

PREPARING YOUR PORTFOLIO

Product and Interaction Design

WHAT IS A PORTFOLIO?

WHAT IS A PORTFOLIO?

- A collection of your design work
- Shows your ideas, skills and creativity
- Demonstrates ability to work through a process - from initial research and observations, to ideas and developed work



WHAT ARE WE LOOKING FOR?

HOW IS YOUR PORTFOLIO ASSESSED?

1. Creative Enquiry & Visual Research
2. Idea Development & Material/Technical
Exploration
3. Critical Judgement, Selection &
Resolution

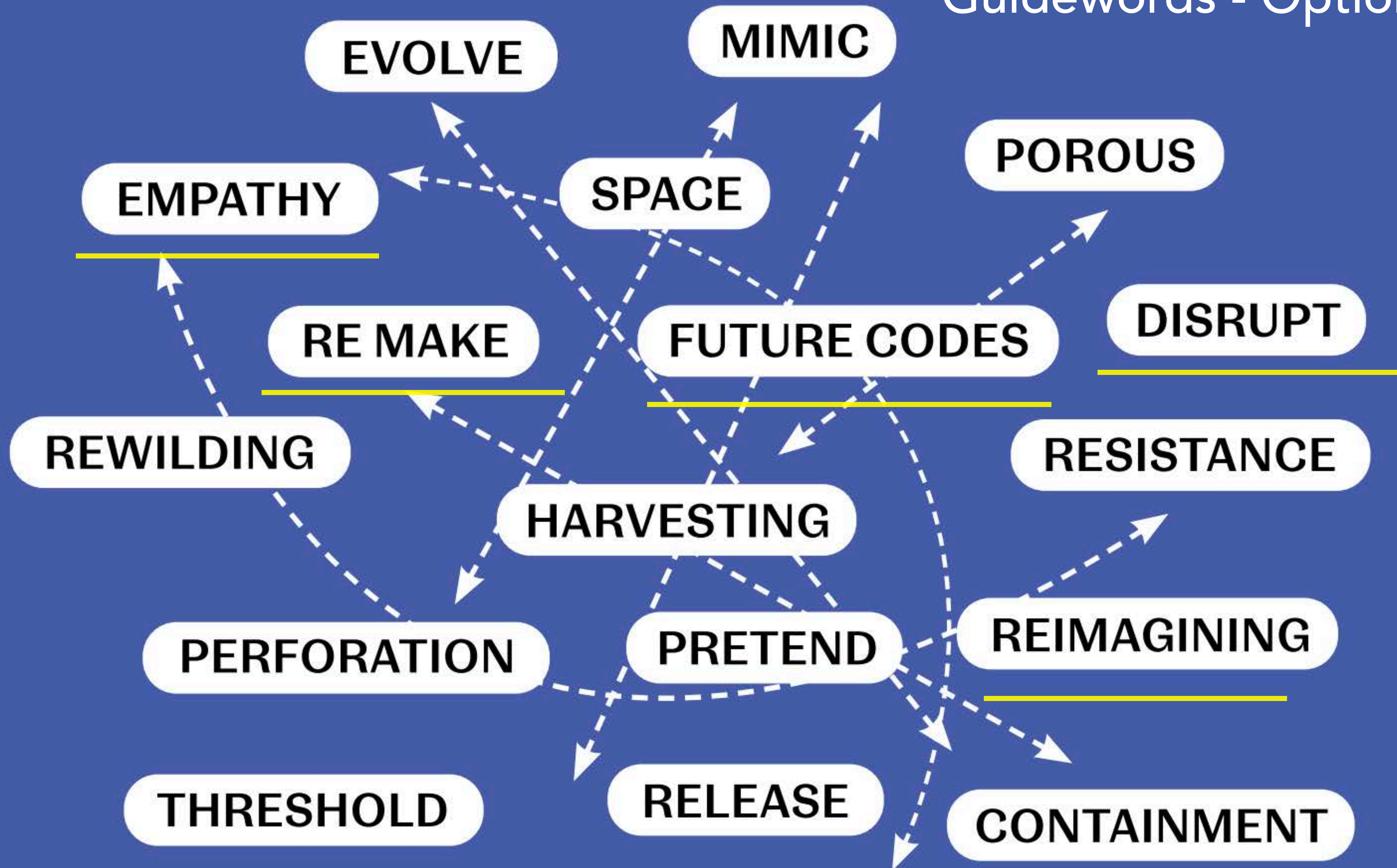
The image shows the cover of the NCAD Portfolio Guidelines 2022. The background is a vibrant green with abstract, hand-drawn yellow and black shapes, including a large 'X' and various geometric forms. The text 'NCAD' is prominently displayed in a large, bold, black sans-serif font. Below it, 'Portfolio Guidelines' and '2022' are written in a smaller, bold, black sans-serif font. At the bottom right, a paragraph of text describes the scope of contemporary art and design practice at NCAD.

NCAD

Portfolio Guidelines 2022

The spectrum of contemporary art and design practice at NCAD runs from traditional techniques and crafts to digital art and digital design and everything in between.

Guidewords - Optional support



WHAT TO INCLUDE?

- Recent or current work
- Emphasise design project structure - asking questions, solving problems, seeing opportunities
- Show process - enquiry, ideas and developed solutions
- Show an interest in Interaction / Product Design - designers, designs etc.

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NCAD

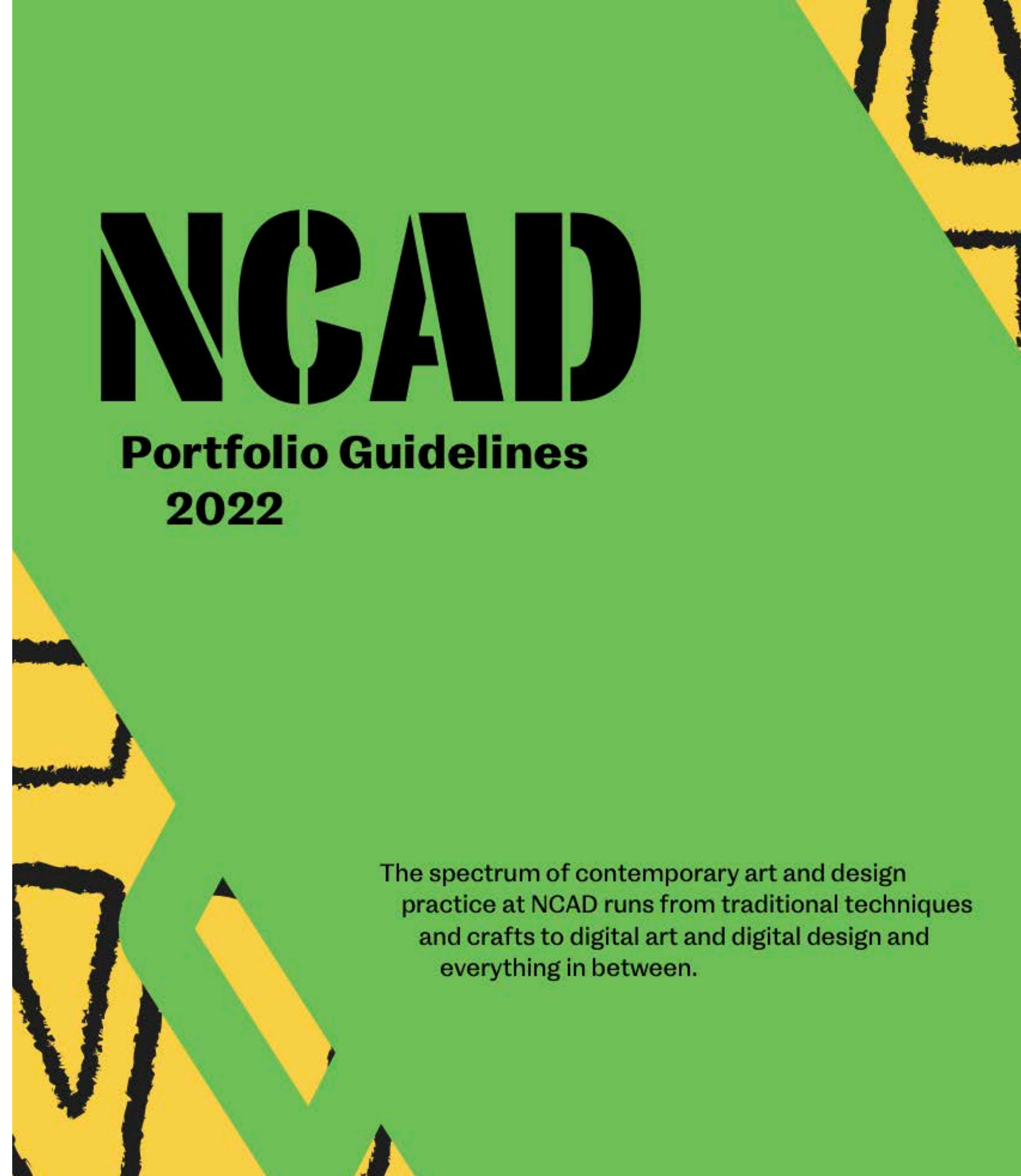
Portfolio Guidelines 2022

The spectrum of contemporary art and design practice at NCAD runs from traditional techniques and crafts to digital art and digital design and everything in between.

REQUIREMENTS

- A1, A2 or A3 (digital)
- Between 10 and 20 pages/works (PDF, MPEG, JPEG)
- Digitally Submitted - completed sheets and works to be photographed or filmed and uploaded.
- Upload links to any videos.
- Document at least 1 notebook

https://www.ncad.ie/files/download/NCAD_Guidelines_FINAL_2022.pdf



NCAD

Portfolio Guidelines 2022

The spectrum of contemporary art and design practice at NCAD runs from traditional techniques and crafts to digital art and digital design and everything in between.

WHAT TO INCLUDE?

- Organise work sequentially
- Show links between observations, research and creative outcomes
- Label and Explain each image, and important steps in the process.

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NOTEBOOKS

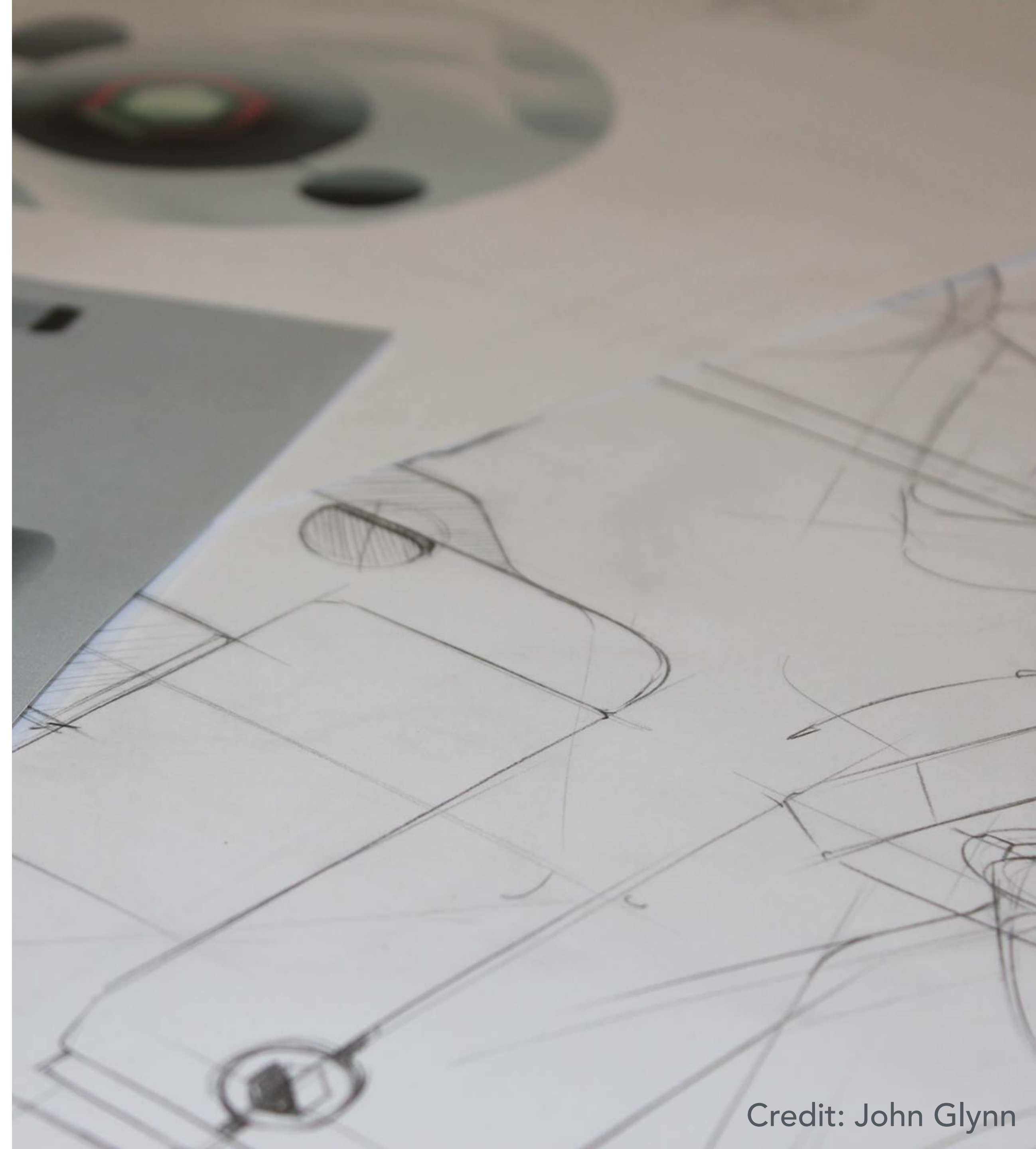
- Thoughts, notes, project planning
- Rough-work for your project(s)
- Hobbies, art, school projects, work experience
- If you make things, hack objects, program etc.
- Include images of key pages, and or video of you scanning through.



Credit: Rachael Mellor Kaye

WHAT ARE WE LOOKING FOR?

- Ability to think
- Curiosity
- Interest in people
- Ability to visualise
- Ability to solve problems
- Interest in how things work
- Interest in design



Credit: John Glynn

YOUR APPLICATION

2021/22

YOUR APPLICATION

- CAO Closing Date 2022: Tuesday
1st February
- Portfolio Submission Deadline
2022: Friday 11th February



LEAVING CERT REQUIREMENTS

- 6 subjects - 2 x H5 and 4 x O6/H7
- Must have Irish, English, Leaving Cert Maths O6/H7
- Must have one of the following: A 3rd Language or Art or Design Communication Graphics (DCG)

LEAVING CERT REQUIREMENTS

- Irish is required unless you have an exemption
- Maths requirement can also be met by one of the following subjects at O6/H7: Applied Mathematics, Physics, Chemistry, Physics with Chemistry, Engineering, Construction Studies, Agricultural Science, Technical Drawing or Biology.

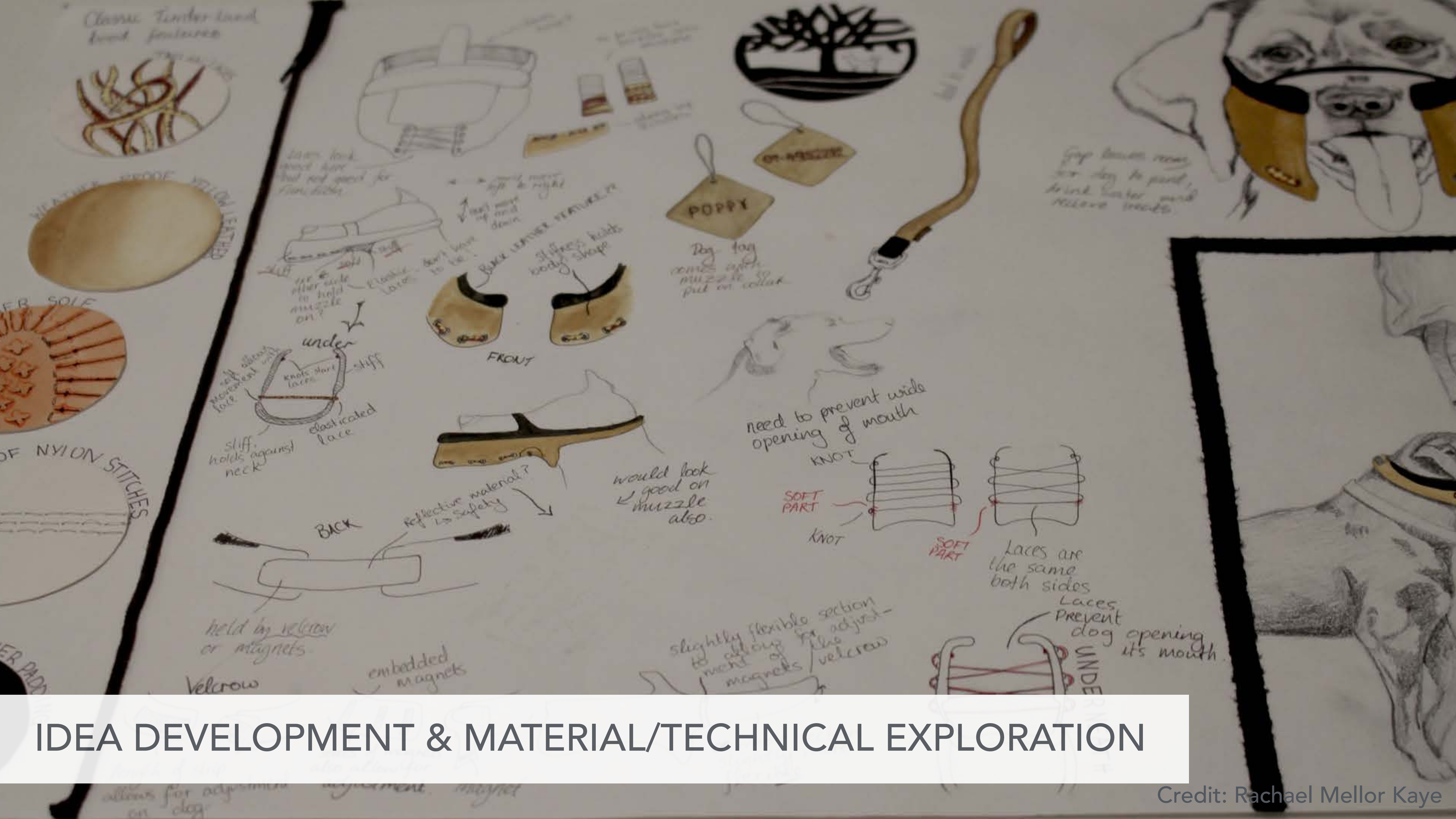
What to Communicate?



