



## Today's session

- You will be set a design challenge which you will develop a solution for using human-centred design
- We will guide you through the human-centred design process and principles
- You'll apply these learnings and apply them in real time
- It's going to be fast and hands-on!

It's going to be fast-paced

Today is about trying new things
Give it a go!

Please be present for yourselves and each other

Forgive us if we ask you to stop talking

**HAVE FUN** 



## **Learning Outcomes**

- General understanding of Design Thinking
- Learn basic HCD principles
- Gain understanding of the HCD process
- Centre the user/student experience
- Lead with empathy
- Creative thinking mindset





## Ways of being







- Less talking, more action
- Learn through doing
- Just get started

### Experimental mindset

- Being open-minded
- Not being in delivery mode, but focus on possibility
- Challenge traditional thinking



### Stretch zone

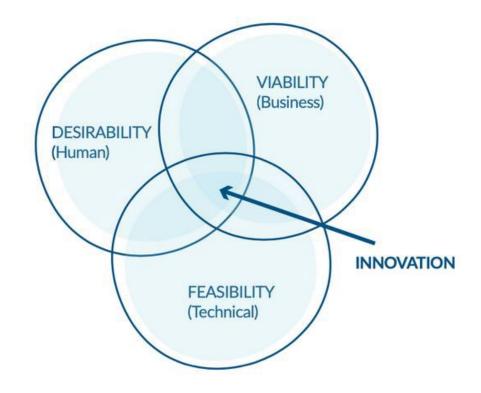
- Sitting in a place of possibility
- Challenging ourselves
- Asking you to rise to the challenge



## What is Design Thinking?

Design thinking brings together what is desirable from a human point of view with what is technologically feasible and economically viable.

It allows people who aren't trained as designers to use creative tools to address a wide range of challenges, through a deep understanding of human needs and experiences. It is an iterative process focused on creating better solutions to meet people's needs.

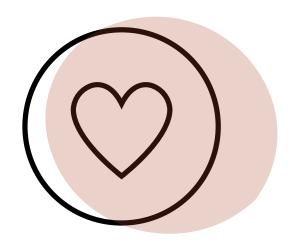




## What is Human-centred Design?

Human centred-design is a creative approach to problem solving that starts with the people you're designing for. At its core, it's about cultivating deep empathy with the people that use our services and spaces and developing solutions with them.

By gaining a deep understanding of their needs, hopes and aspirations we can create better services and spaces that will meet their needs.



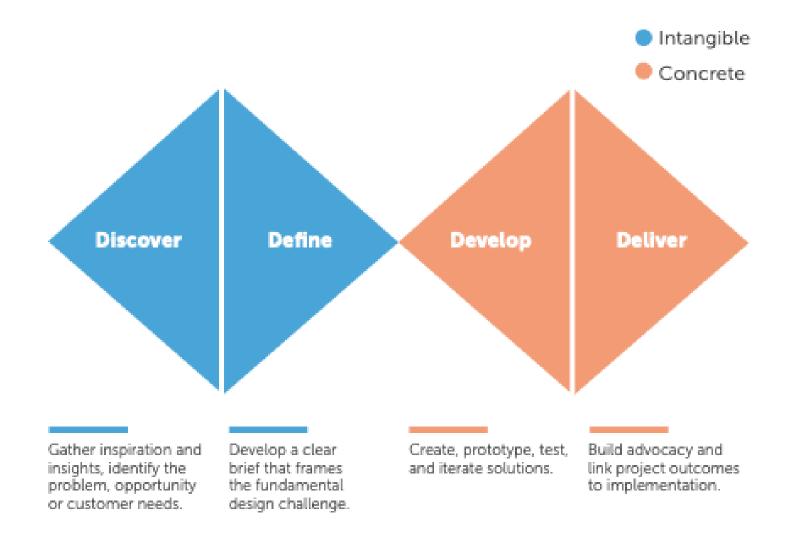


### What's the difference between the two?





### The Double Diamond

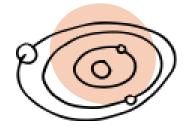




## Ways of working



Customers at the heart of everything



Systemic approach



Prototype and experiment



Collaborate



Keep iterating



### **Mindsets of HCD**



Generative
Generating ideas, and building on other people's ideas



Agency
Believing that you have the ability to make change



Empathic

Putting yourself in the shoes of others without judgement.



