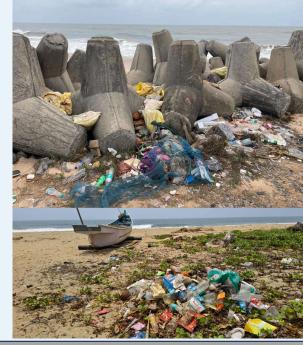


INTRODUCTION

- ❖ Oceans are vital but face pollution threats like plastic, oil, chemicals, and noise. This causes harm to marine life, habitats, human health, and economies.
- ❖ Management strategies include reducing plastic waste, stricter regulations, coastal zone management, international cooperation, and public awareness.
- ❖ Urgent action through collaborative efforts is crucial for protecting oceans and ensuring sustainability. Water, the elixir of life, is a finite and irreplaceable natural treasure. It quenches the thirst of every living being, nurtures vibrant ecosystems, and fuels the engines of progress.
- * Conserving this liquid gold is paramount for sustaining life, fostering economic growth, and safeguarding our planet's delicate balance.
- ❖ The water quality index value of ground water was 84.46 in rainy season, 77.14 in winter season and 91.22 in summer season.

























Mission: To protect and preserve the world's oceans from the detrimental effects of pollution, fostering a sustainable and healthy marine environment for present and future generations.





Vision: A world where the oceans are free from harmful pollutants, marine ecosystems thrive, and the delicate balance of the ocean's resources is maintained for the benefit of all life on Earth.



















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CAUSES

ENVIRONMENTAL POLLUTION



- ❖ Different type of Industries that are affecting water bodies: Chemical Industries, Manufacturing Industries, Extractive Industries, Metal Industries, Power Generation, Construction Materials.
- ❖ Sewage system.
- * Excessive tourism.
- ❖ Agricultural runoff.
- ❖ Ship pollution: marine debris, ghost nets.
- Plastic pollution.

ENVIRONMENTAL DEGRADATION

- ❖ Coastal erosion.
- Challenges faced by ocean waste management system.























CAUSES

ECOSYSTEM AND COMMUNITY IMPACT



- **Effects on Local Community.**
- ❖ Degradation and Deforestation of Coastal Ecosystems.
- ❖ Coastal Urbanization.

CLIMATE AND POLLUTION

- Climate Change Impacts.
- * Invasive Species.
- * Religious Cultural Practices.



















REMEDIES

Waste Segregation and Processing: Segregating collected ocean waste based on types, Creating homogeneous mixtures of recyclable waste, Combining waste with other compounds for stability and usefulness.

Product Manufacturing from Recycled Materials: Reinforcing and using recycled materials in products like furniture, automotive parts, construction materials, and consumer goods for strength and durability.

Recycled Plastics and Packaging: Recycling ocean plastics into everyday items, clothing, and construction materials. Creating sustainable packaging solutions from recycled plastics.

Electronic Waste Recycling: Recovering valuable metals and components from electronic waste. Refurbishing and reselling functional electronics.

Recycling Fishing Gear and Rubber: Using recycled fishing nets and lines for textiles, construction materials, and durable goods. Repurposing rubber tires for construction, playgrounds, and consumer goods.

Organic Waste Recycling: Converting organic waste into compost or biofertilizers for agriculture. Producing bioenergy through anaerobic digestion of organic waste.

Metal and Glass Recycling: Melting and reusing metals from ocean waste in manufacturing industries, art, and decorative items. Recycling glass for construction, bottles, and artisanal goods.



















Sustainable Branding:

Promote products emphasizing sustainability and recycled ocean waste materials.

Certification and Standards:

Get ecocertifications like Ocean Cycle or Global Recycle Standard to assure consumers of environmental

Collaborations:

Partner with eco-friendly brands, organizations, and influencers for product promotion and endorsements by environmental NGOs.

Storytelling:

Engage
consumers by
sharing the
journey of ocean
waste to
product,
highlighting
positive
environmental
impacts.

Education and Advocacy:
Inform
consumers about ocean pollution and the importance of recycling through advocacy and educational campaigns.

01.

02.

03.

04.

05.







benefits.













