



WHAT WE CREATED

The OC undertook to design a holistic idea for the protection of the seas from pollution in collaboration with the company RESTIA.

As the main concern the poisoning of the biodiversity of the seas, the project were established Medusa, which promise the cleaning of the seas through the technology but also the revolutionary organic filters of Restia. Addressing this global problem is possible but must be adopted as well as synergies must be created to fully cover the seas.

Medusa robots work collectively and communicate with each other. This is done to completely cover the damaged area. The robots communicate with each other and give each other information about the location of the spot as well as the amount that has been spilled into the sea.

Medusa recognizes water currents and can predict the course of infection through augmented reality

INDUSTRY

In the last century the travelling by sea from country to country but also the transport of products as well as oil has increased exponentially. There are accidents in many parts of the sea but we also have oil spills. This results in the destruction of the marine ecosystem and consequently the quality of our planet.

There was an average of 1.8 large oil spills from tanker incidents every year in the decade from 2010 to 2019. So far for 2020, there have been no noted oil spills in which more than 700 metric tons of oil was leaked. In the years since the 1970's the number of oil tanker spills has been notably reduced. In the 1970's there were often in excess of 20 large oil spills per year.

OUR INNOVATION

The Medusa robot is a system that can filter the seas from oil-loving compounds.

Its small size makes it very flexible as it can be placed in an emergency and by the air.

The operation of this robot is simple, it creates a vortex and sucks the water by flirting with the oils. It works when it detects the presence of oil, as through the sensors it avoids objects in the sea and fish and follows the waste in order to collect it. It is also equipped with a 5G antenna so that it can directly exchange information with the control center as well as with the ships located in its area.

The Medusa robot is equipped with automation for the smooth operation of itself and the space that roams.

Sensors:

- Obstacles Water current detection sensor
- Motor operation sensor
- 5G antenna for communication



As a design and innovation consultancy, we did the followings:

- market research and competition
- brainstorm for a EV
- 10 ideas
- 5 concepts
- 2 CAD designs



WE AT ORANGE-CIRCLE

By creating a robotic machine that is equipped with artificial intelligence technologies and in collaboration with RESTIA where it has created biodegradable and ecological filters, we can protect our seas and our planet to a huge extent.

CREATIVE

Creativity and innovation go hand in hand to provide:

- user and market research
- product innovation and design
- UX and technology
- ideation workshop
- design execution

BUSINESS

With innovation as our guide we offer the following:

- local market research
- product strategy
- technology research
- employee workshop
- project execution

LET' S TALK!

We are an award winning innovation consultancy that creates solutions powered by creativity and business acumen.

Whether you're a multinational company, small business, or start-up, we can bring your projects to life.

CONTACT US
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The founders combined management consulting and design to create ORANGE-CIRCLE. We believe that innovation and creativity (ORANGE) should have no boundaries or borders. Therefore, we bring the best to our clients from our global network (CIRCLE)