WELCOME

Concept Development Workshop





HOUSE KEEPING

in todays session

- When signing into the webinars, please use your team name and your first name only e.g. ←Team Name_First Name→ or ←TC_Team Name_First Name→
- Please respect the <u>Code of Conduct</u> throughout all the webinars
- Only click on links which are shared by Panellists in the chat
- Get involved! We want to hear from you, so please make use the interactive features of Zoom:
 - Q&A please put any questions here
 - Chat this can used for more general discussion
 - Raise hand opportunity for attendees to be unmuted and speak
 - Polls these will pop up at different stages during the webinars and are anonymous
- Webinars and the slides will be available to watch after this week:
 https://longitudeexplorer.challenges.org/im-a-longitude-explorer-finalist/
- There will be three multiple choice evaluation questions at the end of the webinar which we ask all attendees to please answer



WELCOME

Concept Development Workshop





ABOUT ME & WHATI DO

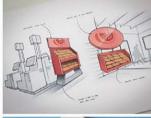
Founder & Designer at Little Mammoth

mammoth

Ideas designed for real life. Making a real difference.

As a design studio, we think we have the best job in the world: we bring ideas to life for our clients. Ideas designed to improve experiences, products and environments. Ideas designed to have a positive impact on the world around us.

































WHAT ARE WE HERE TO DO

in todays session

- LEARN ABOUT NPD
- DEVELOP YOUR IDEAS
- COMPLETE YOUR WORKBOOK







WHAT ARE YOU GOING TO NEED

during the session



WHAT ARE WE GOING TO COVER

in todays session

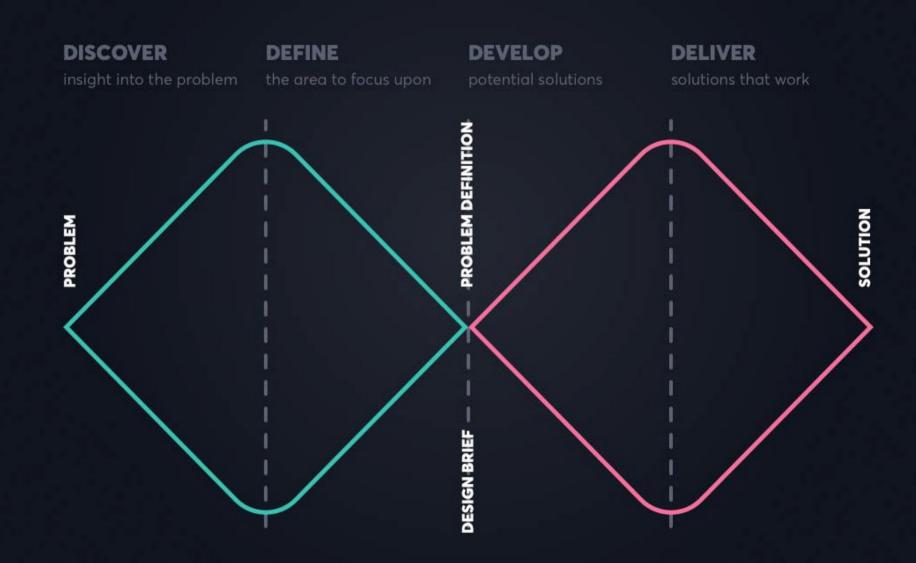
- CONCEPT DEVELOPMENT PROCESS
- EXTERNAL TEAM RESOURCE
- USER JOURNEY MAPPING
- CREATING A DESIGN BRIEF
- IDEATION CREATING IDEAS
- CONCEPT VISUALISATION
- QUESTIONS & ANSWERS



