

# 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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+44 7740 326637



## 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

- 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.

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

- 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.

## Certifications

Certified Solidworks Associate  
Dassault Systems, 2022

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

- 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.

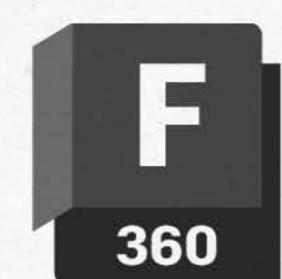
## Software skills



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.

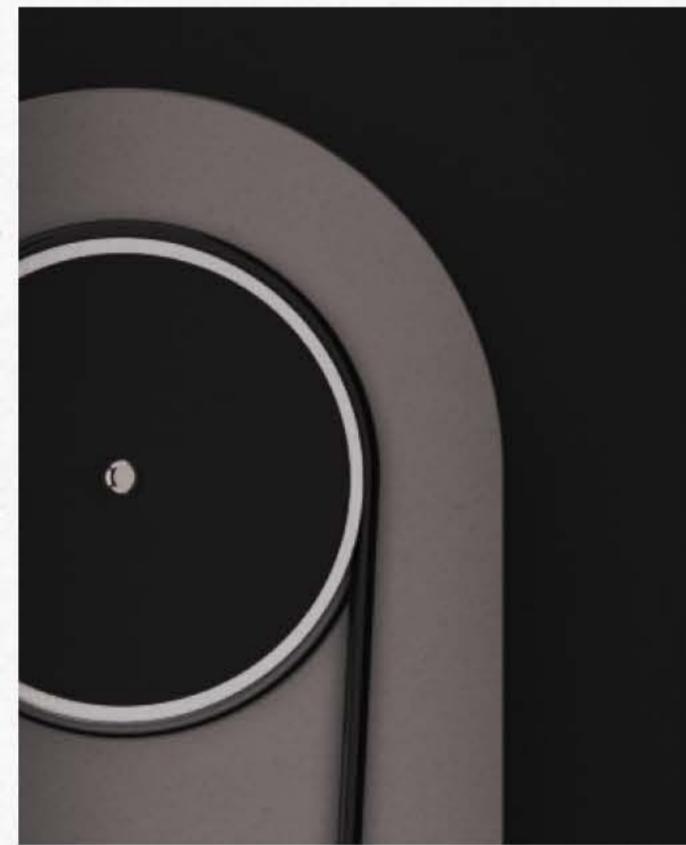
## Awards

**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

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01. REGA | RECORD PLAYER



02. VUE SPLITBOX | POPCORN BOX



03. FRY AGAIN! | OIL STORAGE



04. ALPKIT | POLE SPLITTER

01. REGA RECORD PLAYER

# rega

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“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

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**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.



Minimalistic, ease of use.

Timeless, beautiful design.

Tactile experience.

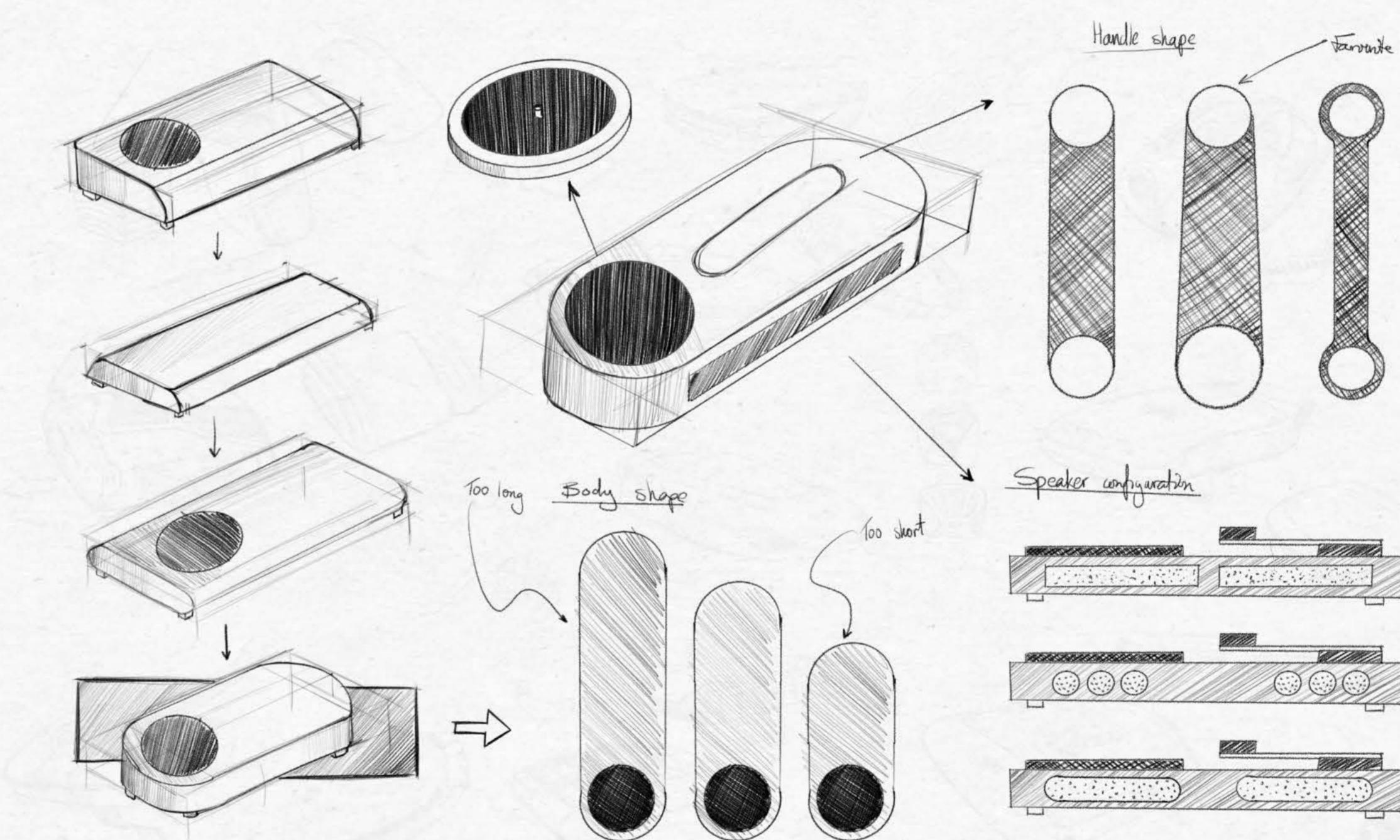
## 01. REGA RECORD PLAYER

# Exploration

Analysis of existing record players.



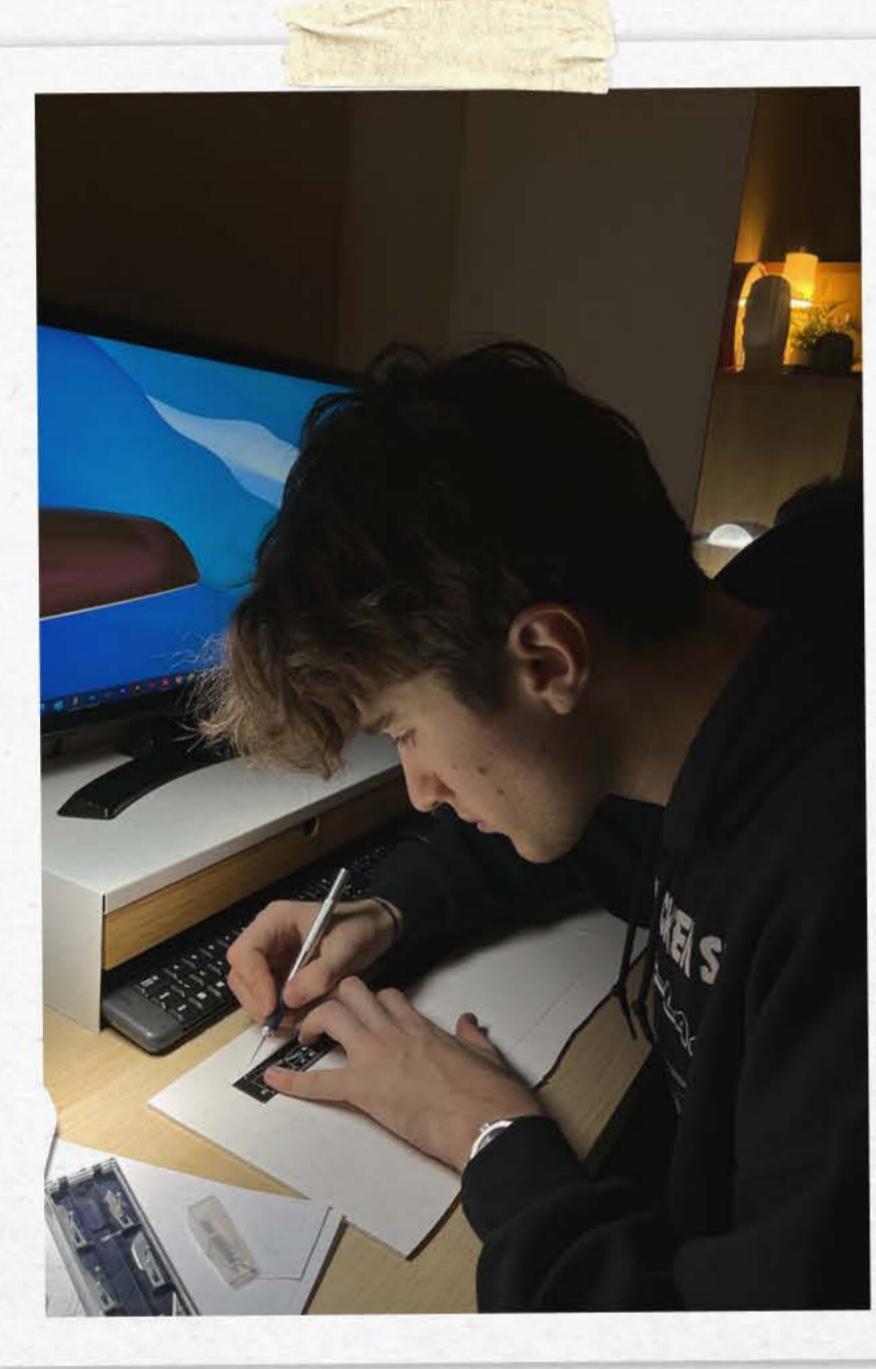
Noticeably tactile.



