

CODS-T211

ABSTRACT

PROBLEM STATEMENT

The large water body pollution caused by Marine Dumping

SOLUTION ABSTRACT

Marine Dumping is the deliberate disposal of wastes or other matter from vessels, aircraft, platforms or other man-made structures, as well as the deliberate disposal of these vessels or platforms themselves in large water bodies. The main causes of Marine Dumping are land runoffs (waste that is dumped in rivers or lakes that is carried forward to the oceans), oil leaks (leaking of oil from tankers or oil platforms), ocean mining (by-products are dumped), illegal dumping (in developing countries, it is easier and more convenient to dump the waste in the oceans) and lack of expertise of countries in regulating dumping allows industries to get away with dumping.

To decrease land runoffs, various machines can be used to scoop up the waste before it joins the ocean. It could be a remote controlled boat/ robot that can analyse the area and scoop up the rubbish. To check illegal dumping, we could use satellite footage and analyse it in real time to know who are the repeated offenders. To deal with oil spills, a boat can be deployed with chemical dispersants or also have the ability to scoop off the top layer of oil. The lack of expertise in the field of marine dumping has led to a lot of deadly environmental issues. Replacing these officials with AI can help increase the efficiency and will also reduce the human errors.