HOW DO WE DEVELOP IDEAS

the new product development process

Double Diamond





DISCOVER

what do we do here

LEARN

TALK TO PEOPLE

ASK QUESTIONS

READ ARTICLES

SEARCH THE INTERNET

OBSERVE PEOPLE





DISCOVER

who can help

RESEARCHER

FIND THE RIGHT PEOPLE
CONDUCT USER STUDIES
CONECT WITH USERS
UNBIASED QUESTIONS
COLLATE DATA

DEFINE

what do we do here

MAKE SENSE

ANALYSE RESEARCH
IDENTIFY THEMES
EXPLORE OPPURTNUITIES
WRITE A DESIGN BRIEF





DEFINE

who can help

STRATEGIST

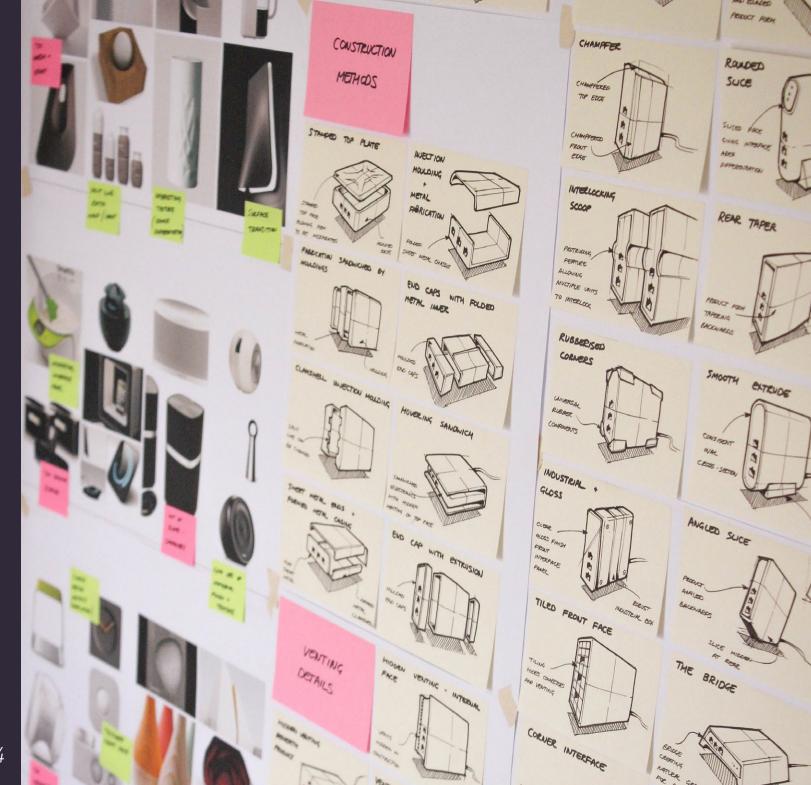
MAKE SENSE OF RESEARCH
CONDUCT WORKSHOPS
MANAGE THE PROCESS
LOOK AT BIGGER PICTURE