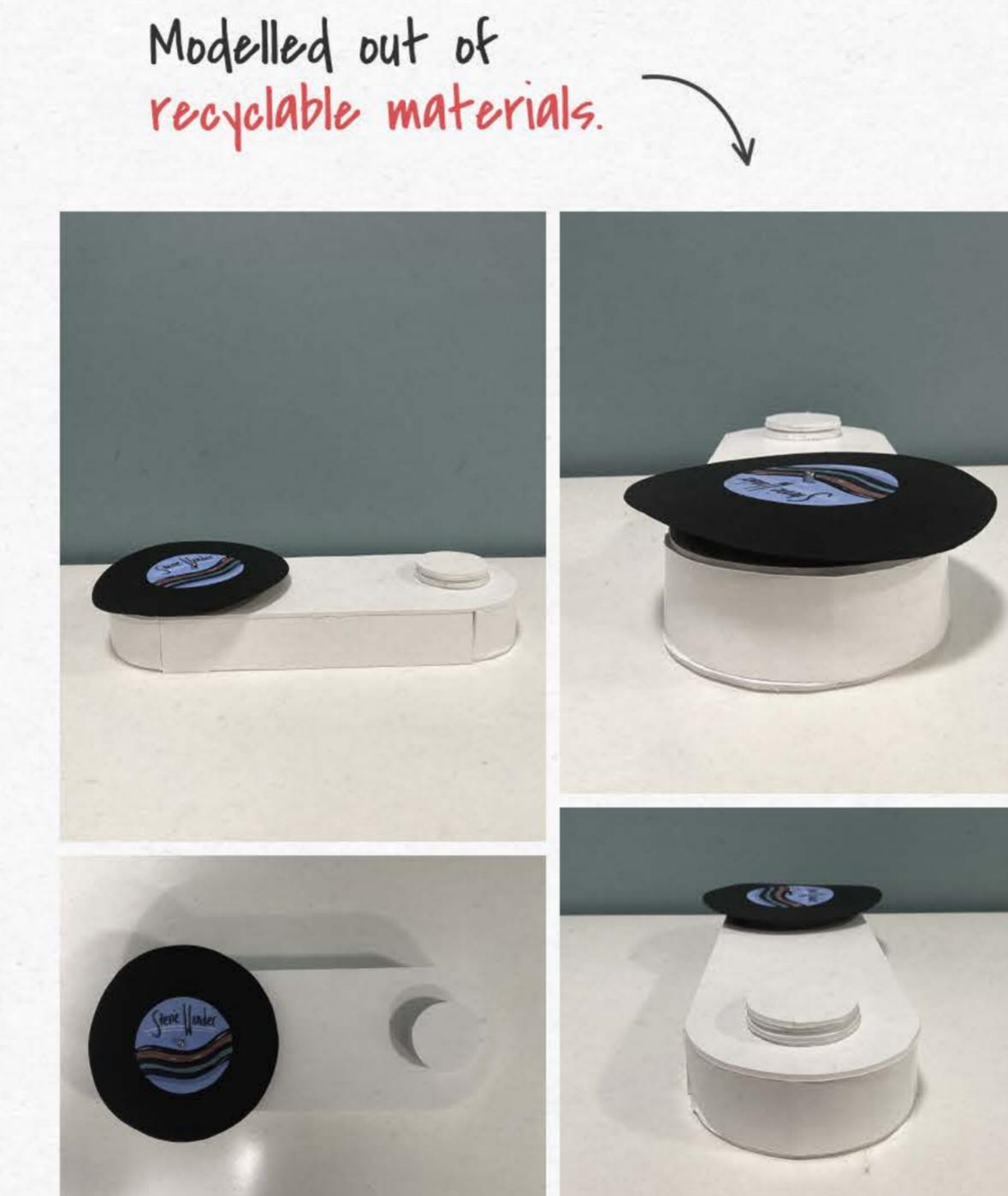
## 01. REGA RECORD PLAYER

# Development

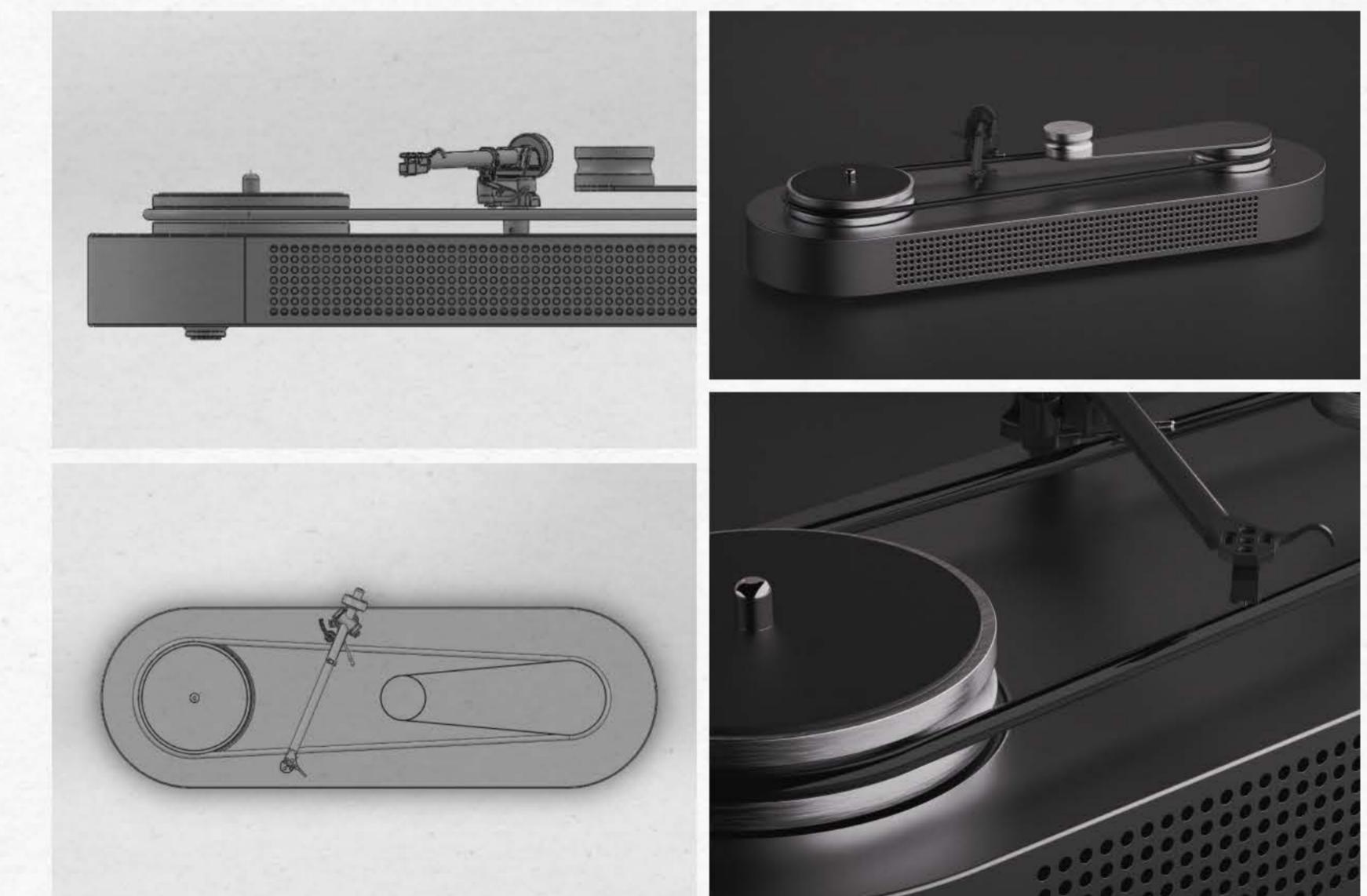
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Cut out pieces of foamboard,  
hot glued together.



Modelled out of  
recyclable materials.



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

## Logo redesign

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Primary logo:



Secondary logo:



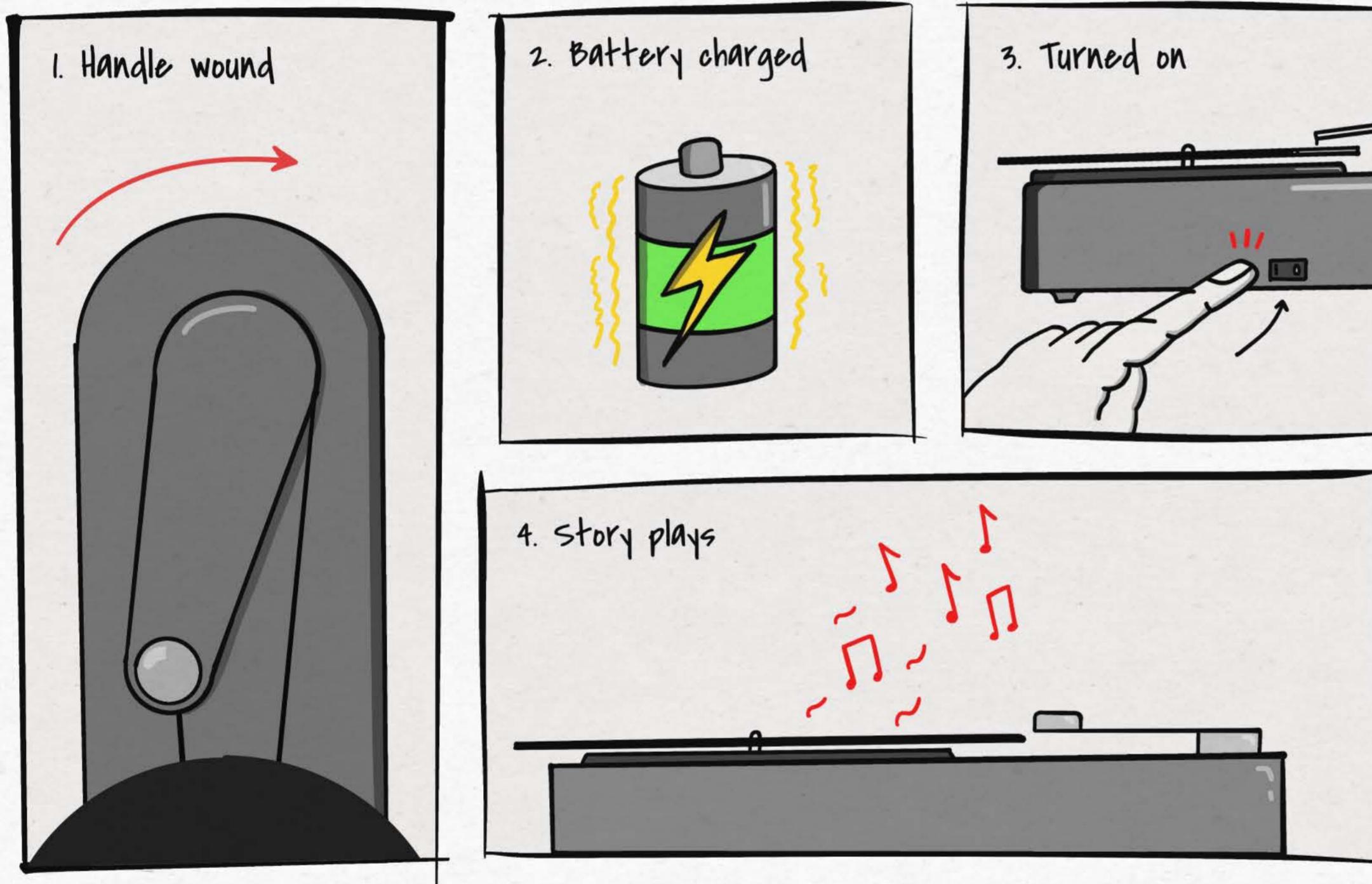
Rounded corners,  
not as striking.