From my car I saw this image, it was then that I realised the confinement, cruelty and effectiveness of dog muzzles.

CREATIVE ENQUIRY & VISUAL RESEARCH

Credit: Rachael Mellor Kaye



IDEA DEVELOPMENT & MATERIAL/TECHNICAL EXPLORATION



Thats great, but what actually is a portfolio?

Product Design — AD212

- Product Designers are problem solvers for everyday life. You identify design flaws quickly and want to find a solution. You want to help people on a practical level and make the world a better place, one design at a time.
- **Your Product Design portfolio should look at existing products and think how you could improve on their design. Challenge yourself to create a solution for an everyday problem.**

- **Interaction Design — AD222**

- Interaction Designers create intuitive and engaging digital experiences and shape the future of technology. You care about people, and want to design digital products and services with global impact.
- **Your Interaction Design portfolio should show elements of problem solving, idea generation and a curiosity for how to create technology-driven designs. What is the digital product you think people need?**

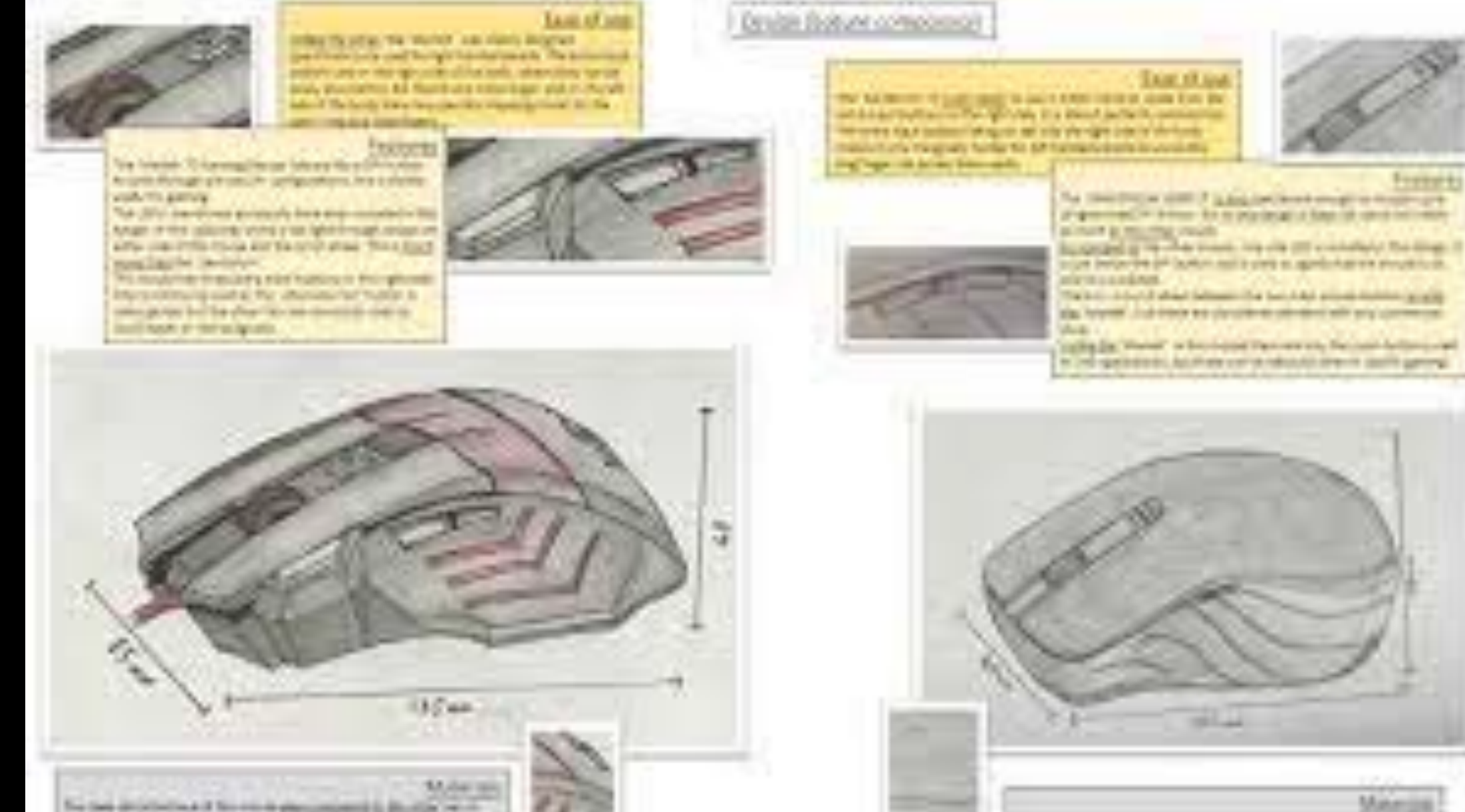
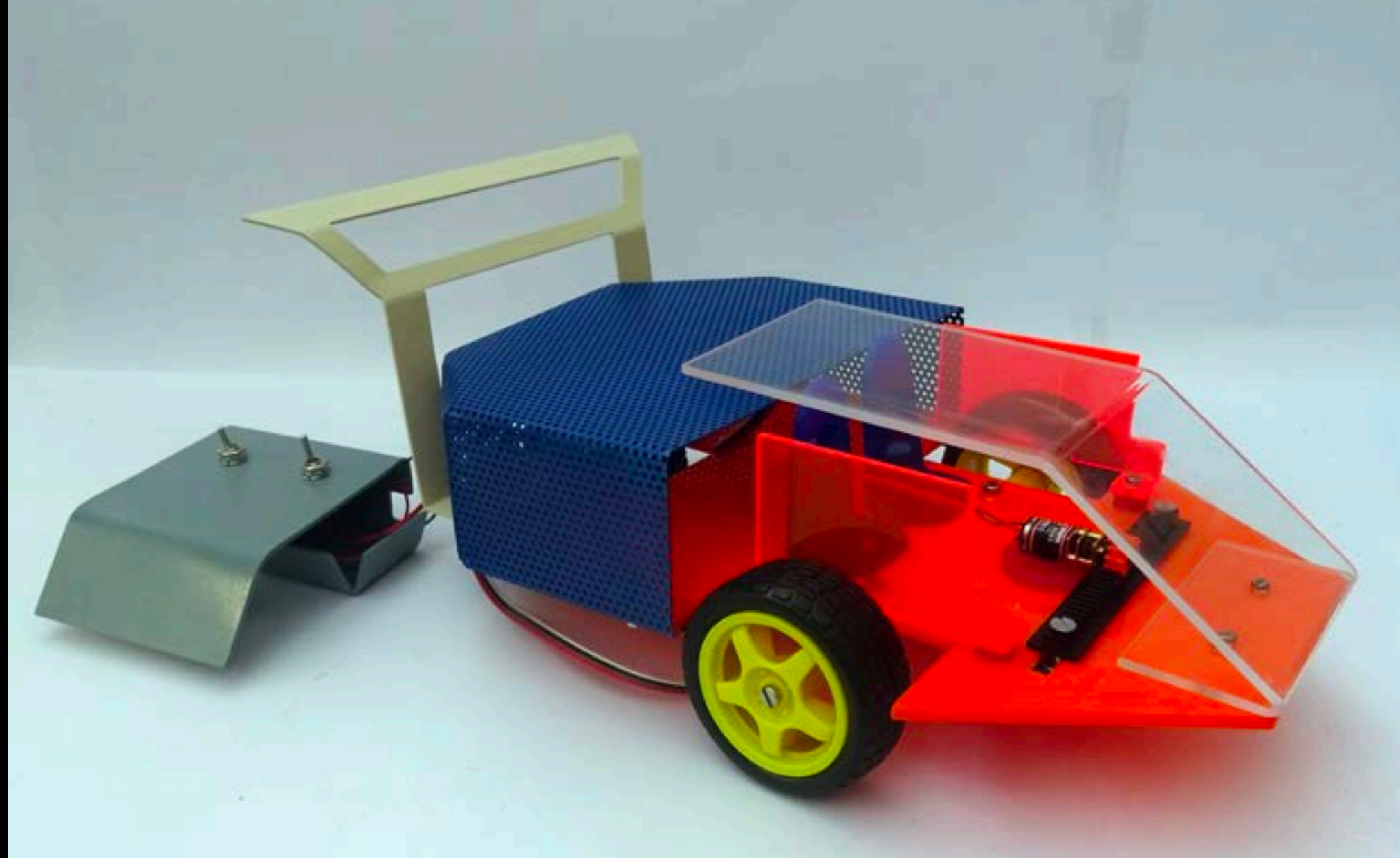
2 Main Approaches to Portfolio

- Existing work you have which is relevant to design and shows your skills and interests.
- Undertake a Design Challenge specifically for the Portfolio.
- Both Product and Interaction are looking for similar qualities (Tip: Apply for both!)

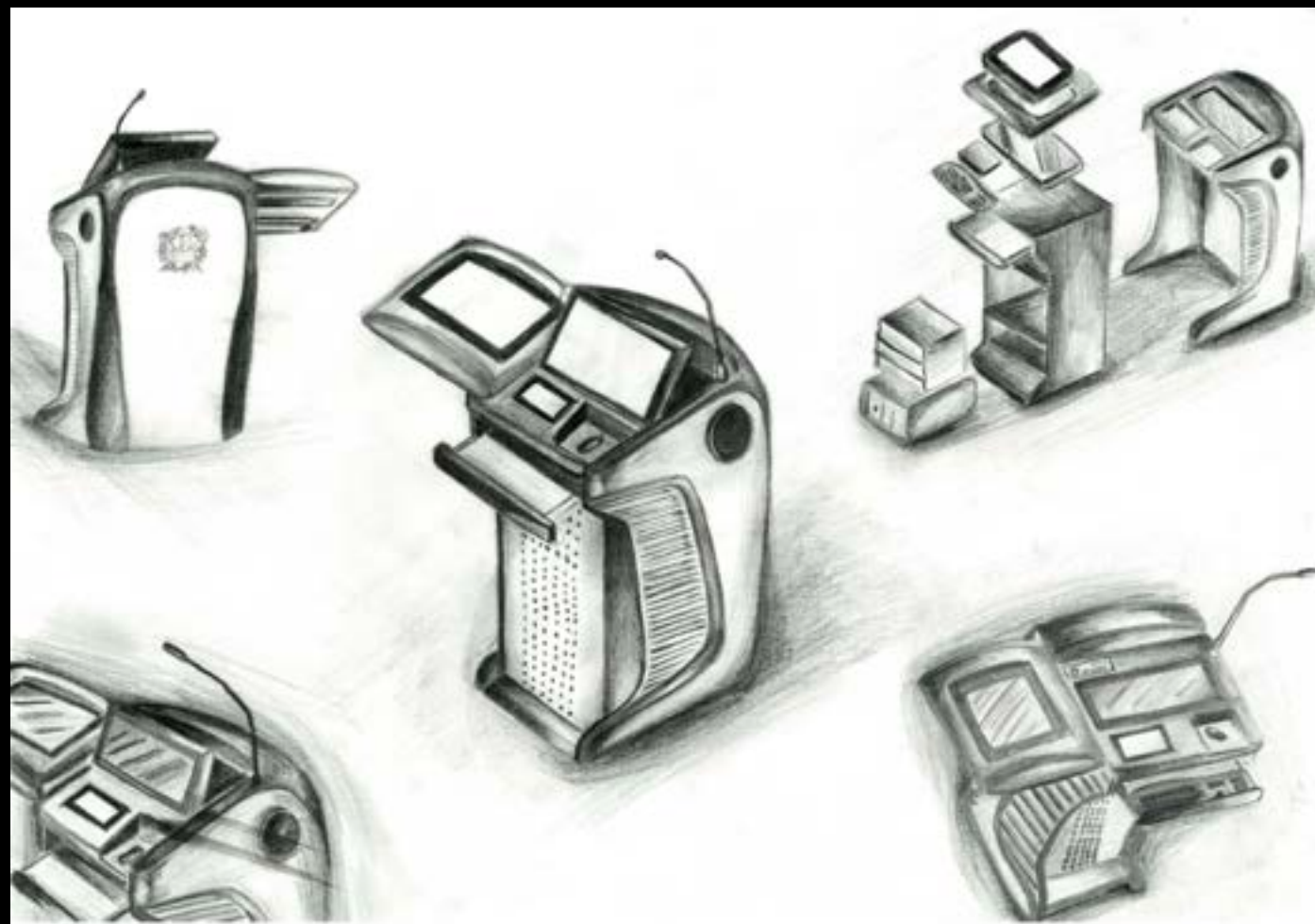
1. Existing Work

Existing Work

- Art and Design : your best 2D and 3D pieces (it's not an Art course, be sure to include some design!)
- DCG, Technology or Construction Projects
- Physical Builds - things you built or made e.g. furniture, technology, bikes, experiments, etc.
- Digital Builds - websites, arduinos, microbits, programming, etc
- Personal projects.



