

# PROTECTING OUR OCEANS FROM PLASTIC POLLUTION

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Concrete solutions  
on land and at sea





# FIGHTING

## FOR A POLLUTION-FREE OCEAN

It's also about defending  
an ecosystem  
devastated by human action  
and essential for our survival.

It is a promise  
we make to our future.



**IT IS URGENT  
TO TAKE ACTION NOW.**



## YVAN BOURGNON

Renowned French-Swiss skipper Yvan Bourgnon holds a number of sailing world records and has faced extreme challenges, earning him the nickname “Gladiator of the Seas”.

Sailor, adventurer, environmentalist, he has been traveling the oceans since the age of 8 and has witnessed their deterioration first-hand.

**In 2016, determined to do something about it after his last solo trip around the world, he created The SeaCleaners, a general interest association under French law 1901.**

**9 million  
metric tons**

of plastic waste dumped  
in the oceans every year.

**17  
metric tons**

dumped every minute.

**1,400**

marine species  
Impacted.

**1.5 million**

marine animals  
killed each year.

**If we don't act now,  
by 2050 our oceans will contain  
as much plastic as they do fish\*.**

\*Source: Ellen MacArthur Foundation





## THE SEACLEANERS

takes concrete action to prevent and mitigate plastic pollution.

### AT SEA

We collect floating plastic waste in high concentration areas before it sinks or breaks down into microplastics.

We contribute to scientific knowledge through research and open data sharing.

### ON LAND

We alleviate the problem at its source through education and public awareness initiatives. We carry out waste collection operations with our teams of volunteers.

We support the transition to a circular economy by developing and demonstrating innovative and ecofriendly technological solutions.





# THE MANTA

## An environmentally friendly high-tech ship.

The first boat-cum-waste plant with four complementary missions. A comprehensive response to plastic pollution.



### A SOLUTION FOR COLLECTING WASTE and converting it into resources.

Four collection methods and an on-board plant with pyrolysis to sort, process, repurpose and manage 100% of waste collected.



### A SCIENTIFIC LABORATORY to advance global research.

50 sq.m of state-of-the-art scientific facilities to geo-position, quantify and record details of plastic pollution. Open data sharing with the scientific community.



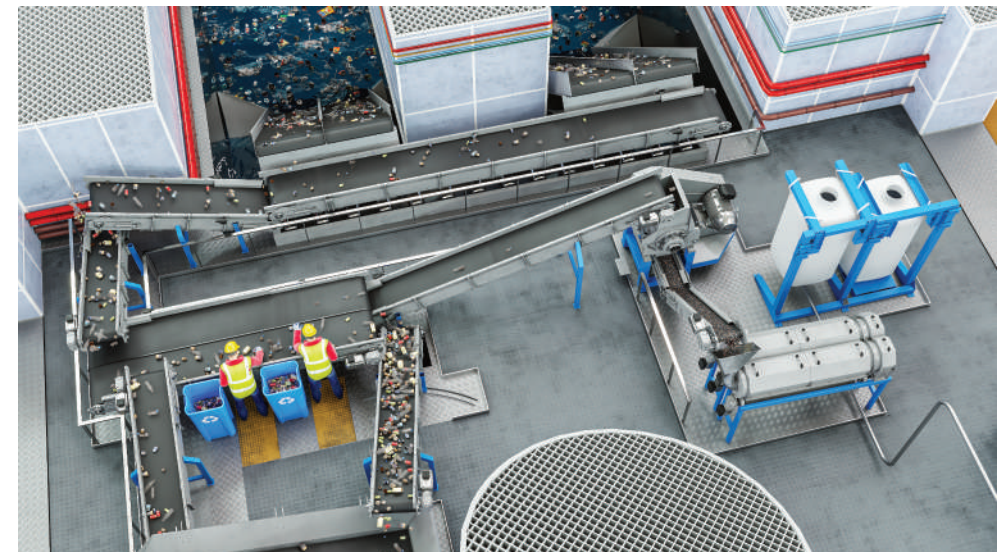
### A BOAT FOR EVERYONE the cornerstone of our awareness activities.

200 sq.m to host the public for awareness and prevention initiatives during stopovers.

