

# OCEANBOUND

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An illustration of an underwater scene. The background is a gradient of blue. There are several white circles of varying sizes scattered throughout. In the foreground, there are dark blue silhouettes of coral reefs and a hand reaching up from the bottom. A plastic bottle is also visible near the bottom. In the middle ground, there are several fish, some in white and some in dark blue. A white glove is floating in the upper left, and a white plastic bag is floating in the upper right. The word 'PROBLEM' is written in large, white, bold letters in the center.

# PROBLEM

- Lots of plastic in the ocean
- Ruining the life in the sea
  - Microplastic in fish
- Leads to us eating plastic

The background is a deep blue gradient representing an underwater environment. It features several white circular bubbles of varying sizes scattered throughout. Silhouettes of various fish are swimming in different directions. At the bottom, there are dark blue silhouettes of coral reefs and rocky seabeds. A white hand is shown in the upper left, and a white plastic glove is shown in the upper right. A white plastic bottle is visible near the bottom center, partially obscured by the seabed.

# Our solution

We will use the plastic waste taken from the ocean to make plastic filament that is used for sustainable 3d printing

# Our process

01

## Gather waste

Gather plastic waste from the ocean

02

## Sorting

We use near infrared technology to sort different types of plastic

03

## Breaking down

Breaking down the plastic in to meltable pieces

04

## Melting

Melting the plastic

05

## Extruding

Extruding the melted plastic in to printable filament

06

## Printing

The filament can be used to print nearly anything

# Operations

1. We collect our plastic
2. The trash is transported to French Guiana. There it will be made into filament.
3. Final products are shipped to USA, EU and Asia.

## Main expenses

1. R&D
2. Ships and nets
3. Machinery
4. Labour

## Why French Guiana?

- Part of the EU.
- Close to our primary market



# SOURCES AND FUNDING



## CAPITAL INVESTMENT

Companies that are looking to invest in greener energy



## EU FUNDS

EEEF etc.



## CHARITY

Ocean Cleanup etc.

# Production

01

## Sort

Sort out the different plastics using near-infrared technology

02

## Break down

Shred the plastics into smaller pieces for melting

03

## Melt

HDPE, LDPE at 160°C  
PP, PU at 200°C

04

## Mix

Mix pairs at 70:30 ratio  
HDPE, PP majority in  
respective pairs

05

## Extrude

Extrude the finished composite  
PE composite and PP-PU  
composite

06

## Other waste recycling

Unfiltered waste is  
shredded and pressed for  
other use



## Competition between companies

- PLA
  - Not heat resistant
  - Not suitable for outdoor use
- Idea have been used before
  - Fishnets
  - Successful but not popular

## Long goals

- To become profitable
- Future – sell CO2 quotas



An underwater scene with a blue background. The bottom is a dark blue silhouette of the ocean floor with coral and a plastic bottle. Various fish and white circles are scattered throughout the water. The text "THANK YOU FOR YOUR ATTENTION!" is centered in a large, white, bubbly font. Below it, "QUESTIONS?" is written in a smaller, white, sans-serif font.

**THANK YOU FOR  
YOUR  
ATTENTION!**

QUESTIONS?