Existing work

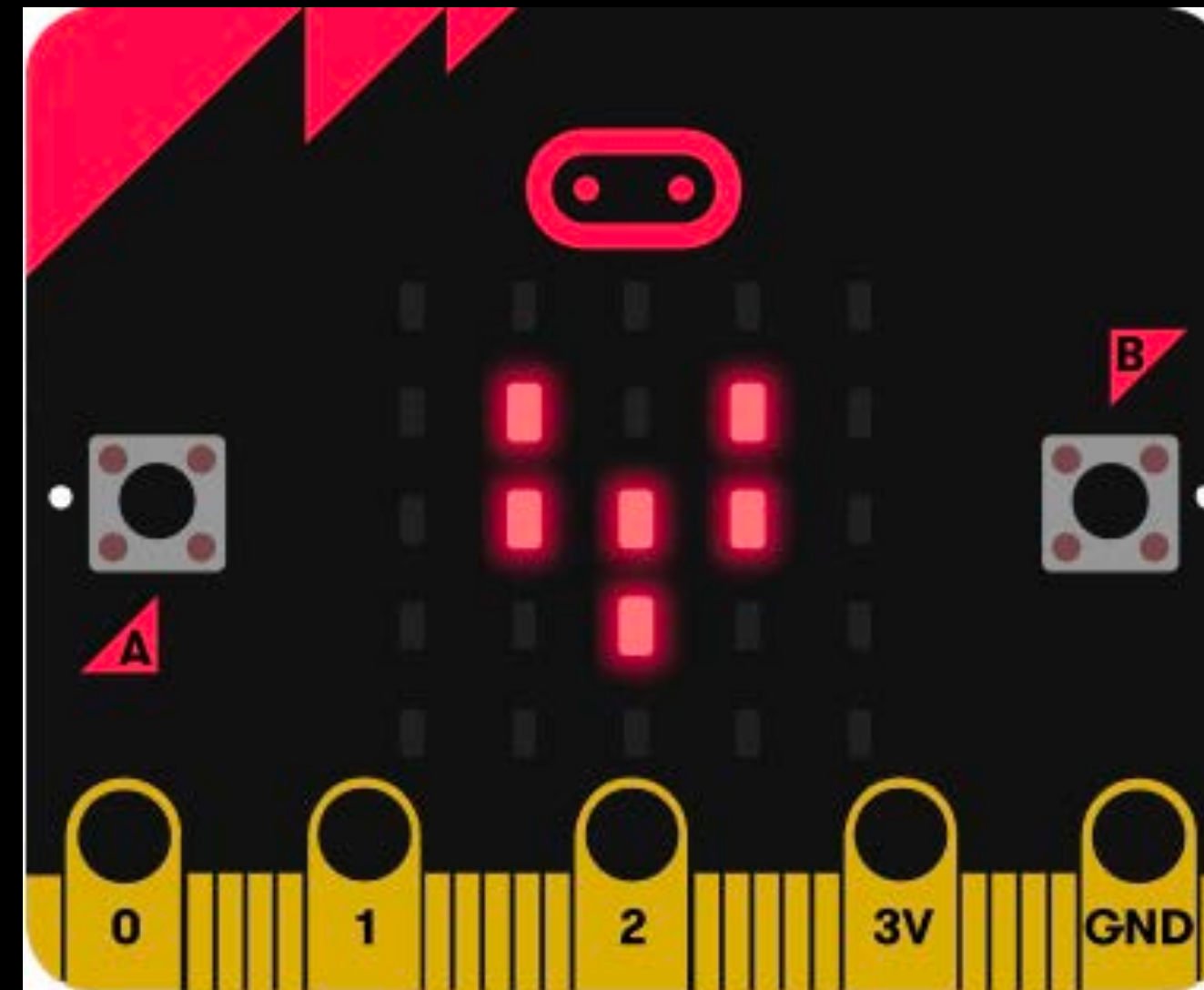


Existing work


```

94     <img alt="Placeholder image" data-bbox="100 680 250 750" class="img-fluid rounded w-100 h-100"/>
95     <div class="container">
96         <h1>One more for good measure.</h1>
97         <p>Cras justo odio, dapibus ac facilisis in, egestas eget quam. Donec id elit non ligula ligula velit.</p>
98         <p><a href="#" class="btn btn-lg btn-primary">Button</a></p>
99     </div>
100 </div>
101 </div>
102 <a href="#myCarousel" role="button" data-slide="prev">
103     <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
104 </a>
105 <a href="#myCarousel" role="button" data-slide="next">
106     <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
107 </a>
108 </div><!-- /.carousel -->
109
110 <!-- Featured Content Section-->
111
112 <div class="container">
113     <div class="row">
114         <div class="col-md-4"></div>
115         <div class="col-md-4"><h2>FEATURED CONTENT</h2></div>

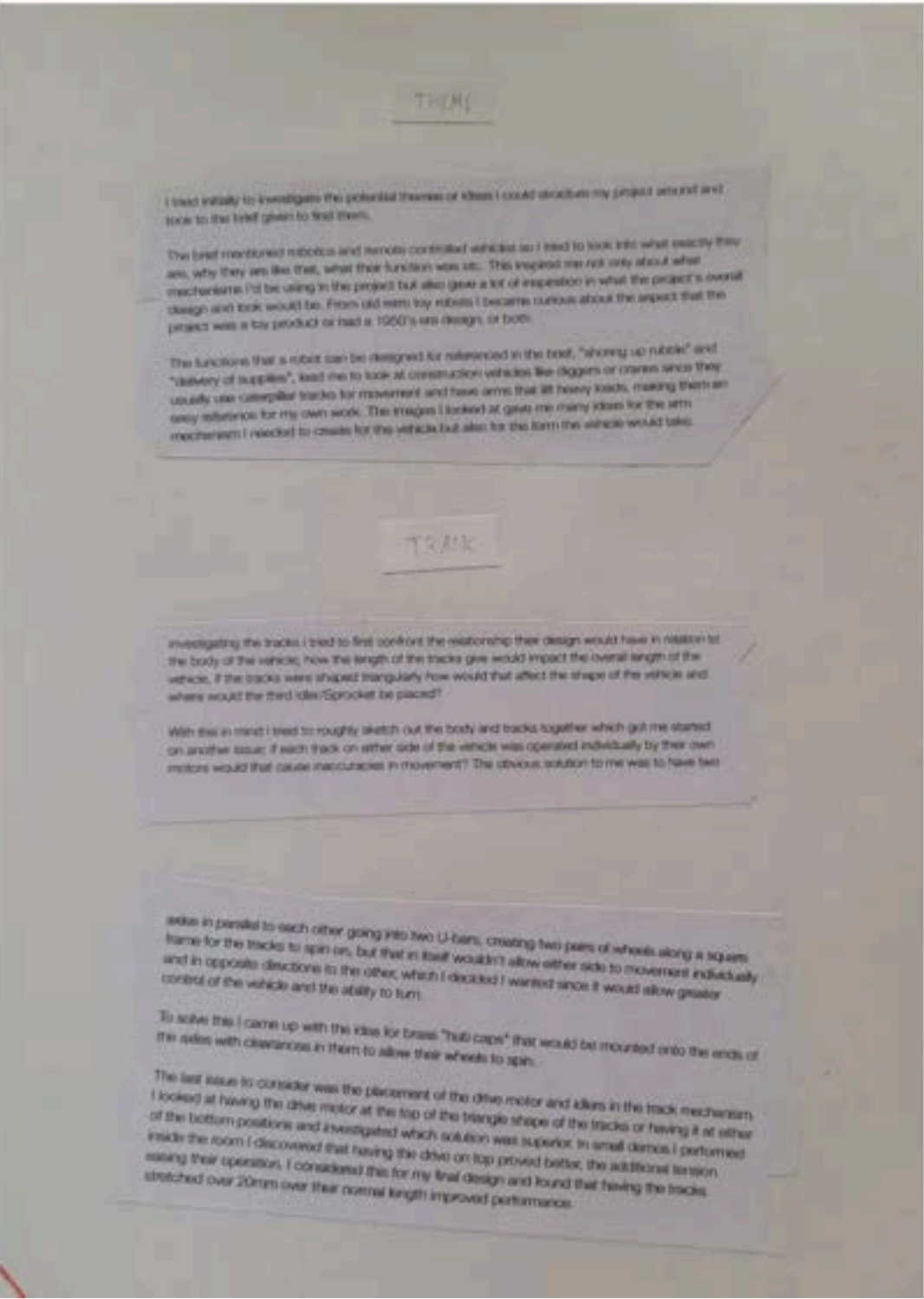
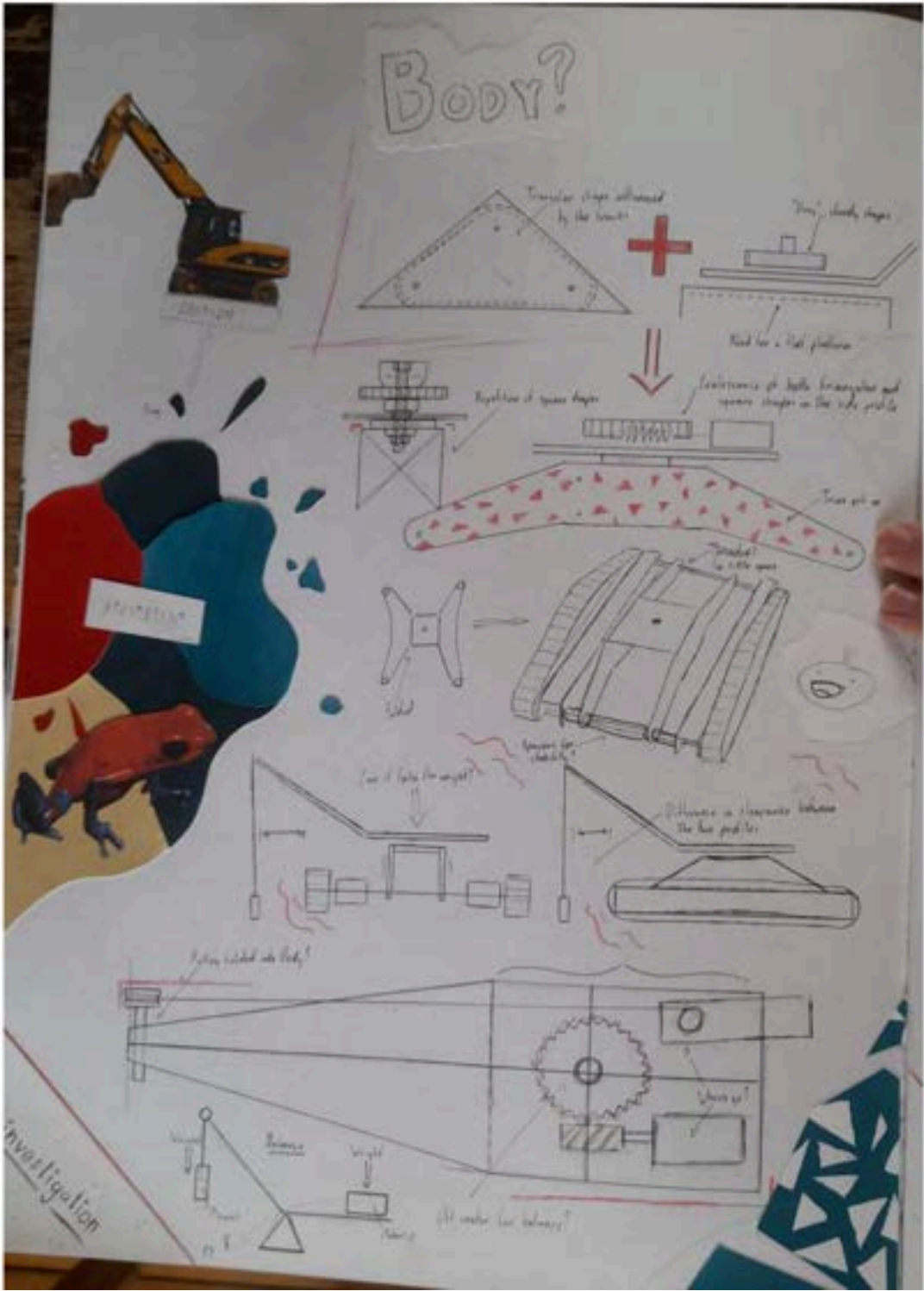
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Existing work

Existing Work

- Tell the story of the work.
- What were the reasons for design choices
- How did you do it
- What did you learn along the way.



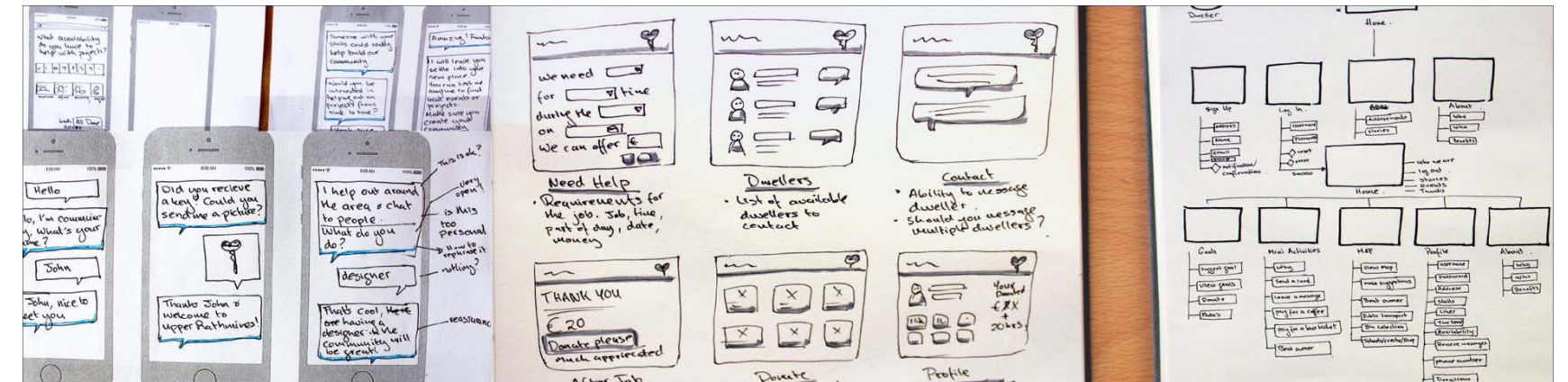
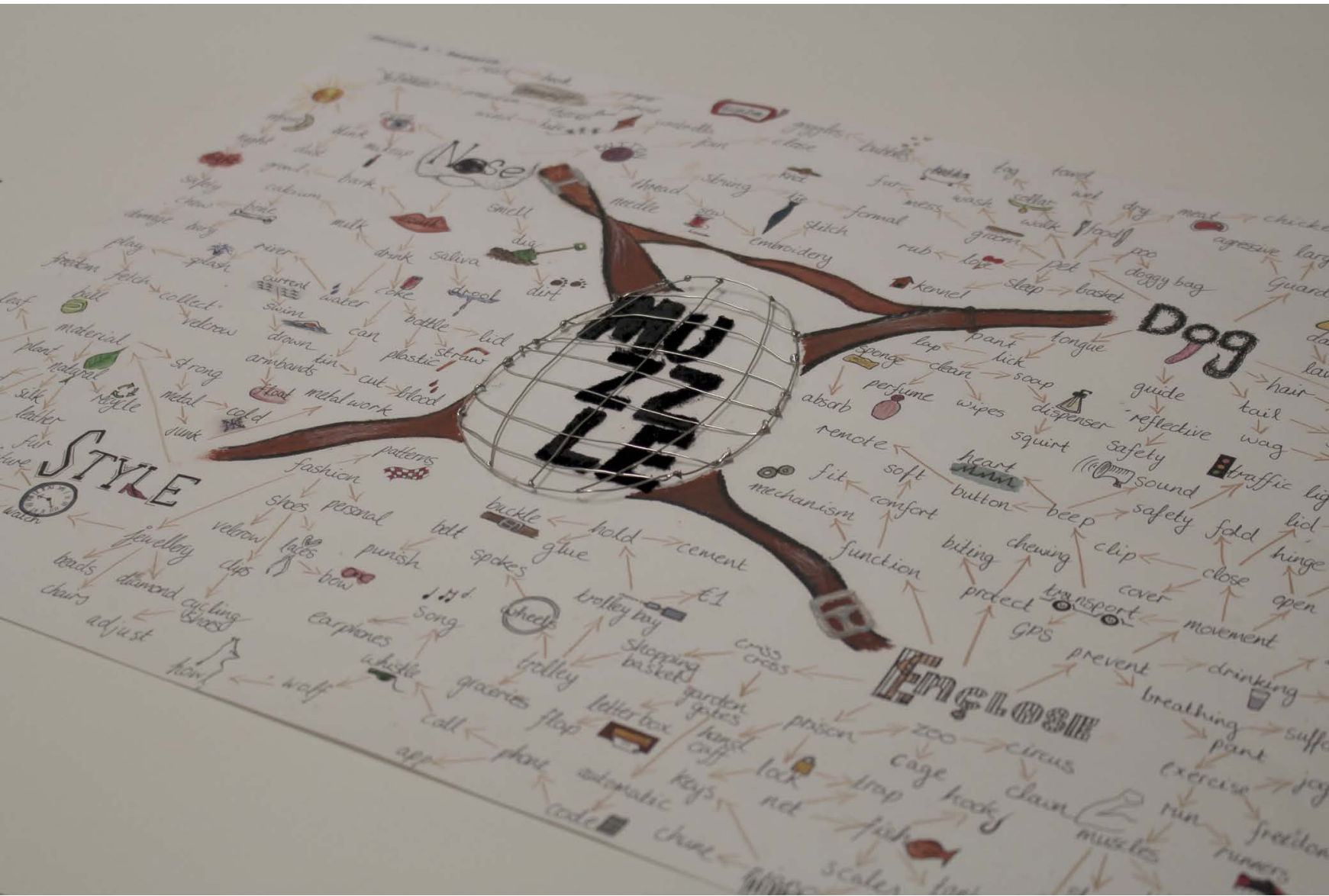
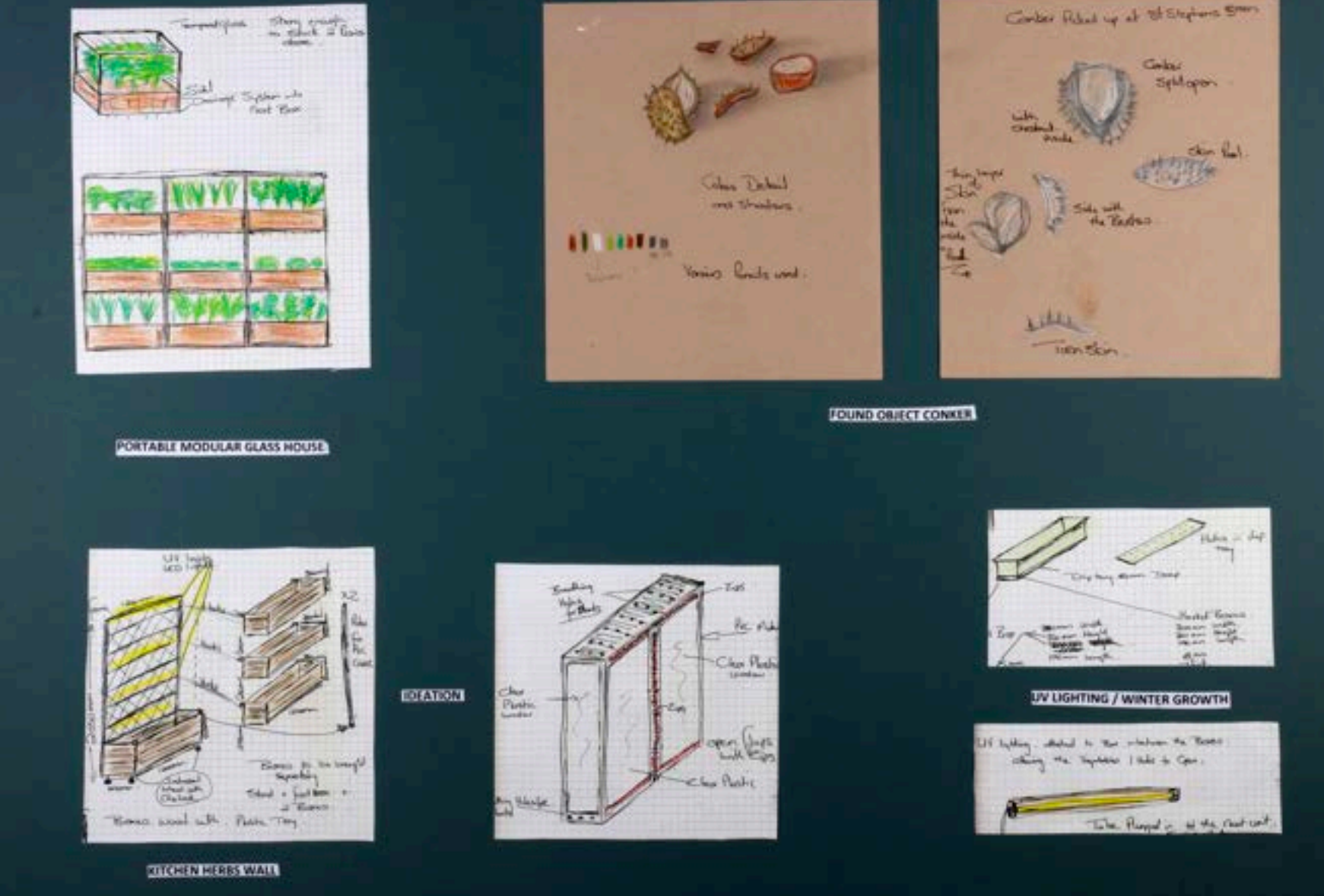
Present the Work.

Layout the different images/section

Use clear text descriptions

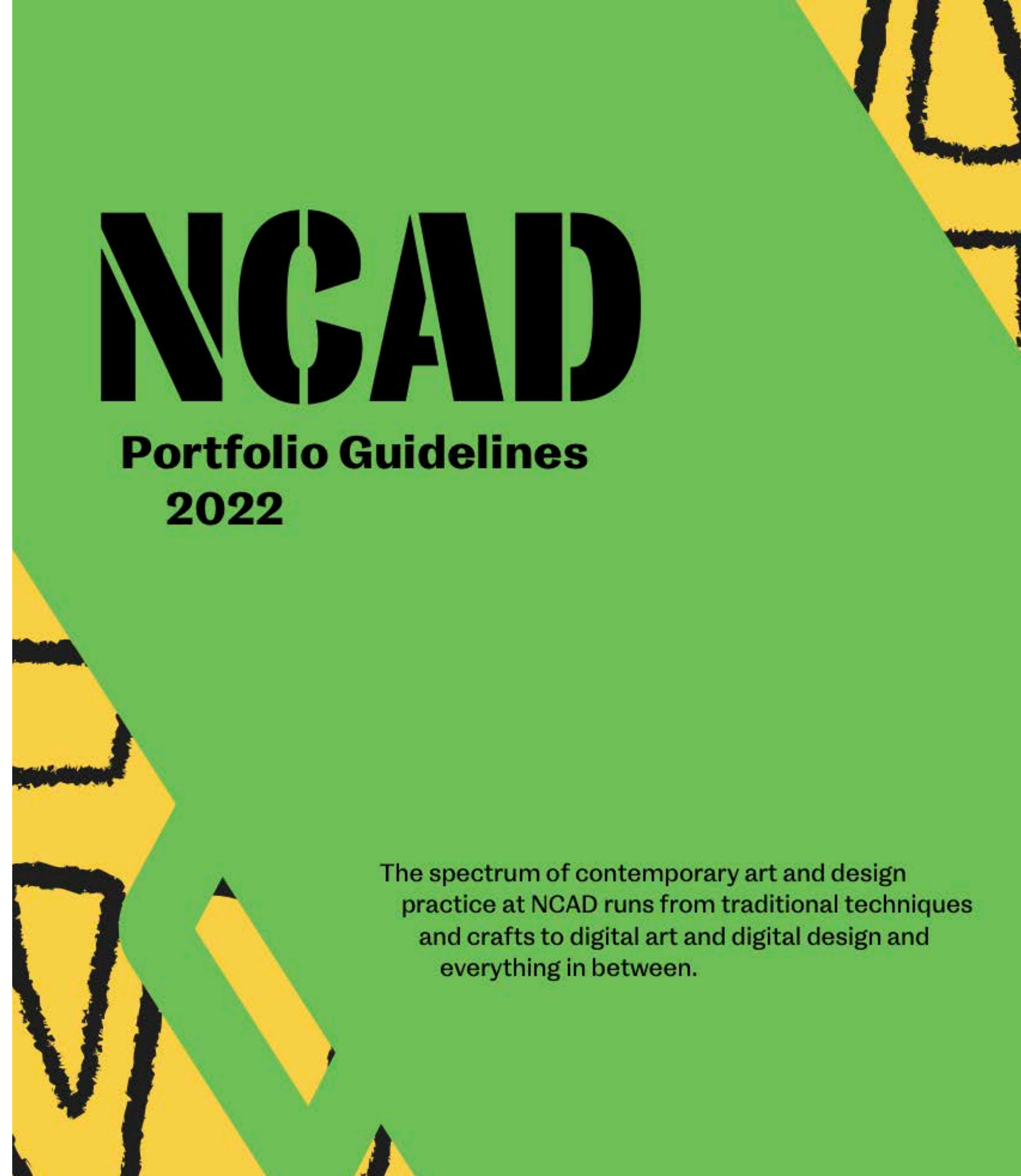
Can use paper and prints and photograph it.

Can use digital software e.g Photoshop, Canva, Powerpoint



What we are looking for.

1. Creative Enquiry & Visual Research
2. Idea Development & Material/Technical Exploration
3. Critical Judgement, Selection & Resolution

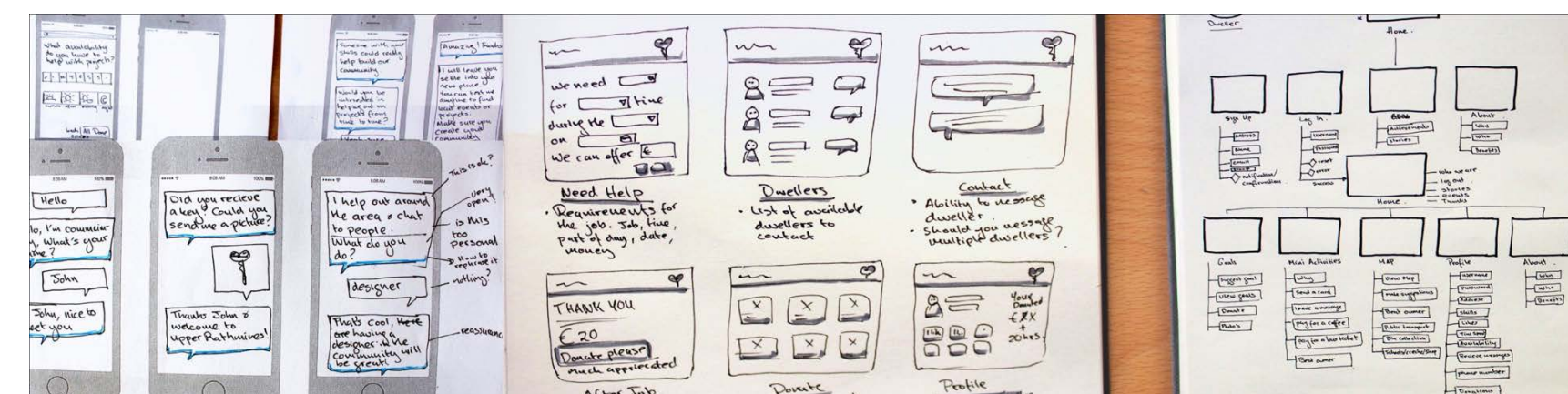
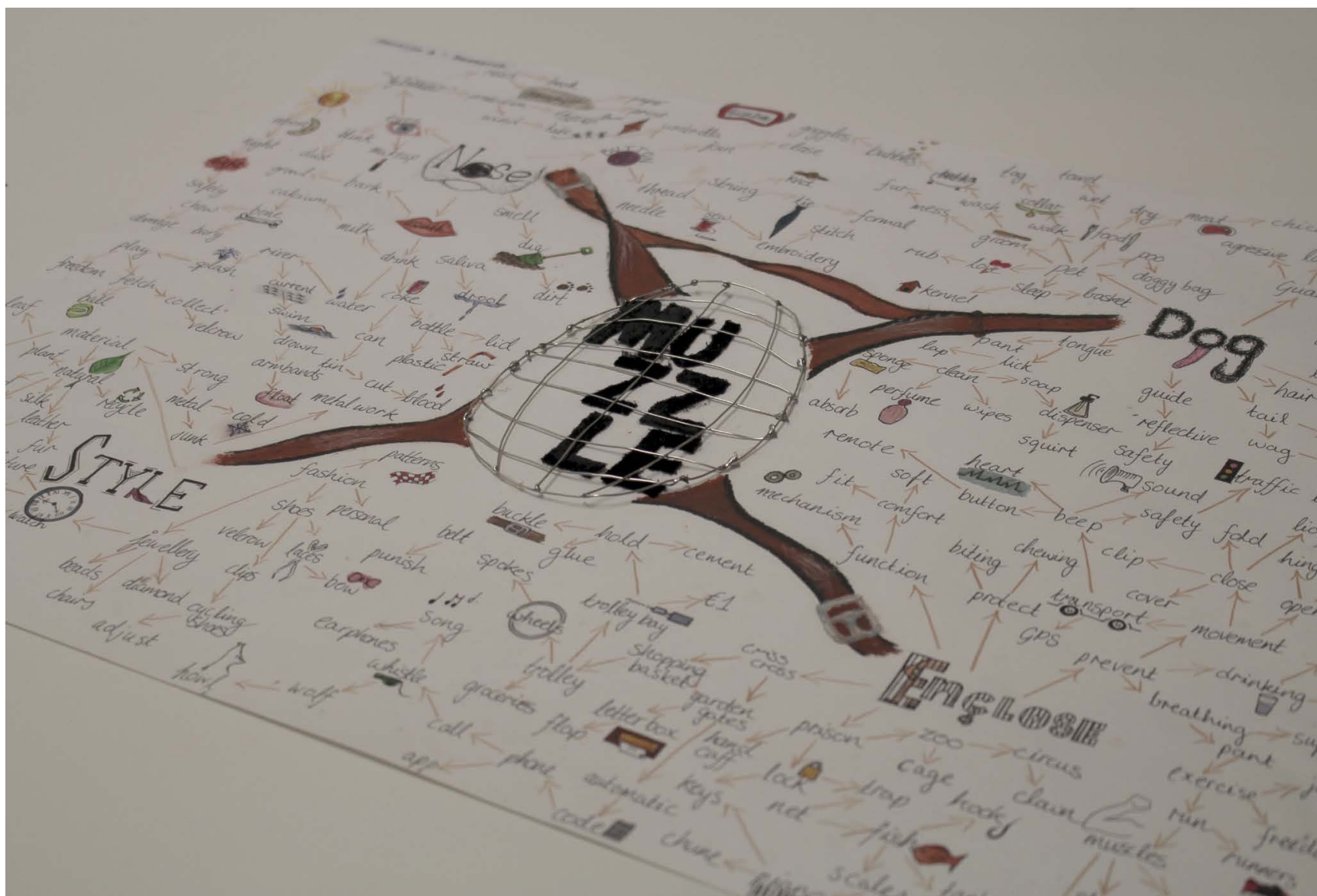
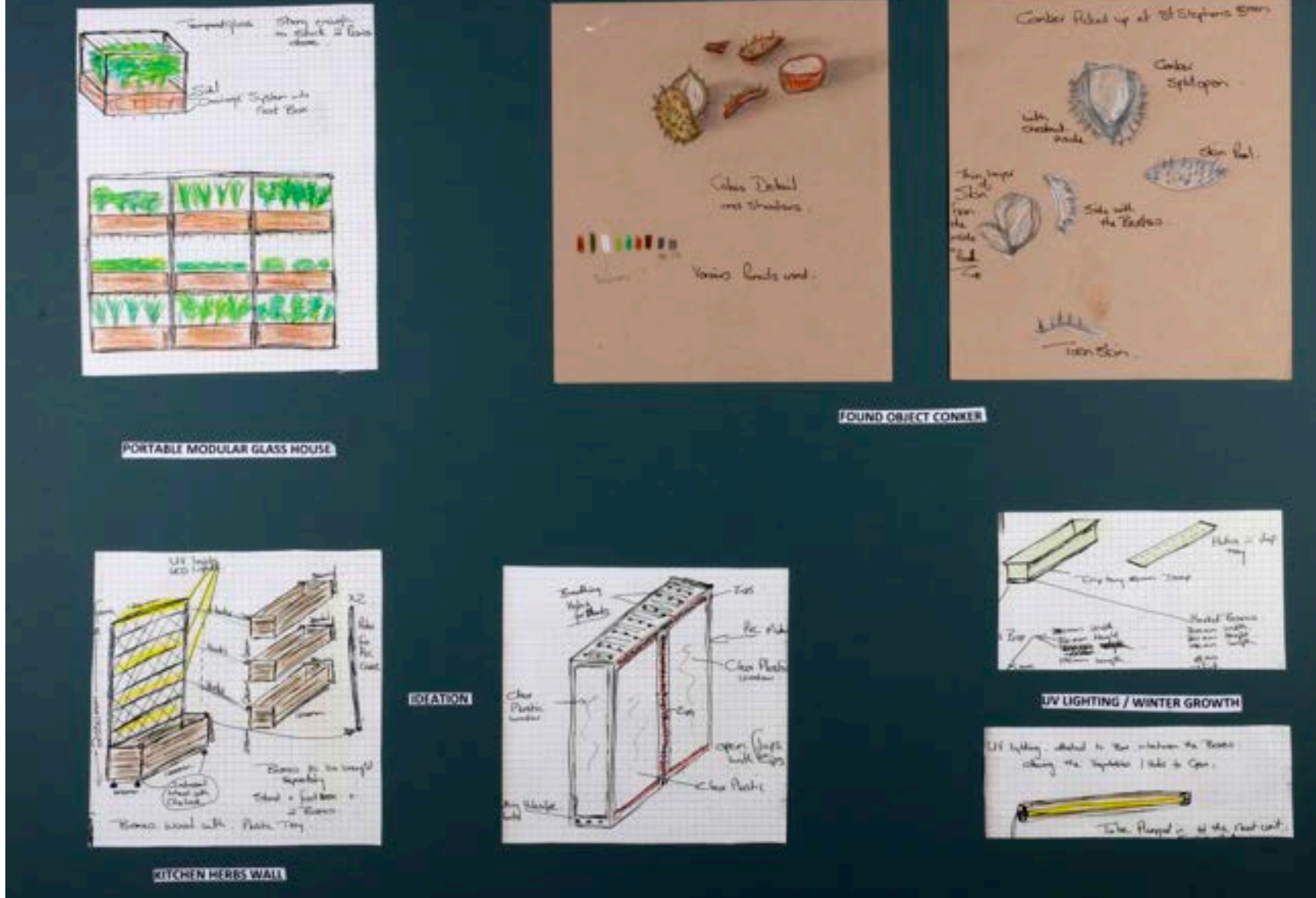


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Questions about applying with Existing Work?



