

CREATING A DESIGN BRIEF

EXAMPLE 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)

TO DESIGN A SYSTEM THAT COLLECTS PLASTIC WASTE THAT NATURALLY GATHERS ON THE SURFACE OF THE OCEAN

2. USERS & STAKEHOLDERS

(List out everyone that uses, installs and maintains your product / service)

- ENVIRONMENT AGENCY
- LOCAL OCEAN CLEAN UP GROUP
- OPERATION PERSON
- WASTE RECYCLING OPERATIVE

3. FEATURES & FUNCTIONAL REQUIREMENTS

(What does your product / service need to do? Be specific)

- AUTONOMOUS SYSTEM
- COLLECTS MARINE WASTE
- FILTERS MARINE WASTE
- SORTS + BALES WASTE
- REMOTE NAVIGATION

4. CONSIDERATIONS & CONSTRAINTS

(What do you need to consider during development?)

- ENERGY + POWER SOURCES
- OCEAN SAFETY + VISIBILITY
- UNABLE COLLECT PARTICLES UNDER SURFACE

5. ASSUMPTIONS MADE

(Create your own constraints where you don't have the evidence as yet)

- OCEAN CURRENTS WONT CHANGE
- PLASTIC WILL CONTINUE TO BE USED AND DISCARDED

6. SAFETY REQUIREMENTS

(Consider the safety and privacy of your users)

- WASTE CONTAMINATION
- MARINE WILDLIFE SAFETY
- FILTRATION SYSTEM

7. COST ESTIMATE

(Approximate cost estimate when purchasing your product / service)

£100,000 +