

Portfolio.

JULIAN HALL
2022/23



Hello! I'm Julian,

a second year student at **Nottingham Trent University**, where I am fulfilling my passion for **product design**. I love to learn new skills and I'm always enthusiastic to expand my knowledge.

I take a **creative approach to design**, producing **meaningful, user-friendly** design solutions.

Aside from being a designer, I am an outdoors enthusiast where I enjoy hiking, climbing and wild camping.

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Education

Nottingham Trent University.
2021 - 2025, Nottingham, UK
Bachelor's Degree, Product Design.

Merchant Taylors' School.
2010 - 2021, Liverpool, UK
A-Level: Product Design, Physics, Biology.

Work experience

James Hall & Co.
Product Developer
June - Aug 2022, Preston, UK

Nigel Ball Construction
Construction Labourer
June - Aug 2021, Southport, UK

- Tasked with the design of food packaging for SPAR products.
- Collaborated with production teams to ensure designs were feasible and cost-effective.
- Presented product concepts and design proposals to stakeholders and senior management.
- Improved technical design skills and gained experience working with a design team.

- Completed a variety of challenging, hands-on tasks, including demolition, construction, digging, and site clean-up.
- Demonstrated resilience and self-discipline by consistently completing difficult manual labour tasks.
- Contributed to the success of the projects by assisting a skilled worker and ensuring that all tasks were completed efficiently and safely.

- Worked with members of the maintenance team and provided assistance on tasks.
- Improved team-working skills and learned relevant skills for maintaining equipment in a food manufacturing and warehousing facility.
- Developed a better understanding of the importance of maintaining equipment in a food production setting.

Certifications

Certified Solidworks Associate
Dassault Systemes, 2022

James Hall & Co.
Maintenance Assistant
July - Aug 2020, Preston, UK
July - Aug 2019, Preston, UK

Software skills



Procreate



Solidworks



Fusion 360



Figma



Photoshop



InDesign



Illustrator



Keyshot

Design skills

Design Methods.
Sketching, user/market research, journey mapping.

Prototyping.
3D Printing, Arduino, model making.

Awards

Bronze Award - Starpack Students Competition.
Institute of Materials, Minerals & Mining (IOM3), 2022.

J D Thompson Prize for Design and Technology.
Merchant Taylors' School, 2021.

Content



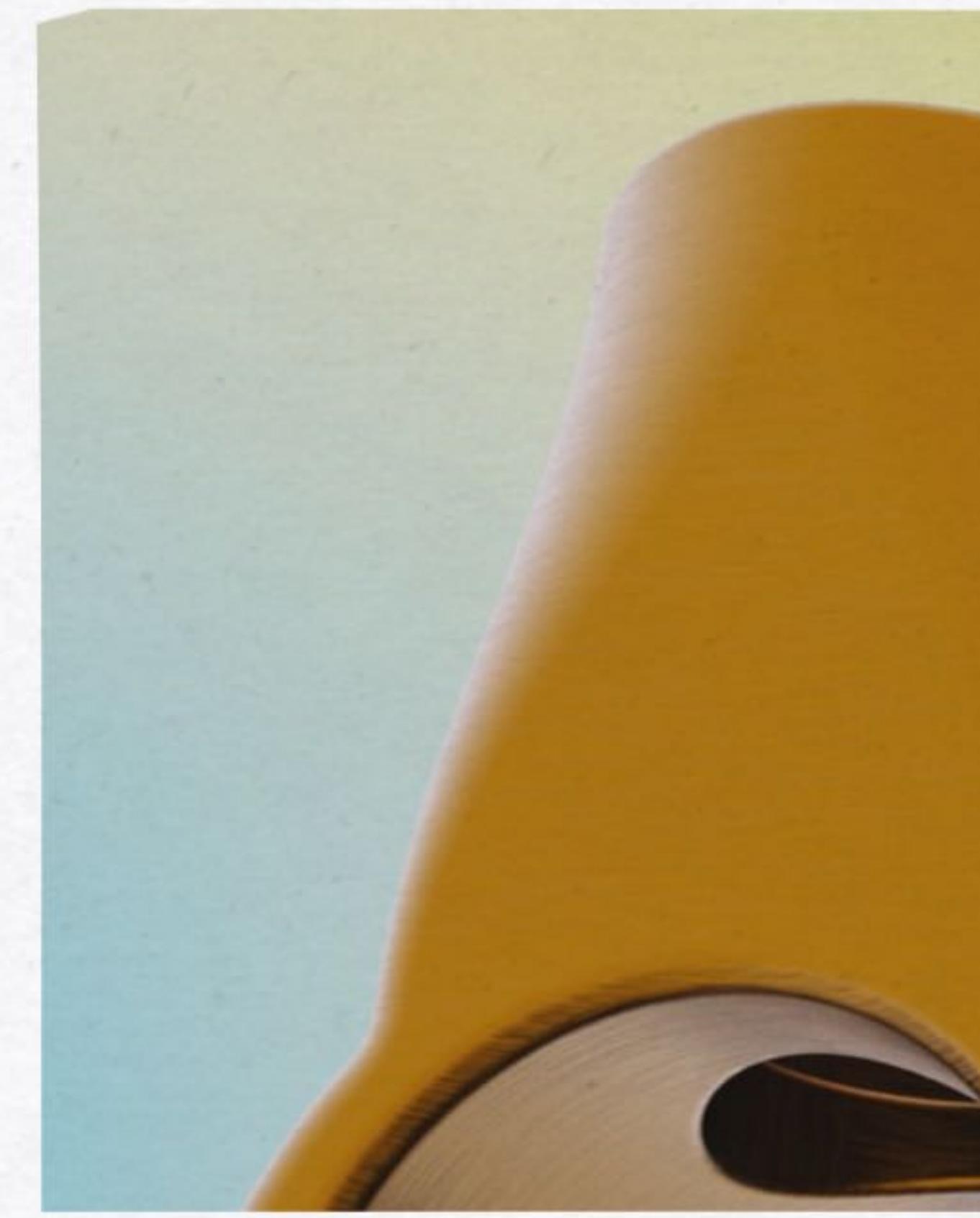
01. REGA | RECORD PLAYER



02. VUE SPLITBOX | POPCORN BOX



03. FRY AGAIN! | OIL STORAGE



04. ALPKIT | POLE SPLITTER

01. REGA RECORD PLAYER

rega

“Design a **portable record player** which is **powered through a wind-up mechanism** that would deliver the required power to play a six-minute story track, for use by an adult with a child.”

Type: Consumer electronics project
Time: 4 Weeks
Team: Individual project



01. REGA RECORD PLAYER

Context

Studio Hiraeth is a start-up company seeking to provide parents with an alternative to the **screen-based media that currently dominates children's lives.**

I worked with them and British audio manufacturer **Rega** over the course of 4 weeks, where we looked into innovative ways to deliver a **magical story-based bedtime experience**, delivered via a record player.



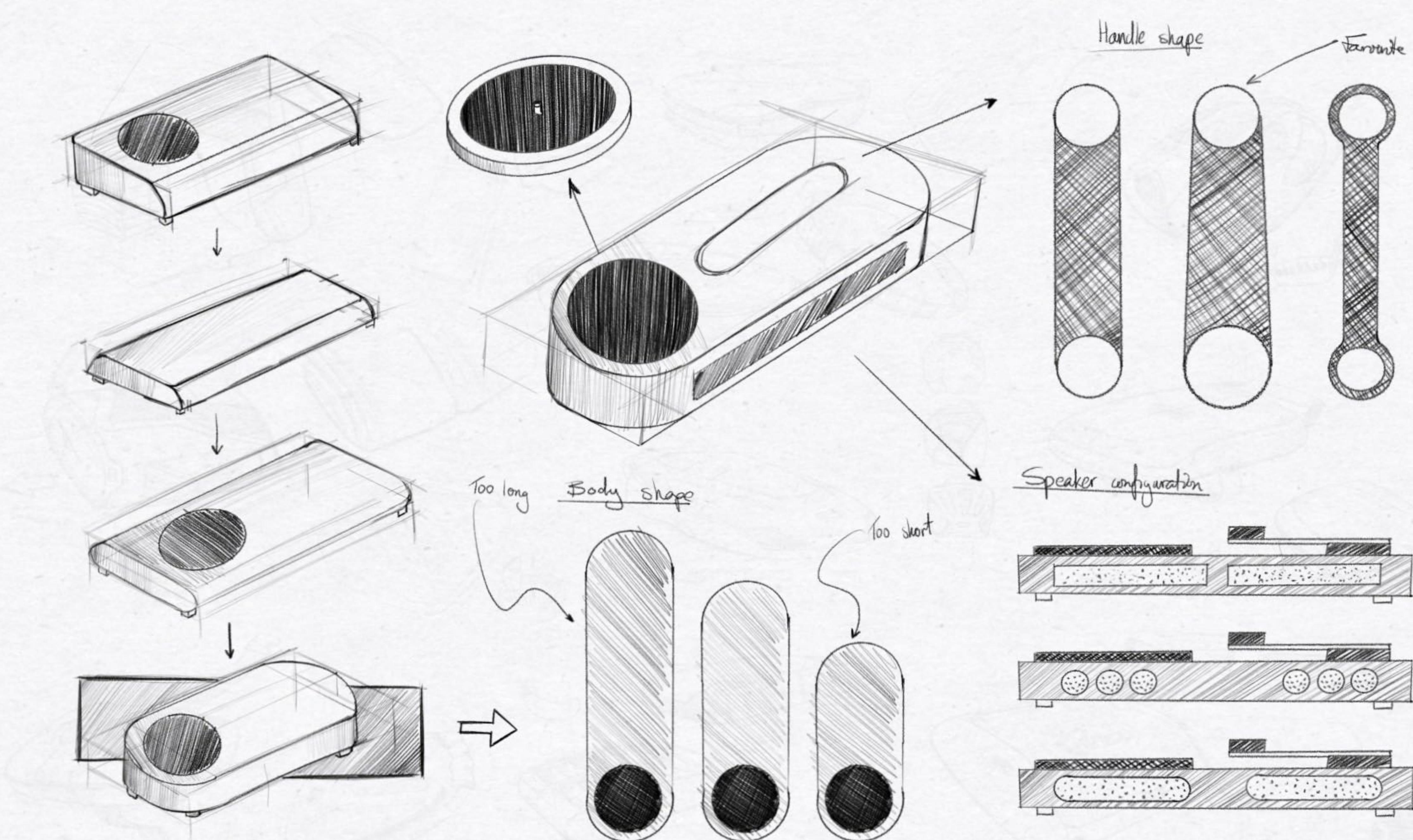
01. REGA RECORD PLAYER

Exploration

Analysis of existing record players.