2. Taking a Design Challenge

Taking a specific design challenge to generate a portfolio.

1. Allows you to **engage with a Design Process.**
2. Gives a structure which will allow you to **build a portfolio from scratch.**
3. Can be done in **as much or as little** time as you have!

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Find a problem people experience.

A situation you think could be made better through design.

Create a new design which addresses this problem.

CREATIVE ENQUIRY & VISUAL RESEARCH

UNDERSTAND WHO YOU ARE
DESIGNING FOR



INTERVIEW



OBSERVE

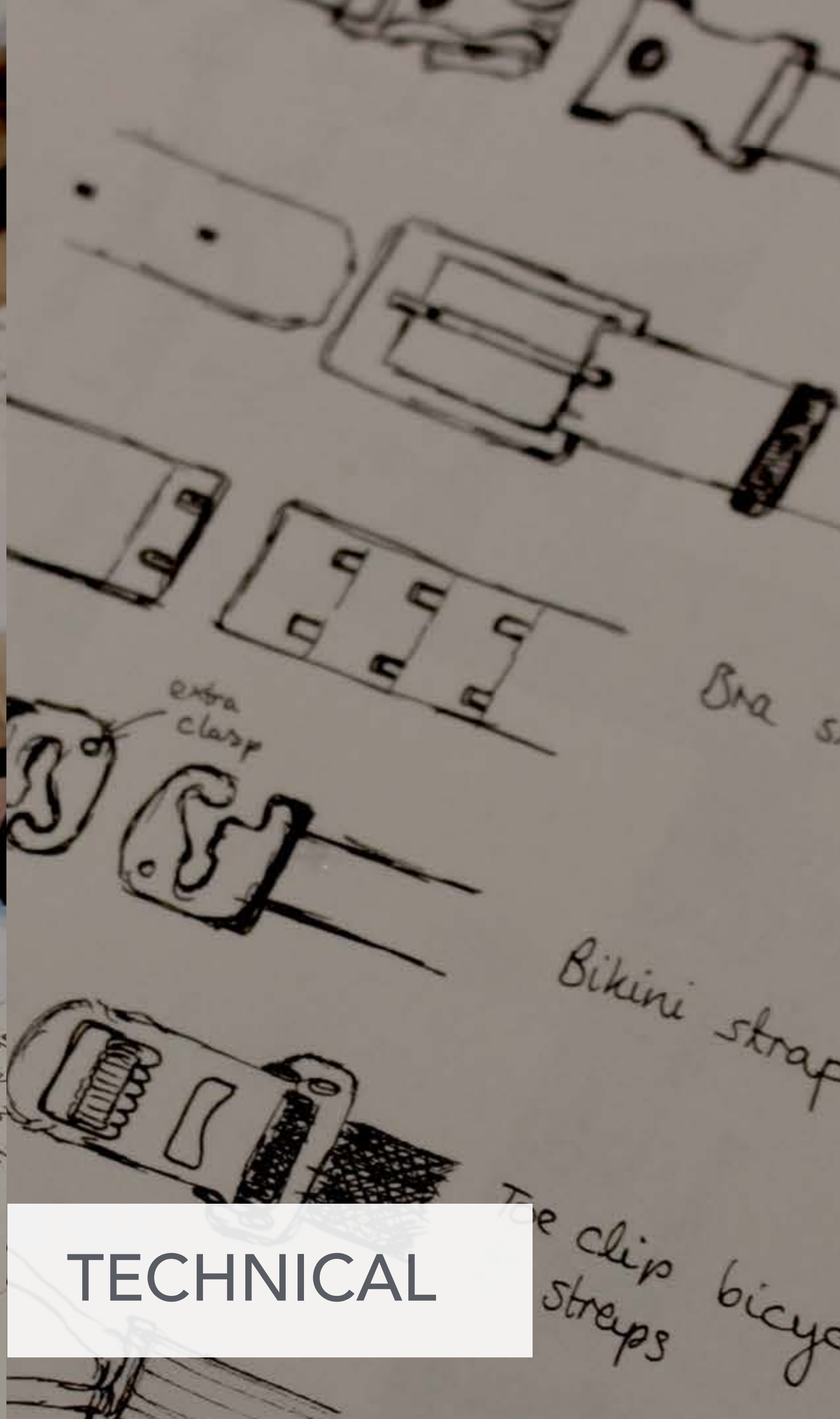


BODYSTORM

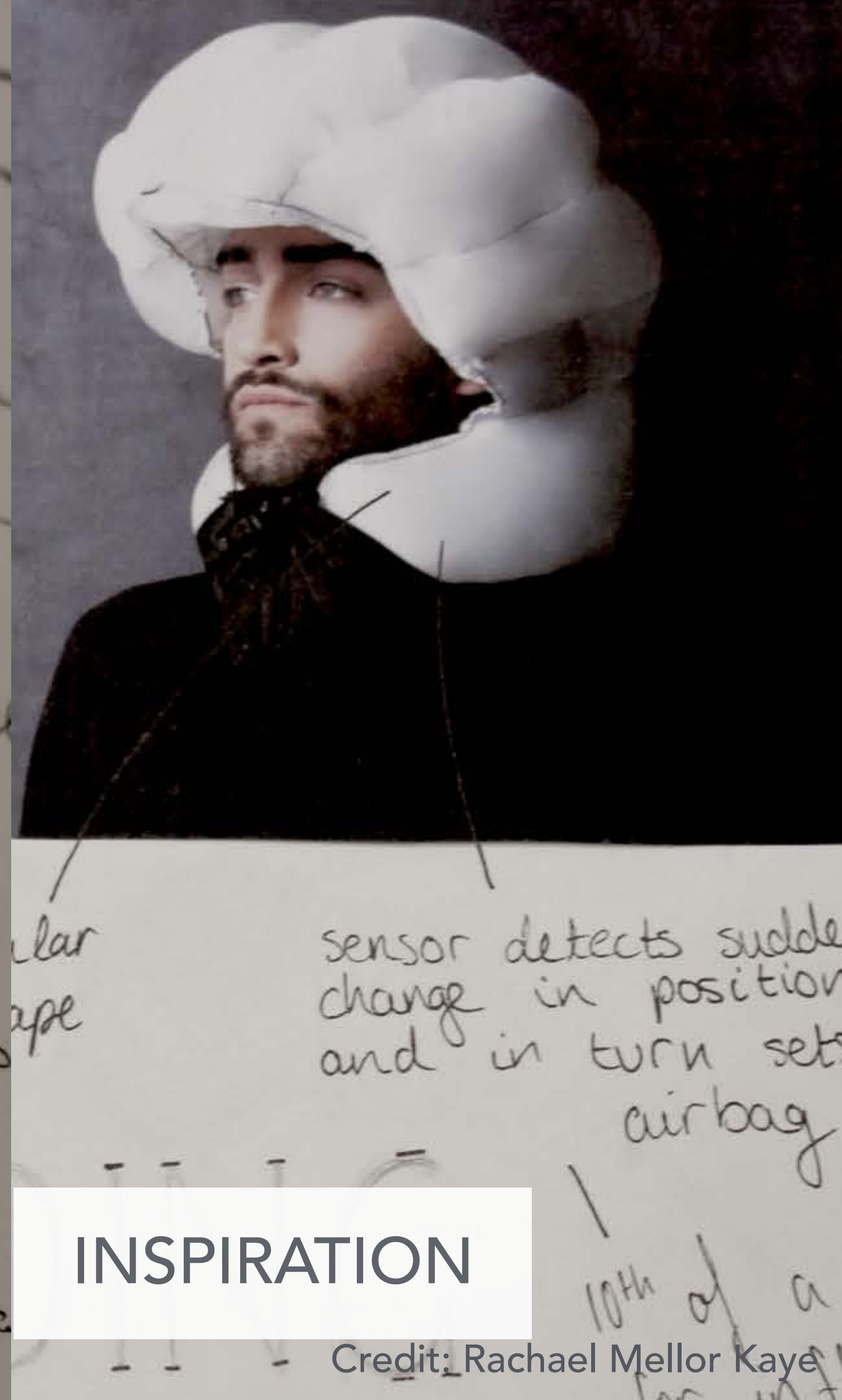
SECONDARY RESEARCH



PRODUCTS



TECHNICAL

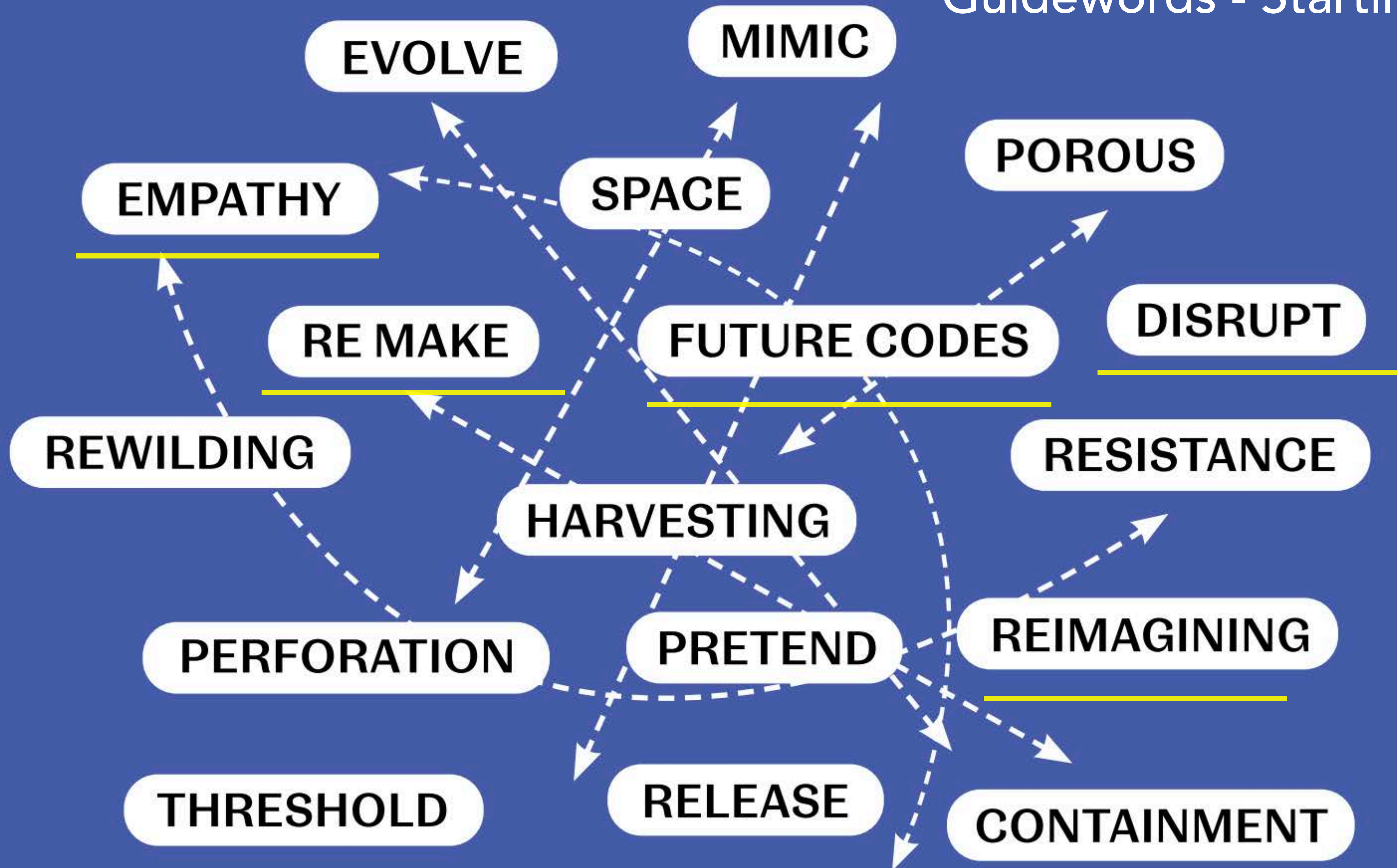


INSPIRATION

Credit: Rachael Mellor Kaye

HOW TO GET STARTED

Guidewords - Starting Points



HOW TO GET STARTED

- Start with the guide words - brainstorm and mind map
- Consider your interests
- What problems do you see
- What opportunities do you see
- Ask questions
- Set yourself a challenge

MAKE A RESEARCH PLAN

- Ask questions about your design challenge
- Consider who you should talk to
- Consider where you should observe
- Can you experience the problem firsthand?
- What online research can you do?
- Are there related products/solutions you should look at?
- Look for inspiration

How about
2 minutes?

The Process

WE NEED YOU TO...

Navigate through the process of removing a Dublin Bike. There are 6 screens to navigate through. You can use our card to remove the bike.

THINK OUT LOUD

We would like you to talk out loud about what you are thinking while you go through the process. This helps us to understand what's good and bad about the terminals from different perspectives.

After you remove the bike, we need you to do the following steps:
The process should take no more than one - two minutes, then we have a few short questions to ask.

Be honest!

WHAT ARE WE DOING?