DEVELOP

what do we do here

CREATE

CREATE LOTS OF IDEAS SKETCH, DRAW & PLAN EVALUATE IDEAS







DEVELOP

who can help

DESIGNER

SOLVE DESIGN PROBLEM
COMMUNICATE IDEAS

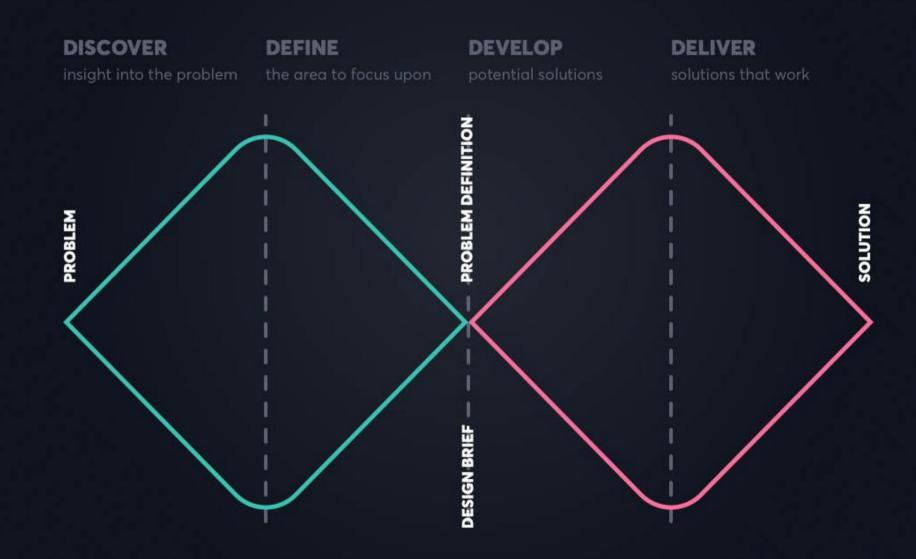
INDUSTRIAL DESIGNER
SERVICE DESIGNER
UX DESIGNER
DESIGN ENGINEER

mammoth

WHERE ARE WE IN THE PROCESS

the discover phase

Double Diamond



FRAMING THE DESIGN OBJECTIVE

the discover phase

IDENTIFY PROBLEM
COLLATE INSIGHTS
IDENTIFY USERS
SOLID START POINT
ALIGN THE TEAM





FRAMING THE DESIGN OBJECTIVE

Using the work you have already done complete this worksheet to better understand the problem you are trying to solve and re-familiarise with sedfur project. Complete as part of your team.

EXAMPLE WORKSHEET 1

WORKSHOP 1 - CONCEPT DEVELOPMENT

Pre Workshop Prep - Monday 4th May 2020

Print one worksheet per person

1. WHAT IS THE PROBLEM YOU HAVE IDENTIFIED?

(This is the over arching challenge you have observed from your research)

THE OCEAN IS FILLED WITH AN EXCESS OF PLASTIC POLLUTION HARMING THE ENVIRONENT

2. WHAT KEY RESEARCH IS THIS BASED ON?

(State 3 insights that have informed your problem)

- GARBAGE PATCHES IN MULTIPLE SITES IN OUR OCEANS
- G40,000 TOMVES OF METS DISCARDED IN OCEAN EVERYYEAR
- 95% OF PLASTIC SUBMERGED

3. WHO ARE THE KEY USERS/STAKEHOLDERS?

(People involved in using, installing or maintaining your product/service)

- ENVIRONMENTAL ARGANISATIONS
- GOVERNMENT ORGANISATIONS
- COMMUNITY GROUP
- FISHERMEN
- MARINE WILDLIFE

4. THE DESIGN OBJECTIVE

(We are looking for a robust yet considered statement that builds on the information to the left to help frame your project and give you scope to explore exciting innovative solutions. See examples in the Workshop pack)

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ALLON	WOR	LOWI	DE	CO	USER	VATIAU
REMOT	ELY	IN	DIF	FER	ENT	
OCEAN	En	VIRO	ME	V75.		



mammoth

MAPPING THE USER JOURNEY

the discover phase

RESEARCH TOOL

UNDERSTAND THE TASK

GET INTO USERS SHOES

LOOK AT ENTIRE JOURNEY

GREAT FOR SERVICES





USER JOURNEY MAPPING

WORKSHEET 2

First choose a User and a Task that directly relates to your design problem and objective. Break down every small step of the journey that user goes on when completing the task. Role play as a group to understand the problem on a micro level.

WORKSHOP 1 - CONCEPT DEVELOPMENT

Workshop Task - Monday 4th May 2020

Print one worksheet per person

mammoth

1. CHOOSE A USER / STAKEHOLDER	ACTION	ACTION	ACTION	ACTION	ACTION	ACTION
2. CHOOSE A TASK TO MAP	_					
3. THINGS TO CONSIDER - THE ENVIRONMENT OF USE - THE USERS FEELINGS - ANY CHALLENGES - ANY QUESTIONS						
(Plot on the chart to the right the experience of the user at each specific action. Mark on the scale and then draw a line between each mark. This will show areas of the experience that need improving.)	- NEGATIVE					

USER JOURNEY MAPPING

First choose a User and a Task that directly relates to your design problem and objective. Break down every small step of the journey that user goes on when completing the task. Role play as a group to understand the problem on a micro level.