Open
Appreciating other people's perspectives, backgrounds, experience and skill sets



Experimental

Learn by doing. Trying, and making the process and tools work for you



Beginners
Challenge the status quo, not being led by solutions or your assumptions



## **Solution seduction**



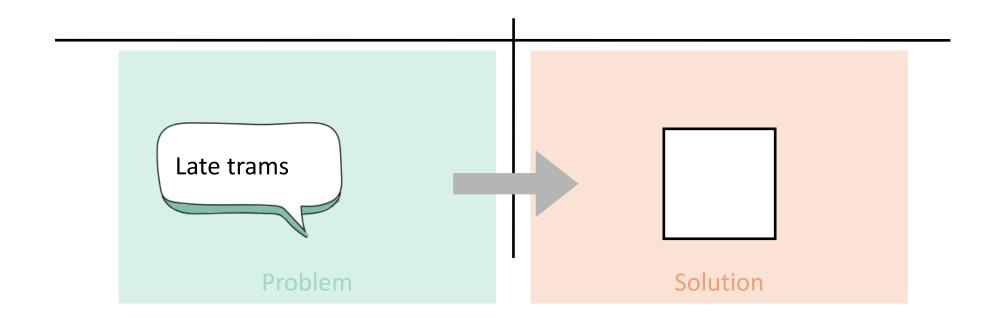


# **Ambiguity**



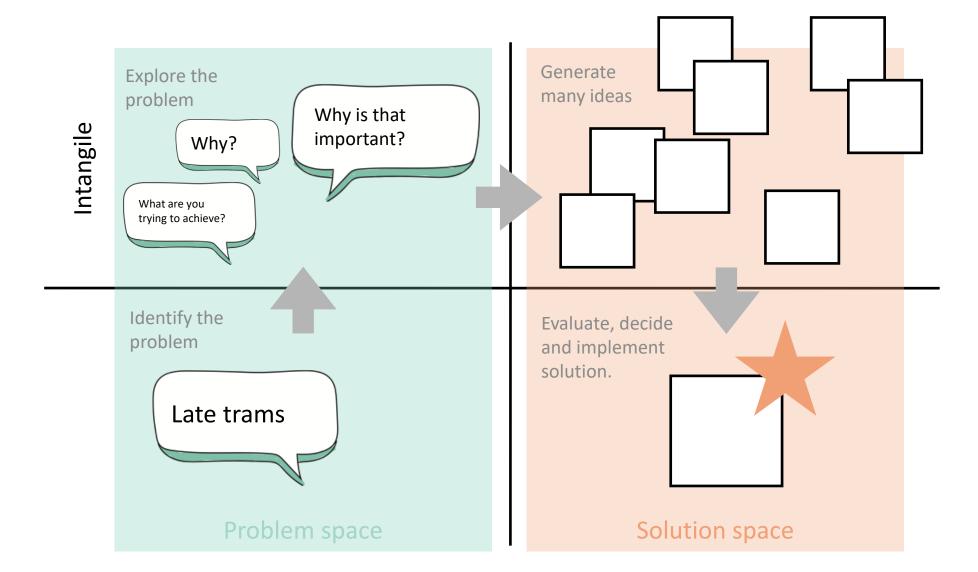


# **Examples of HCD**





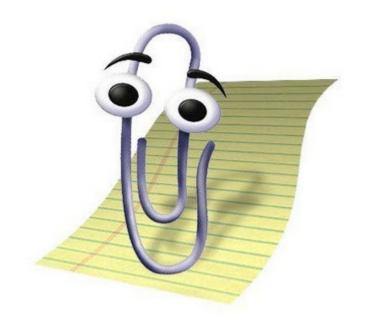
## **Examples of HCD**





## **Icebreaker**

Instructions: you have 2 minutes to think of 25 uses for paperclips

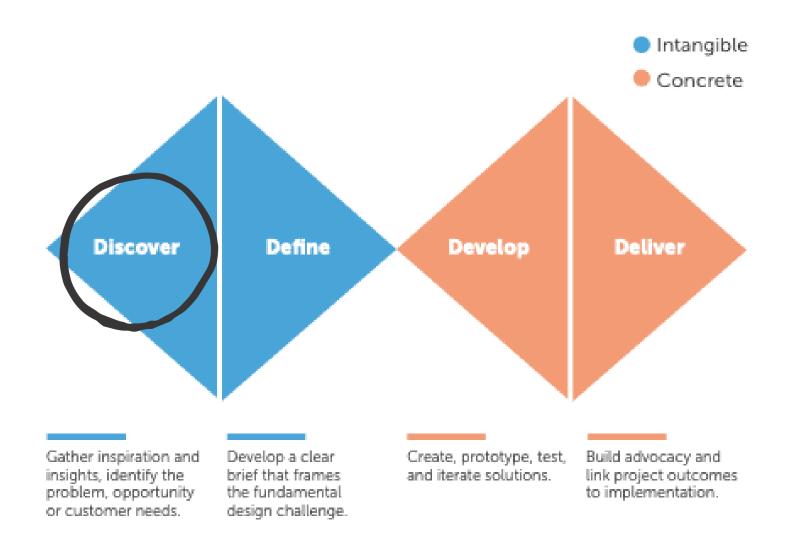


Design challenge

How might we improve the student experience in library spaces for your cohort?



### Where are we on the Double Diamond?





## **Problem Diagnosis**



#### **Build context**

What do we already know?

Desk research

Future trends



### **Assumptions**

What do we believe to be true? What do we perceive to be true? What is the highest risks?



### Problem space mapping

What is the problem?
What is the scope of the problem?
What do we think is the actual issue?



#### Stakeholders

Who are they? What influence do they have?



### **Blockers to user-centric mindsets**

Experience

When we rely too much on experience which can prevent seeing things anew.

Object focus

Focus on the thing, rather than the system.

Singular perspective

Believing that your perspective is the only one.

Holding back

Not being bold enough to push a new move, or speak up for what you believe in

Gaps in self & team awareness

Not being mindful and aware of the whole situation and our own behaviours.

Externalisation

Believing that the solution or problem is external to you.



## Activity: problem space & assumptions

#### Problem space (5 minutes)

- Discuss the challenge and decide, as a group, what you think the core issue is.
- Some prompts:
  - why is it a problem?
  - who are the people involved?
  - what is it not about?

#### Assumption storming (5 minutes)

- What are you own assumptions about the issue?
- Prompts: what do you believe to be true?



## What is Design Research?

Design research allows you to uncover your customers' needs, motivations and behaviours so that you can create optimal solutions.