We want to determine if the Dublin Bike terminals are user friendly by conducting some user testing.

USER TESTING?

We're not testing you, we're testing the design of the terminals, and you can leave whenever you wish.

We have one quick task for you to complete - removing a bike, and a few short questions to ask.

Chocolate. And two very happy lads.



Hello!

User Survey

AGE

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15-20	21-30	31-40	41-50	50-60	60+

HOW LONG HAVE YOU BEEN USING THE SERVICE?

WHY DO / DON'T YOU USE THE SERVICE?

FREQUENCY OF USE

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regular	Occasional	Never	Visitor	Dublin

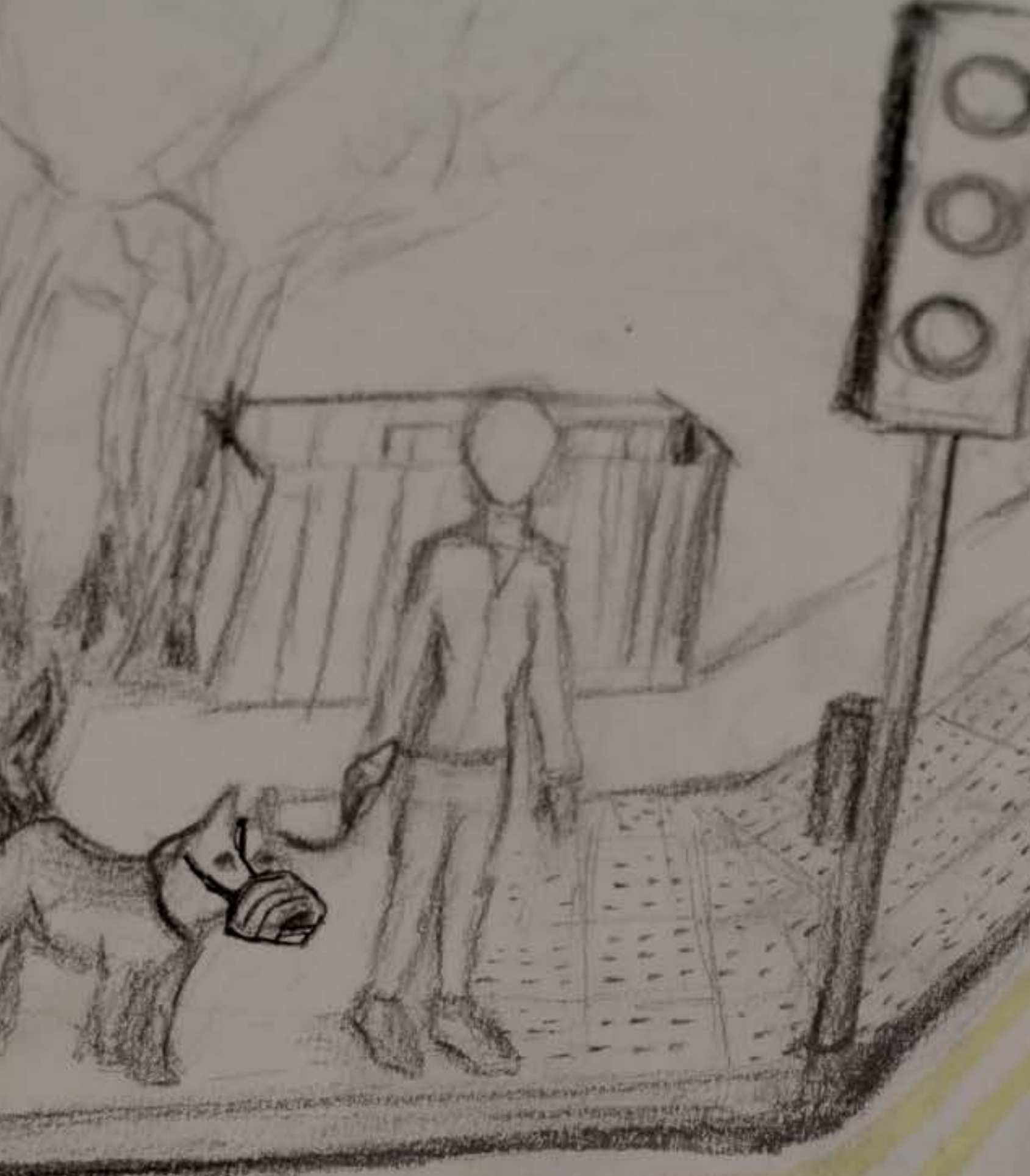
WHAT STAGE OF YOUR COMMUTE ARE YOU AT?

WHAT DO YOU LIKE / DISLIKE ABOUT THE PROCESS?



DOCUMENT YOUR RESEARCH

Credit: Mark Ennis & Eoin Fitzpatrick



- common materials
 - short term use
 - ↳ Won't stop a very aggressive dog
 - ↳ prevent panting.
 - Whiskers damage
 - ↳ causes irritation
- Un
- Con

can see sight
restricto



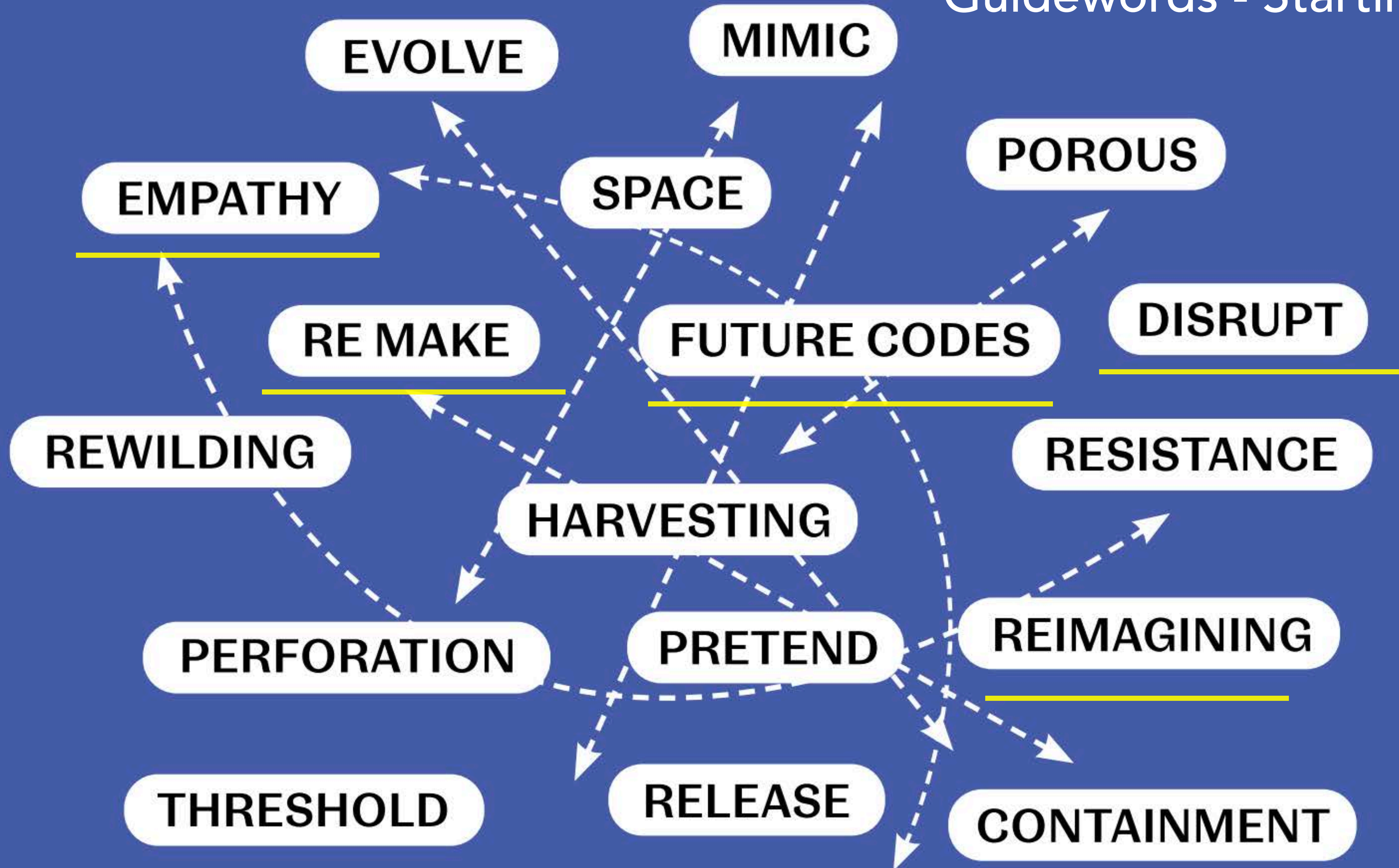
From my car I saw this in
then that I realised the
cruelty of the
it CAN be improved!

SHOW US YOUR RESEARCH

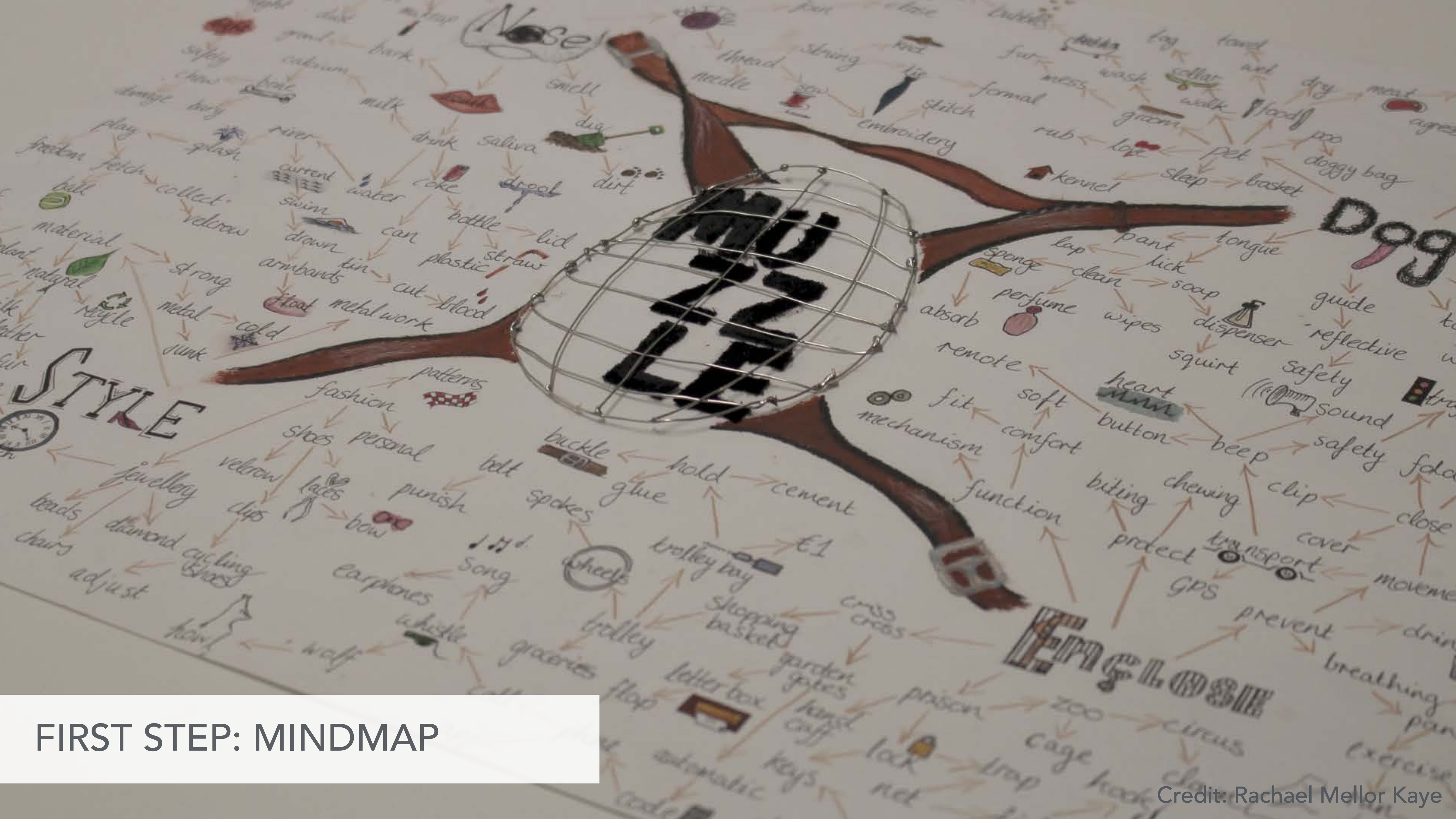


CONTINUE RESEARCH THROUGHOUT
THE PROJECT

Guidewords - Starting Points



Empathy



FIRST STEP: MINDMAP

IDEA DEVELOPMENT AND MATERIAL/
TECHNICAL EXPLORATION

Create ideas beyond the known or purely observed.

Be playful, imaginative, experimental and inventive.

We want to see how your research can produce new creative outcomes.

HOW CREATIVE IDEAS ARE GENERATED

An innovative idea is often a connection between
or an expansion of existing ideas.

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or an expansion of existing ideas.



Cyclonic vacuum cleaners
James Dyson
1978 - now



An innovative idea is often a connection between
or an expansion of existing ideas.



Eva Solo tea-maker
Claus Jensen & Henrik Holbaek
2006



These kinds of connections are usually made in the subconscious part of our brain.