EXAMPLE WORKSHEET 2

WORKSHOP 1 - CONCEPT DEVELOPMENT

Workshop Task - Monday 4th May 2020

Print one worksheet per person

1. CHOOSE A USER / S	TAKEHOLDER
----------------------	------------

OCEAN CLEAN UP

2. CHOOSE A TASK TO MAP

REMOVING WASTE

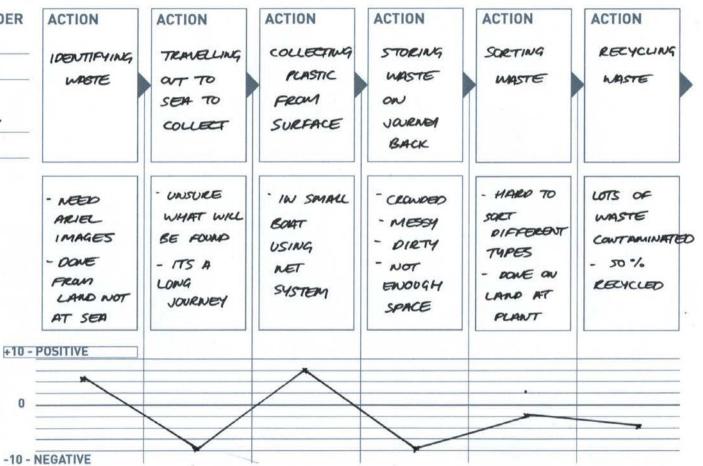
3. THINGS TO CONSIDER

- THE ENVIRONMENT OF USE
- THE USERS FEELINGS
- ANY CHALLENGES
- ANY QUESTIONS

4. EXPERIENCE MAPPING

(Plot on the chart to the right the experience of the user at each specific action. Mark on the scale and then draw a line between each mark. This will show areas of the experience that need improving.)







CREATING A DESIGN BRIEF

the define phase

- DISCOVER PHASE COMPLETED
- CREATE DESIGN CONSTRAINTS
- DETAILED PLAN OF ACTION
- CLEAR AND CONCISE
- ROOM FOR EXPLORATION
- REFERENCE THROUGHOUT PROJECT





CREATING A DESIGN BRIEF

WORKSHEET 3

Complete the worksheet to create a robust design brief. We want to be rigorous here to set some constraints to design within. You will use this document to evaluate the suitability of your design concepts, so be clear and detailed. Complete as a group.

WORKSHOP 1 - CONCEPT DEVELOPMENT

Post Workshop Task - Monday 4th May 2020

Print one worksheet per person

1. THE DESIGN OBJECTIVE (Copy and condense from Worksheet 1)	4. CONSIDERATIONS & CONSTRAINTS (What do you need to consider during development?)
2. USERS & STAKEHOLDERS (List out everyone that uses, installs and maintains your product / service)	5. ASSUMPTIONS MADE (Create your own constraints where you don't have the evidence as yet)
3. FEATURES & FUNCTIONAL REQUIREMENTS (What does your product / service need to do? Be specific)	6. SAFETY REQUIREMENTS (Consider the safety and privacy of your users)
	7. COST ESTIMATE (Approximate cost estimate when purchasing your product / service)





IDEATION - CREATING IDEAS

the develop phase

THE EXCITING STAGE
HIGH ENERGY & FAST PACE
EXPLORE LOTS OF IDEAS
LET IMAGINATION FLOW
NO RIGHT OR WRONG
COLLABORATIVE PROCESS





EXPLORING IDEAS

WORKSHEET 4

Place 4 post it notes on the boxes on the left hand side. Use the time given to sketch a different idea/solution to your problem on each. These ideas can be big or small. Select your favourite idea and share with your group.

WORKSHOP 1 - CONCEPT DEVELOPMENT

Workshop Task - Monday 4th May 2020

Print one worksheet per person

PLACE POST IT NOTE HERE PLACE POST IT NOTE HERE

> PLACE YOUR FAVOURITE IDEA HERE

PLACE POST IT NOTE HERE PLACE POST IT NOTE HERE

WINNER





EXPLORING IDEAS Place 4 post it notes on the boxes on the slutten a different idea (relution to view).