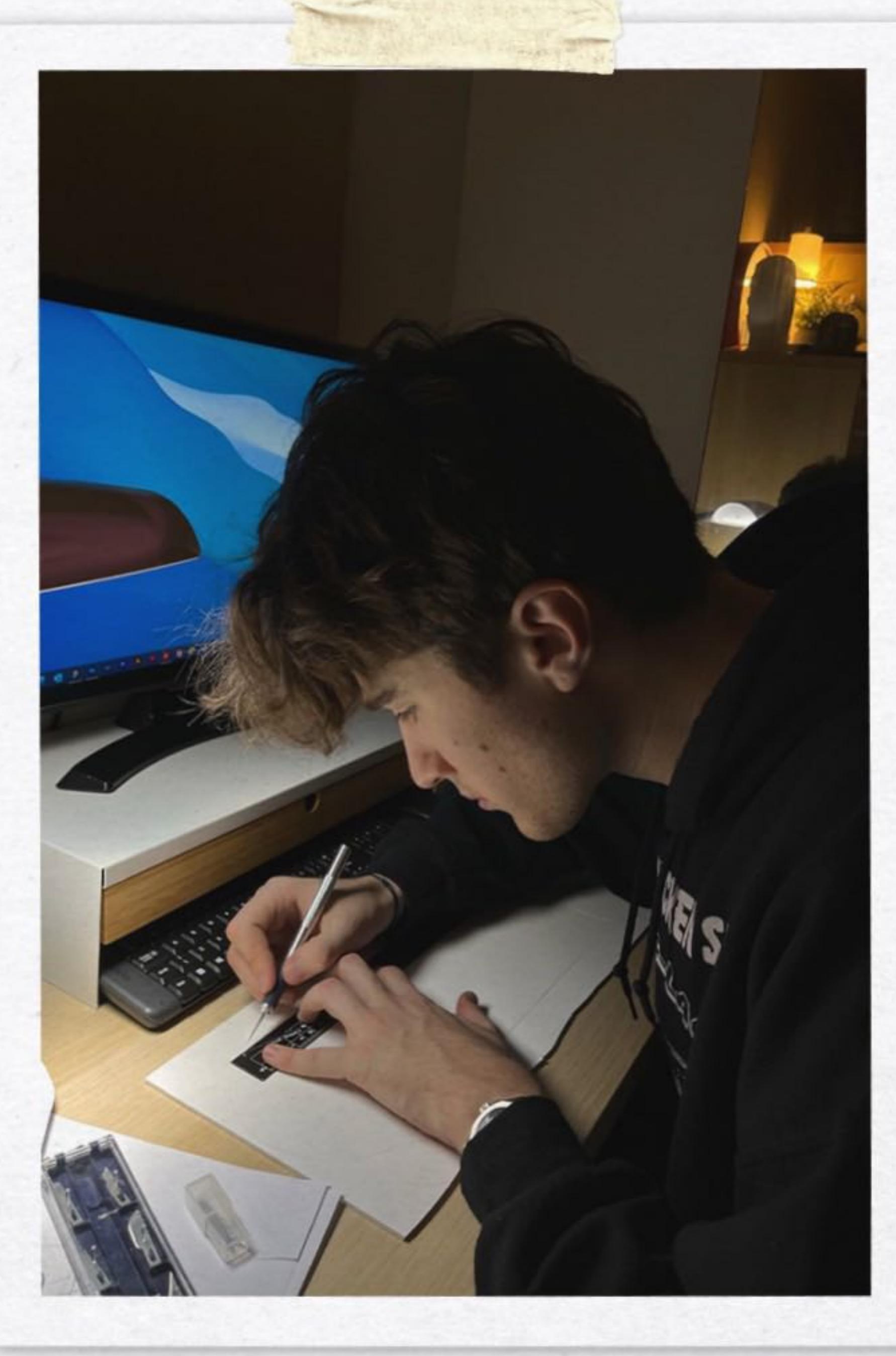


Noticeably tactile.

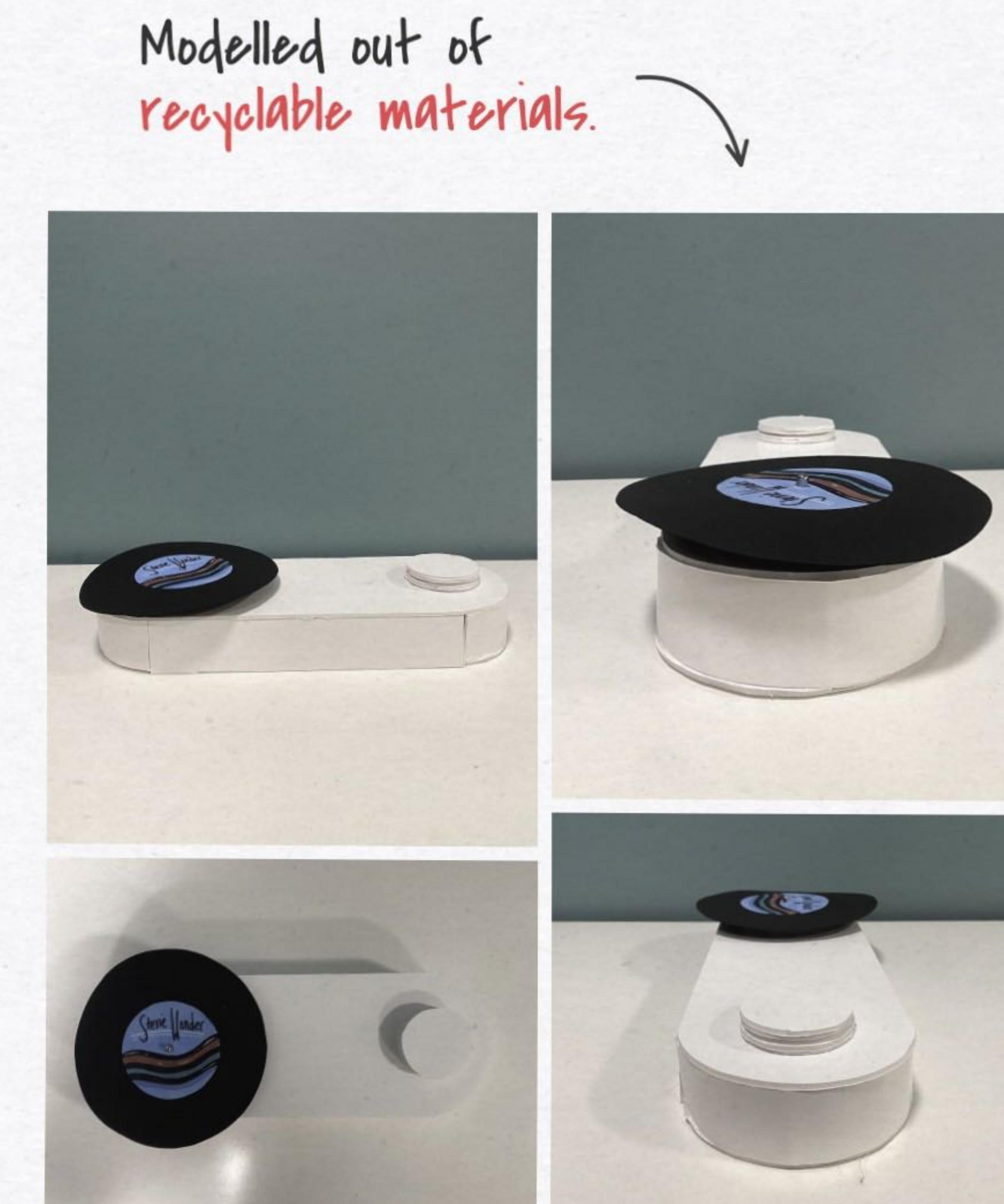


01. REGA RECORD PLAYER

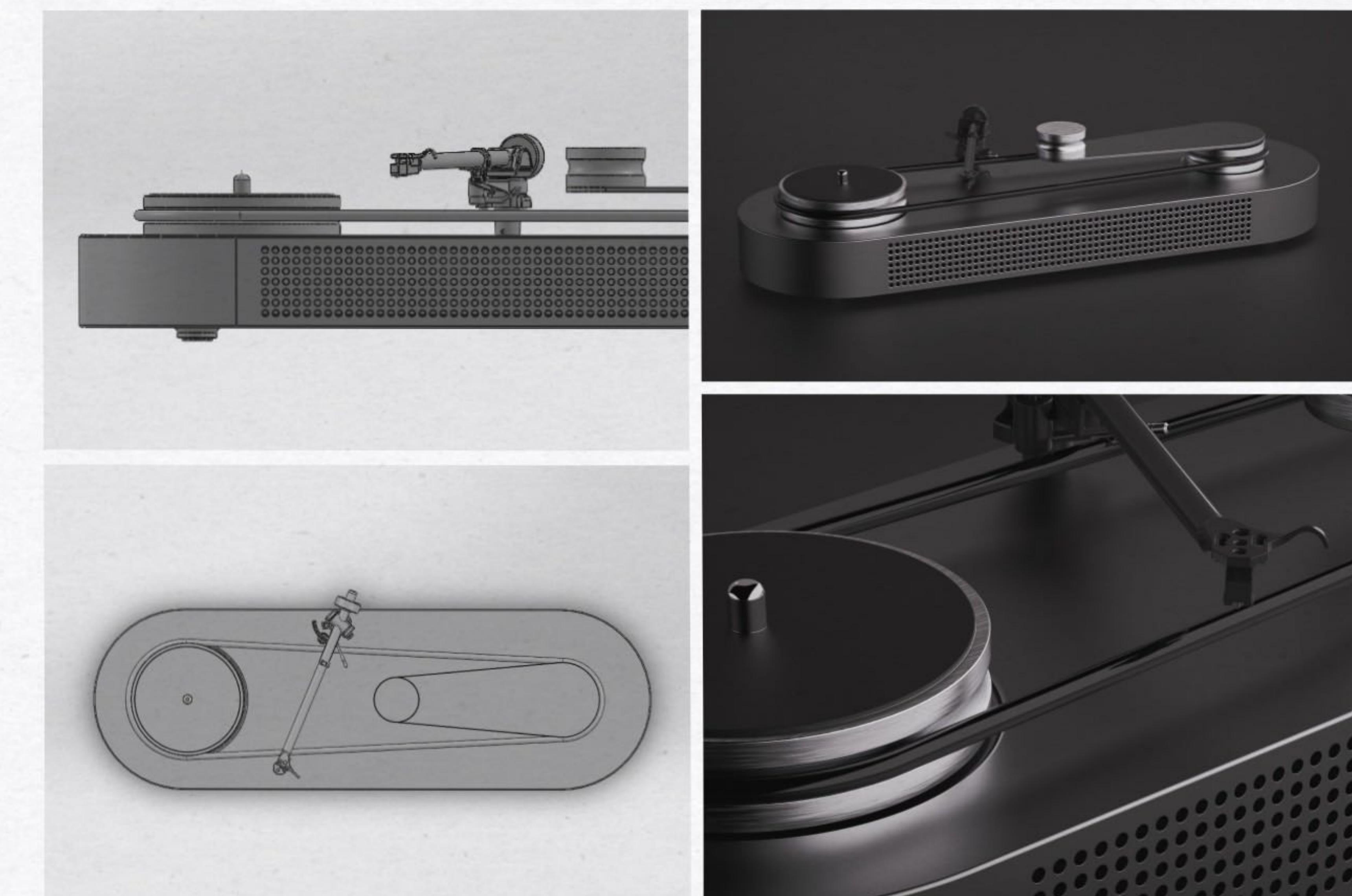
Development



Cut out pieces of foamboard,
hot glued together.