That's why creative insights often occur in the relaxed mind following a period of intense immersion in a problem.





That's why creative insights often occur in the relaxed mind following a period of intense immersion in a problem.

- Familiarise yourself thoroughly with the problem and with your research findings



That's why creative insights often occur in the relaxed mind following a period of intense immersion in a problem.

- Familiarise yourself thoroughly with the problem and with your research findings
- Give yourself a break every now and again and allow your mind to wander

WHAT YOU CAN DO

How about
2 minutes?

The Process

WE NEED YOU TO ...

Navigate through the process of removing a Dublin Bike. There are 6 screens to navigate through. You can use our card to remove the bike.

After you remove the bike, we need you to dock the bike again. That's it!

The process will take you one - two minutes, then we have a few quick questions to ask.

THINK OUT LOUD

We would like you to talk out loud about what you are thinking while you go through the process. This helps us to understand what's good and bad about the terminals from different perspectives.

WE WILL BE ...



WHAT ARE WE DOING?

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Hello!

User Survey

AGE

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15 - 20	21 - 30	31 - 40	41 - 50	50 - 60	60 +

FREQUENCY OF USE

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Regular	Occasional	Never	Visitor	Dublin

WHAT STAGE OF YOUR COMMUTE ARE YOU AT?

HOW LONG HAVE YOU BEEN USING THE SERVICE?

WHY DO / DON'T YOU USE THE SERVICE?

WHAT DO YOU LIKE / DISLIKE ABOUT THE PROCESS?



PROCESS YOUR RESEARCH

Photo: Mark Ennis & Eoin Fitzpatrick



SKETCH, SKETCH, SKETCH



It's all about quantity

SKETCH, SKETCH, SKETCH



It's all about quantity

- Sketch quickly and don't overwork your drawings.

SKETCH, SKETCH, SKETCH



It's all about quantity

- Sketch quickly and don't overwork your drawings.
- Don't be too critical of your ideas at this stage.