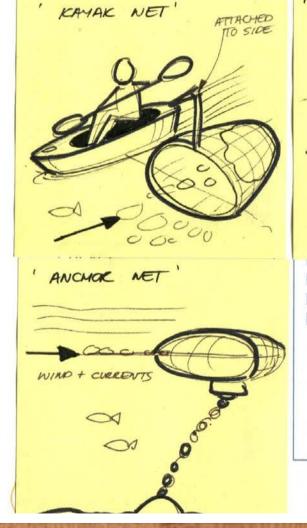
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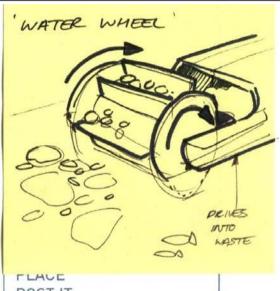
EXAMPLE WORKSHEET 4

WORKSHOP 1 - CONCEPT DEVELOPMENT

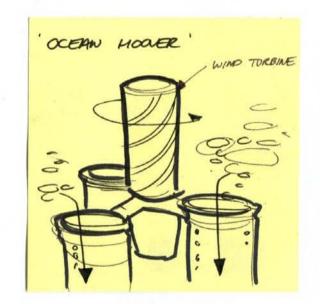
Workshop Task - Monday 4th May 2020

Print one worksheet ner nerson











CAPTURING A CONCEPT IDEA

the develop phase

IDEAS ARE THE SPARK
CONCEPTS ARE RESOLVED
HOW IT WORKS
HOW IT LOOKS
HOWS ITS PRODUCED
HOW PEOPLE USE IT







CAPTURING CONCEPTS

WORKSHEET 5

Use this worksheet to transform your post-it note ideas into robust concepts. Create 3 concepts individually and share with your team and score the concept as a group, selecting the highest ranking. Please have your favourite concept selected before Workshop 4 on Thursday.

WORKSHOP 1 - CONCEPT DEVELOPMENT

Post Workshop Task - Monday 4th May 2020

Print three worksheets per person

CONCEPT	TITLE (g	ive it a fu	n name)						CONCEP	T ILLUST	RATION (d	draw a imago	e of your ic	lea)	
00110555	PECODI	DTION						_							
CONCEPT	DESCRI	PIIUN	(give a lit	tle bit mor	e detail)										
GROUP S	CORING (circle who	ere your t	eam agree	es)										
1 2	3	4	5	6	7	8	9	10							





CONCEPT TITLE (give it a fun name) OCEAN LIDOUER'

CAPTURING CONCEPTS

EXAMPLE WORKSHEET 5

Use this worksheet to transform your post-it note ideas into robust concepts. Create 3 concepts individually and share with your team and score the concept as a group, selecting the highest ranking. Please have your favourite concept selected before Workshop 4 on Thursday.

WORKSHOP 1 - CONCEPT DEVELOPMENT Post Workshop Task - Monday 4th May 2020

Print three worksheets per person

GARBAGE PATTCH EXTRACTION RIG

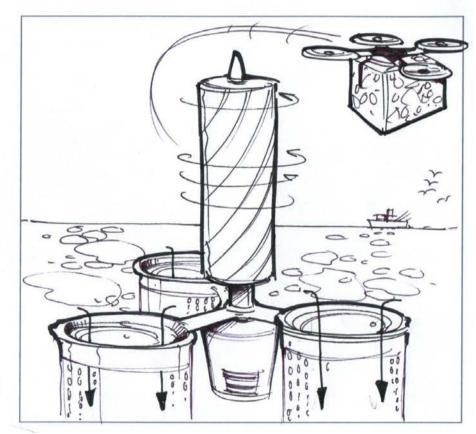
CONCEPT DESCRIPTION (give a little bit more detail)

REMOTE FLOATING RIG THAT SELF POWERED. USING WIND + SOLAR ENEGY SOCTS MARINE WASTE BALING INTO AIRLIFTED USING DRONE TECHNOLOGY