Softer font,  
more approachable.



## 01. REGA RECORD PLAYER

### User Interaction

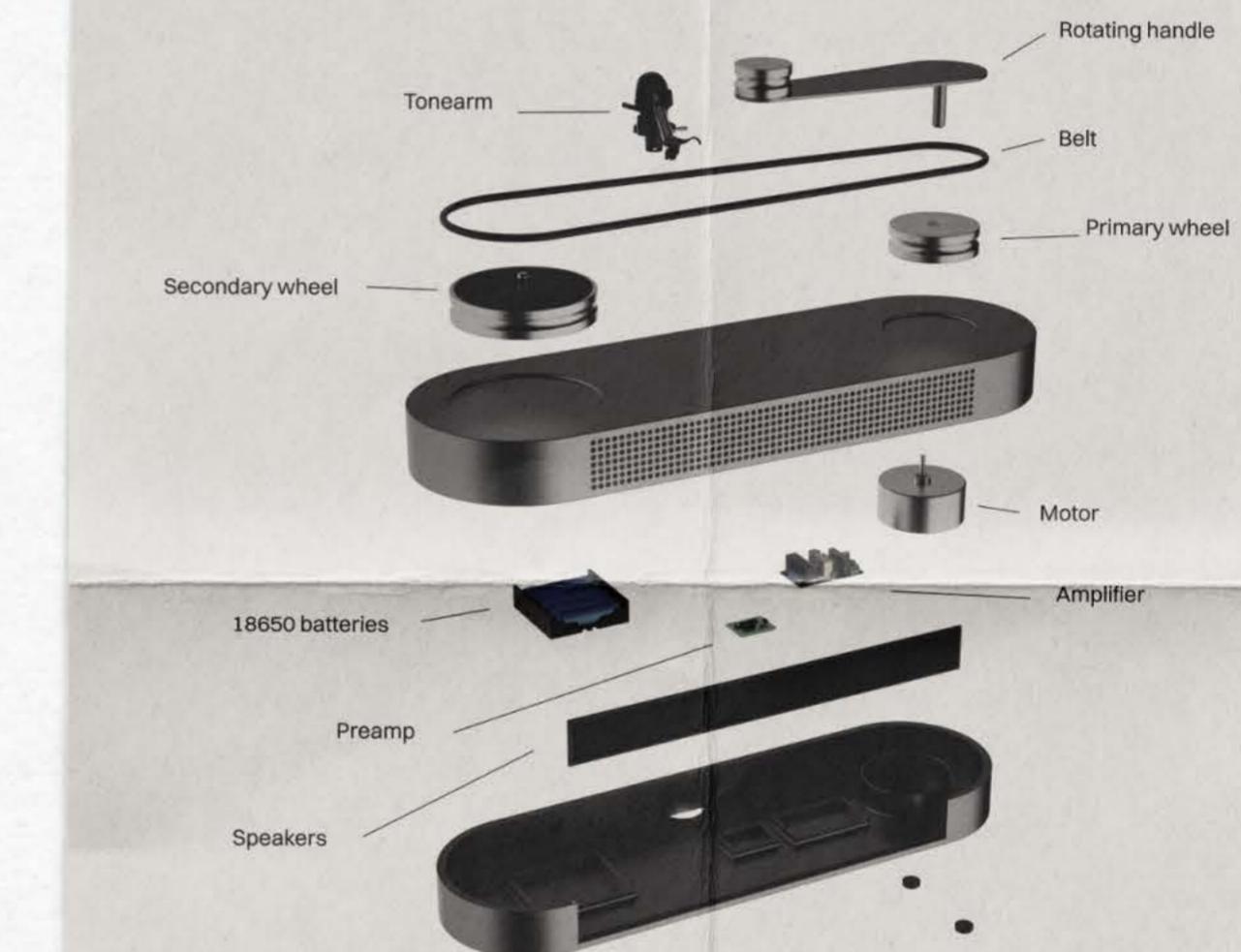


### Material

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

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“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



## 02.VUE SPLITBOX POPCORN BOX

### Context

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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.

## 02.VUE SPLITBOX POPCORN BOX

# Exploration

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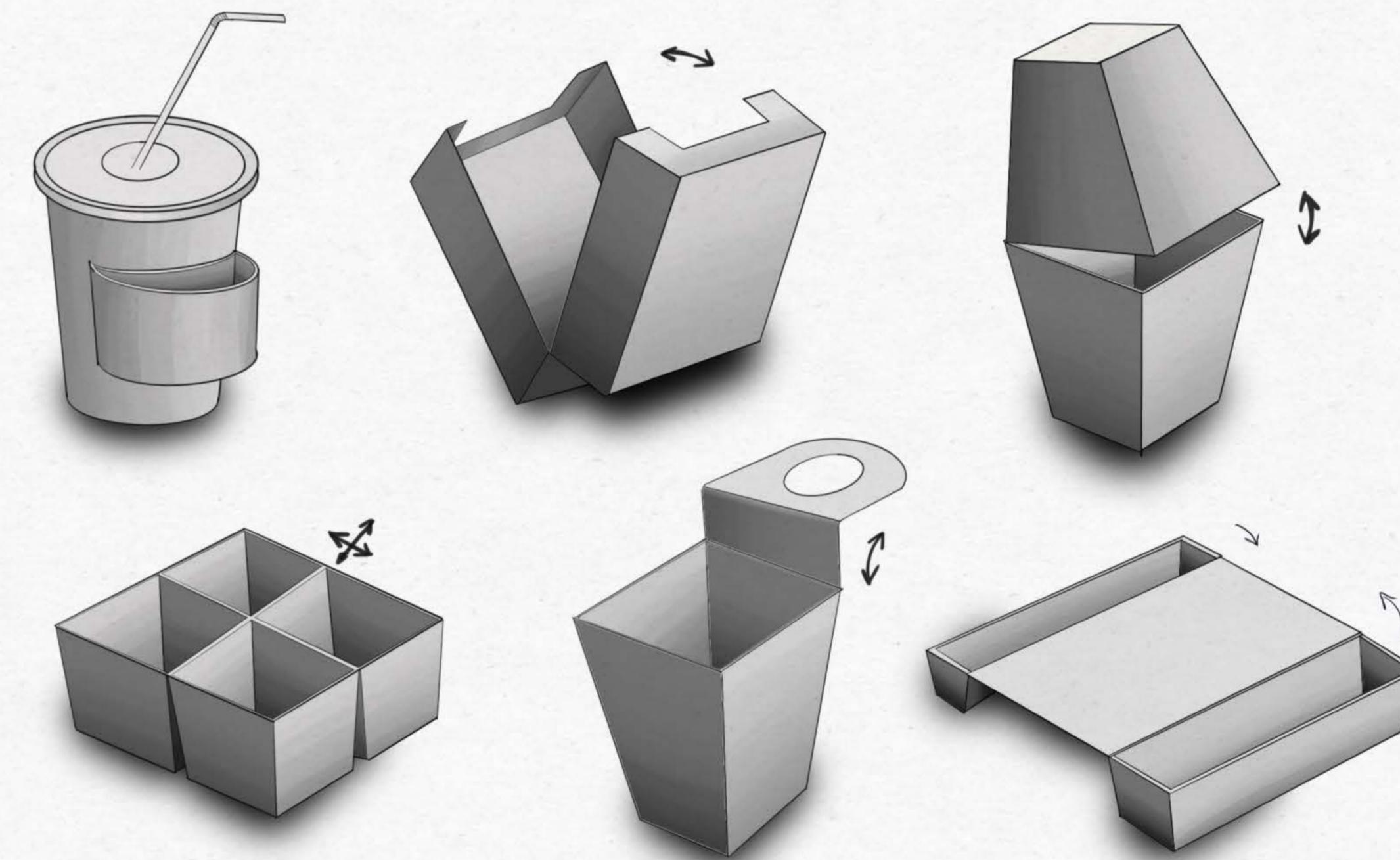
Thoughtful and interactive.



Innovative.



unconventional!



