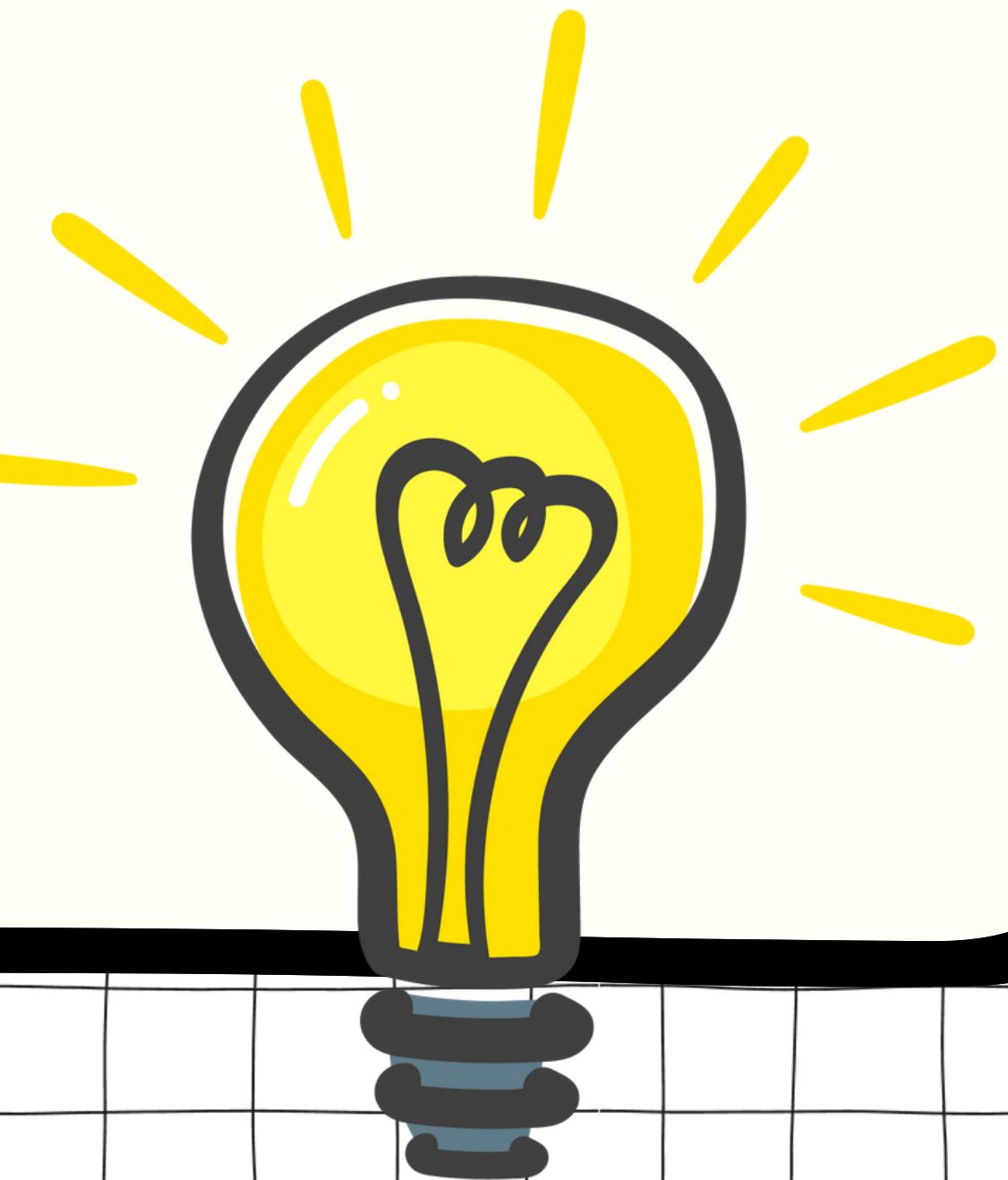


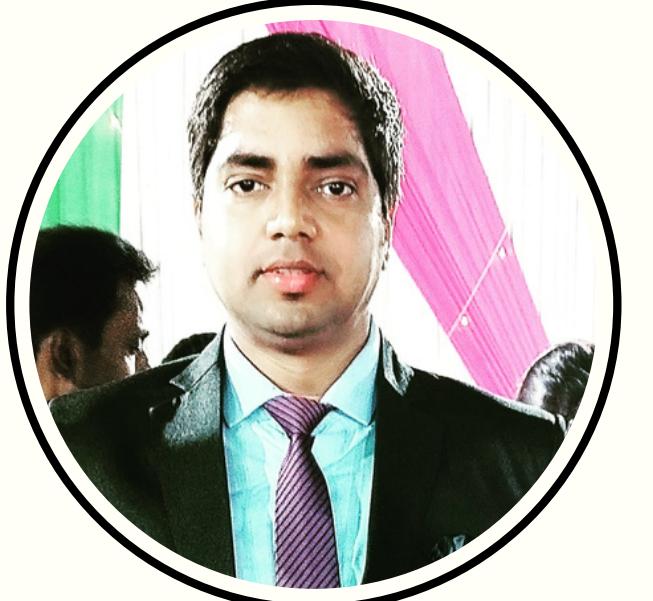
Team  
Perfecto



# **UW2C**

Let's connect the world with under water...  
underwater cleaner & connector  
Clean the Ocean, rivers, pond, lakes etc  
& check damages on optical cables and locate the  
location..

# The team



**Rajat Kumar**

MENTOR



**Ayush Paul**

Leader



**MD. Saad**

*Virtual Support*



**Priyanka**

*Project manager*

# PROBLEM



## Protecting Underwater Cables from Damage

Underwater cables are vital for global communication, but they are susceptible to damage from shark bites and ship anchors. To address this challenge, our project, UW2C, presents an innovative solution.



# VALUES

## *Mission*



Optical cables are at risk of physical damage from various sources, including ship anchors, fishing gear, and natural phenomena like underwater currents and geological activity. These damages can result in disruptions to data transmission and costly repair operations.