SKETCH, SKETCH, SKETCH

It's all about quantity

- Sketch quickly and don't overwork your drawings.
- Don't be too critical of your ideas at this stage.
- Don't spend too much time on any one idea.

SKETCH, SKETCH, SKETCH





Still having unanswered questions?
Contact the house owner

ABOUT your STAY

Check-in Monday, 19th September	Check-out Sunday 25th September
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720€ 6 nights
off-season

Number of guests (incl. you)

-	5	
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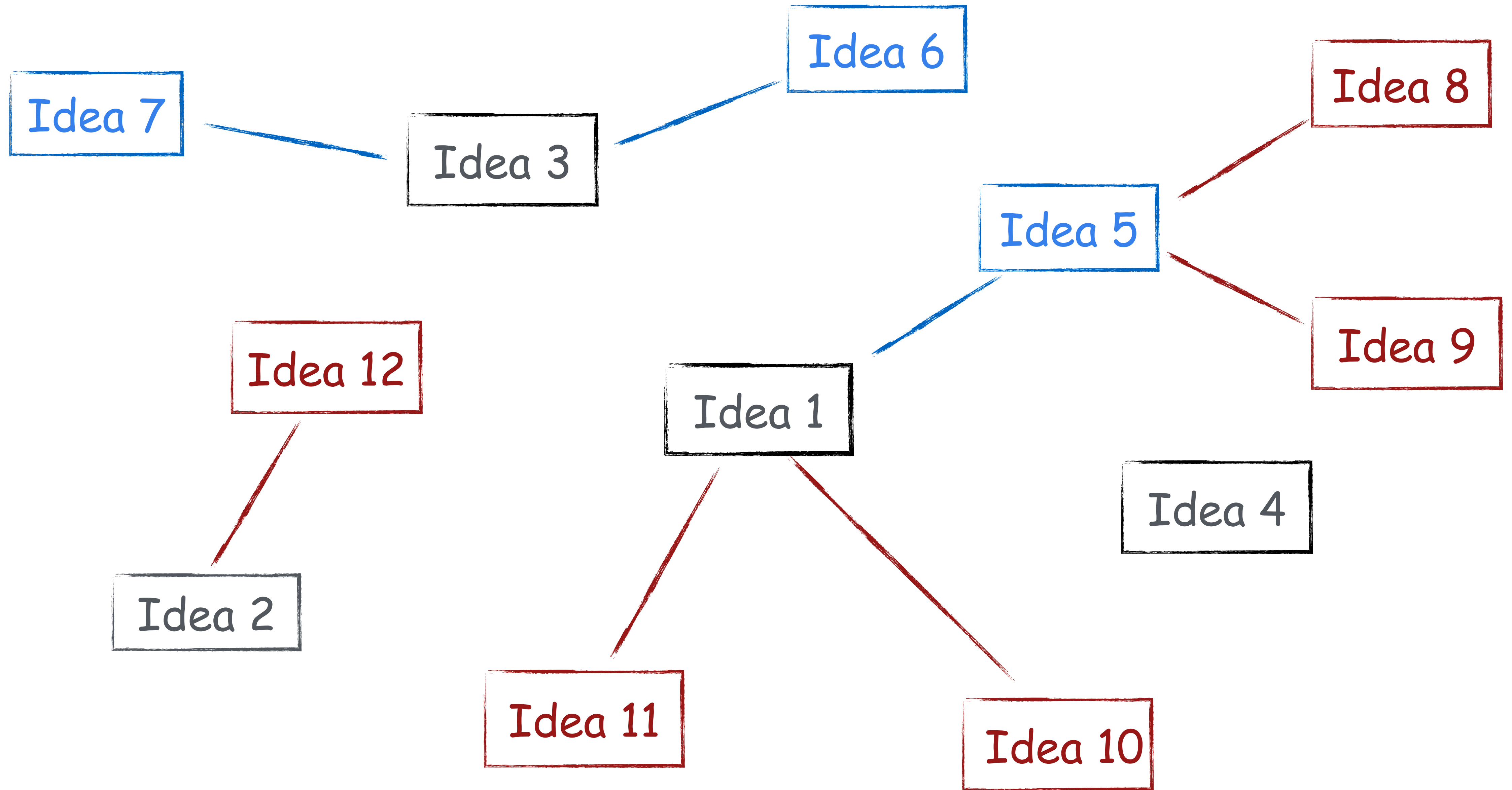
ABOUT you
Name

MODEL AND TEST



SEEK INPUT FROM OTHERS

BRAIN-WRITING



CRITICAL JUDGEMENT, SELECTION AND RESOLUTION

Identify which ideas have the most potential.

Take at least one of your creative proposals and develop it thoroughly to a level of completion.

Show how your creative outcomes and solutions have evolved as part of the research process.

IDENTIFY - DEVELOP - PRESENT

IDENTIFY

- Which ideas show the most promise?
- Look back over all your ideas and rate them
- Ask others for feedback
- Select one route for development.



IDENTIFY - It doesn't have to be a product!

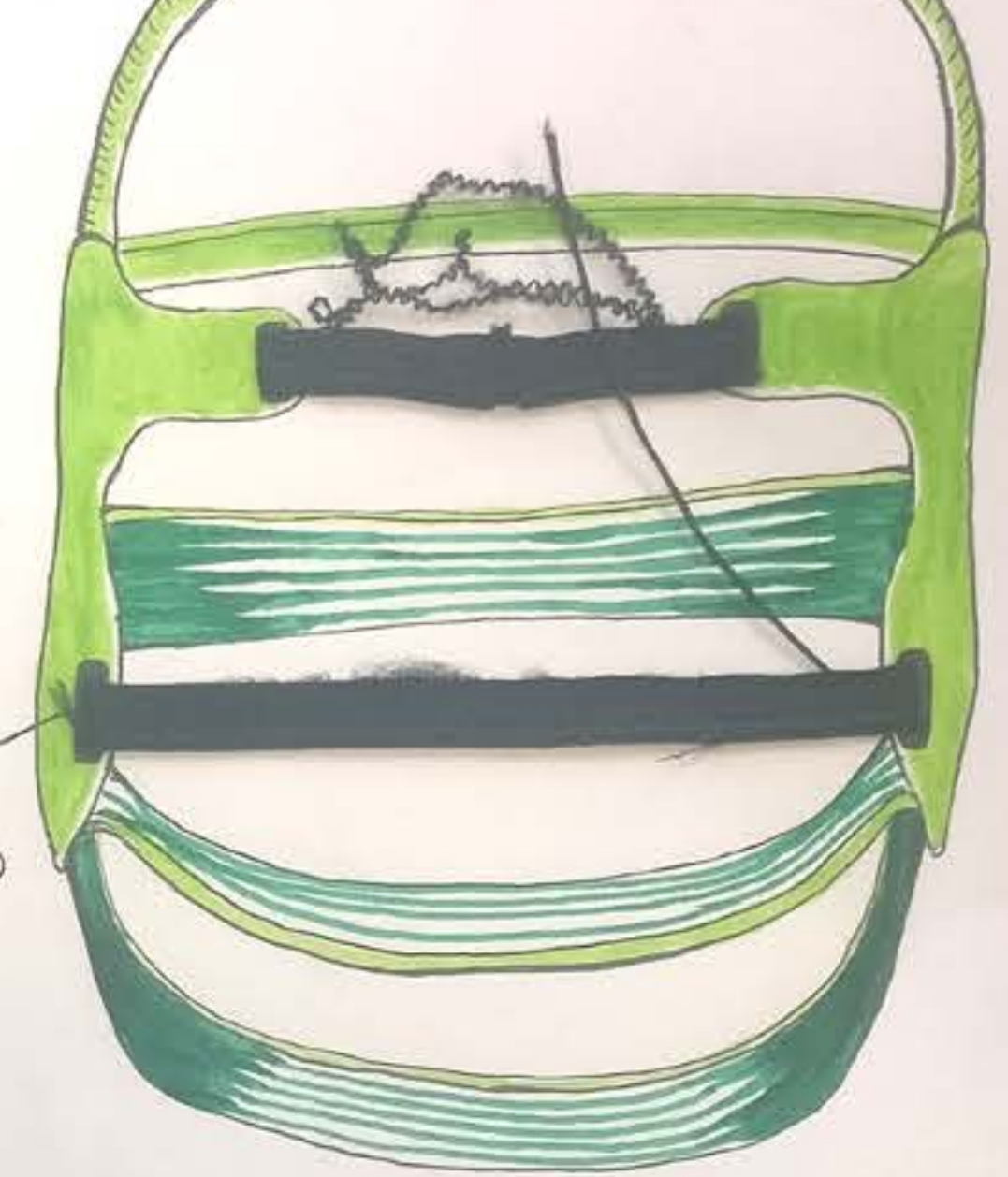
- Product
- App
- Service
- Environment
- Combination of above



DEVELOP

- Explore how people might use your idea
- Develop what it might look like
- Investigate possible materials / technologies
- Think about how it might work





elasticated strap to allow easy application and ensure deep's comfort.



colour and shape makes the dog look a lot more approachable



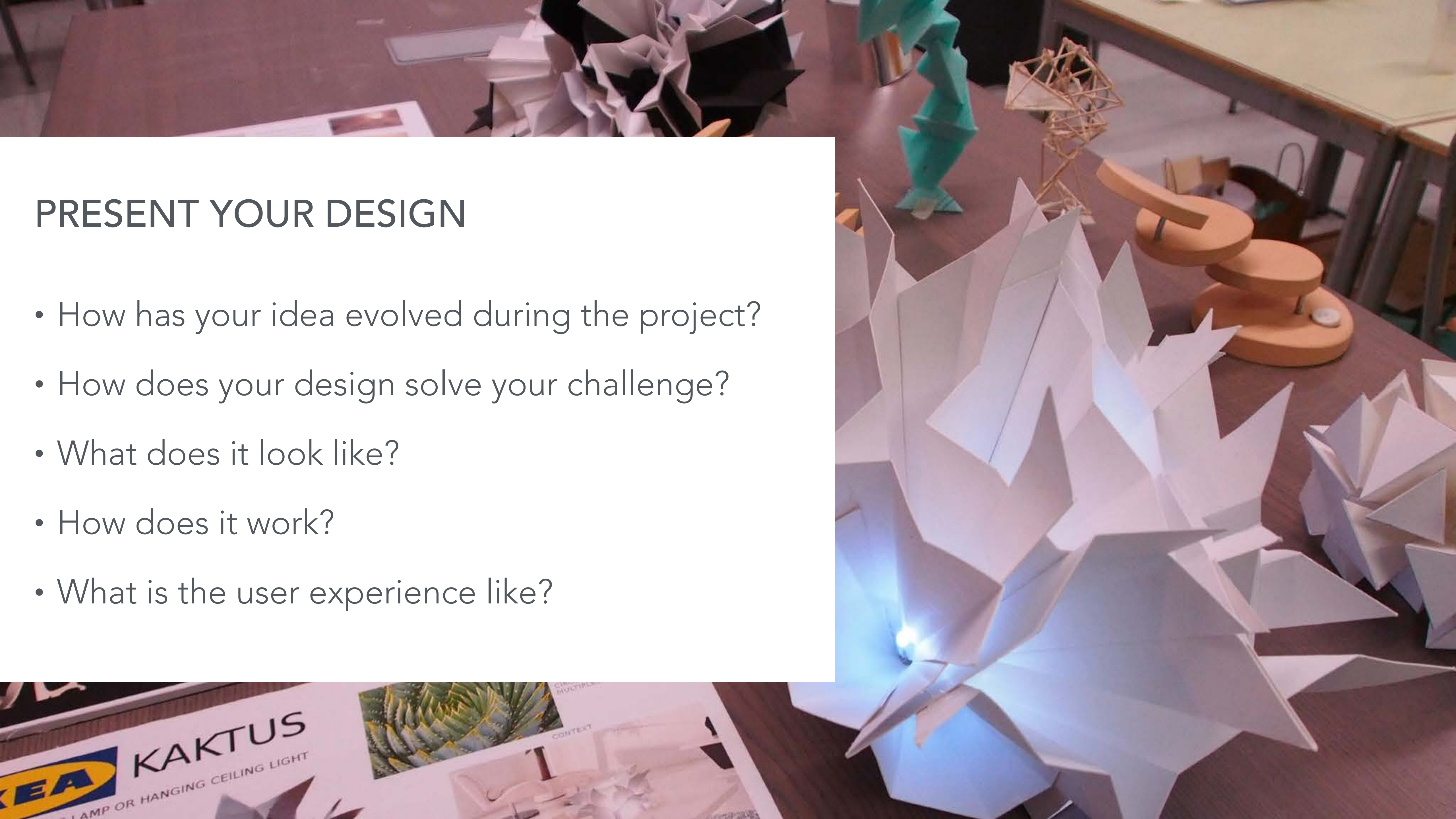
DEVELOP

- Draw your idea from different views
- Gather material samples
- Make sketch models to explore form and function
- Test your ideas in the real world
- Keep it simple and quick!



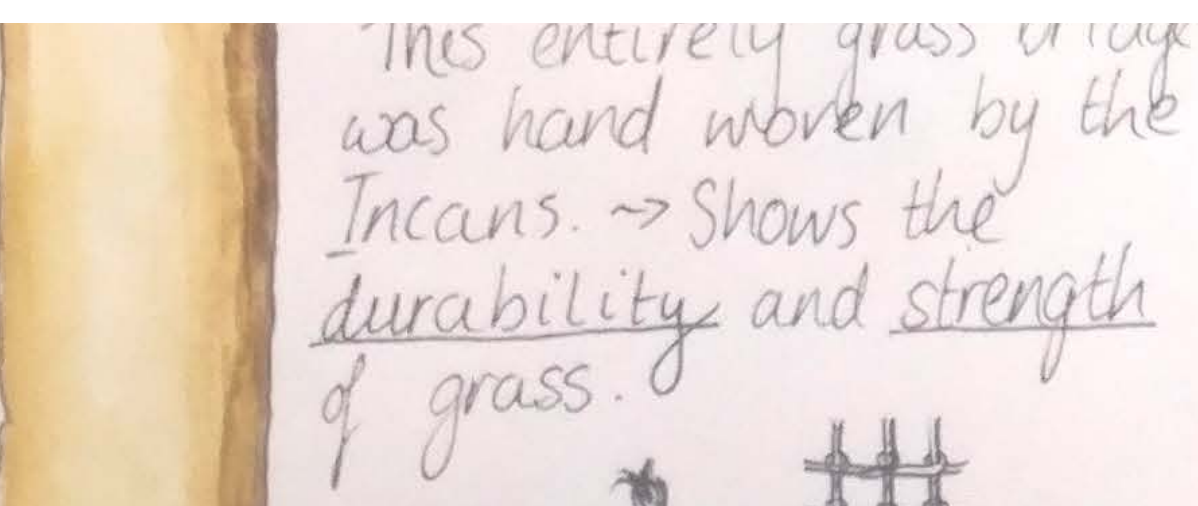
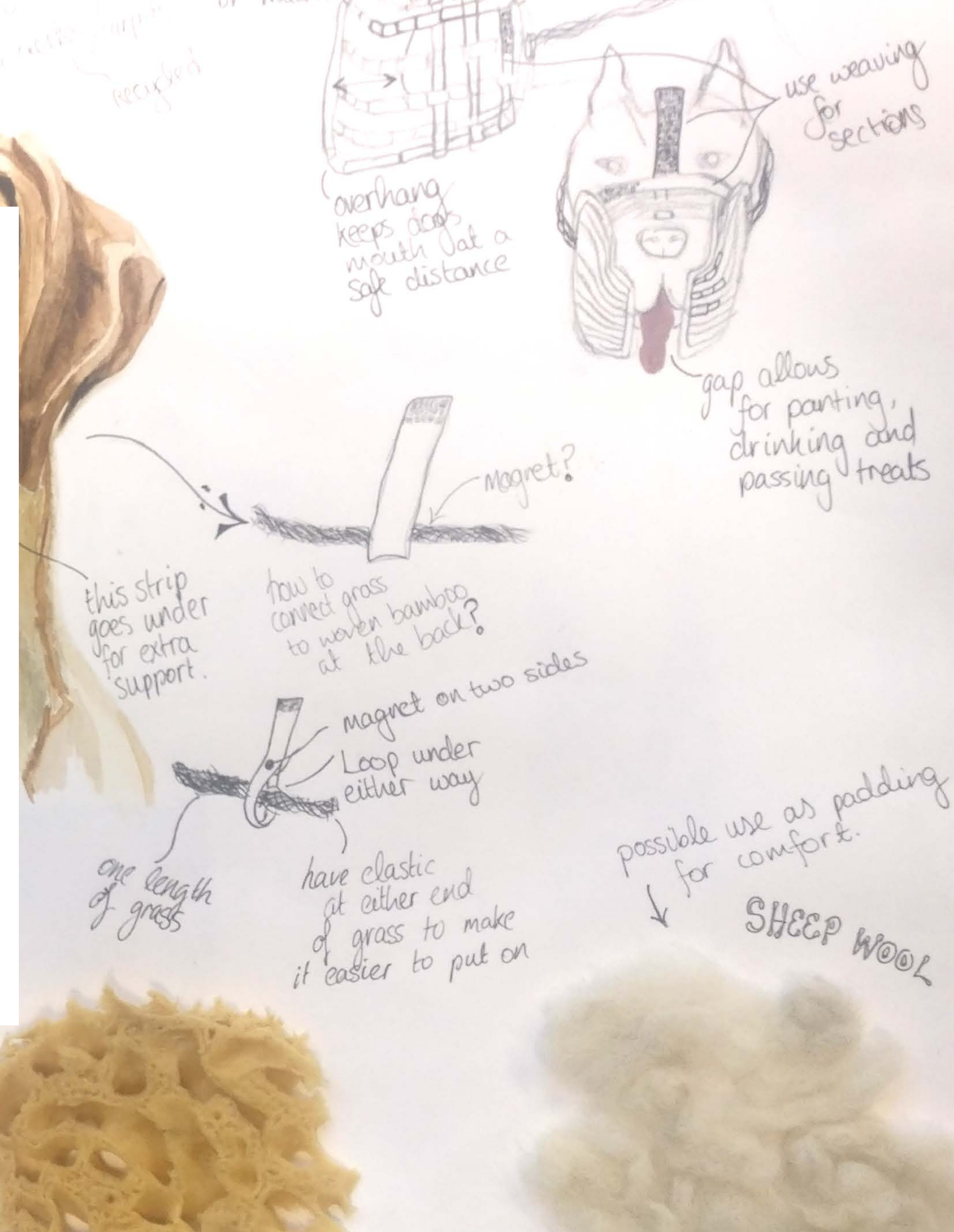
PRESENT YOUR DESIGN

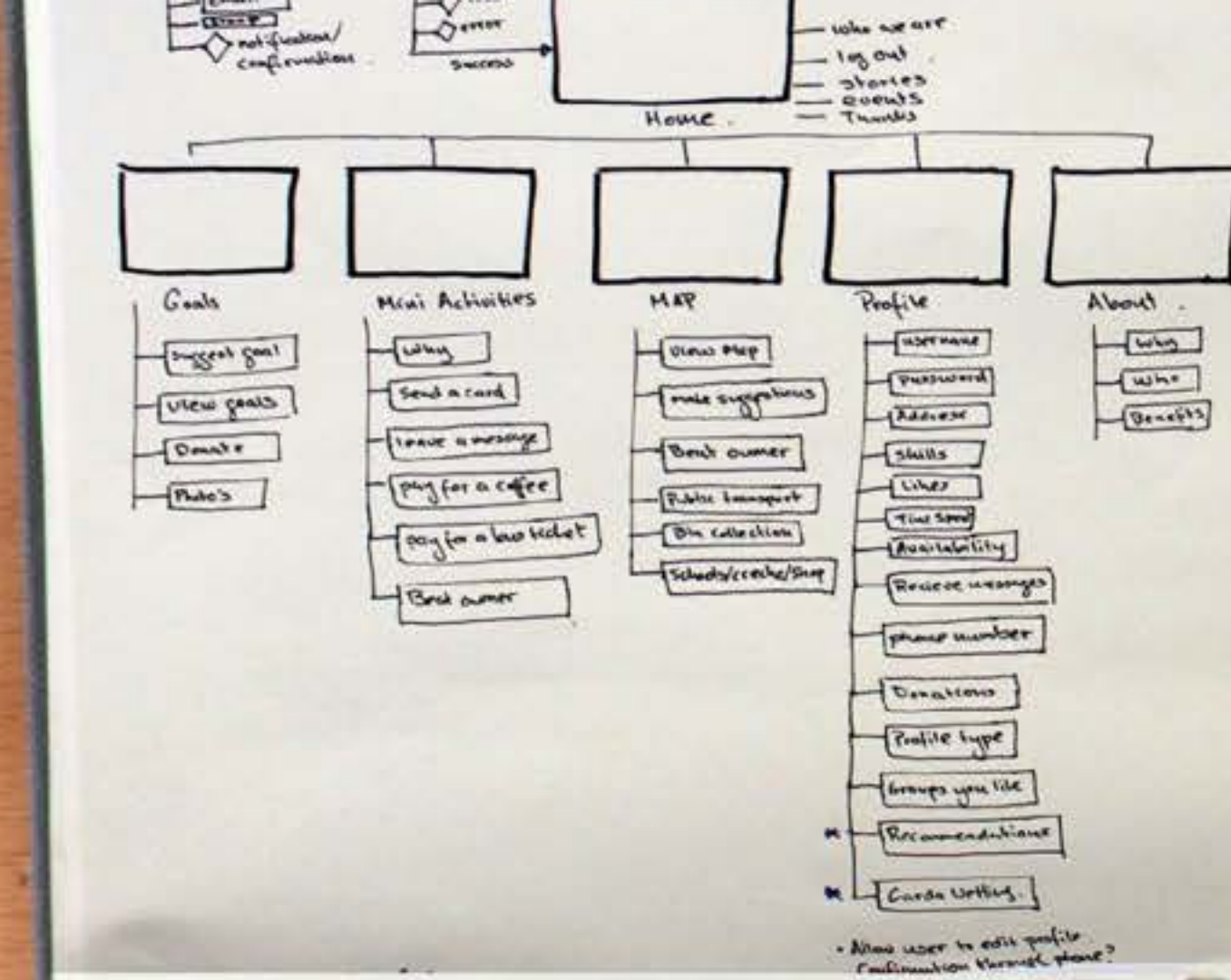
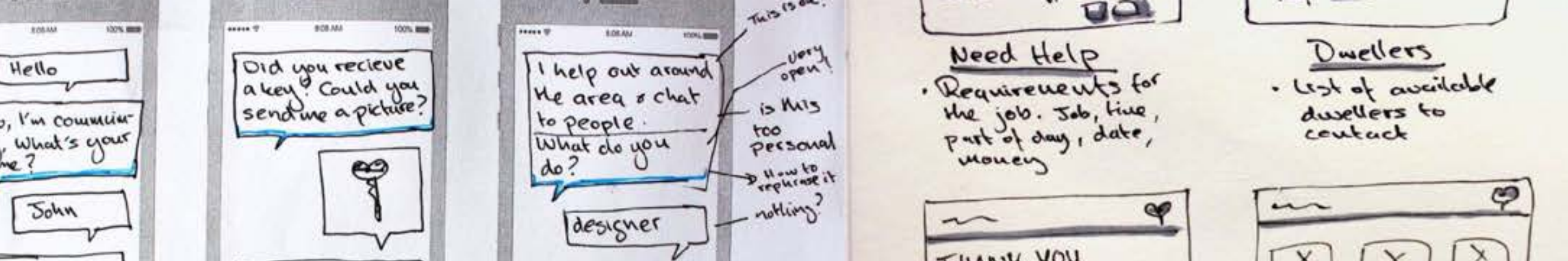