GROUP SCORING (circle where your team agrees)



CONCEPT ILLUSTRATION (draw a image of your idea)









HOW TO VISUALISE YOUR CONCEPTS

the develop phase

CLEAR COMMUNICATION OF AN IDEA MANY TOOLS AVAILABLE

- SKETCH RENDERS
- STORYBOARDS
- CAD MODELS & CGI RENDERING
- UX WORKFLOWS

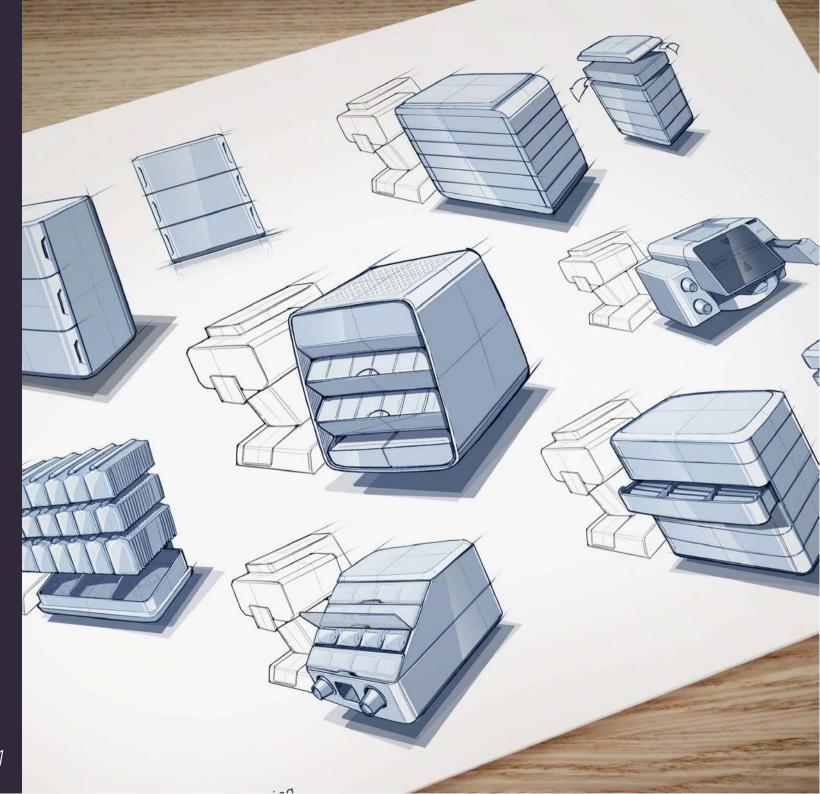
CHOOSE WHAT IS APPROPRIATE



SKETCH RENDER

the develop phase

QUICK & LOOSE OUTPUT
ESSENCE OF IDEA
TRADITIONAL & DIGITAL
FORM, SCALE & AESTHETIC
BW OR FULL COLOUR
GREAT FOR PRODUCT





STORYBOARD

the develop phase

VISUAL STORYTELLING
MAP OUT USER EXPERIENCE
HOW A CONCEPT WORKS
PHOTOS OR ILLUSTRATIONS
GREAT FOR SERVICES



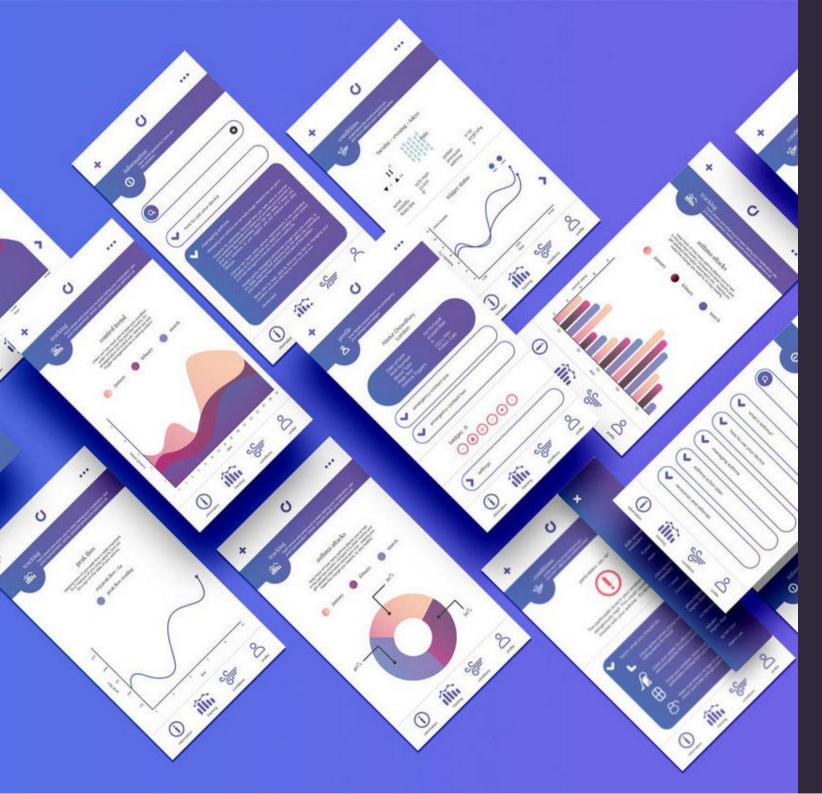
CAD & CGI RENDERING

the develop phase