Modelled out of
recyclable materials.



used physical model to inform design
decisions during the CAD process.

Logo Redesign

Primary logo:



Secondary logo:



Rounded corners,
not as striking.



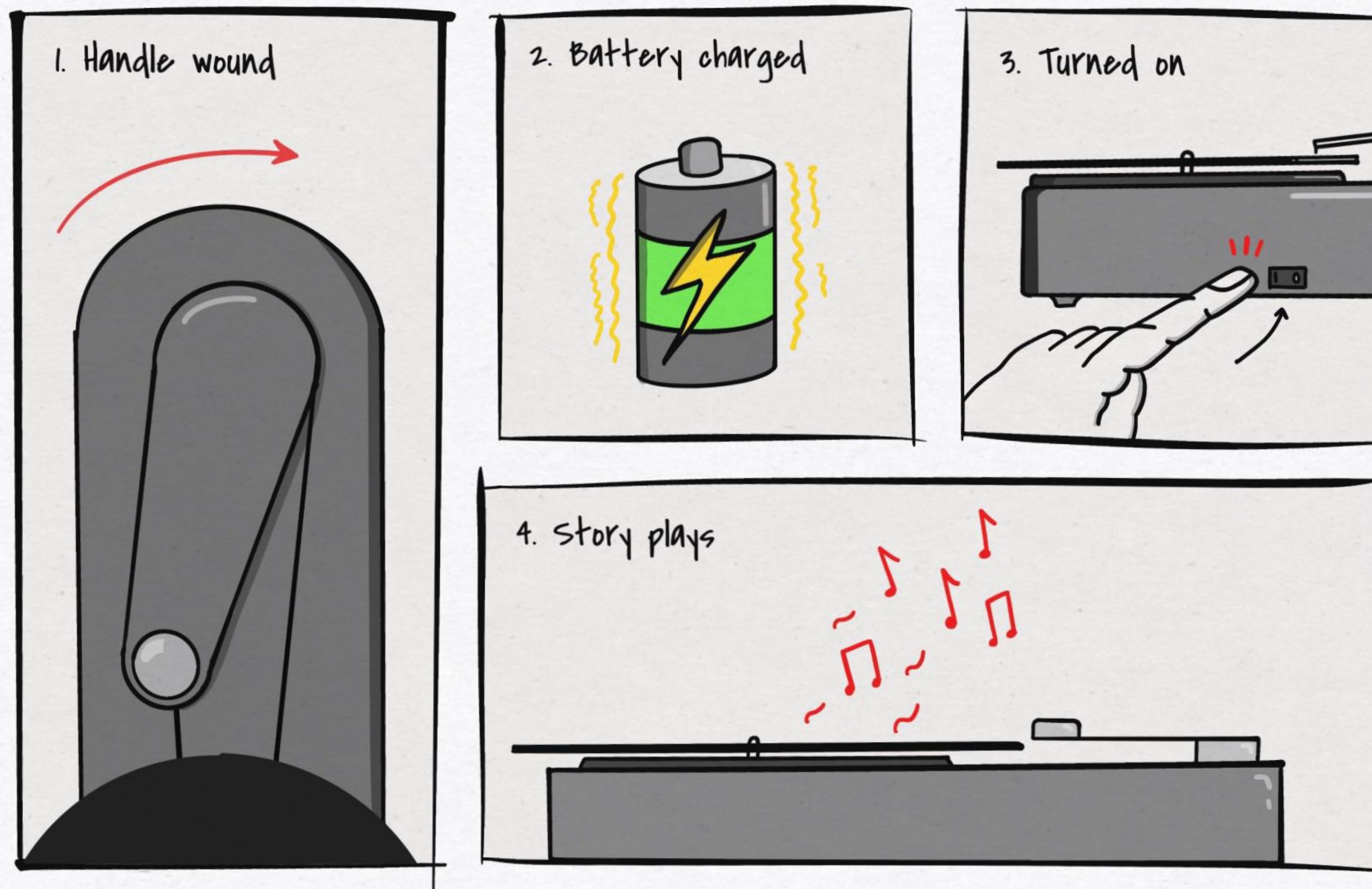
softer font,
more approachable.



Smiley face incorporated into text,
portrays a child-friendly brand.

01. REGA RECORD PLAYER

user interaction

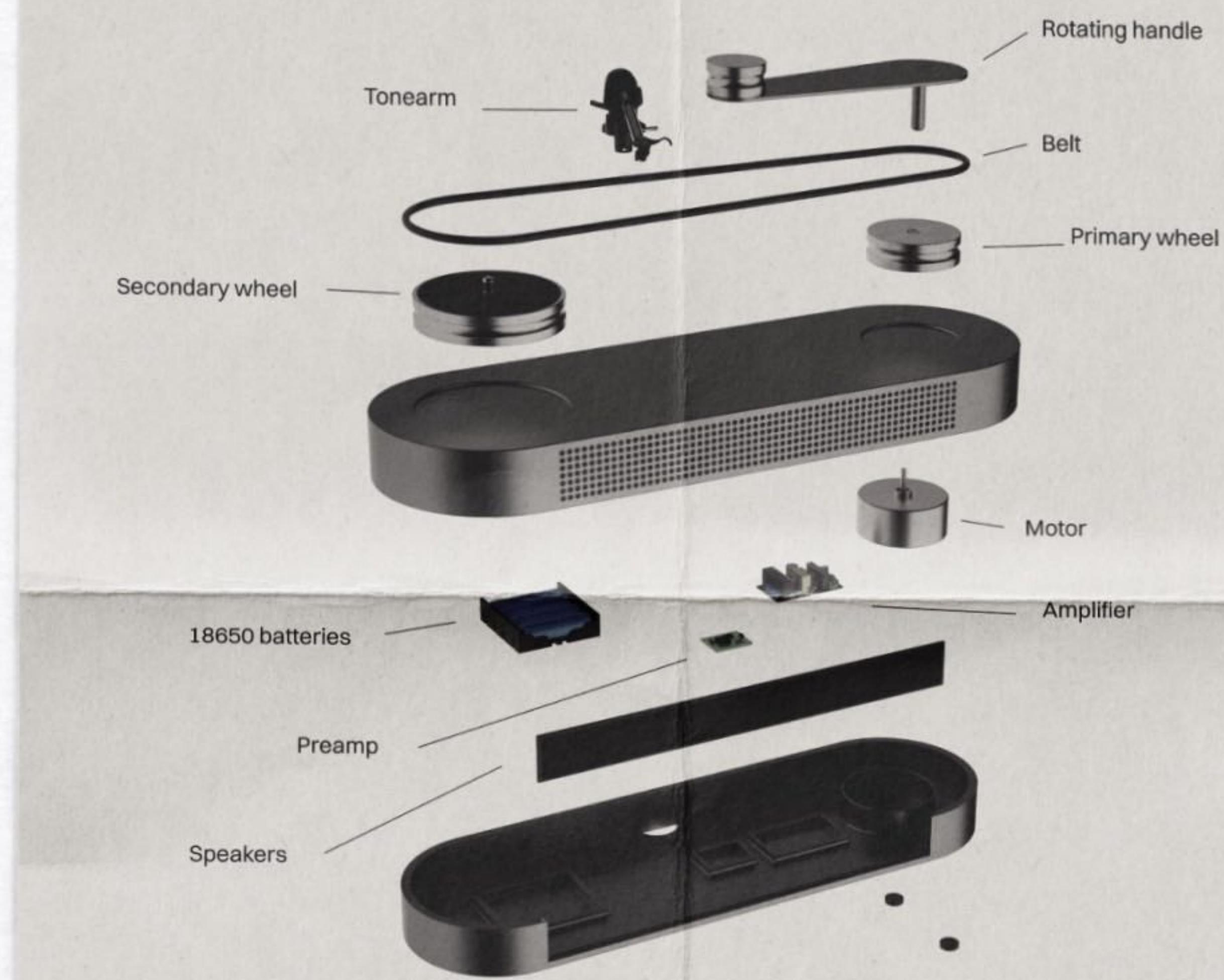


Material

Aluminium 6061

Manufacture

Casting & milling



Part Name	Material	Amount Used (g)	Material Cost (£kg)	Part Cost
Foot x 4	Rubber	3.36	1.12	0.0037
Pulley (small)	6061 Aluminium	75.5	3.26	0.25
Pulley (large)	6061 Aluminium	184	3.26	0.60
Top casing	6061 Aluminium	850	3.26	2.77
Bottom casing	6061 Aluminium	685	3.26	2.23
Handle	6061 Aluminium	33.9	3.26	0.12

STUDIO HIRAETH

REVOLVR



02.VUE SPLITBOX POPCORN BOX

Vue Splitbox

“Design a **sustainable packaging solution** that aids a shared social interaction with a **responsible use** of packaging materials.”

Type: Packaging project
Time: 4 Weeks
Team: Individual project



Context

Popcorn can be **messy to eat when sharing**, making it difficult to enjoy the movie and creates mess for staff to clean up.

Sharing a box of popcorn can **increase the risk of spreading germs and bacteria**.

It can be **difficult to divide popcorn equally** among everyone in the group, causing frustration and conflict.



A significant portion of revenue for cinemas comes from concessions.