## 02.VUE SPLITBOX POPCORN BOX

# Development

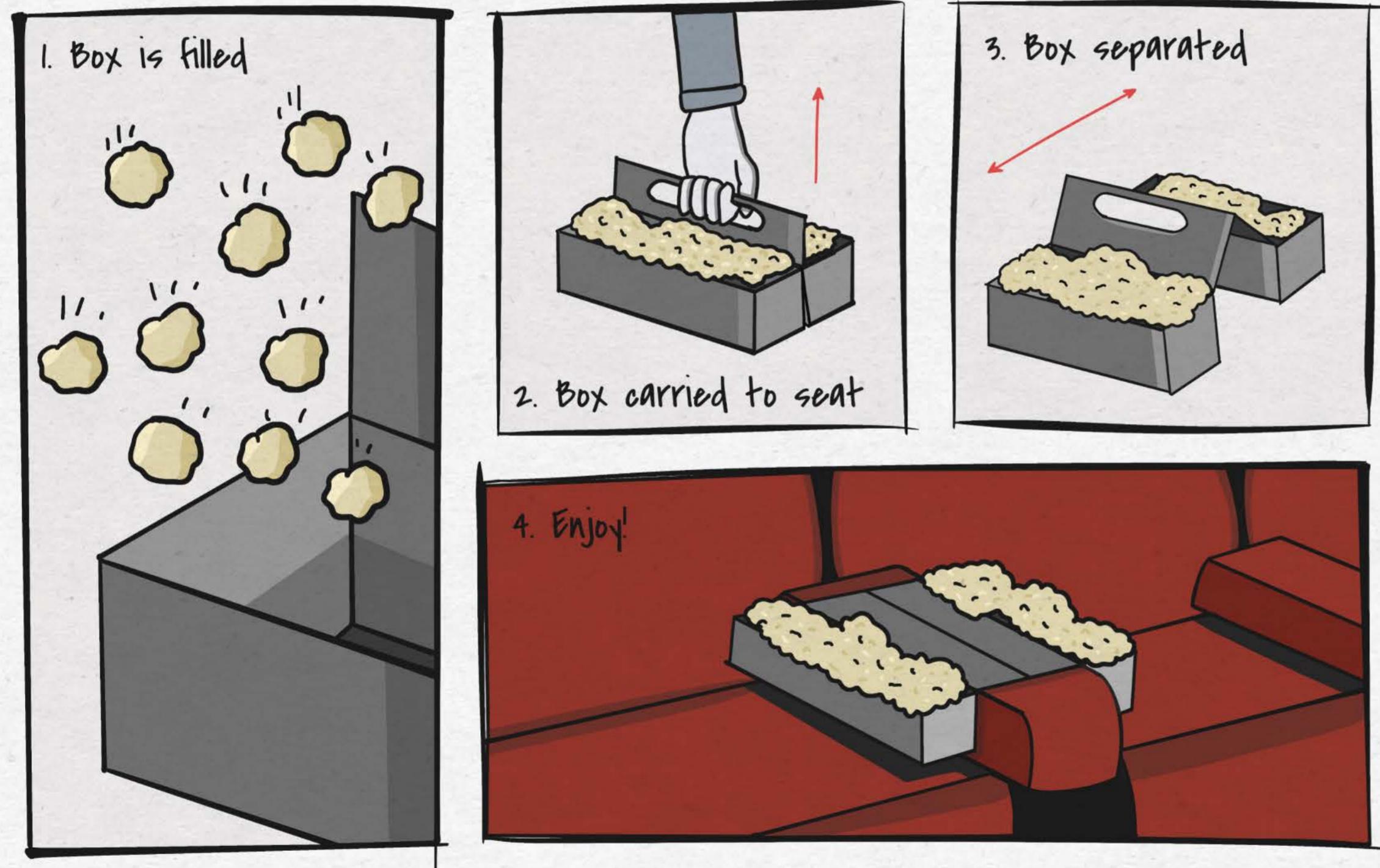
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PROCESS | DEVELOPMENT

## 02.VUE SPLITBOX POPCORN BOX

### User Interaction



OUTCOME | USER INTERACTION

**TAKE THE  
SPLIT**



THE VUE SPLITBOX  
A NEW SHARING EXPERIENCE



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



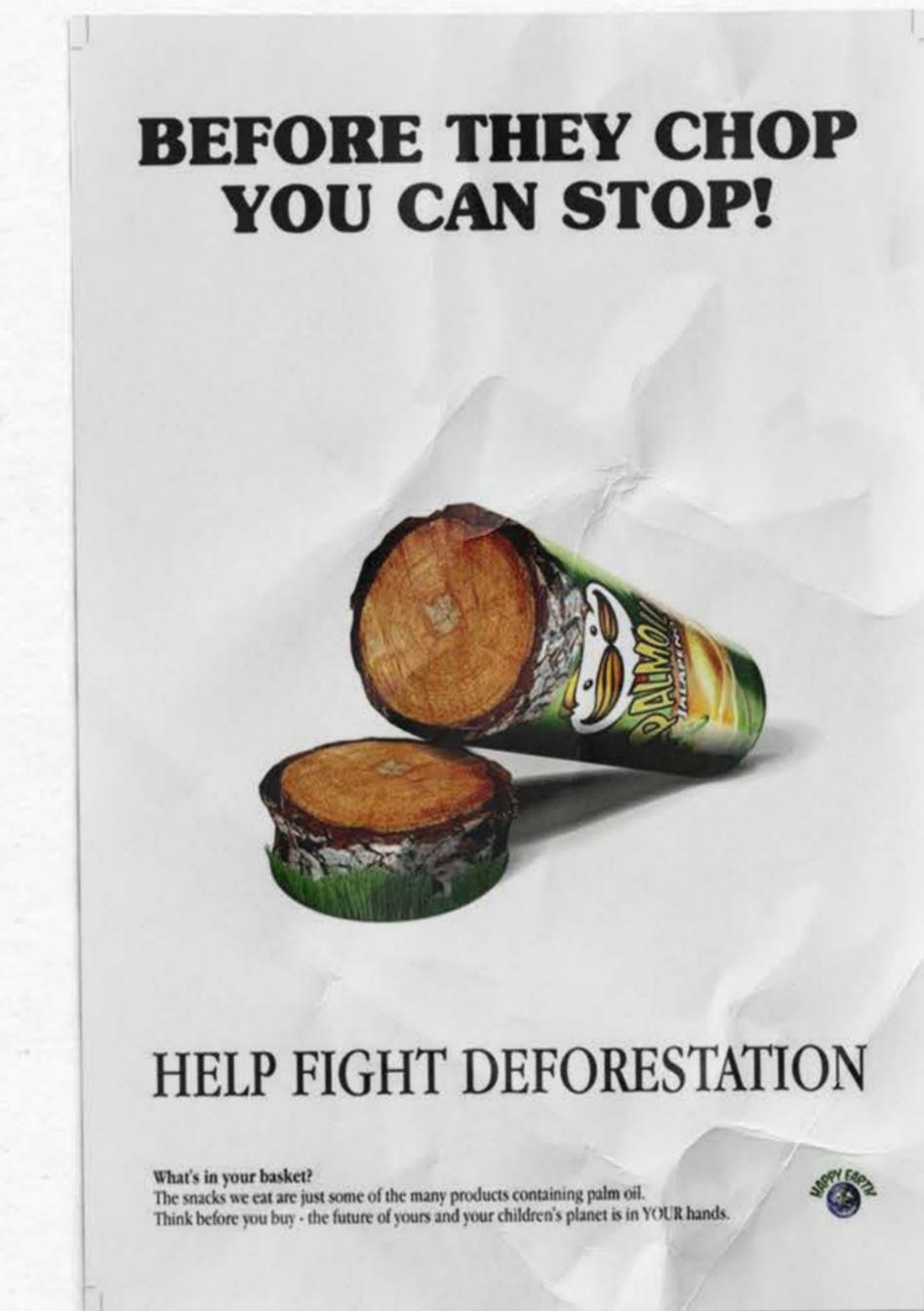
## Context

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**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 CO<sub>2</sub> 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.



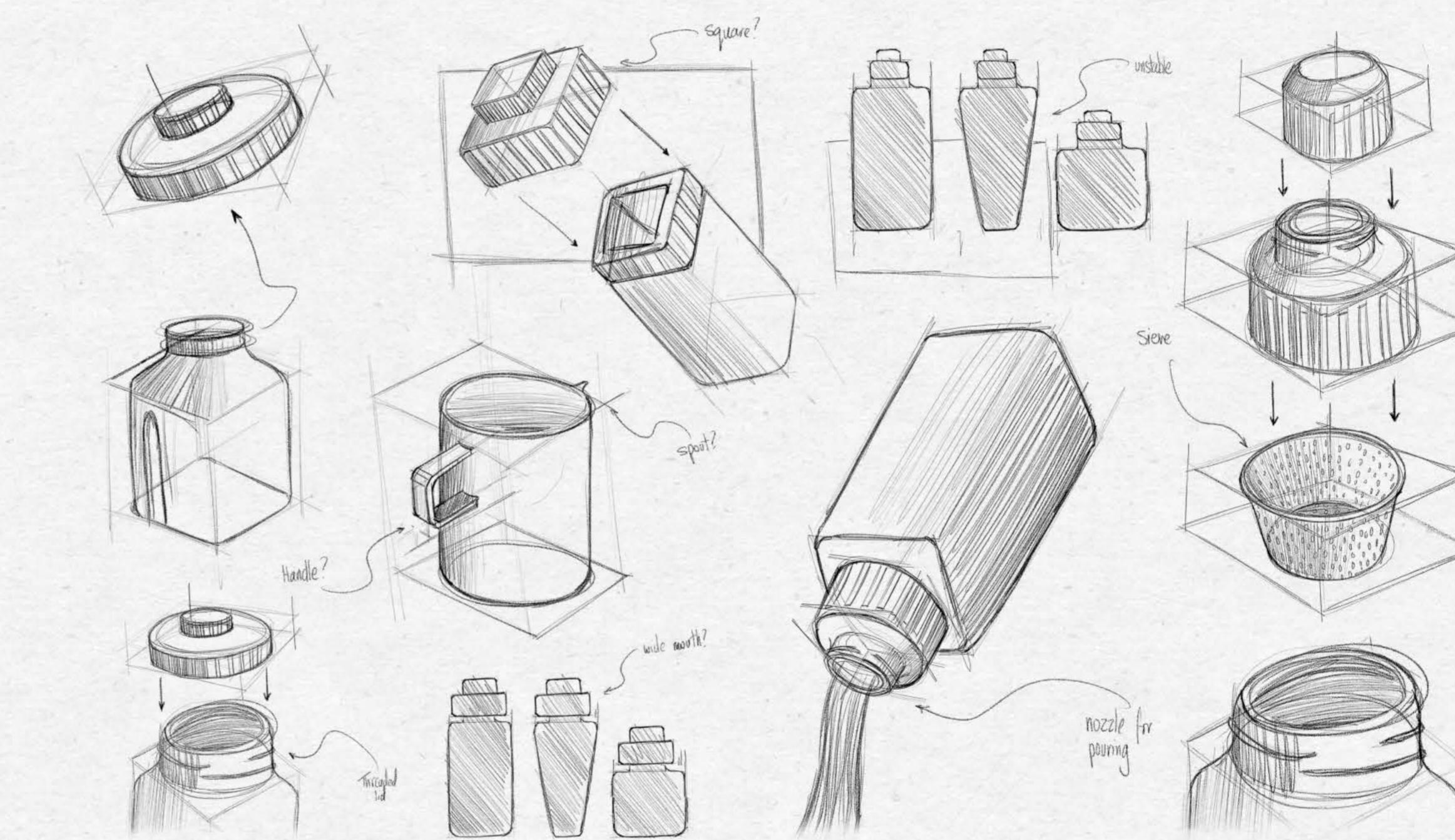
Our rainforests absorb **2.4 billion metric tons** of carbon each year.