This style of research is not about quantitative data or what people say they like. Rather, it's about engaging directly with our customers to observe them in their environments and to hear the stories they tell about themselves.

Our customers can't always imagine what they want or need, but their stories are strong indicators of their deeply held beliefs.





## Design Research: Primary & Secondary

### **Primary research**

(research conducted by you)

#### This type of data is collected through:

- Interviews with individuals or small groups
- Surveys
- Questionnaires
- Observations

### **Secondary research**

(research conducted by others)

#### This type of data is sourced through:

- Your own institutions data
- Government or NGO reports
- Statistics
- Academic articles or books (look for first person accounts in the data)



## **Design Research Methods**

Longitudinal

Diary or observational studies that observe behaviours/interventions over time

Ethnographic study

Total immersion in lifestyle & environment of your customers

Shadowing

Shadowing users through tasks/routines to gain deeper understanding

Diary study

Participants document their own observations of a subject

1:1 Interviews

Deep and focused interviews with individuals

Discovery workshops

Conducting research in large groups using activities & discussions

Guerrilla research

Stopping people for ad-hoc questions 23

Observational fieldwork

Observing customers in their environment



### **Customer recruitment & interviews**



#### **Customer Recruitment**

- Who are your customers? Are they students, academics, professional staff or subsets of these? E.g. graduate students, first year students
- How many do you need to interview?



### **Interviews and workshops**

- Develop powerful research questions and workshops
- In interviews: need to listen & observe, ask open questions, use prompts/tools, know (and check!) your biases, and follow their lead



## **Journey Mapping**

Journey mapping is a great tool for getting a single view of a customer's end to end experience of a service or product.

### It can help you:

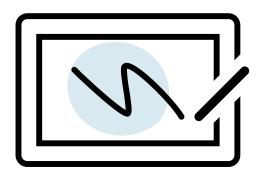
- understand the sequence of actions for different users
- gauge consistency of experience across different users
- identify problems in their user experience
- Identify opportunities for change or impact within the user journey





