

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

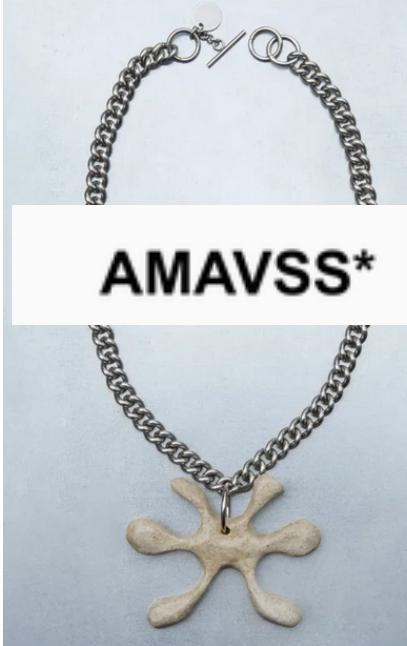


25% of fruit and
vegetable waste

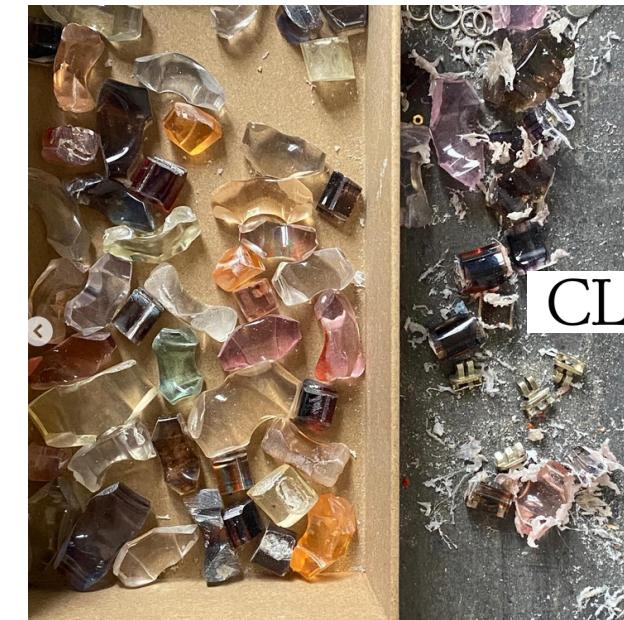


TexfileGarden

urea, potato
starch



collagen-based
bioresin



CLARA BESNARD

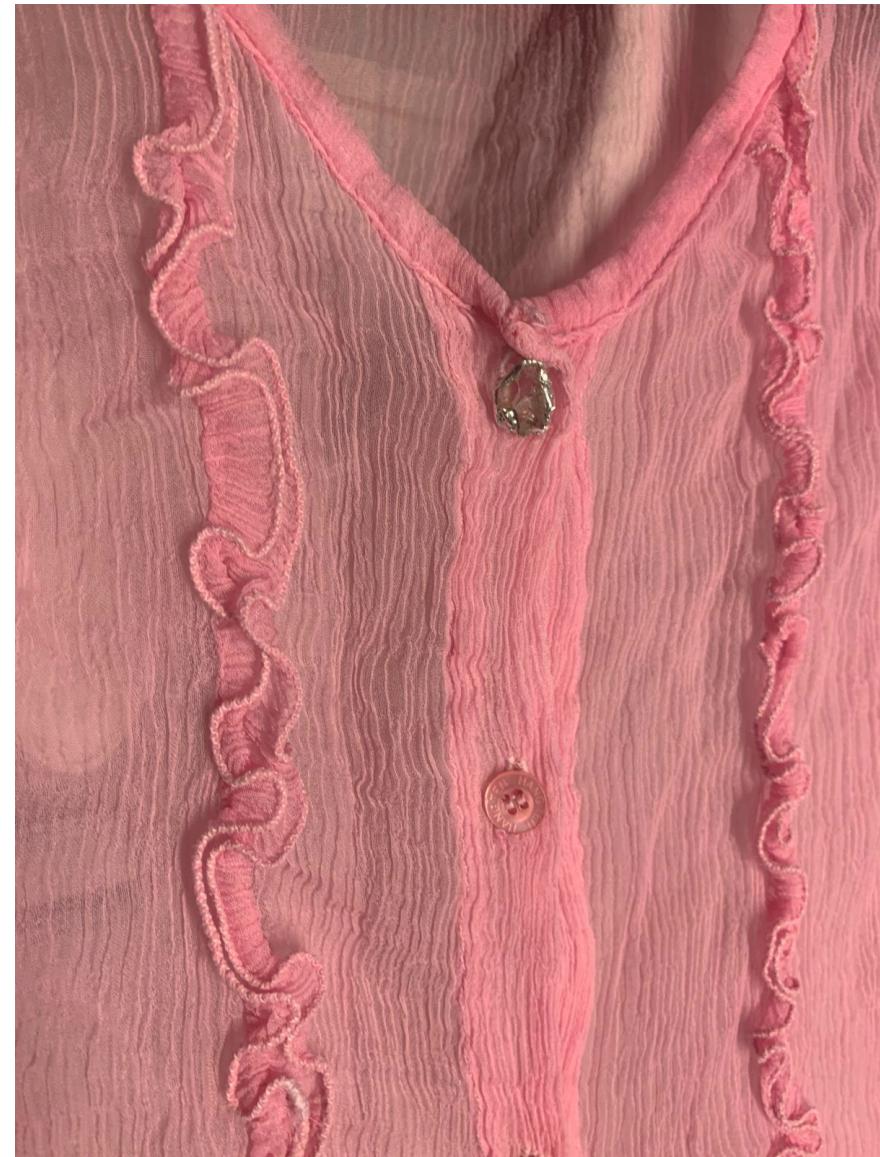


old glasses

prototypes



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

find 10 waste streams and potential stakeholders

february

mix components
create new iocomposites
realize wash tests

march

mold or cast with parametric design

april

create a catalogue

june!!

Exhibit and sell my work

