WATER CLEANING ROBOT

(W- BOT)

UNDERSTANDING THE PROBLEM

* According to a survey more than 700 million species die due to plastic consumption.

*And more than 100 million marine mammals die due to the same problem.

RIVER WORKHORSE

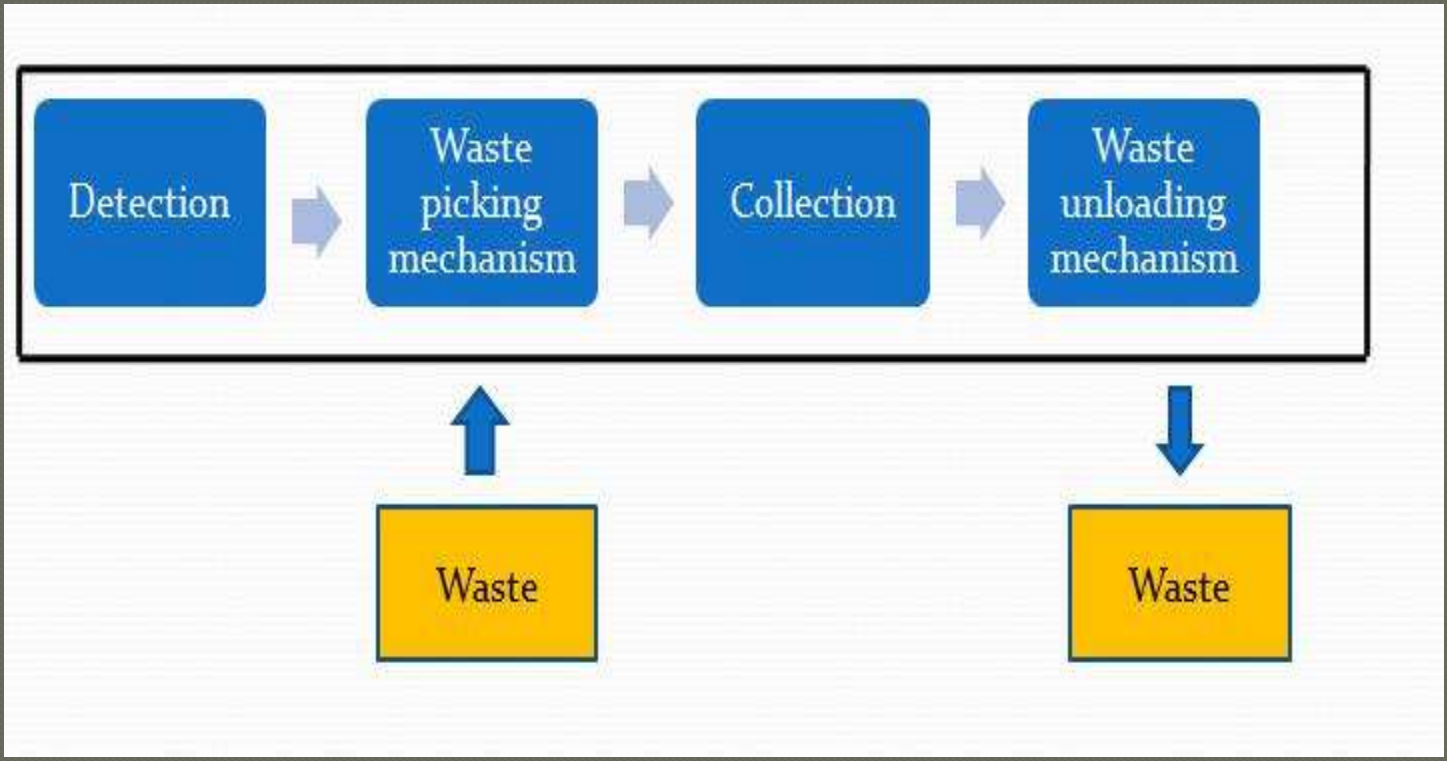
- Rivers such as the Holy Mother Ganga, might benefit immediately from SeaVax survey and waste data patrols.

- The Ganges is navigable for around 1,450 miles from Allahabad to the Bay of Bengal.

- Once waste areas are known in any river with geographic precision, BMS might recommend and develop workable solutions.

IMAGES OF W-BOT

WORKING OF WATER CLEANING BOAT



WORKING MECHANISM:

- **Detection**: The process of detection of wastes is done using a proper motion sensor or by using camera of suitable pixels.
- **Waste picking mechanism**: It drags the wastes in the collecting tank which are being detected.
- **Collection**: There should not be any leakages in the collecting box.
- **Waste unloading mechanism**: When the capacity of collecting tank exceeds its predetermined collecting limit, a compact and portable unloading mechanism comes into action for removal of wastes which are being collected in the collecting box.

Advantages of w-bot:

- Safe to use
- Very less human contact with the water
- Easy to dispose off the waste
- Collect more amount of waste in less time
- Should not harm the aquatic animals
- Very efficient
- Cost effective
- Durable
- Collect majority types of waste

ENGINEERING CONCEPT:

- In water related projects, we must focus on various concepts related to fluid mechanics such as buoyancy, metacentric height. There will be a need to check the floatability and stability of the product in water.

THANK YOU

- PRESENTED BY : DYNAMIC CREATORS