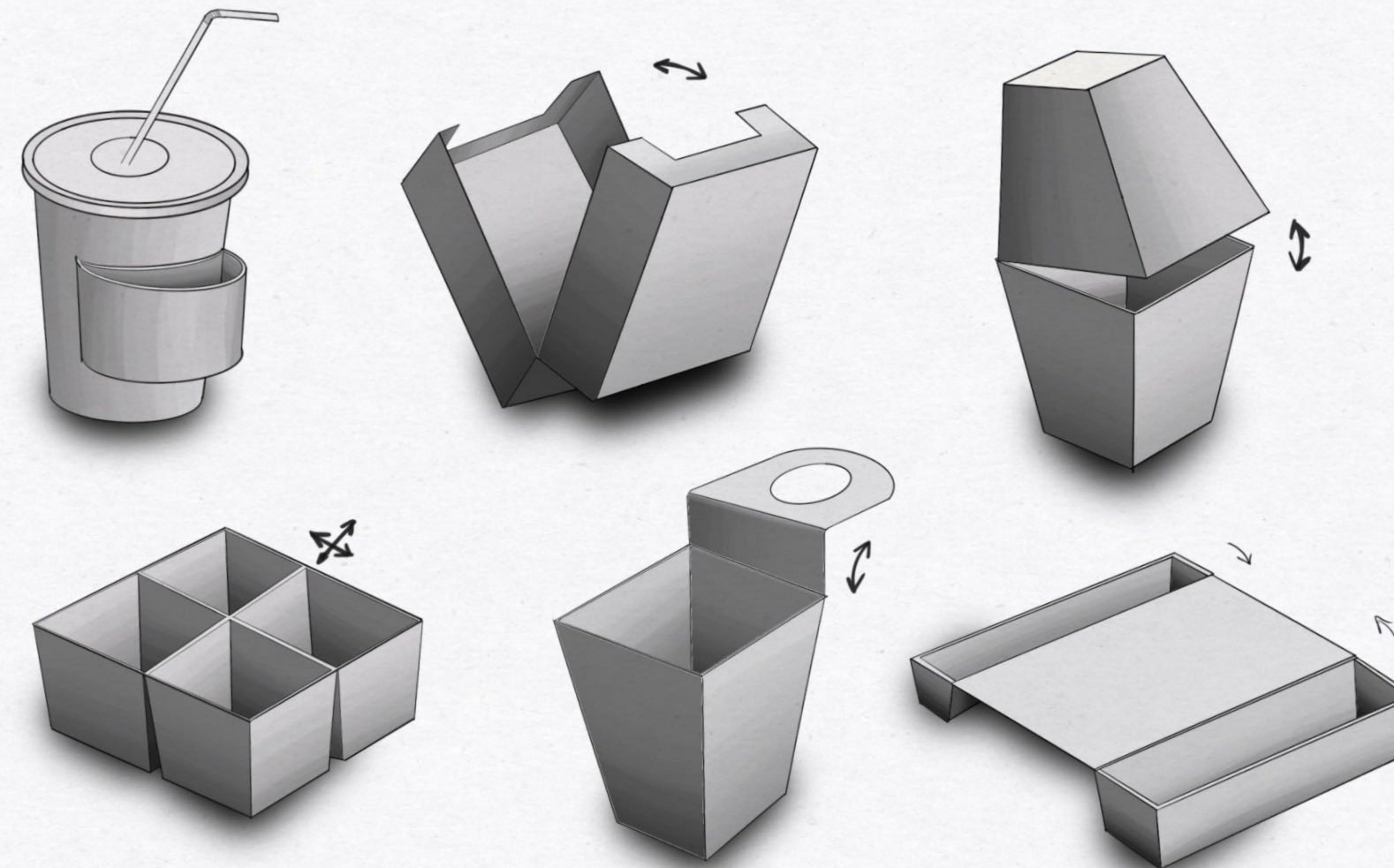
Additional labour required to clean mess, incurs **extra cost** to cinema.



76% of cinema customers visit with one or more other person.

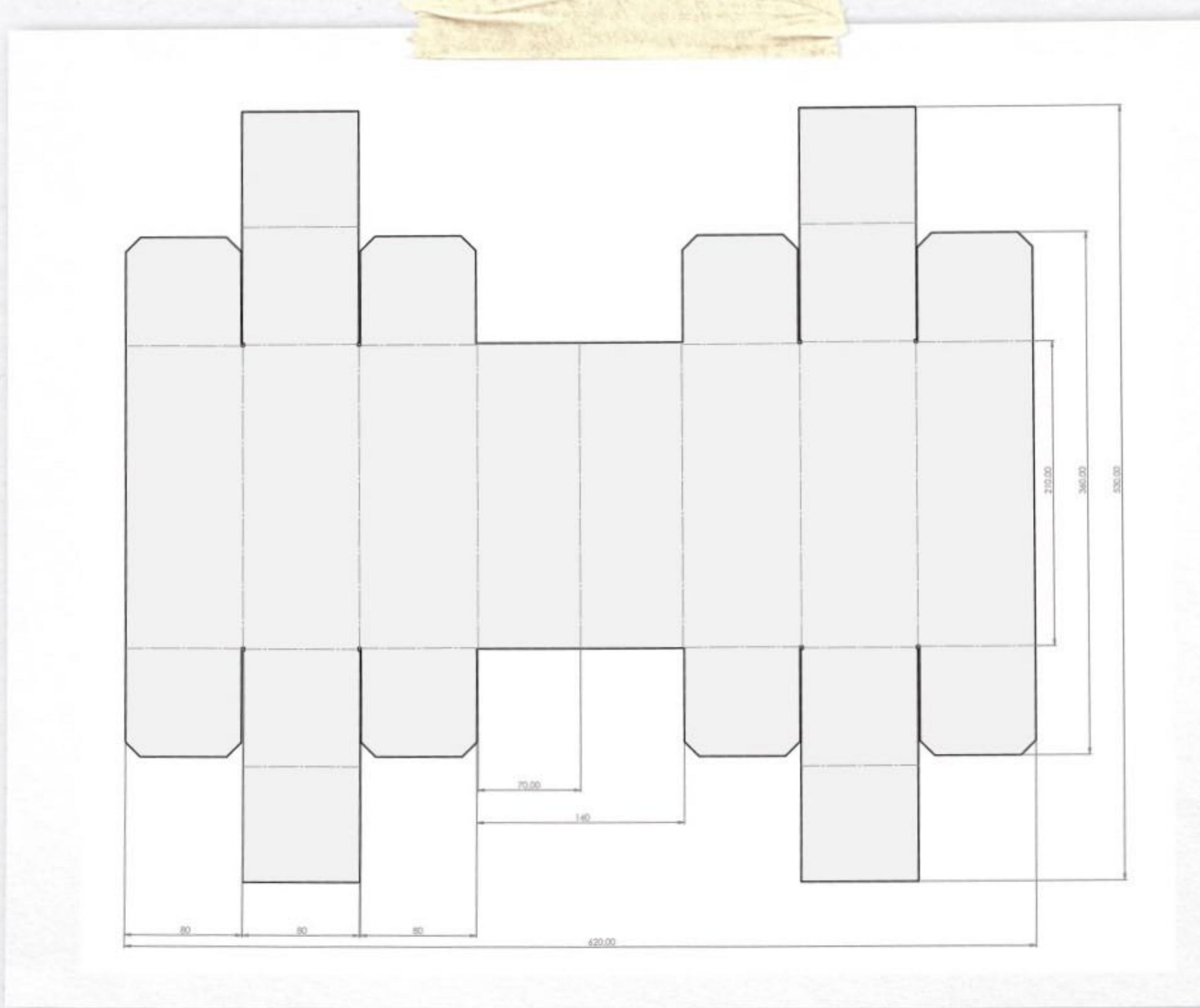
Exploration

Thoughtful and interactive.



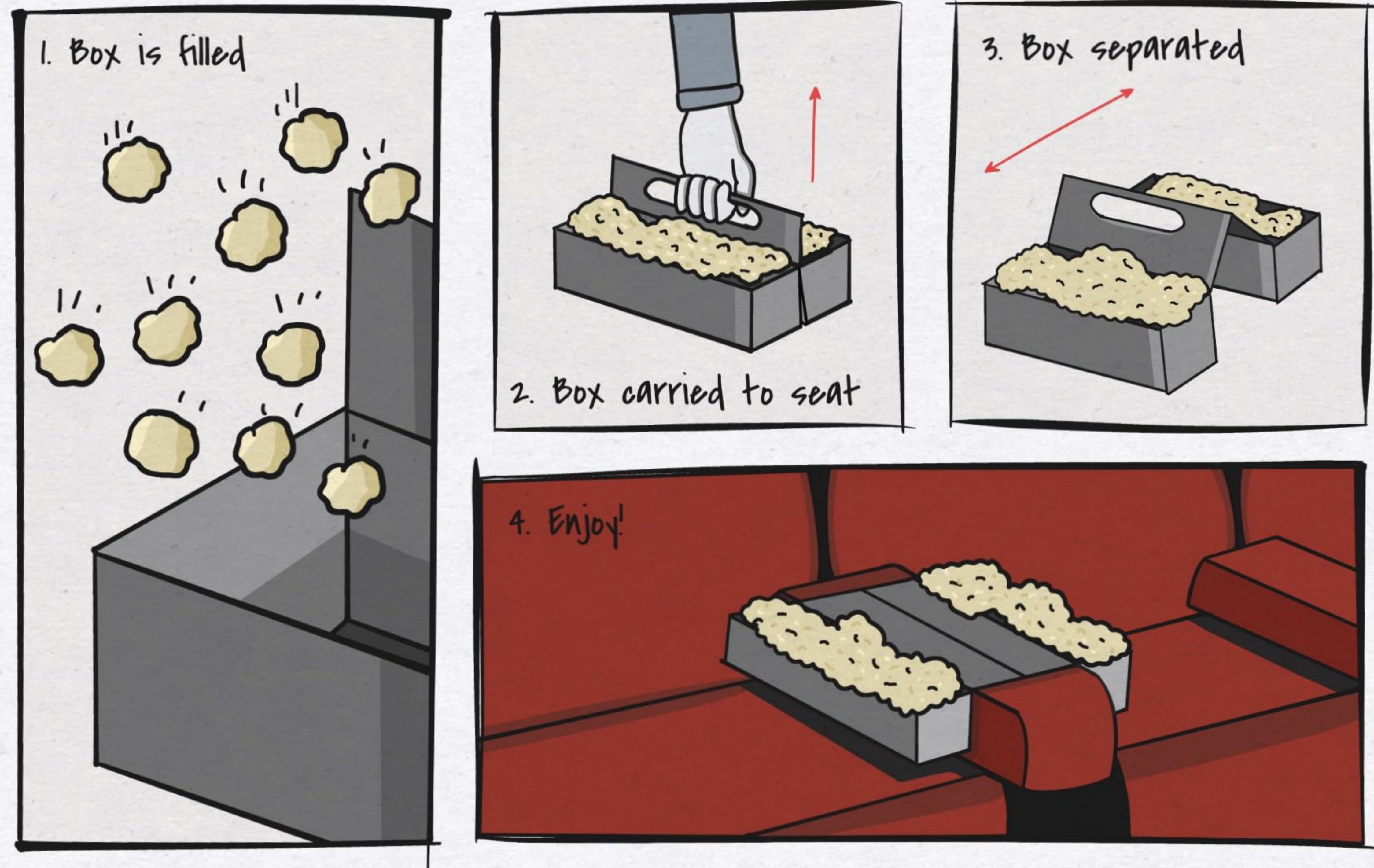
02. VUE SPLITBOX POPCORN BOX

Development



02.VUE SPLITBOX POPCORN BOX

user interaction



OUTCOME | USER INTERACTION

TAKE THE SPLIT



THE VUE SPLITBOX
A NEW SHARING EXPERIENCE



www.myvue.com

03.FRY AGAIN! OIL STORAGE

FryAgain! Oil Saver

“Design a **functional item for the kitchen or bathroom** that is an original concept or a significant improvement on an existing product and **made mainly from plastic.**”

Type: Plastics project

Time: 4 Weeks

Team: Individual project



Context

Two of the top three causes of global deforestation are oil crops, accounting for nearly one-fifth of tropical deforestation worldwide.

5-25 times more CO₂ emissions are produced from vegetable oil crops than most agricultural crops.