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

## Exploration

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### 03. FRY AGAIN! OIL STORAGE

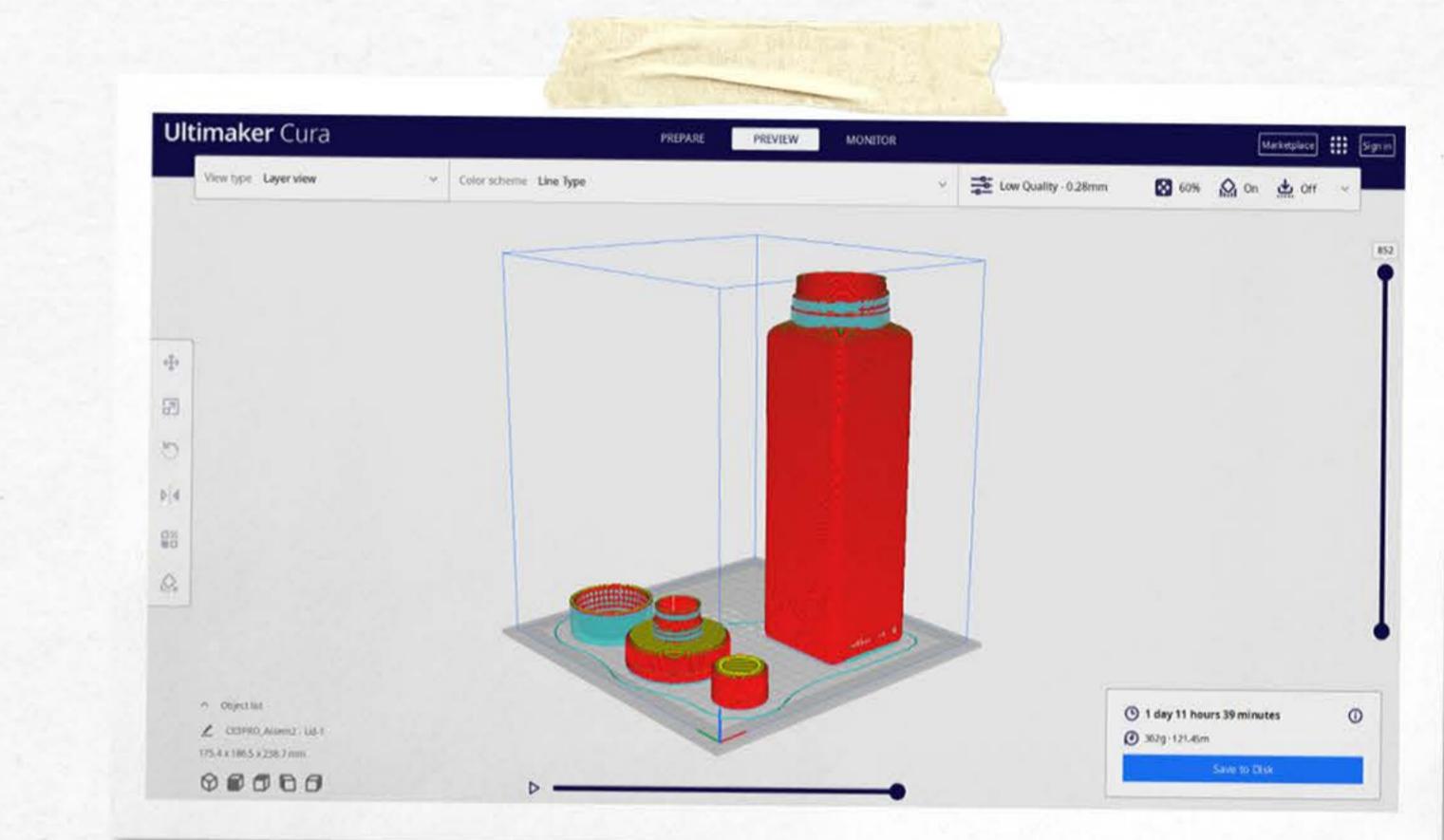
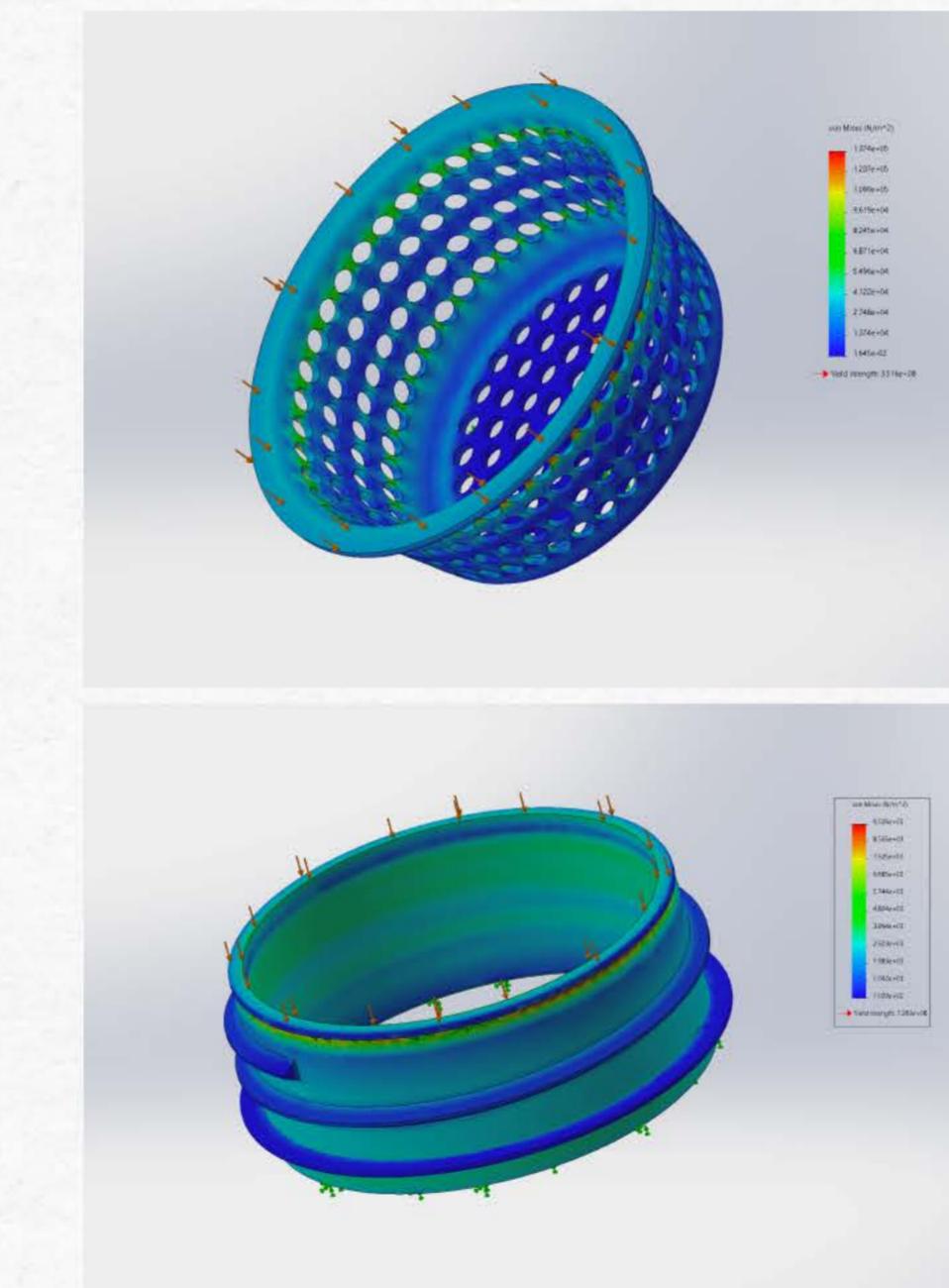
## Development