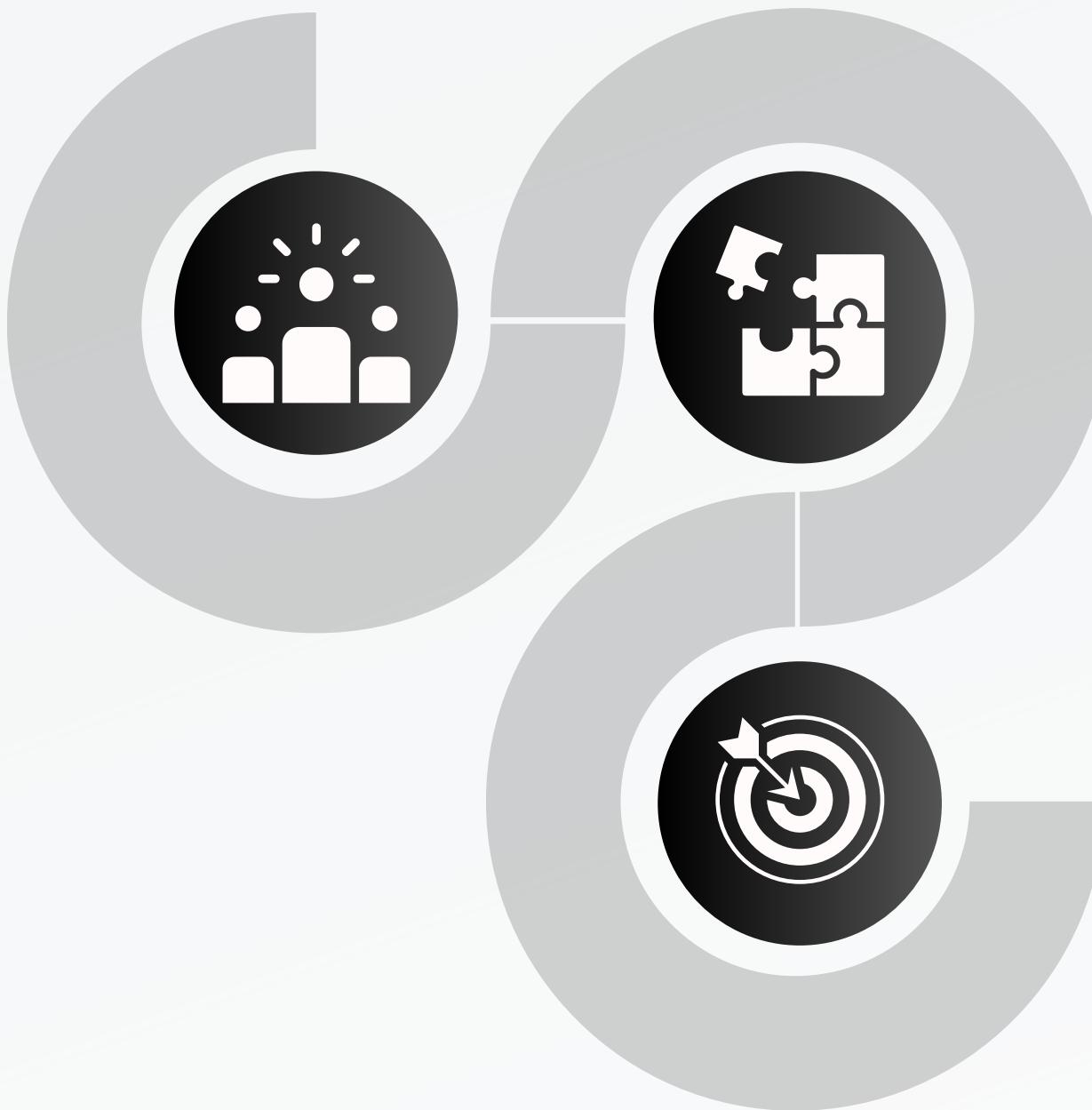
- Ensuring the reliability and security of data transmission through underwater optical cables is paramount. Vulnerabilities in the cable infrastructure can be exploited by malicious actors, posing threats to sensitive data and international communication networks.

## *Vision*



# SOLUTION

- 01** We will make a robot which will run or walk along the parallel of under water optical cables
- 02** We have added a semi circular ring of ultrasonic sensor which will help us to detect the damages on the under water cable
- 03** The ultrasonic sensor detect damages by measuring the depth of the underwater optical cables



# PROBLEM



## Combatting Water Pollution

Our oceans, seas, and ponds are under constant threat from pollution. To address this critical environmental issue, UW2C has developed an innovative boat robot.



# VALUES

## *Mission*



Water bodies worldwide face contamination from a wide range of sources, including industrial discharges, agricultural runoff, sewage, oil spills, plastic waste, and chemical pollutants. These pollutants negatively impact the quality of freshwater and marine environments.

Water pollution can exacerbate climate change by contributing to the release of greenhouse gases, disrupting the carbon cycle, and affecting water temperatures. Conversely, climate change can exacerbate pollution issues through extreme weather events and altered precipitation patterns.

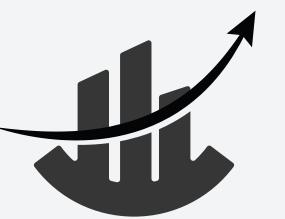
## *Vision*



# SOLUTION

- 01** We have maked a floating robot which can carry pollutants like plastic wastes or etc.
- 02** We have used DC motor's mechanism to carry the waste.
- 03** We have used GPS and SIM900 for locating the robot





PERFECTO

