

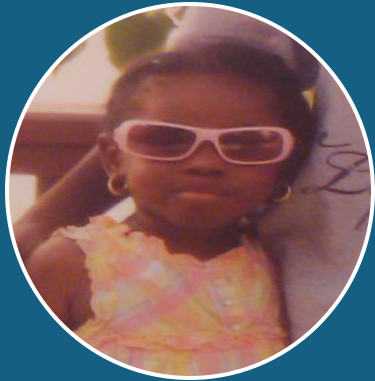
# Reef Guardian

The Ocean Won't Reek.



# Our Team

## Naval Cleanup Corporation



**Kaylan  
Clarke**

- Founder of Naval Cleanup Corporation
- Chief Engineer
- *Environmental Engineering, M.S.*



**Chris  
Perez**

- Co-Founder of Naval Cleanup Corporation
- Chief Operations Manager
- *Marine Biology, M.S*



**Aaron  
Clarin**

- Co-Founder of Naval Cleanup Corporation
- Chief Financial Officer
- *Finance, M.B.A*



**Jose  
Reyes**

- Co-Founder of Naval Cleanup Corporation
- Public Relations Director
- *Communications, M.S.*

# Problem

- Approximately 8 million tons of plastic pollution end up in the sea a year.
- Microplastics are affecting a huge portion of the food supply.
- A rise in Microplastic consumption from seafood.
- Microplastics and toxins are harming the Galapagos Islands and Easter Islands.



# Solution

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- A way to recover all plastic within the Great Pacific Garbage Patch to both reuse and sell.



Clearing the Pacific  
Ocean from plastic



Selling the plastic  
to repay  
investment.

# Product

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- A 45-meter-long Robotic Whale Shark.
- Ability to open its mouth in variable degrees to collect the plastics within the sea.
- Able to differentiate living organism from plastic.
  - AI accepts thermal signatures, sonar, and visual data as input to identify whether sea life is near or in its haul.



*Reef Guardian Model*

# Market Size

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**\$10.99  
billion**

2025 budget for  
the EPA  
(Environmental  
Protection  
Agency)

**\$7.3  
billion**

2024 EU  
budget for  
ocean  
restoration  
projects

**\$26  
billion**

2018 U.S  
public funding  
for solid waste  
management

# Market Validation

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**200+ Million** views on YouTube for the #TeamSeas campaign

**\$34+ Million** raised through public donations for #TeamSeas

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**86%** of Americans support policies to reduce water pollution

**76%** of Americans support reducing single-use plastic pollution

# Adoption Strategy

Access to and expansion of the Port Hueneme Naval Base



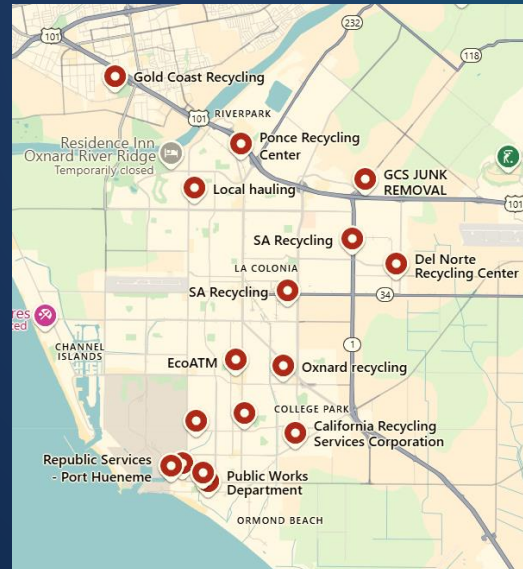
Partnerships with neighboring recycling facilities in the Port Hueneme Area