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

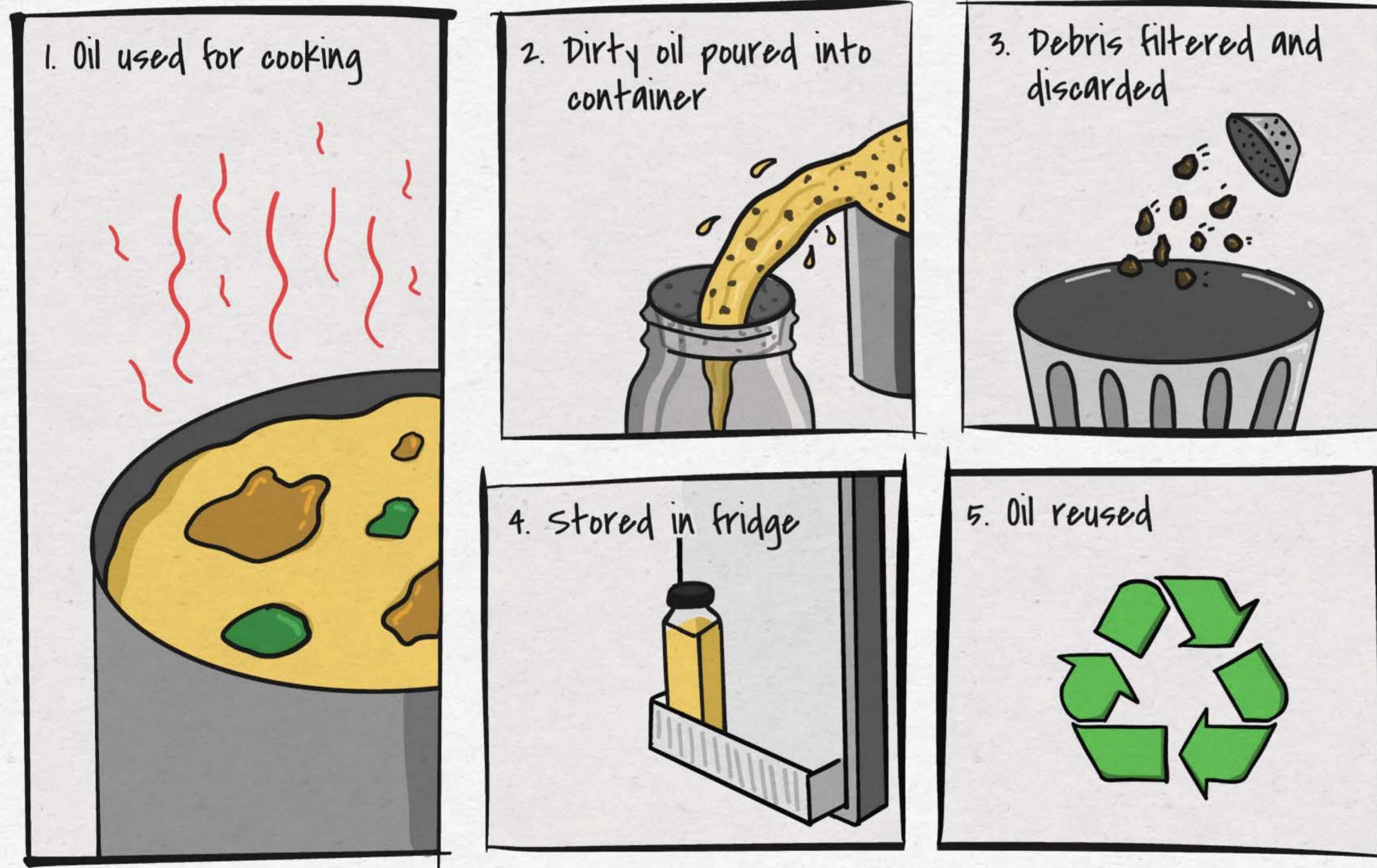
Testing structural integrity using **Simulationxpress**.



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

03. FRY AGAIN! OIL STORAGE

## User Interaction



OUTCOME | USER INTERACTION





04.ALPKIT POLE SPLITTER

# alpkit

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“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



## 04.ALPKIT POLE SPLITTER

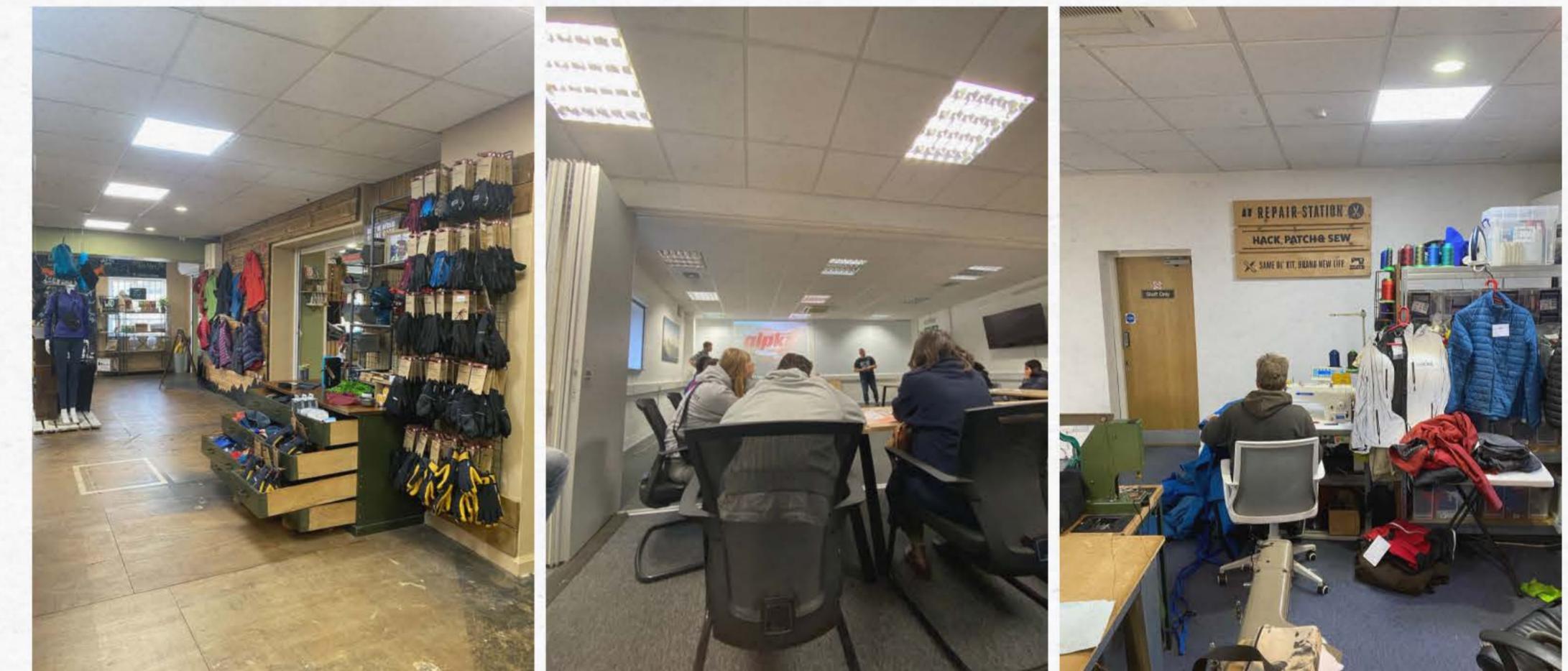
# Context

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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.

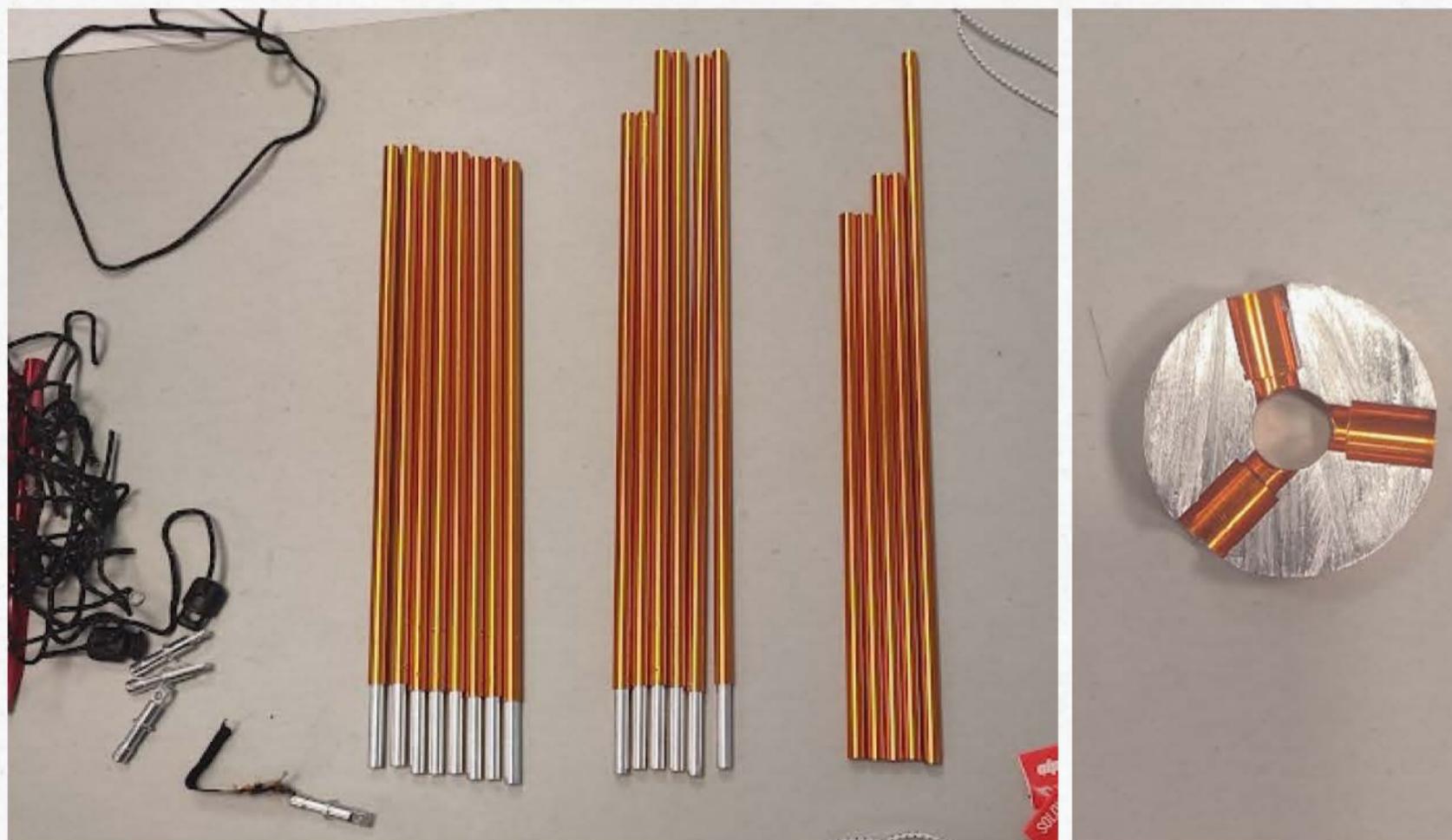


Presentation by the Alpkit team.

