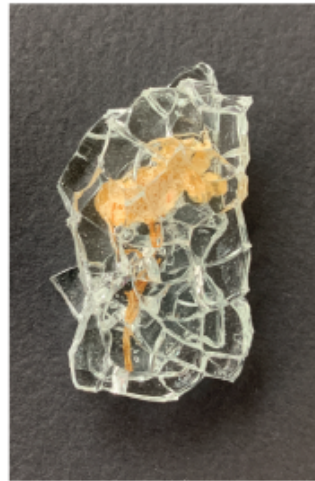


CLARA BESNARD



old glasses

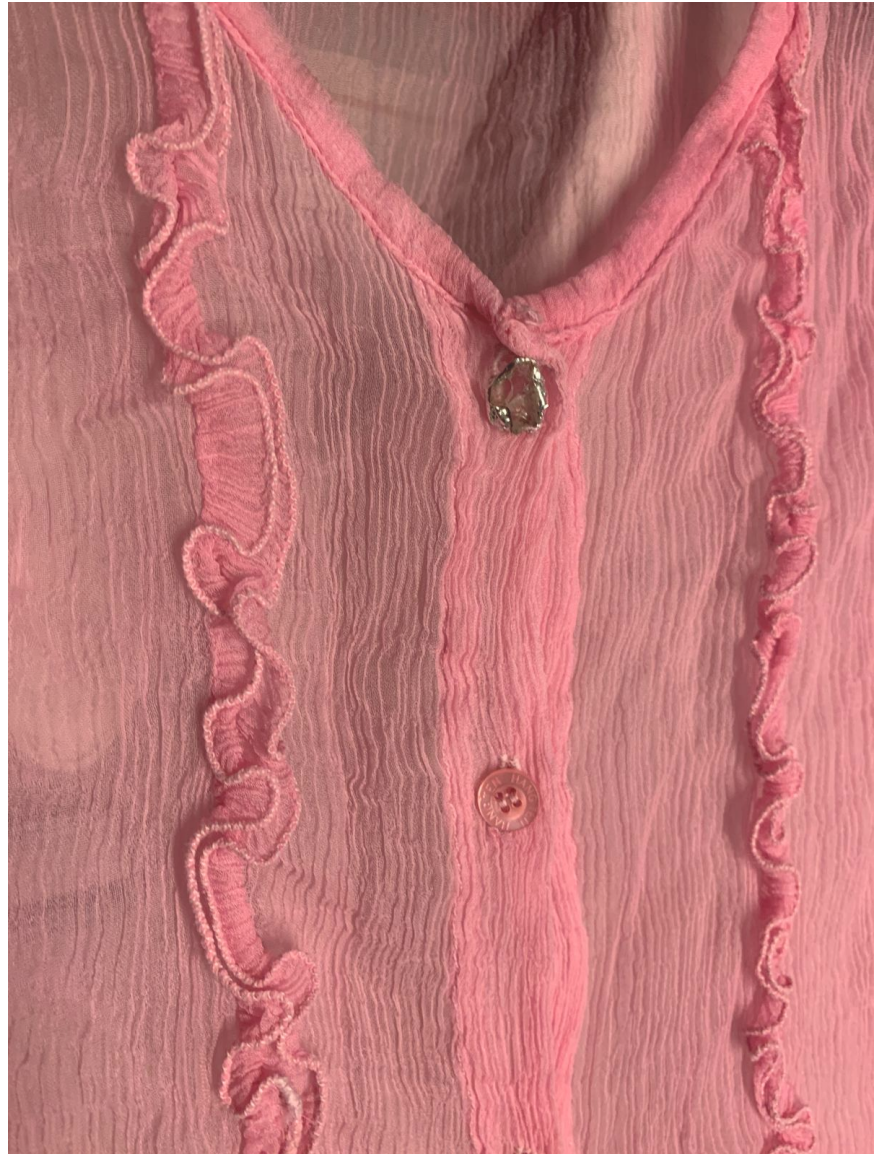
prototypes



made from waste
like broken
glass, dried
flowers, paper
using stained
glass and
collage

techniques
credits: own pictures

1st person research



how to create a sewable and washable button ?

timeline

research about
aesthetics of local
waste streams

experiment with
found components

narrow down to 3
working recipes

storytelling

The
Sustainable
Angle
Exhibition

january

february

march

april

june!!

find 10 waste
streams and
potential
stakeholders

mix components
create new
iocomposites
realize wash tests

mold or cast with
parametric design

create a
catalogue

Exhibit and
sell my work

