

SeaClear

Let's Clean the Oceans!

Today's oceans contain **26-66 million** tons of waste with approximately **94%** located on the seafloor.



So far, collection efforts have focused mostly on surface waste, with only a few local efforts to gather underwater waste, always using human divers. No solution exists that exploits autonomous robots for underwater litter collection; the **SeaClear project** will develop the first.

USV SEACAT THE TRANSPORTER

The **SeaCat** is the «mothership». It will also carry all the debris collected back to shore.



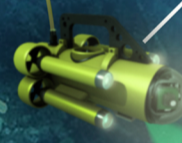
AERIAL DRONE THE OVERWATCH

The drone detects areas of concentration from the air and ensures the navigation safety.



ROV GUARDIAN THE MAPPER

The Mini-ROV Guardian scans the area, identifies and maps the sectors to be cleaned.



ROV TORTUGA THE CLEANER

The **Tortuga** collects the debris on the seafloor and bring them back to the SeaCat.



Project presentation

- **Main objective:** develop collaborative, heterogeneous multirobot solution for collecting marine waste
- **Period:** January 1, 2020-December 31, 2023 (4 years)
- **Total budget:** 4.98 MEUR



European Commission

Horizon 2020
European Union funding
for Research & Innovation

Partners



Delft University of Technology
Netherlands



Regional Dev. Agency
Dubrovnik-Neretva
Croatia



Fraunhofer - CML
Germany



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