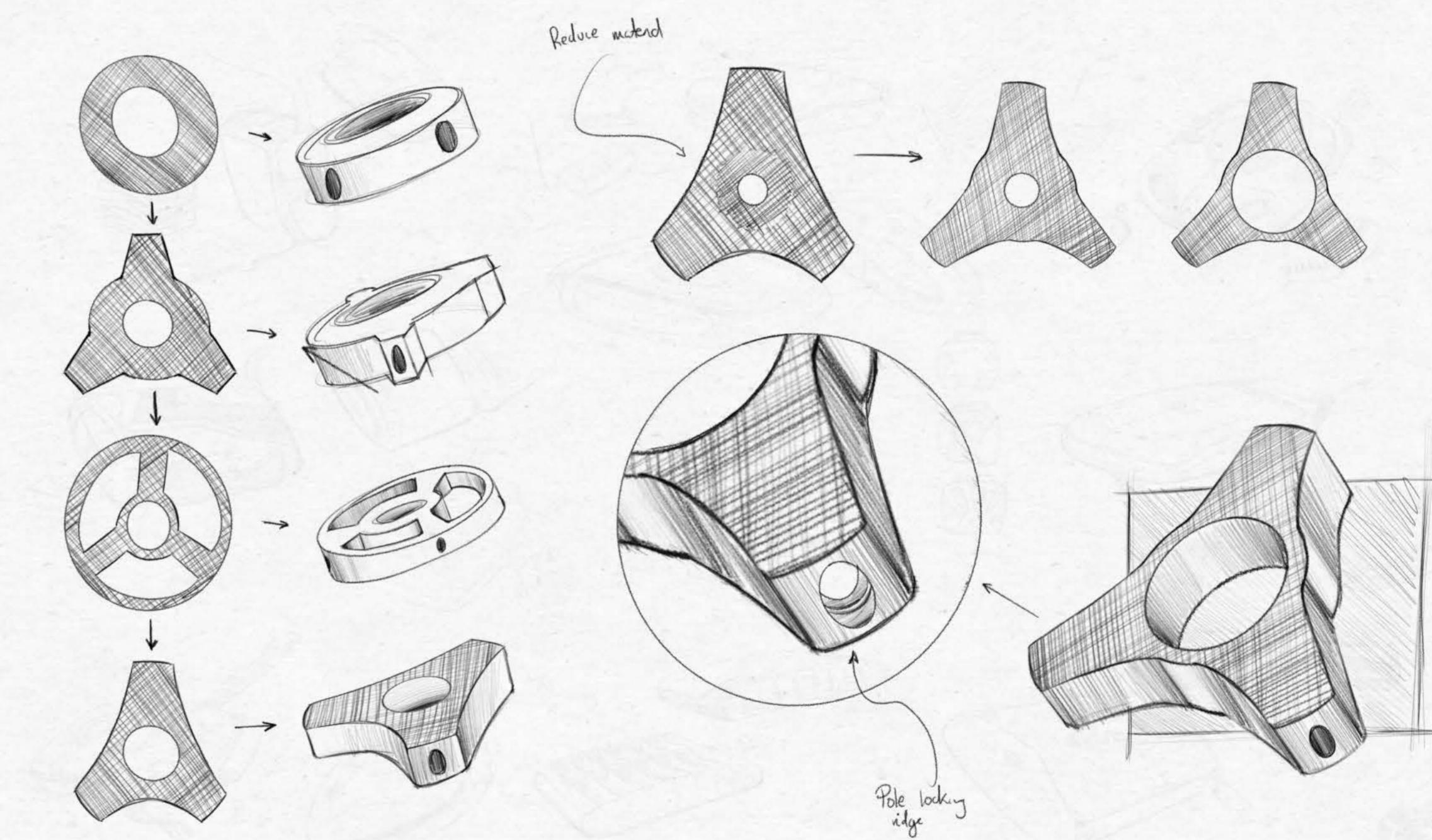
## Exploration

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Analysing the design of the existing frame and pole system.

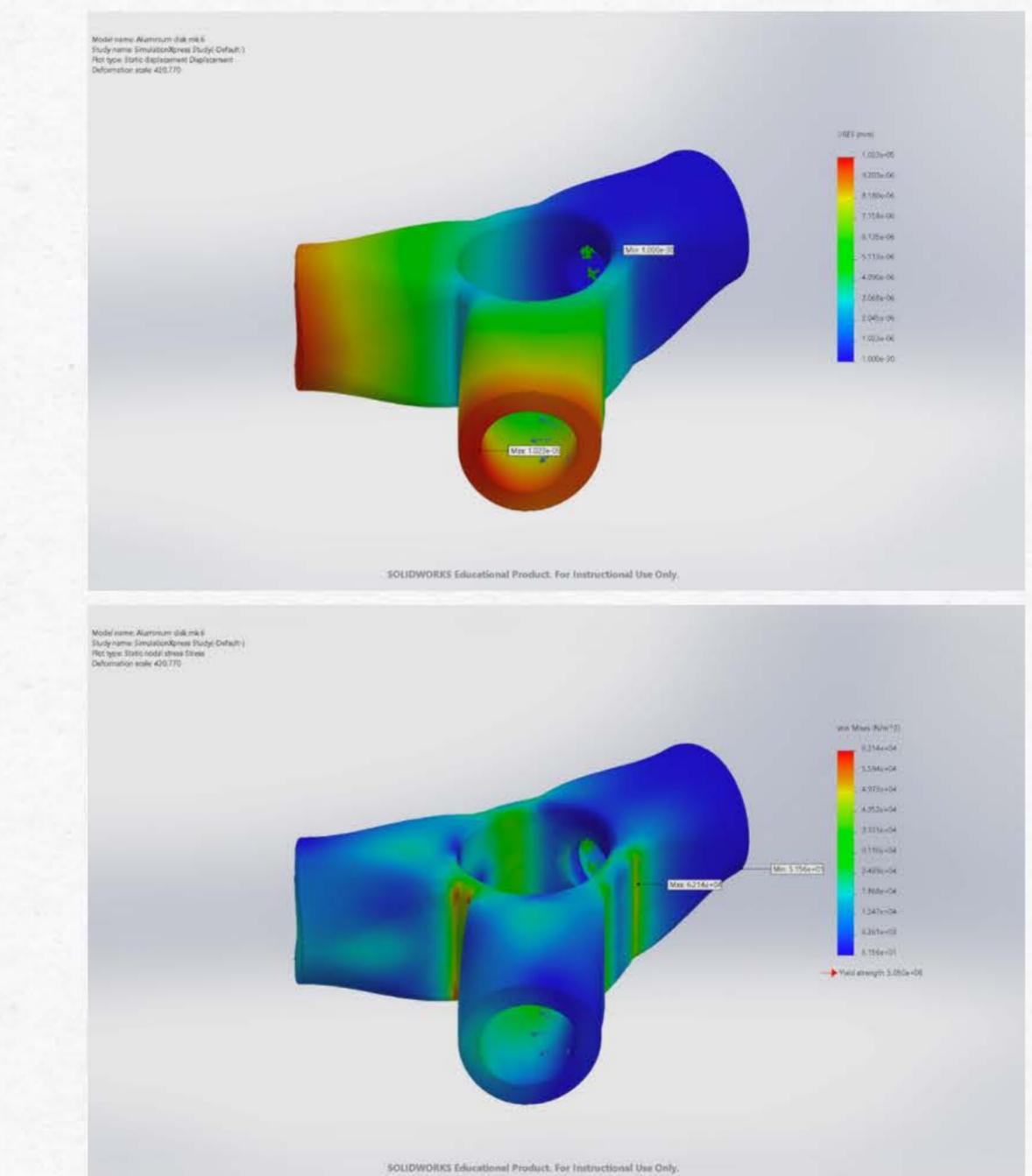
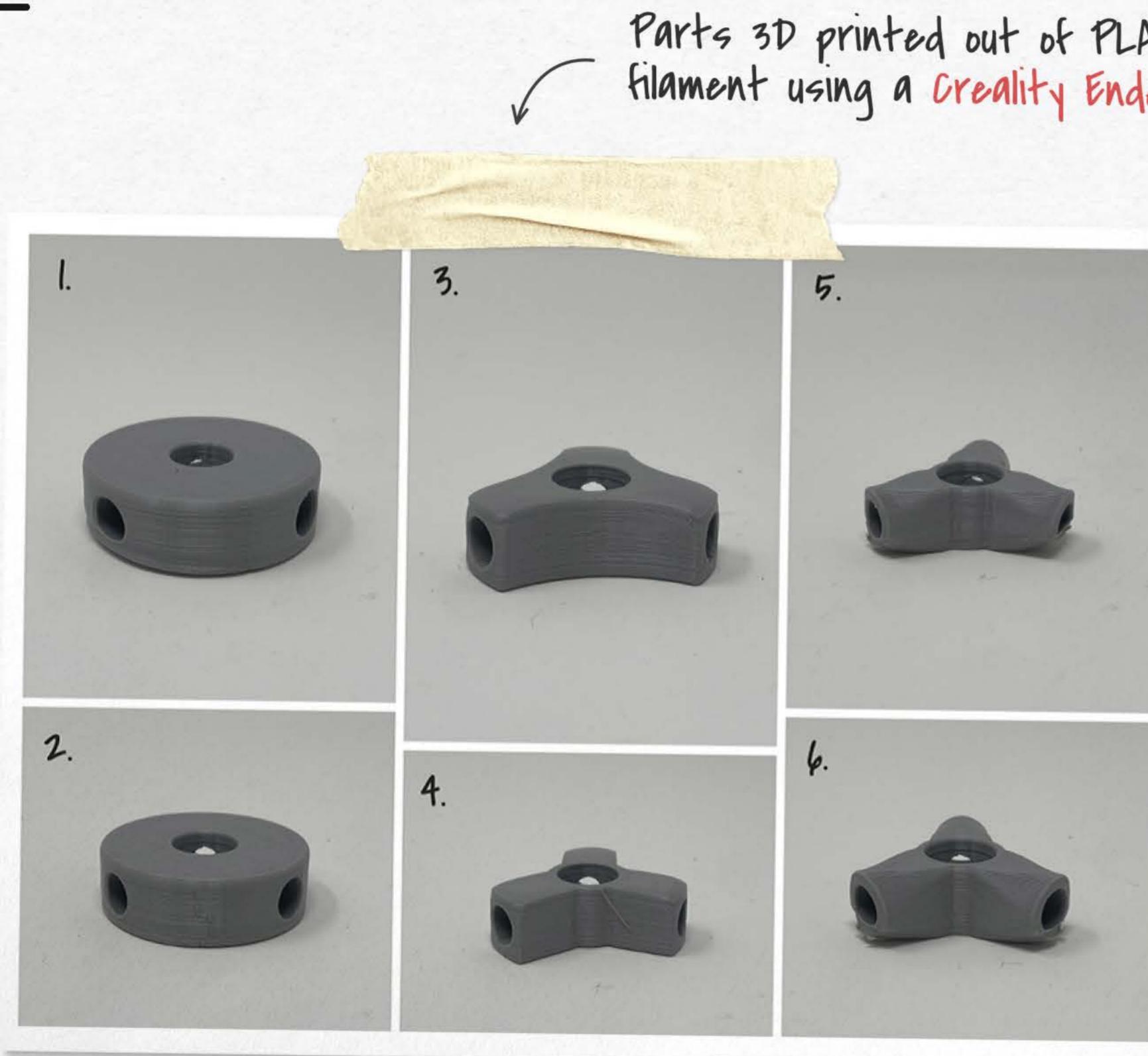