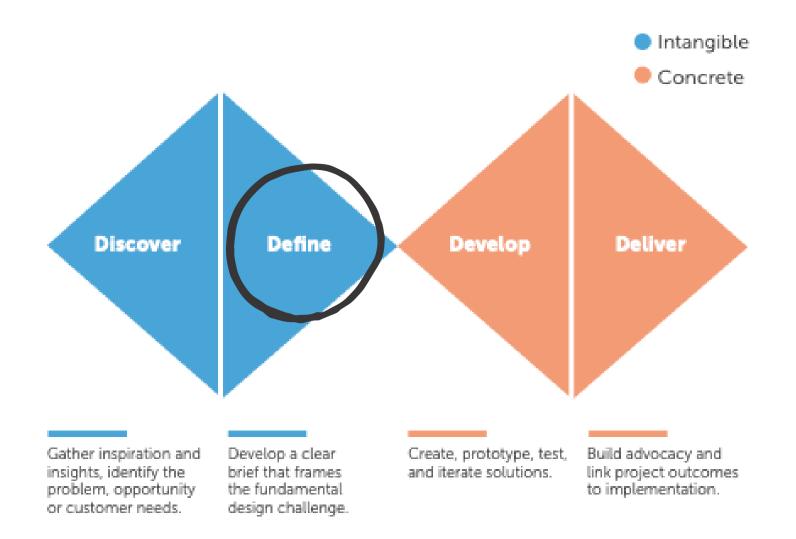
## Well done! You've completed your research

In your packs on your tables is the research you've completed on your particular student cohort. You'll get to look at them soon!





### Where are we on the Double Diamond?





## **Sense-making**

Sense-making or synthesis is the process of looking for patterns, themes and deeper meaning in your research data

#### There are 3 main phases:

- 1. Clustering like-data points
- 2. Theme-ing
- 3. Insights (asking the 'why')

Insights are the goal of synthesising your research. They are the 'so what' of your research and is what sits beneath your data

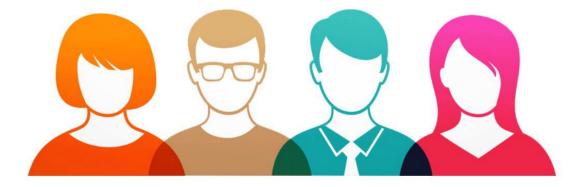




## **Activity: Create a persona**

- Personas add the human touch to what would largely remain cold facts in your research
- They represent the people who might use your service or product. Creating personas will help you understand your users' needs, experiences, behaviours and goals. It can help you recognize that different people have different needs and expectations.
- Personas make the design task less complex, as they help focus your ideation processes, and help you to create a good user experience for your target user group.

You now have 15 minutes to create a persona based on your primary and secondary research





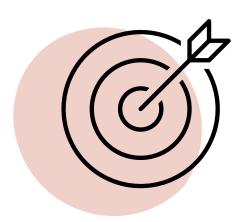
## **Activity: Refine the problem**

Now that you have completed your research and synthesised it. You'll need to revisit the problem!

### Ask yourself:

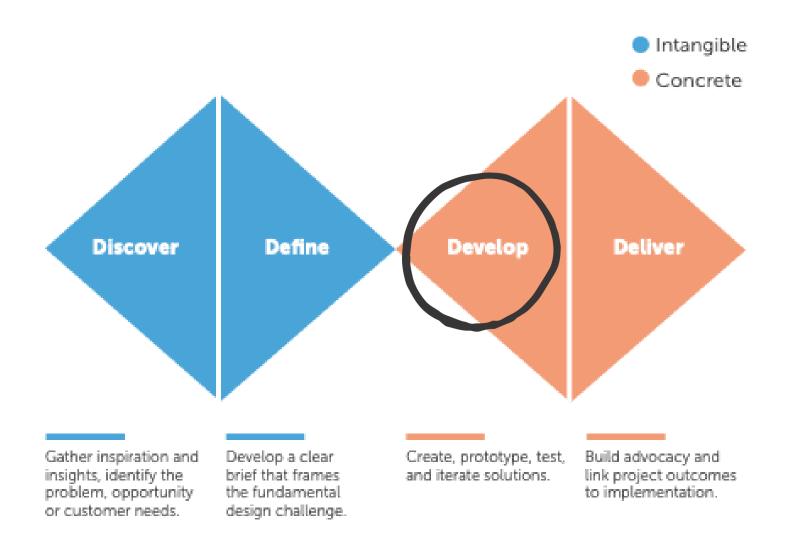
- Was my initial understanding of it correct?
- Have we uncovered a specific area or aspect we can focus on?
- Do users have other needs that aren't being met?