300–425 million hectares of agricultural land is dedicated to vegetable oil crops. That's 20-30% of all agricultural land.

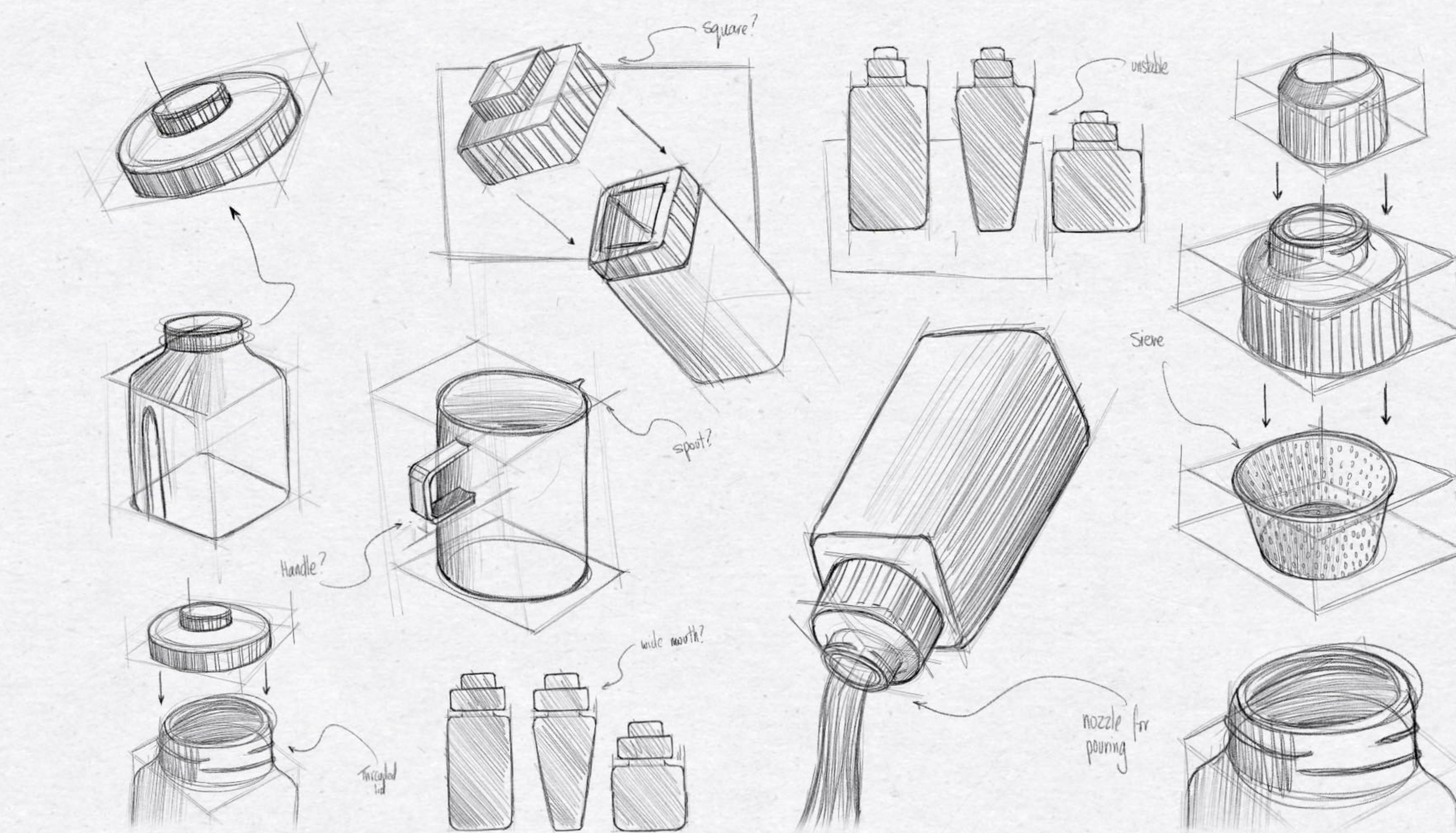


Our rainforests absorb **2.4 billion** metric tons of carbon each year.



Vegetable oil crops take up more land than all other food crops **combined**.

Exploration



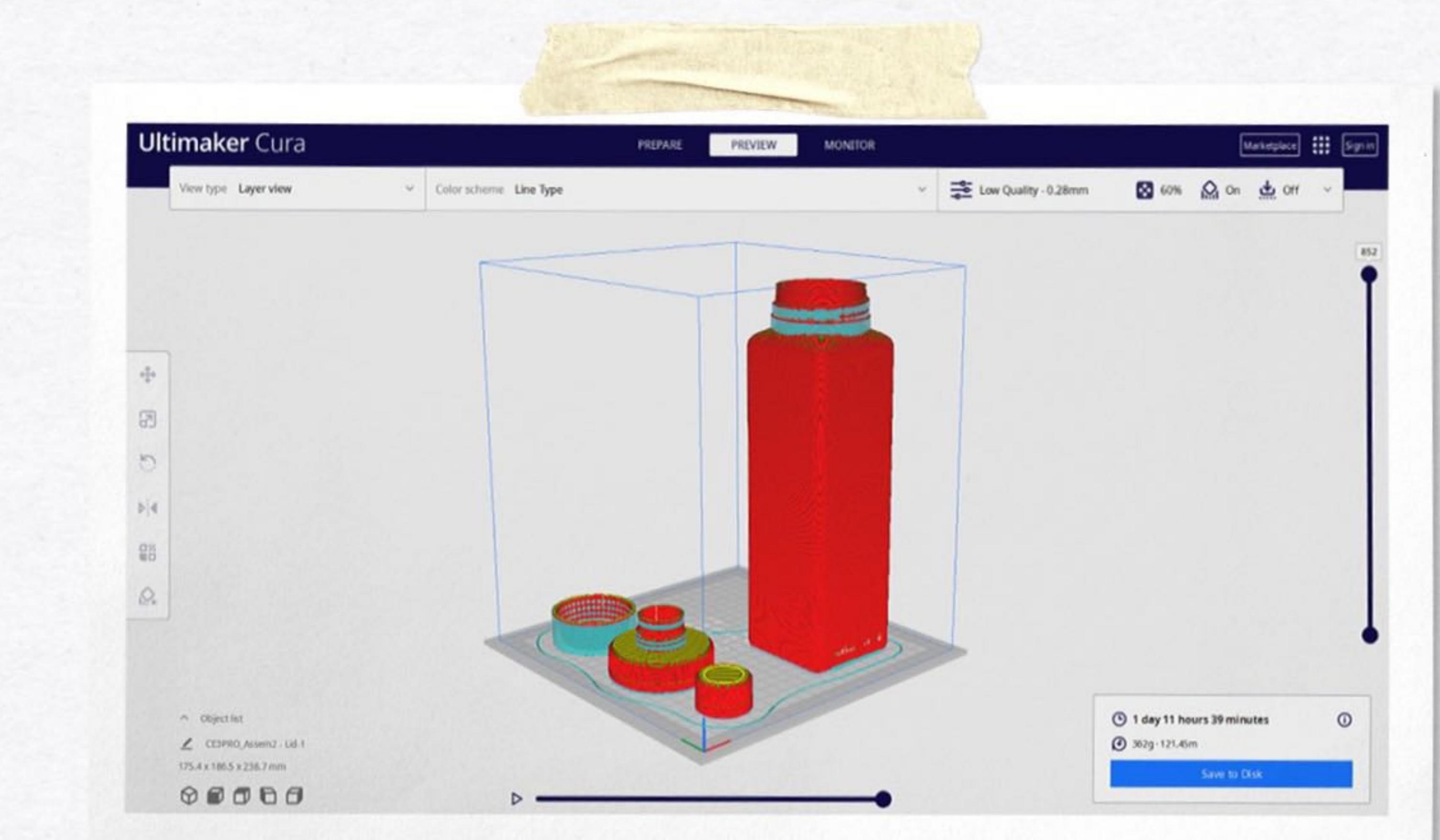
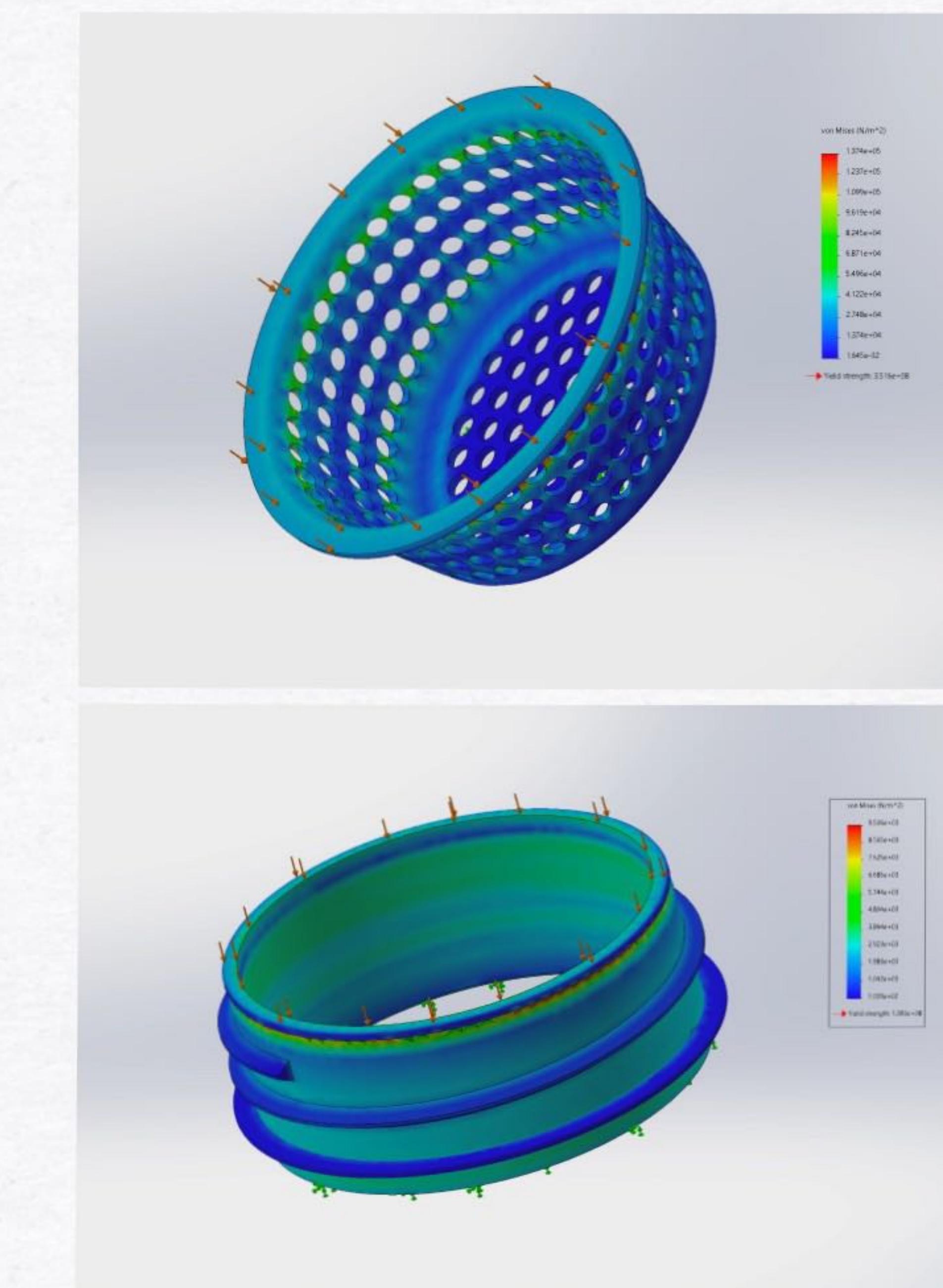
03. FRY AGAIN! OIL STORAGE

Development



Testing the functionality of the threads using **Solidworks Motionstudy**.