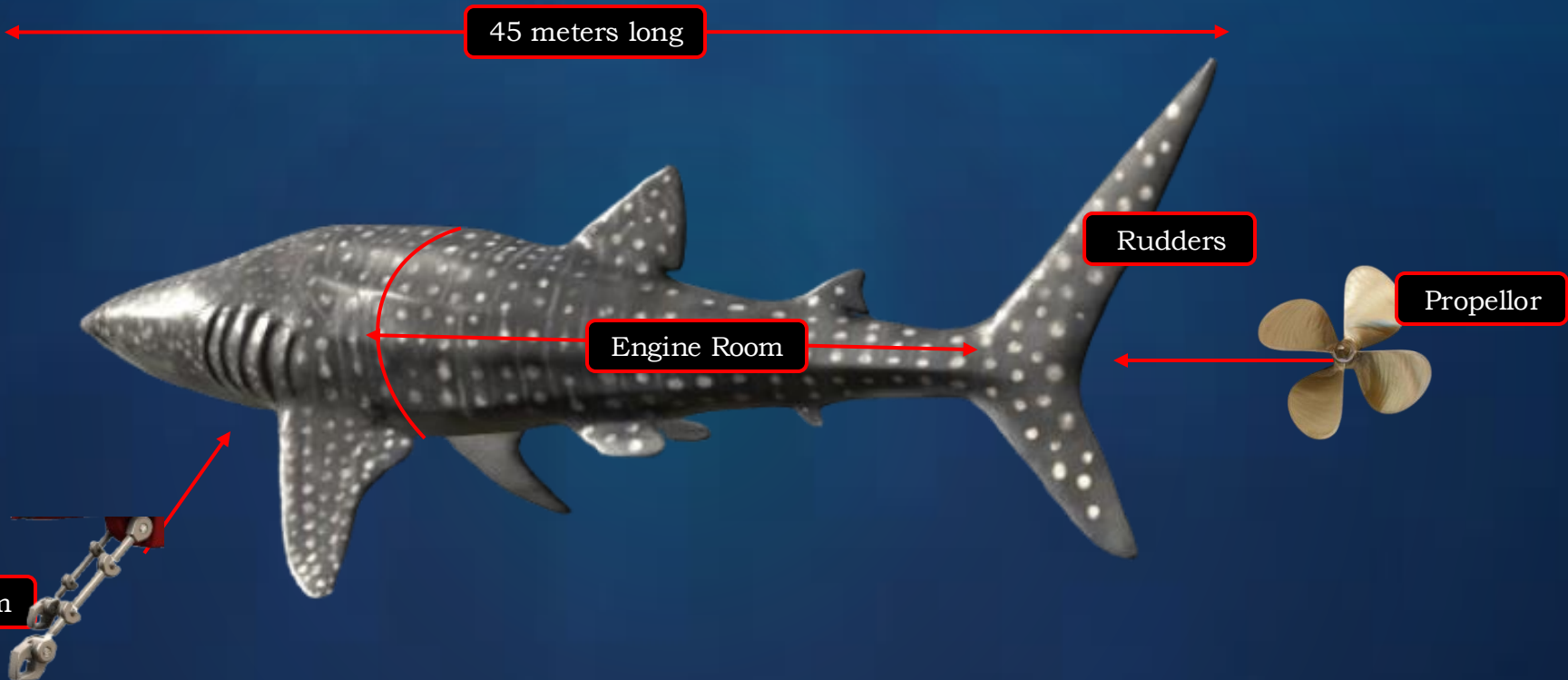
Reef Guardian field work



An estimated maximum of **5 years** to clean **100,000 metric tons** of trash.



# Reef Guardian Specs

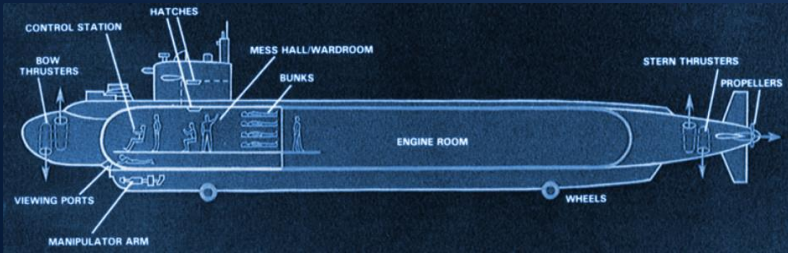


254 metric ton capacity

Max speed of 8 mph

Dives over 700 meters deep

Beam of 4.8 meters



# Reef Guardian Specs



# Competition

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The Ocean Cleanup: Interceptors to prevent plastic from rivers entering the ocean.

Clearbot: Autonomous robot designed to collect floating plastic and debris from water bodies such a rivers.



# Competitive Advantages

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- Reef Guardian covers a larger territory. Our operation spans 1.6 million square kilometers with vessels 45 meters in length.
- Interceptors only catch floating plastic. We are the only company able to clean submerged plastic.
- Our AI can differentiate fish from garbage.



# Timeline

Research and development of specific design components and training of AI

**January 2025 - 2026**



Physical construction and assembly of the submarine

**Sept 2027 - Sept 2033**



The Great Pacific Garbage Patch Cleanup

**Nov 2035 - Nov 2040**



**January 22, 2025**

Concept & Budget get approved



**February 2026 - August 2027**

Secure contract with suppliers and hiring specialized crew for maintenance



**Oct 2033 - Oct 2035**

Test the systems and sensors through short trial runs

# Financials

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<u>Action</u>	<u>Budget</u>	<u>Timeline</u>
<b>Expand Naval Base and conduct R&amp;D</b>	\$14 Million	2025-2026
<b>Secure suppliers, materials, and crew</b>	\$160 Million	2026-2027
Build 10 Reef Guardians	\$90 Million (\$9 million per vessel)	2027-2033
<b>Test and conduct sea trials</b>	\$10 Million	2033-2035
<b>Fuel replacement</b>	\$1 Million	Every 5 years
<b>Annual Maintenance</b>	\$150 Thousand	Yearly

**TOTAL**  
**\$274 Million**

# Thank you



Naval Cleanup Corporation