DETAILED DEVELOPMENT
UNDERSTAND 3D FORM
ARRANAGING COMPONENTS
ACCURATE PROPORTIONS
PHOTOREALSTIC IMAGES







DIGITAL UX WORKFLOW

the develop phase

INTERFACE DESIGN

COMPLEX WEB & MOBILE UX

STEPS OF INTERACTION

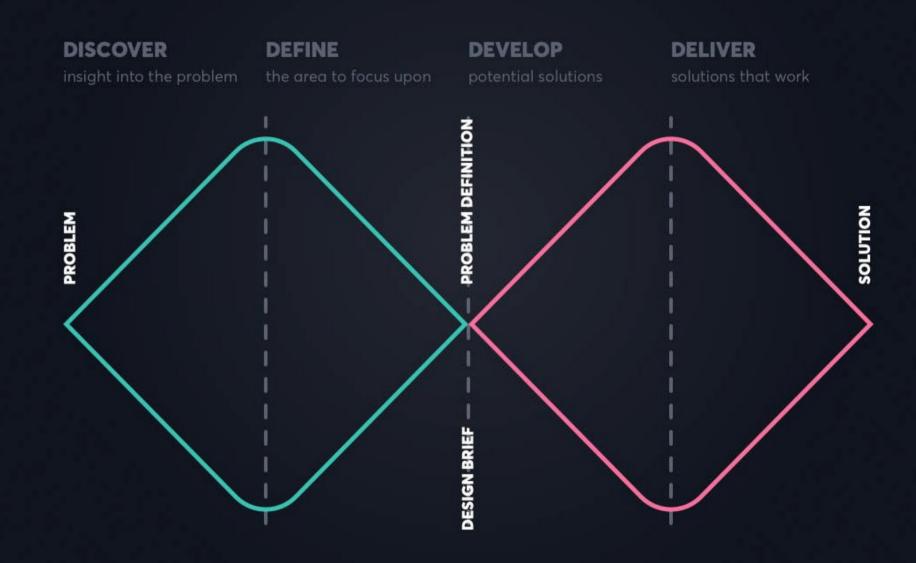
SCHEMATIC / FULL COLOUR



WHAT ARE WE GOING TO DO NEXT

the deliver phase

Double Diamond



WHAT TO DO AFTER THE SESSION

Homework tasks

COMPLETE WORKSHEET 3

-Creating a design brief

COMPLETE WORKSHEET 5

-Capturing a concept



QUESTION & ANSWERS

do you have anything you want to ask me



BEFORE YOU GO

To help us continue to improve these sessions, please answer these three short multiple choice polls which will pop up on your screen now.



THANK YOU

Concept Development Workshop