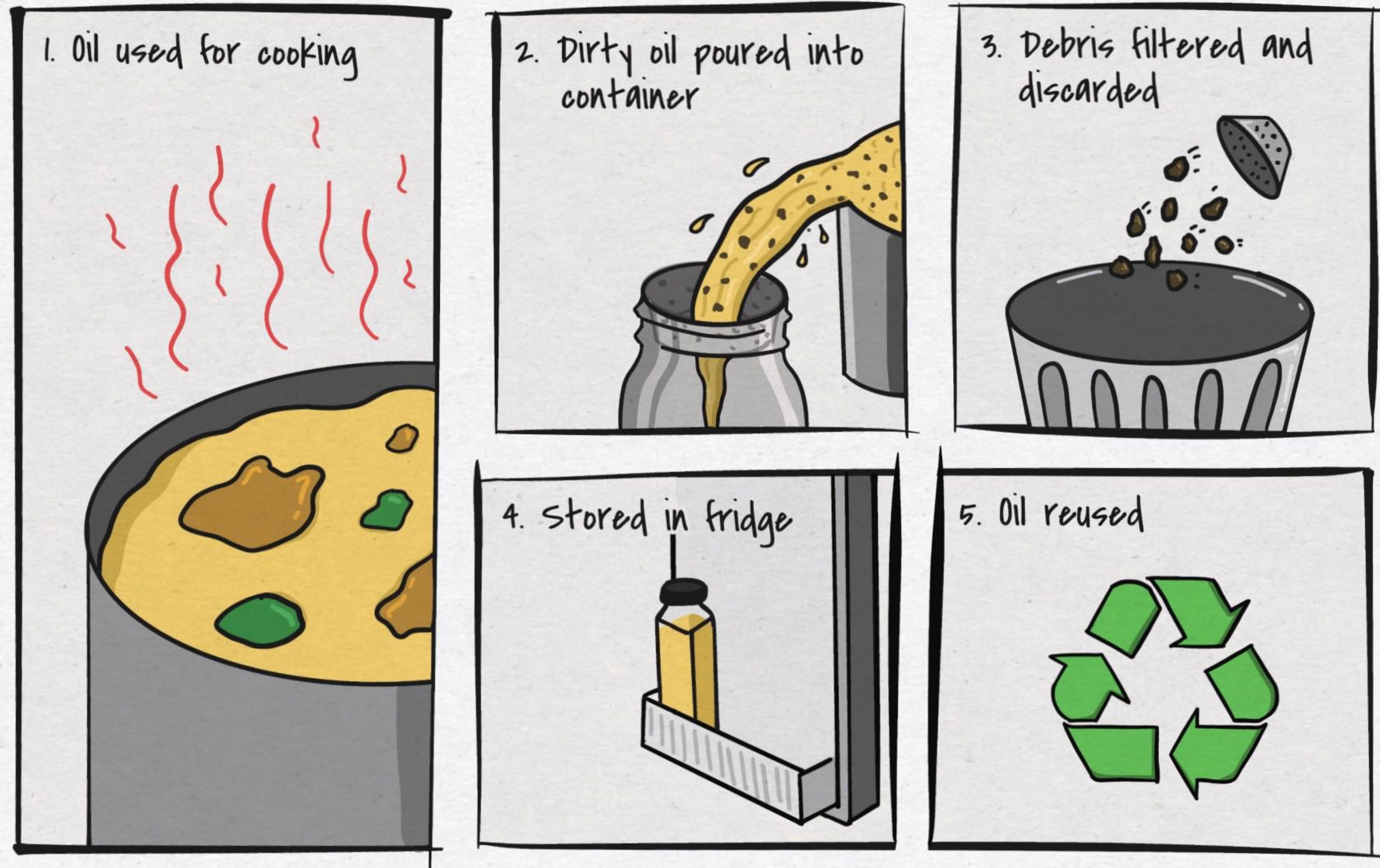
Testing structural integrity using **Simulationxpress**.



Testing product's suitability for 3D printing using **Cura**.

03. FRY AGAIN! OIL STORAGE

user interaction



OUTCOME | USER INTERACTION





04.ALPKIT POLE SPLITTER

alpkit

“Through the **evaluation** of its carbon footprint, **redesign** the Alpkit Soloist tent to improve its carbon credentials and user experience.”

Type: Sustainability project

Time: 2 Weeks

Team: Group of 3

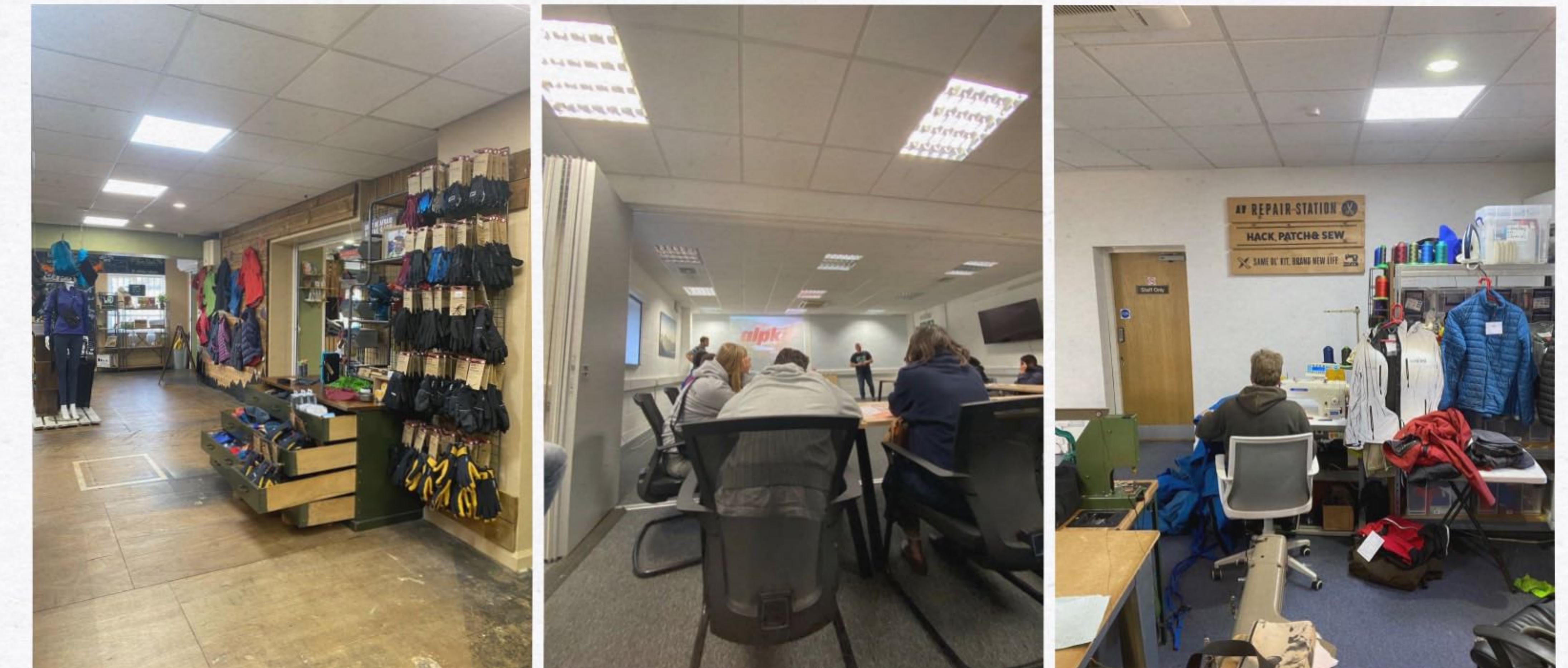


Context

Alpkit is an outdoor brand that prides itself on producing **affordable** and **sustainable** gear for a wide range of activities.

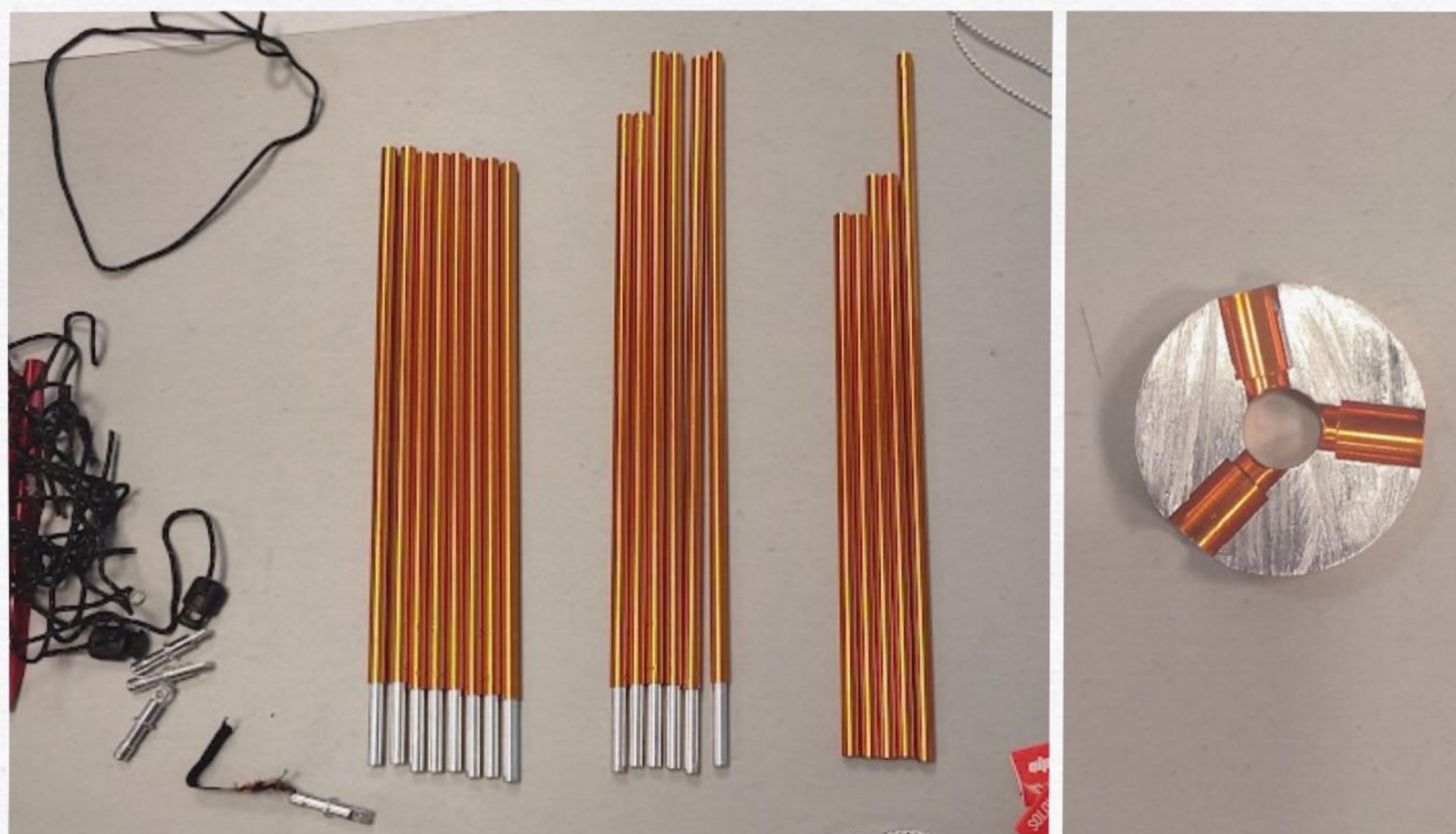
We visited Alpkit's retail store and headquarters to learn more about the company and **gain insights** into its operations.