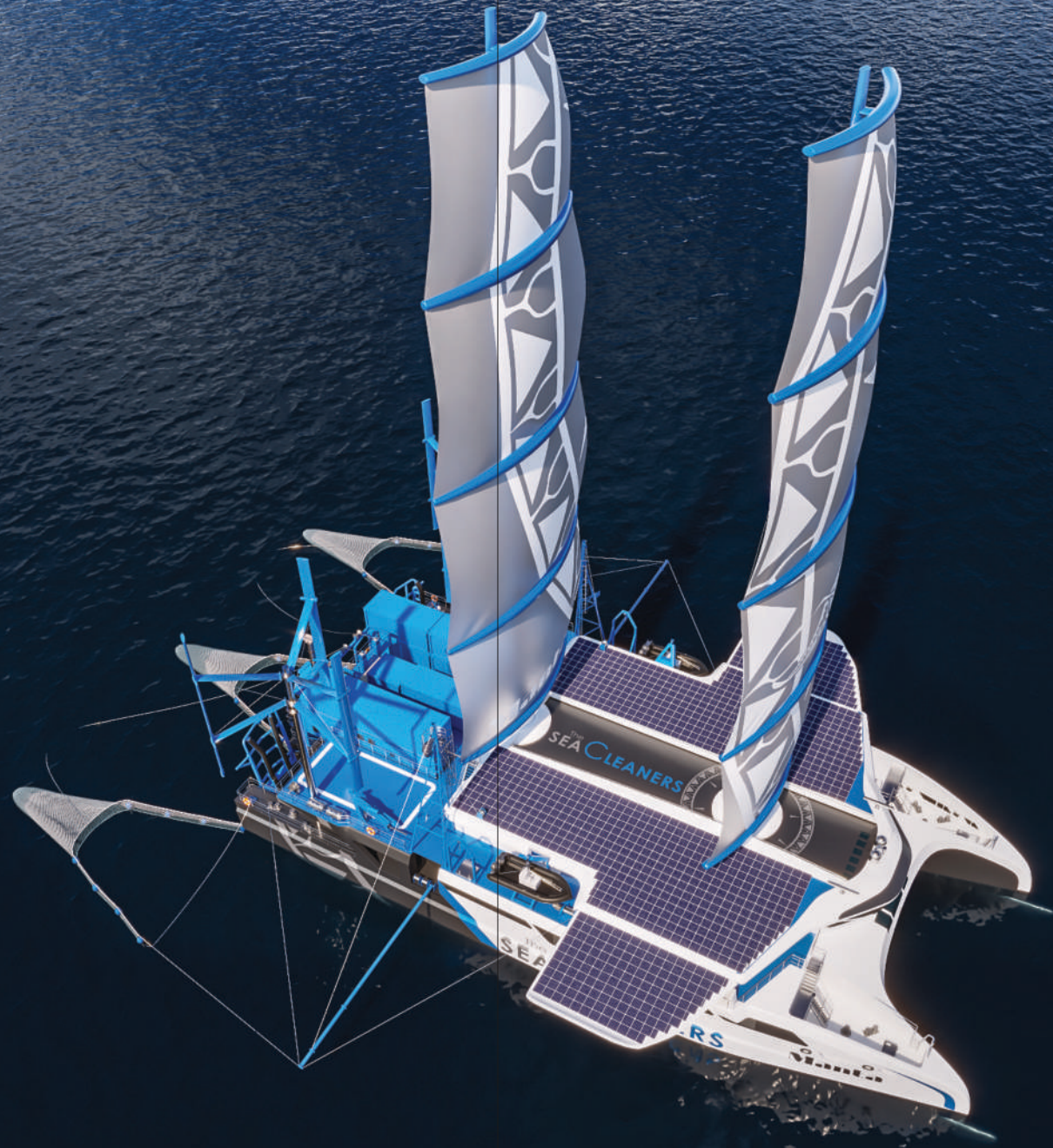


### A DEMONSTRATION TOOL to accelerate the transition to a circular economy.

Showcasing innovative technological solutions for waste management, repurposing and valorization, and technologies for clean sailing for smart and green ships.







Collection goal up to 1m deep:  
5,000 to 10,000 metric tons/year.  
Collection of waste up to 10mm small.



LAUNCHING  
IN 2024

62m high | 56.5m long

100 %

of plastic processed  
on-board

75 %

energy  
autonomy  
(on average)

32

people  
on-board

A MINIMAL  
ENVIRONMENTAL  
FOOTPRINT

#### A combination of renewable energy sources:

Two wind generators

500 sq.m  
of solar panels

Hydro-generators

Sailboat with  
hybrid propulsion

Conversion unit  
that turns plastic  
waste into energy  
through pyrolysis

Automated rigging

## Acting where it matters.



- 1 THE YANGTZE
- 2 THE YELLOW RIVER
- 3 THE HAI RIVER
- 4 THE ZHUJIANG
- 5 THE INDUS
- 6 THE AMUR
- 7 THE MEKONG
- 8 THE GANGES
- 9 THE NILE
- 10 THE NIGER

## An unlimited reach

An active, mobile solution, the Manta is designed to operate in river mouths and estuaries – areas where plastic waste builds up but has not yet begun to disintegrate or drift to the oceans.

A ship which can be quickly deployed anywhere in the world after natural disasters (hurricanes, tsunamis, etc.) to collect floating waste before it sinks.

Equipped with two small "Mobula" multi-purpose collection boats capable of cleaning macro-waste, micro-waste and hydrocarbons in narrow or shallow areas: calm and protected waters, harbors, lake rivers, coastal waters, rivers with strong currents, etc.

They will be deployed autonomously from 2021.



# A TEAM OF PARTNERS EMBARKING

on a unique  
adventure



## COMMITMENT The volunteers

A network of 1,500 volunteers.

14 regional delegations  
in France.

45 waste collection operations  
in 2020.

30 metric tons of waste collected.

## KNOWLEDGE The International Scientific Advisory Board

12 peer-recognized experts  
from around the world.

A rigorous scientific approach  
to set the direction of  
the association's work.

## EXPERTISE The technical consortium

17 renowned industrial partners.

5 research laboratories.

58 engineers, technicians  
and researchers.

12,000 development hours  
in 2020.

## CALLING The association team

27 employees.

7 areas of expertise.

3 offices: La Trinité-sur-Mer,  
Paris, Lausanne.



## SUPPORT

### The corporate partners

Picoty endowment fund, Spadel,  
MTB and 50 French and international  
companies supporting us.

### The institutional partners



### International alliances and working groups

Global Partnership  
on Marine Litter

Plastic Pollution Coalition

UN Decade of Ocean Science  
for Sustainable Development

Group of Friends to combat  
Marine Plastic Pollution

Blue Manifesto



# JOIN US

# BE PART OF THE CHANGE.

[www.theseacleaners.org](http://www.theseacleaners.org)

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