Activity: refine what the problem is you'll be developing solutions for in 8 minutes



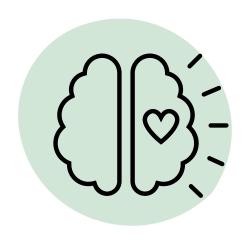


### Where are we on the Double Diamond?





### **Ideation & Idea Generation**



Ideation is about exploring as many different possible solutions to your challenge or problem. We start off by focusing on quantity over quality and can refine as we go along.

You can start off with solo ideation, then share your ideas with your group, then iterate and refine, landing on an idea to take forward to prototyping



## **Activity: Idea generation**

#### Time to ideate!

Aim for as many ideas as possible within 2 minutes

**Adapt** Is there something we already offer that could be refined?

**Combine** Can you combine two of your ideas to create something different?

**Magnify** Can you make something bigger or stronger? Can you exaggerate one aspect?

Minimise Can you omit an aspect of your idea? Make something understated?

**Reverse** Turn your idea backwards, upside down or reverse roles?

Remember you are designing for your person within an environment. Consider senses such as **smell, touch, taste, hearing, sight**. Does this change any of your ideas?

Share your ideas and begin voting on a single solution with your group.



## **Prototyping & prototype testing**

Prototype is a solution in a tangible form that you create in order to learn from your users. It's where you can leave your assumptions and ideas behind and DO.

It's creative, fast and challenging for some and fun for others!

It's what you will take to your users to test – testing your prototype will help you understand your users more deeply and identify how your solution will need to be tweaked. It's an iterative process so you might need to test and refine a few times!



## What is a prototype & why do it?





- 1. Test customer behaviours
- 3. Learn what the most important aspects of your idea are

2. De-risk solutions



Test, share, and socialise your idea inside your organisation



## Some examples of prototyping

**Physical Objects** 



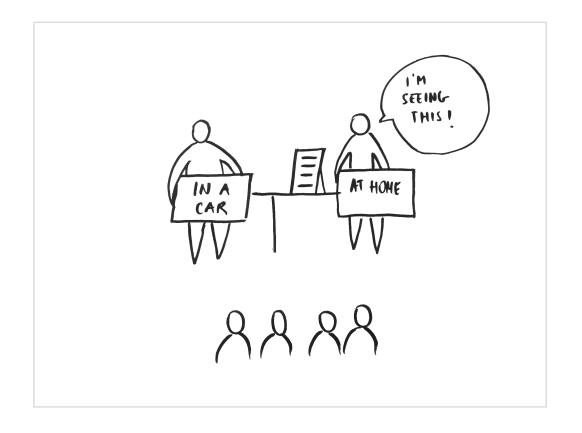
### Paper prototyping





## Some examples of prototyping

#### **Service Simulation**



### Storyboards





## **Activity: Build your prototype**

As a team, choose a prototype that would fit your solution and build it!

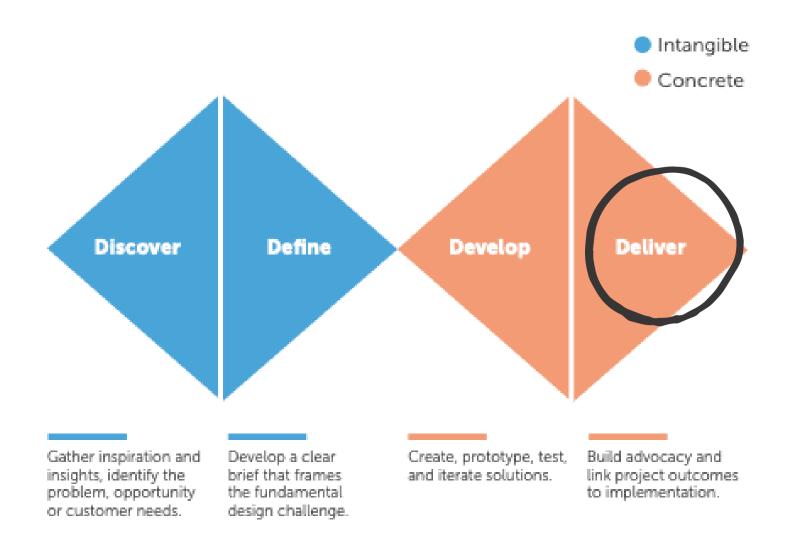
Quick and dirty is the key here. It doesn't need to be perfect.

It could be a service simulation, paper prototype, a storyboard





### Where are we in the Double Diamond?





# Present your group idea!

Groups will have 2 minutes to present their challenge and solution



## **Reflections?**



# Thank you