We then spent 2 weeks working with Alpkit to explore ways to **enhance** their already impressive commitment to sustainability.

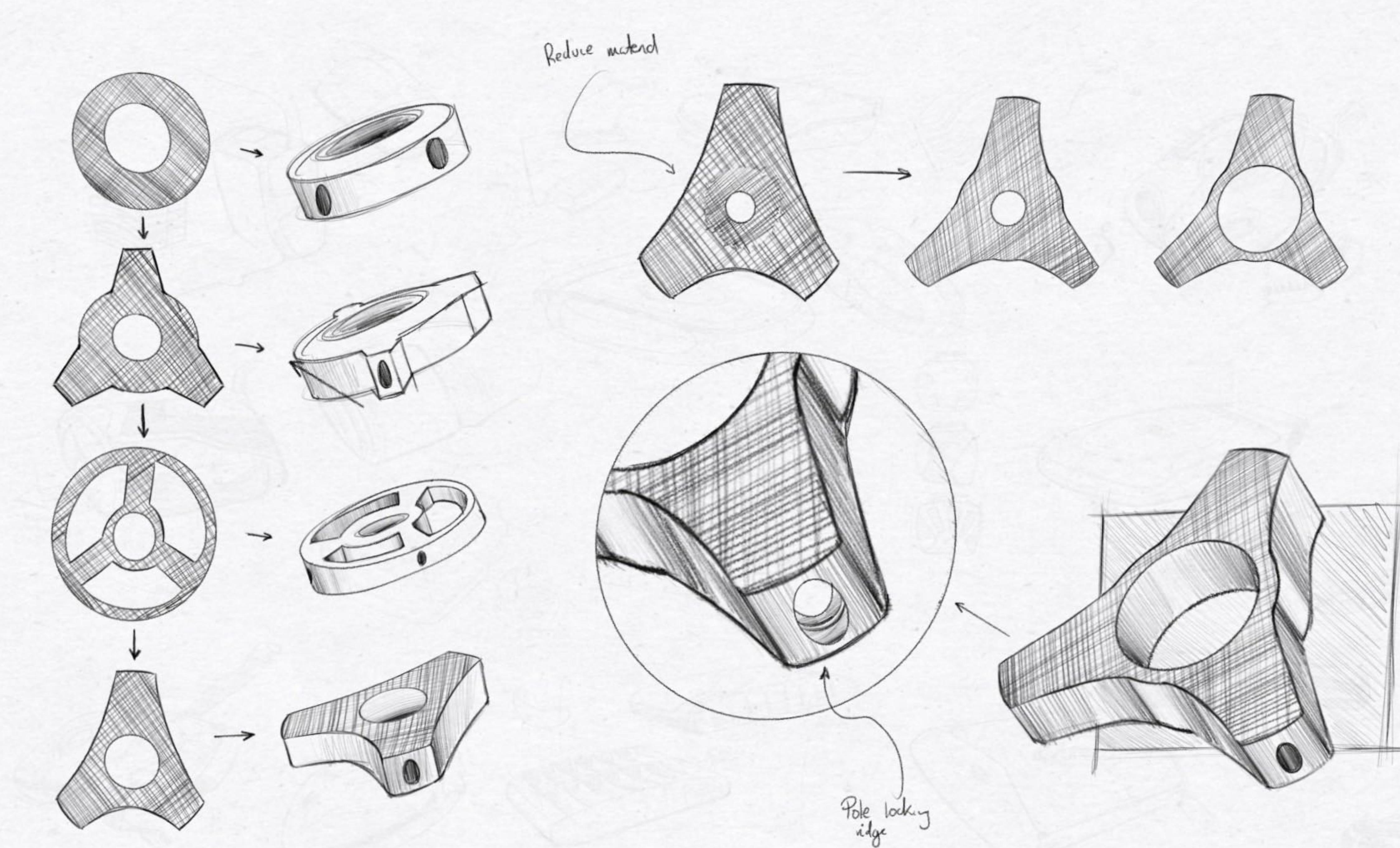


Exploration

Analysing the design of the existing frame and pole system.



Cross sectional view of existing pole splitter.

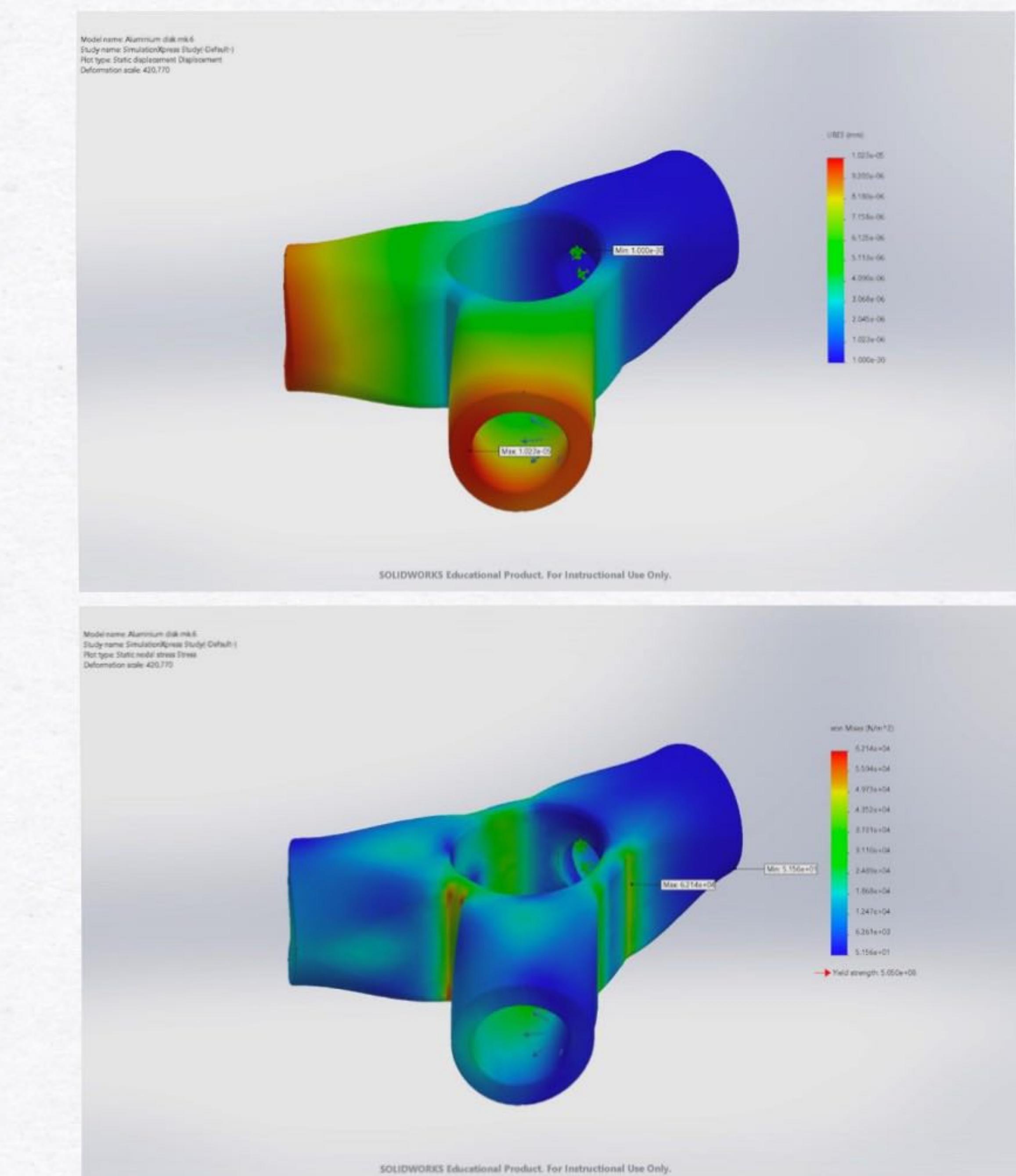
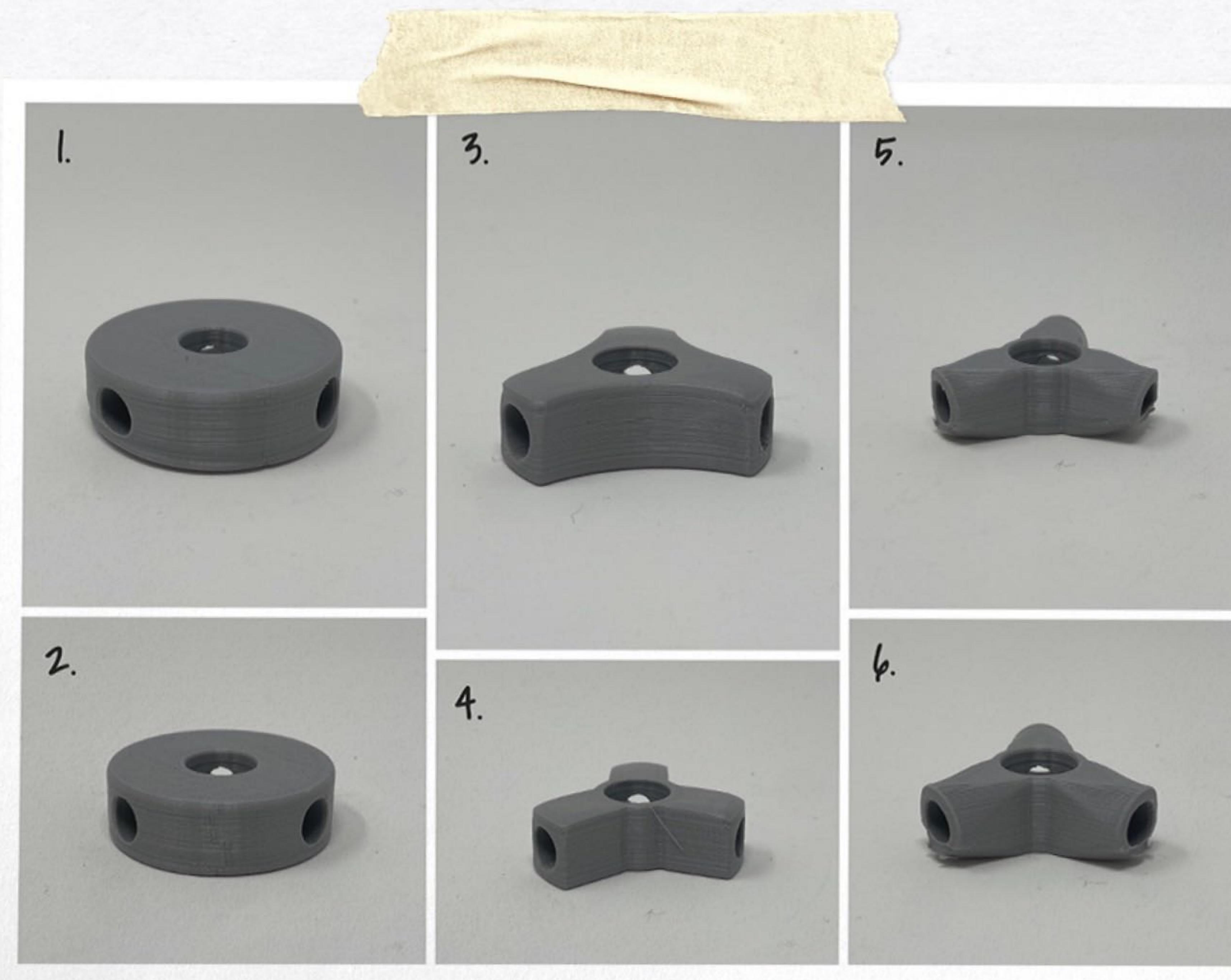