Cross sectional view of  
existing pole splitter.



## 04.ALPKIT POLE SPLITTER

# Development

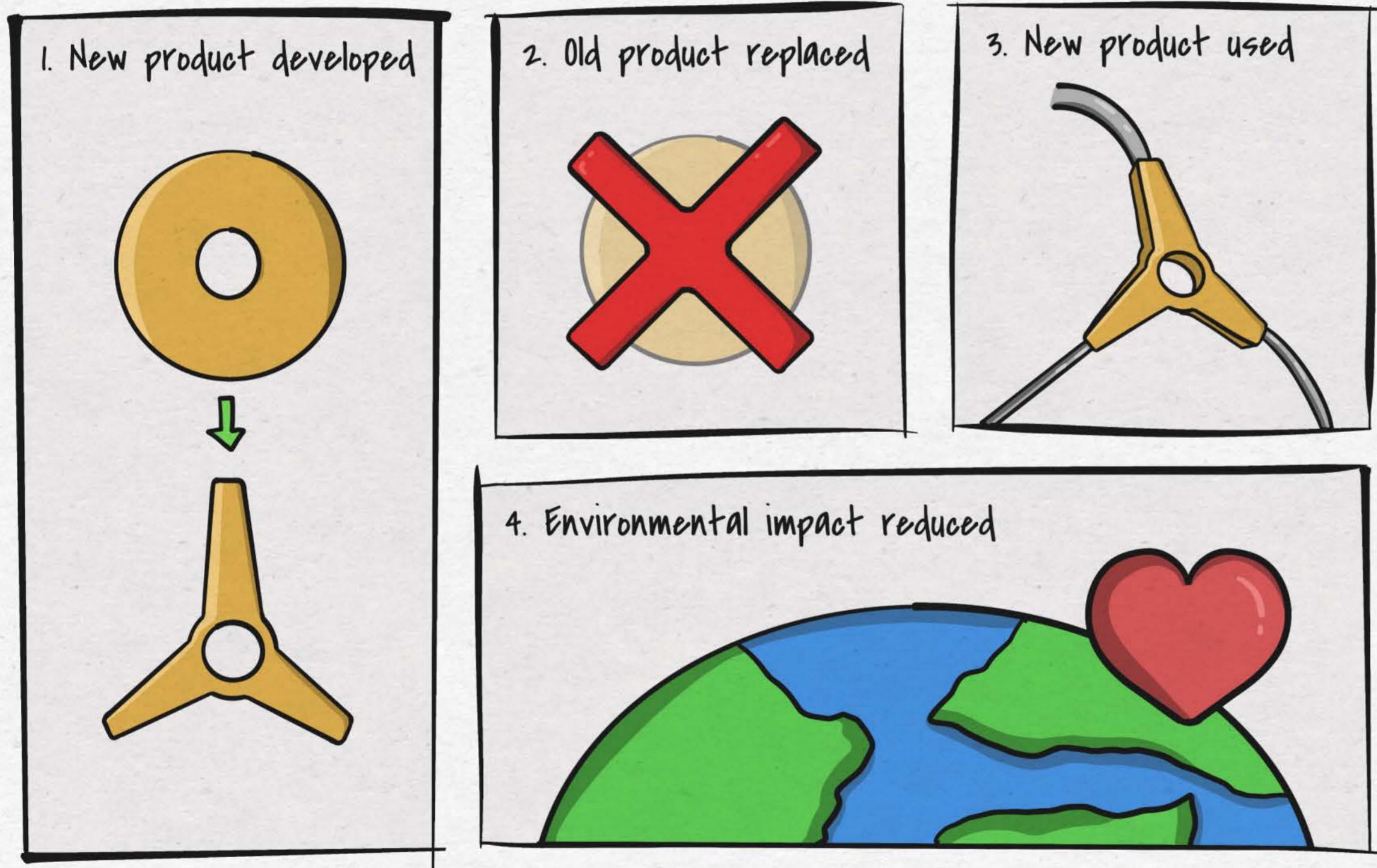


stress test and deformation test using **SimulationXpress**.

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.



### SUSTAINABILITY AT HEART

Our love of the outdoors and the world's wild places guides the way we do business. It's in our nature to look after what's important; whether that's the environment, our staff, suppliers, staff, animals, community or our customers.

Everything is connected. Sustainability is not a collection of single issue projects but a comprehensive way of working. It's our way of life.

All this supports our ethos that there's no place for elitism in the outdoors. It's our love of the outdoors and belief in nature that drives what we do. This simplicity is best



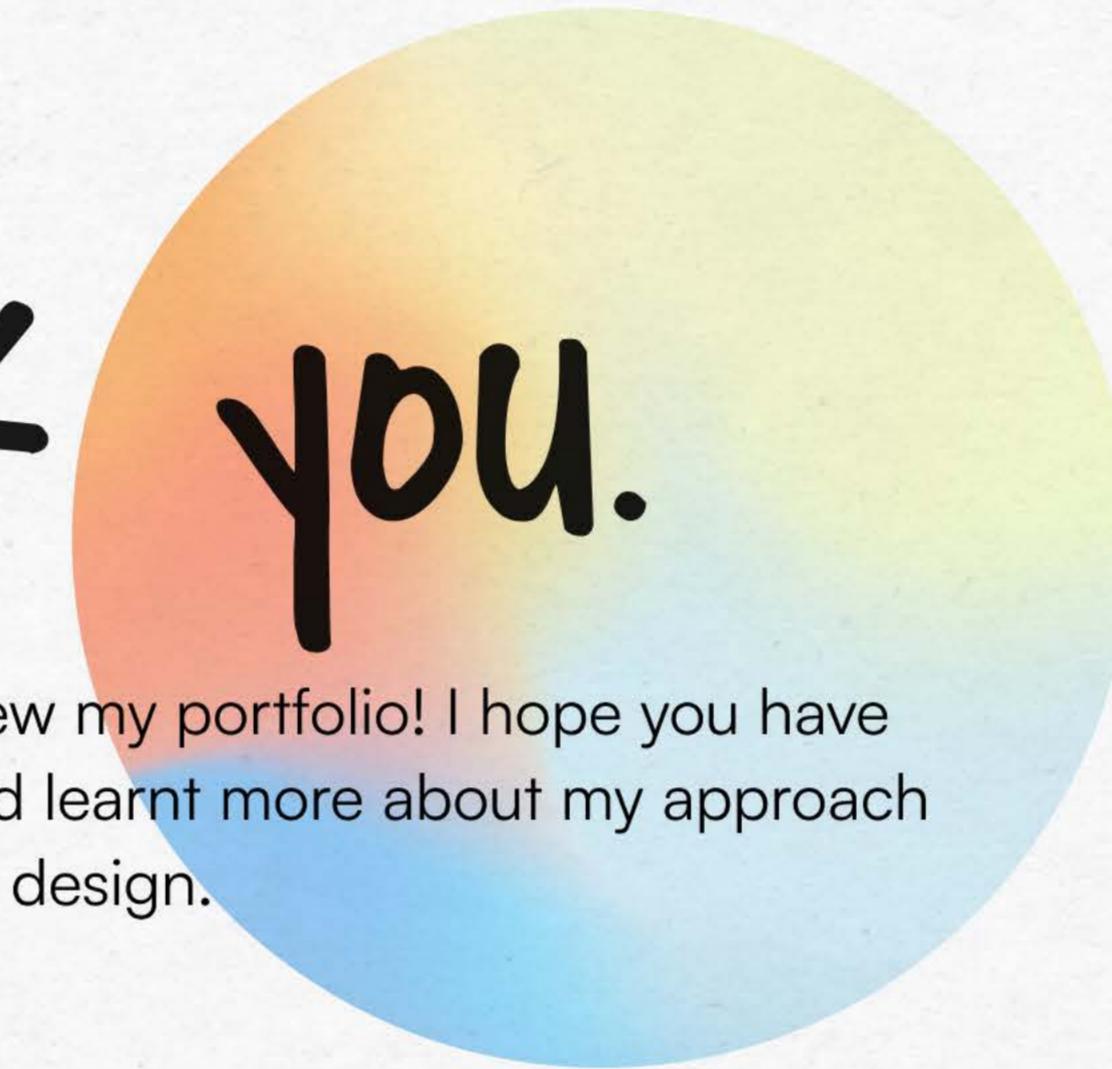
# SMALL THINGS MAKE BIG CHANGES.

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:  
[contact@julianhall.design](mailto:contact@julianhall.design)



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