# Virtual Reality Project: Menace of the Deep

Group 1
Deep Blue

## Description

Make a Virtual Reality (VR) immersive experience

- Play as a fish
- Explore a coral reef
- View the effects of ocean pollution





### Goals

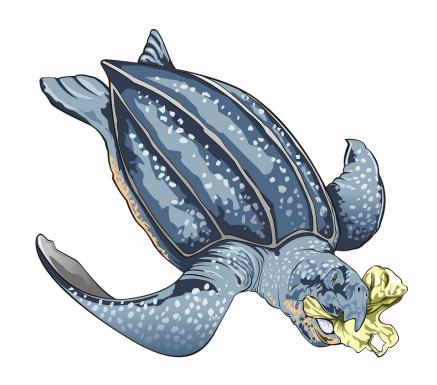
- Raise awareness about the severity of ocean pollution
- Encourage players to question their lifestyle habits
- Encourage players to handle their waste properly
- Empathy



## **Learning Outcomes**

#### The effects of pollution:

- Fish eat plastic, choke and die
- Debris in water trap fish
- Food becomes scarce
- Coral reefs die
- Loss of biodiversity



## **Importance**

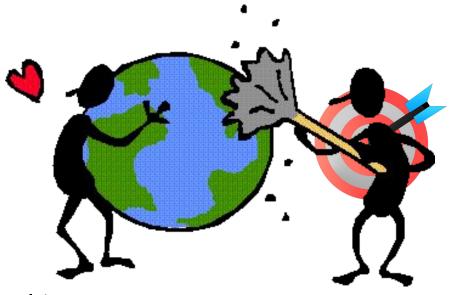
- Coral reef habitat biodiversity
- Plastic does not biodegrade
- Make fish unsafe for human consumption
- Threaten livelihood of coastal communities
- Can lead to extinction of species

## **Target Audience**

All Ages

Casual gamers

People who don't know much about environmental issues



## Why is it Interesting? Unique?

Experience it first hand

- You are literally a fish get to move around freely
- Both educational and fun

Empathy



## Demonstration

## Design Considerations

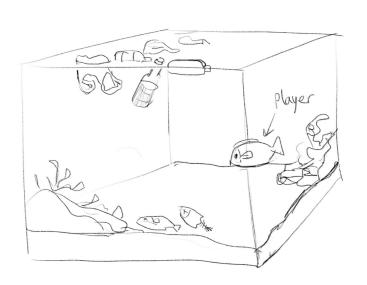
- ullet Ideation
- Sketching
- Building the scene
- Constant Improvement

#### Ideation

- Our idea is about marine pollution happening in recent years
- Show our concept by showing a visual marine scene -- shallow ocean area with coral reef
- Why coral reef? -- most biodiversity
- Apply time changing idea -- how it changes over time
- Create linear scene like in a RPG game let the players experience "time" as they go through the scene

### Designing the scene from scratch

Sketches for our initial idea of how the scene may look like





### Designing the scene from scratch

- The idea is to make a wide scene that players get to explore
- Applied program on different elements to make players feel the time lapse more directly while they're playing
- Applied animation and surrounding audio to make the scene as realistic
  - Better immersive experience!

### References

Denchak, M. (Jan 22, 2018). Ocean Pollution: The Dirty Facts. Retrieved November 9, 2019,

from https://www.nrdc.org/stories/ocean-pollution-dirty-facts