04.ALPKIT POLE SPLITTER

Development

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Parts 3D printed out of PLA
filament using a **Creatlity Ender 3**.

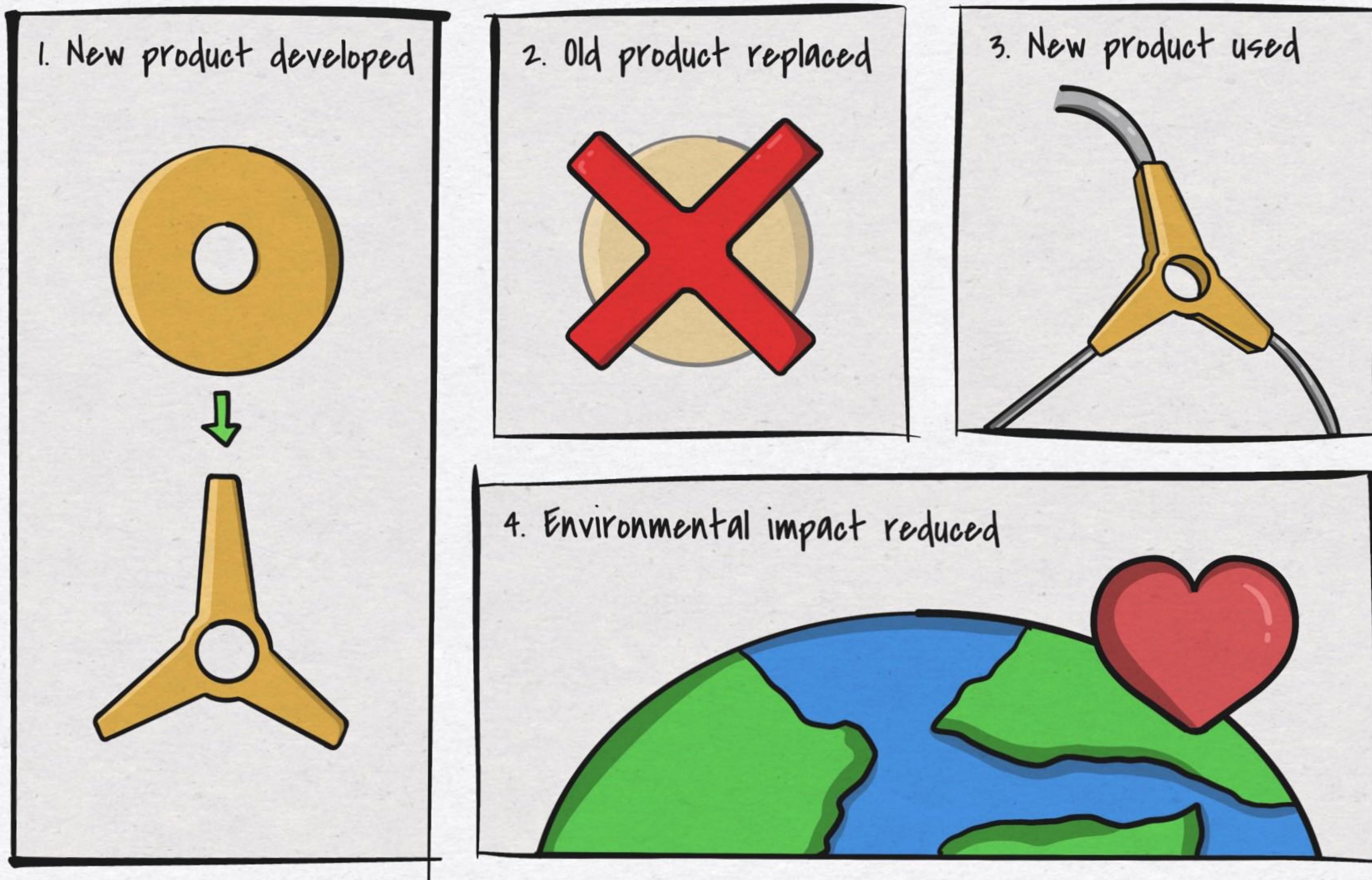


stress test and deformation
test using **SimulationXpress**.

Product rendered
using **KeyShot**.



user interaction



OUTCOME | USER INTERACTION

1.5 TONNES PER YEAR

That's how much carbon dioxide is saved from harming the environment thanks to our new design improvements to our 3 way pole splitter.

This redesigned new shape is stronger, lighter and better for the environment than the previous shape. Saving us money, you effort and the environment from harmful exposure to greenhouse gasses.





SMALL THINGS MAKE BIG CHANGES.

alpkit

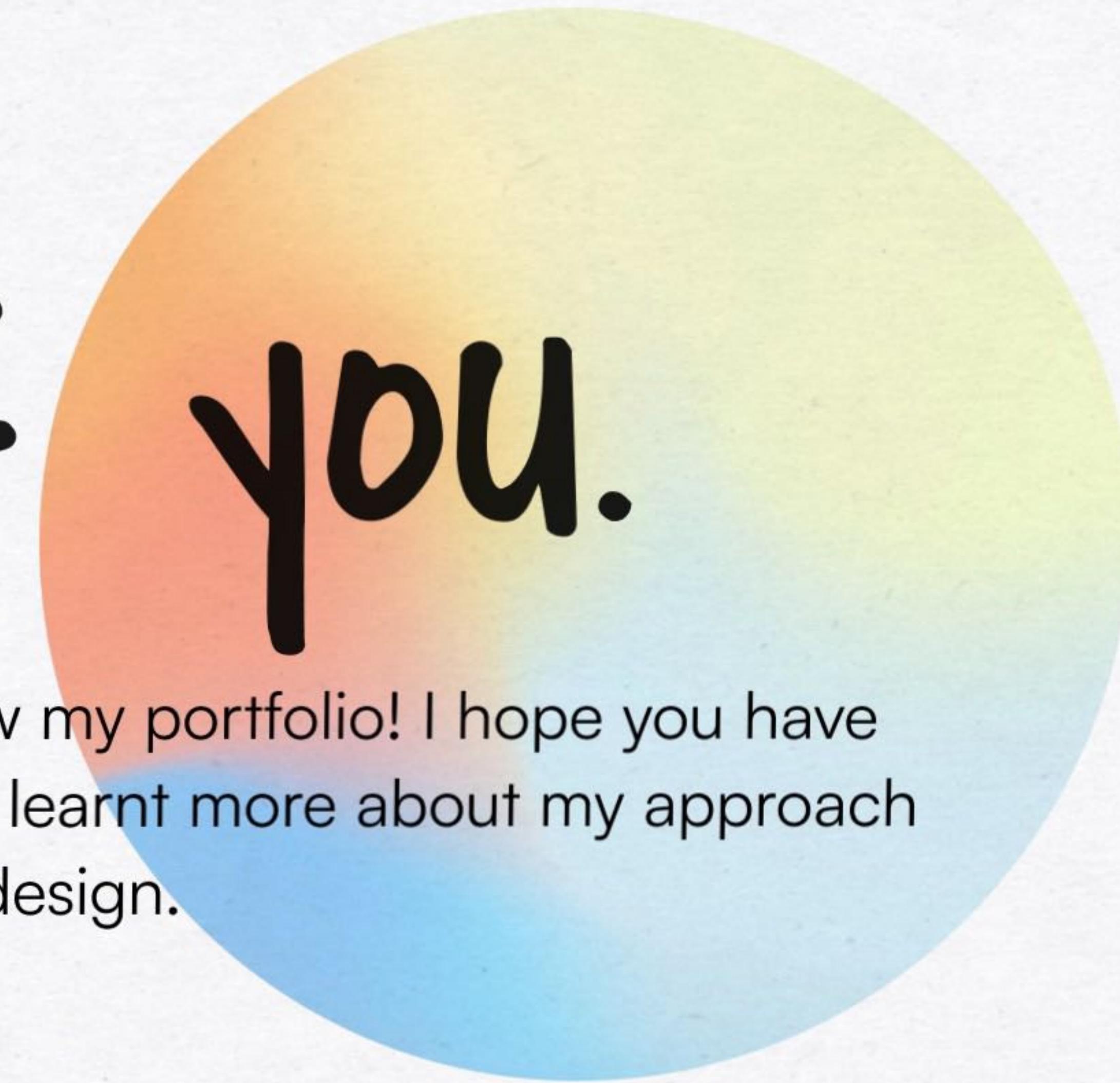
LIGHTER, SMALLER
AND STRONGER.

SAVES 1.5 TONNES OF
CARBON DIOXIDE ANNUALLY.

68% LESS
ALUMINIUM USED.

Thank you.

Thank you for taking the time to view my portfolio! I hope you have enjoyed seeing some of my work and learnt more about my approach to product design.



Please feel free to contact me:
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