- How has your idea evolved during the project?
- How does your design solve your challenge?
- What does it look like?
- How does it work?
- What is the user experience like?



PRESENT - Solving the challenge

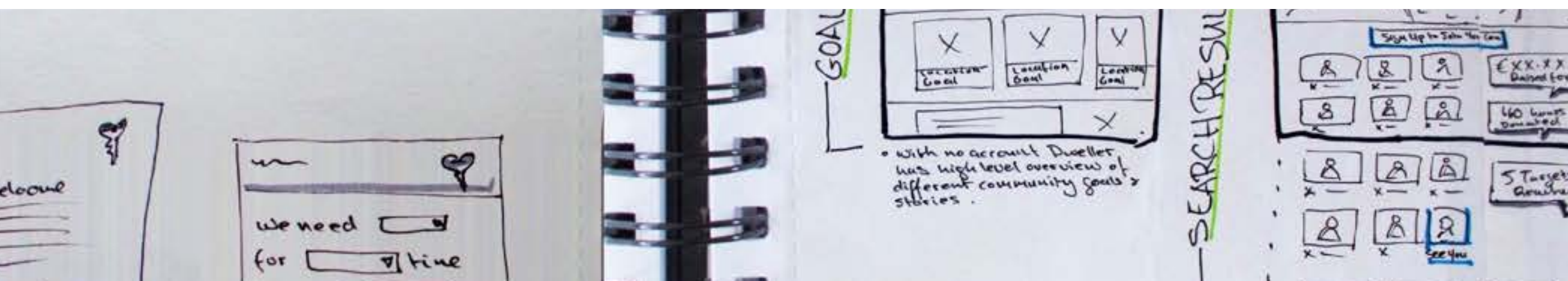
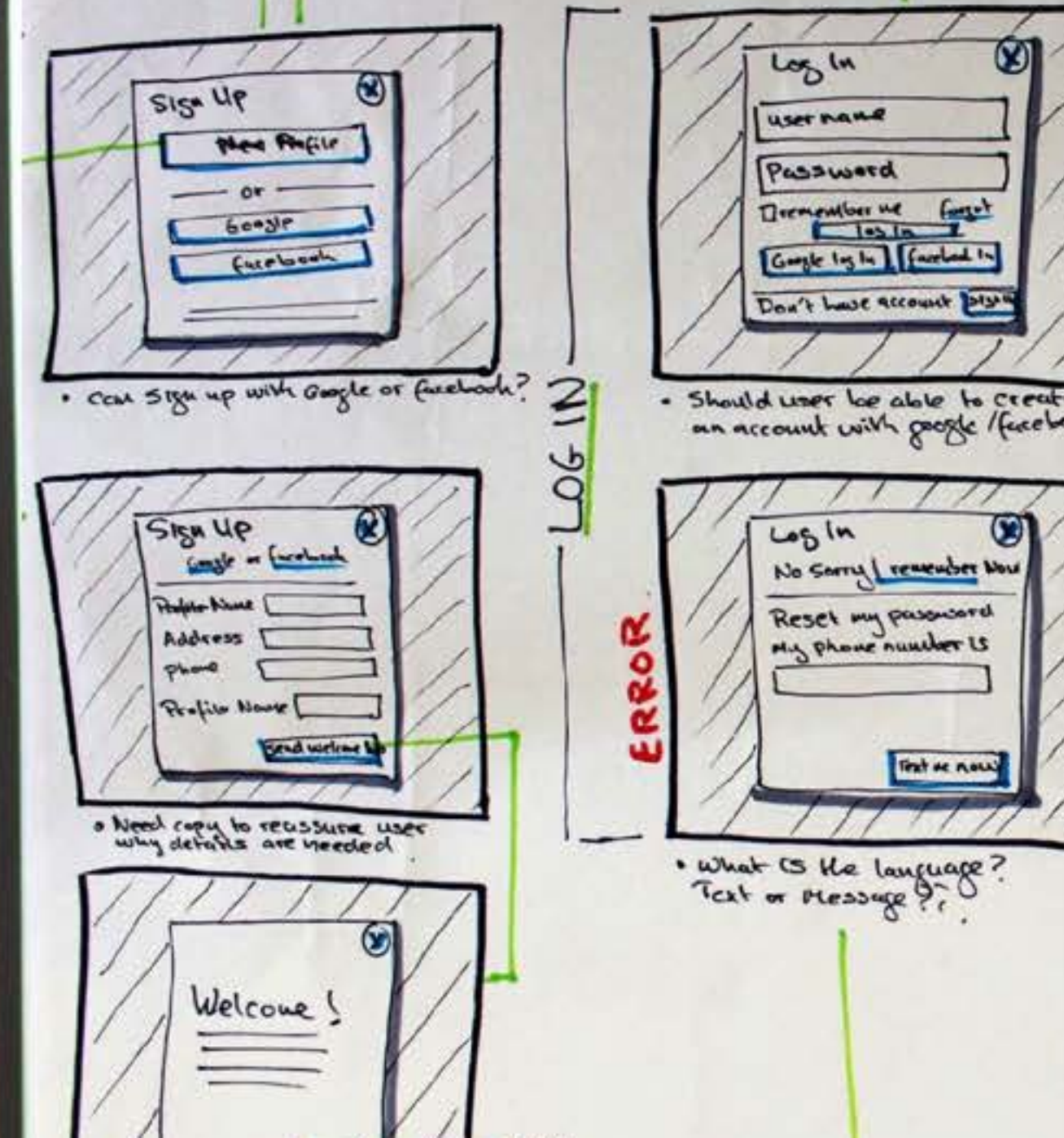
- Describe the design challenge
- Tell us how your design is going to help improve the current situation.
- Tell us who you are going to help.





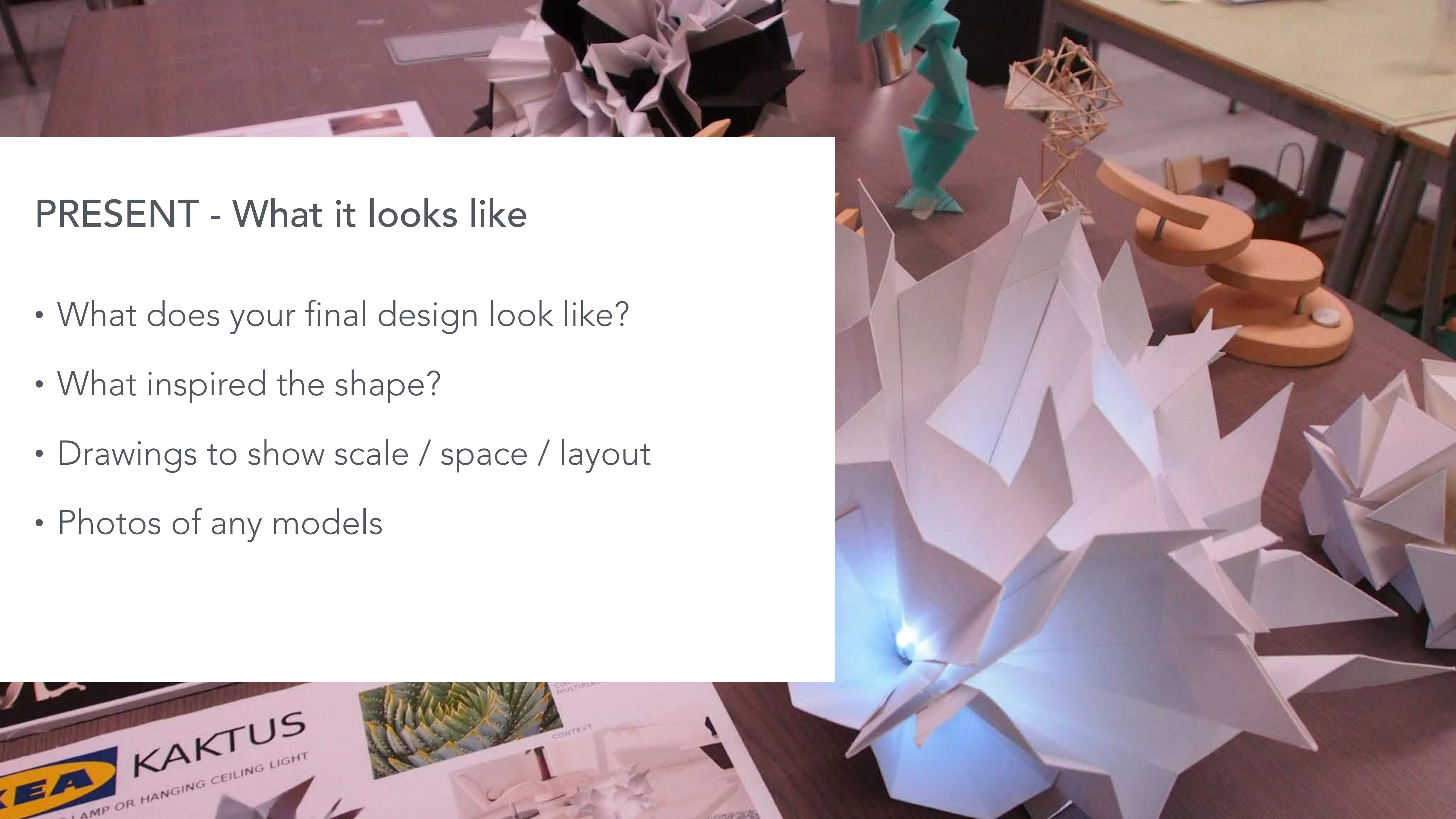
PRESENT - Evolution of an idea

- How did you arrive at your solution?
- How did your research inform the idea?
- Did you do any testing that helped you refine your idea?
- Models / user testing / material samples



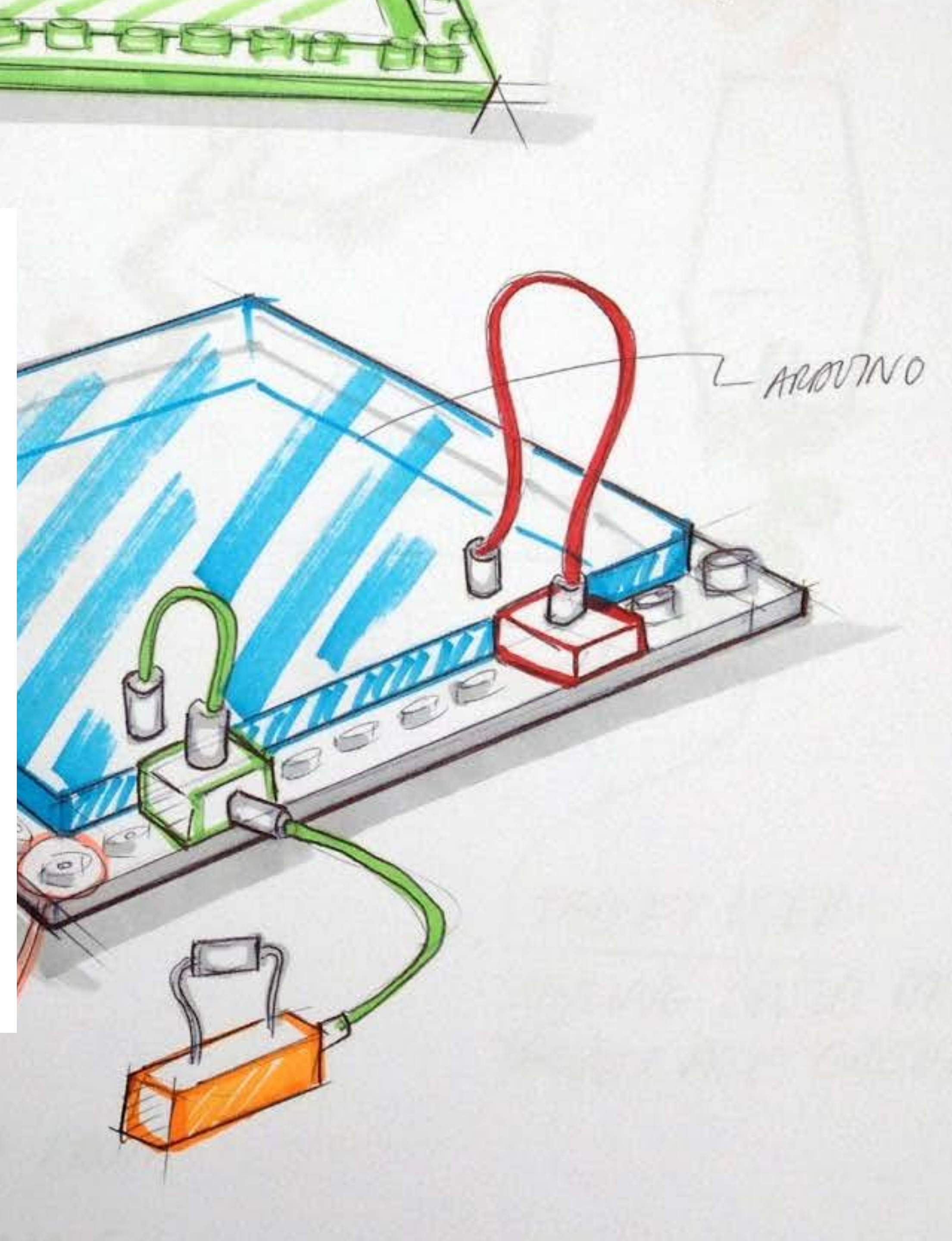
PRESENT - What it looks like

- What does your final design look like?
- What inspired the shape?
- Drawings to show scale / space / layout
- Photos of any models



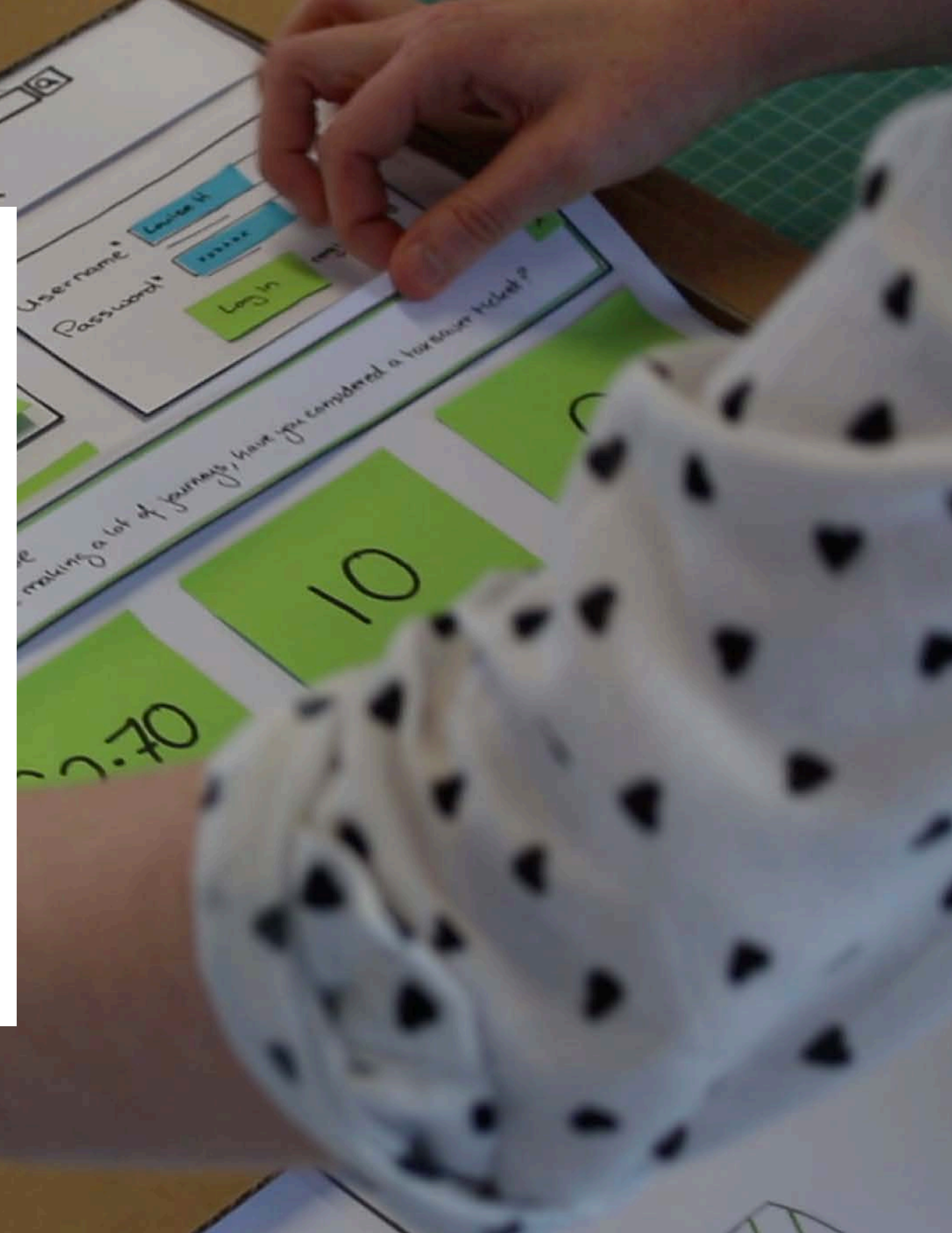
PRESENT - How it works

- Show us the detail!
- What is it made of?
- Are there any controls or mechanisms?
- Drawings, models, CAD, physical computing



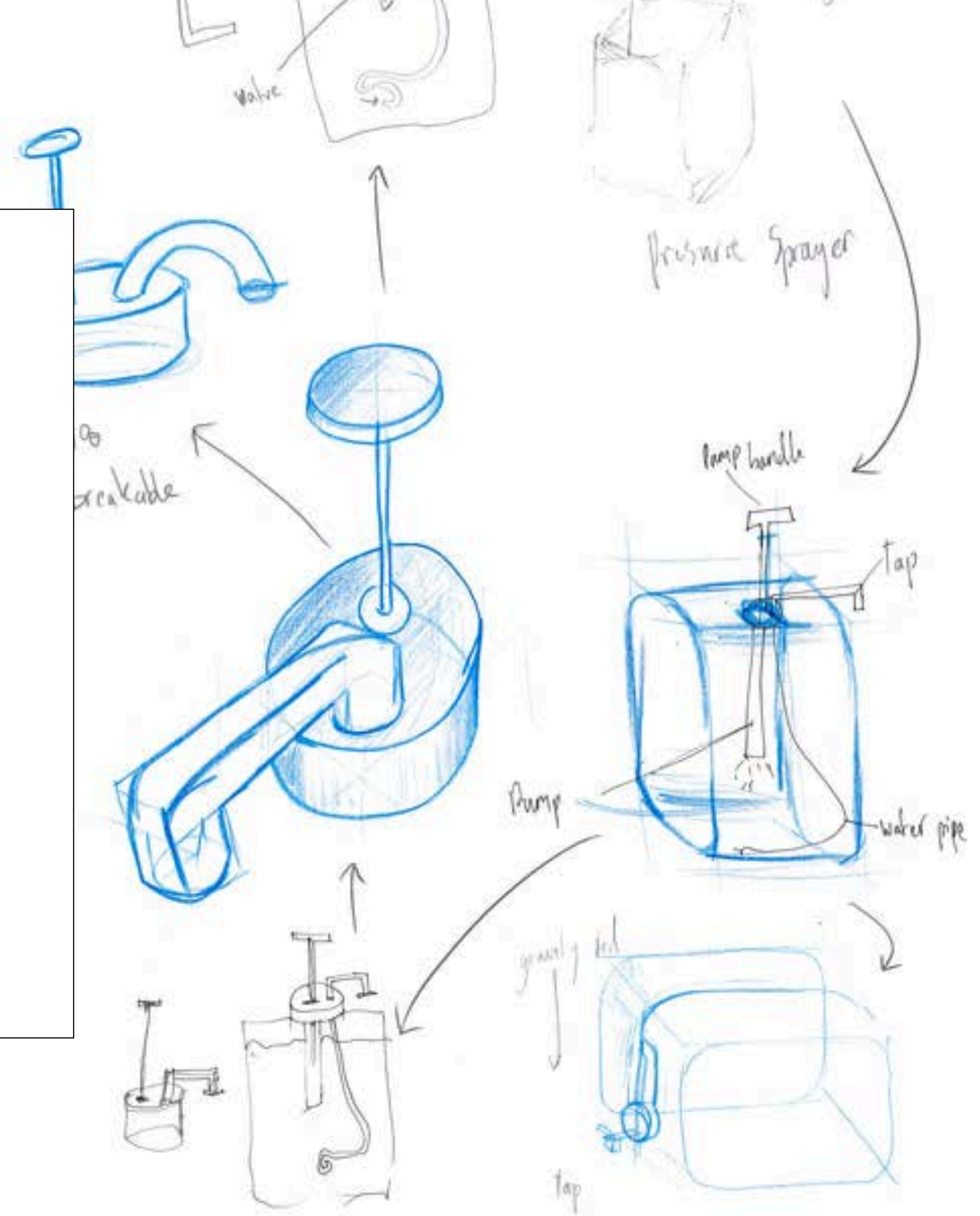
PRESENT - User experience

- Show us who will use your idea.
- How will someone interact with your idea?
- How will they pick up or operate the product?
- How will they engage with the space?
- What information will they see on screen?



Already have a design challenge?

- Have you made any models?
- Could your idea benefit from user feedback?
- Are there features that you have not communicated about your idea?
- Have you shown your design process?

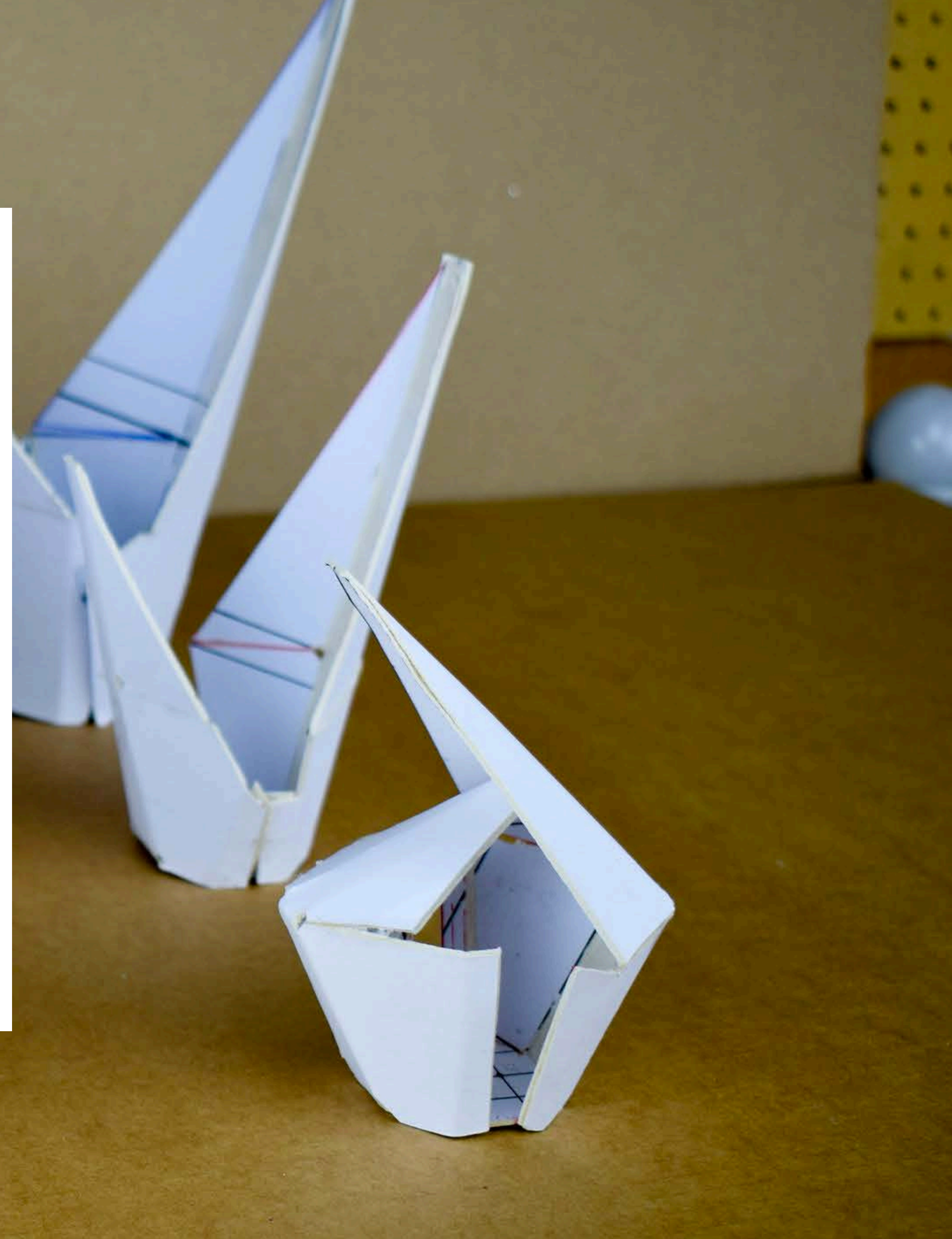


Working on a new design challenge?

- Identify the good / the bad / ...

Working on a new design challenge?

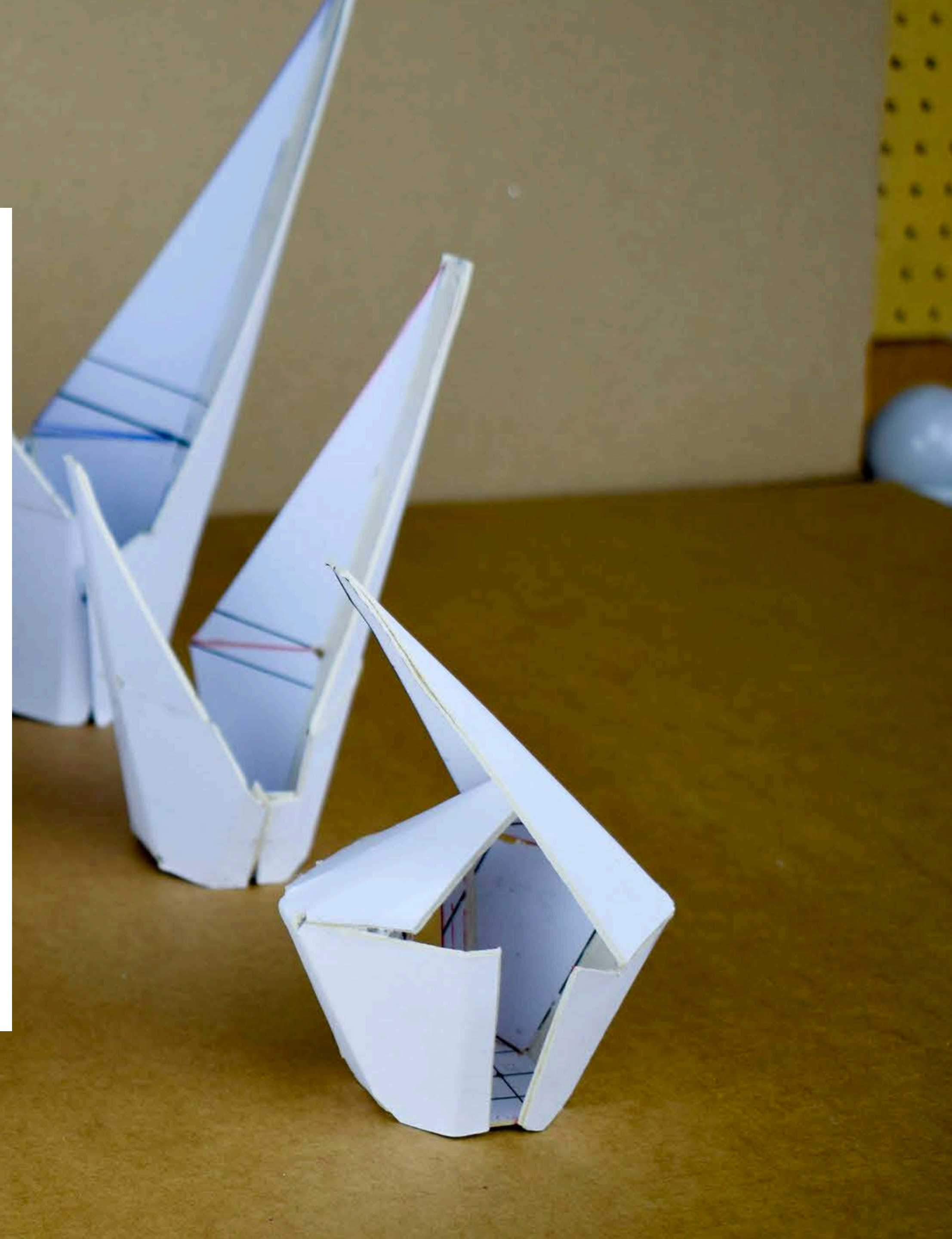
- Build a model to test your idea
- Use the materials to hand
- Get feedback from someone at the table
- Quick, simple and effective



Be Brave.

Be Curious.

Be Bold.



Any Questions?

On anything!

hanrattym@staff.ncad.ie