BUSINESS MODEL



Key Resources

Physical resources

Human resources

Financial resources

Technological resources

Intellectual resources

Network resources

Legal resources

Marketing resources

Transportation and logistics resources

Key Activities

Collection and Segregation of waste

Production Process

Production Line Feedback

Customer Care

Key Partners

Government of India

Private partnerships

Value **Propositions**

Advanced technology and eco-friendly processes

Efficient collection of Waste

> Educational programs and Sustainable practices

Environmentally responsible team

Customer contribution and transparency

Customer Relationship

Customer Engagement and Communication

Customer Support

Loyalty and Rewards Programs

Community Building Collaborations Technology and Automation

Channels

Direct Sales Retail and Distribution Digital Marketing Partnership and Collaboration

Educational Outreach

Customer Segments

Individual Consumers

Businesses and Corporations

Government and Municipalities

Non-Profit Organizations

Educational Institutions

Specific Industry Segments

Tech and Innovation Focused Segments

Cost Structure

Initial Setup and Infrastructure (25%)

Operational Costs (30%)

R&D and Technological Advancements (15%)

Marketing and Sales (10%)

Compliance and Legal (5%)

Community and Sustainability Initiatives (5%)

Revenue Stream

Sale of Recycled Products **Industrial Raw Materials**

B2B Partnerships and Contracts

Waste Management Services Composting and Bioenergy

Consulting and Education



















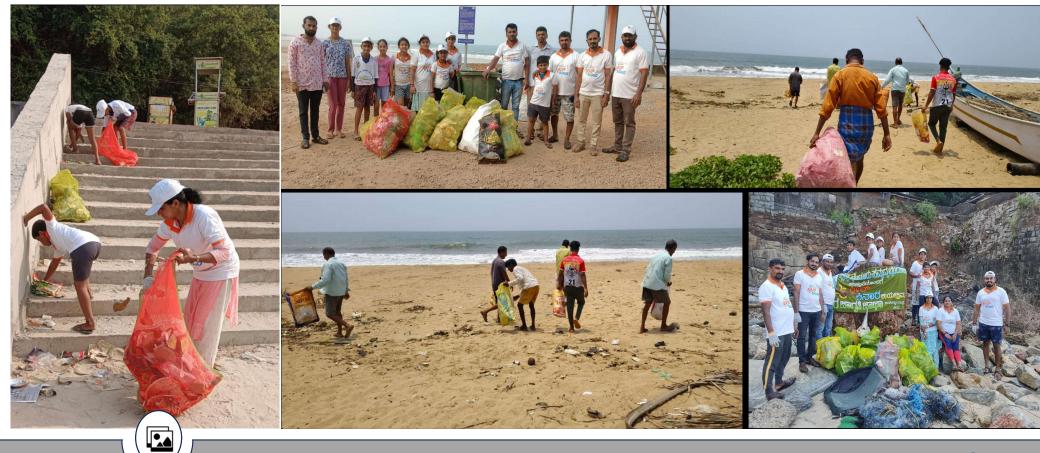






Our teams at Udupi & Karwar in Karnataka























Our teams at Goa & Sindhudurg in Maharashtra







Pilot Projects at Udupi and Karwar in Karnataka

- Our teams at Udupi and Karwar in Karnataka, have collected about 8-10 tons plastic waste from the ocean in the last 6 months
- The collected waste was segregated by the Women SHG members and was given to the local recyclers for cleaning and shredding the plastic waste
- Post this exercise, the shredded plastic was sold to the plastic moulding industries by these Women SHG members, who are into making of household articles such as buckets, mugs, flower pots, pipes etc. In this way the local Women SHG members also gets some income from this activities.

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Proposed Activities in Udupi, Karnataka

- Awareness programs for fishermen in each fishing villages about the ocean plastics and its effects on the environment and humans
- Providing reverse vending machines (Pet bottle recycling units)
- Hiring of boats for collection of plastic waste in sea (exclusively for collecting plastic at sea)
- Collection bins (2 nos. 20 kg capacity) for each mechanised boat
- Providing beach cleaning machines
- Undertaking fishermen village beach cleaning activities
- Incentives for purchasing damaged nets and plastic waste from the fishermen
- Installation of plastic collection kiosk including structure, weighing scale, bags, 1 ton vehicle and other processing charges
- Installation of trash barriers in rivers (15 ft barriers and 15 ft wire)
- Annual maintenance of trash barriers
- Installation of plastic compressor, after washing for transportation
- Study on effects of micro plastics and macro plastics in fish
- Providing the facilities for converting the plastic waste collected into appropriate toilet parts
- Construction of public toilets out of waste plastics in harbors, beaches and landing centers
- Development of software application and maintenance for monitoring progress of proposed activities
- PMU Setup and maintenance



















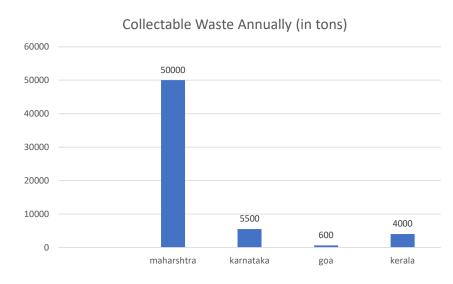


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STATISTICAL DATA

Over the past decade, the Indian Ocean has seen a significant rise in pollution, particularly from plastic waste. Here's a summary of the key statistics and trends regarding pollution in the Indian Ocean from 2014 to 2024:

Pollutant Type	Statistics	Source
Microplastics	1,00,000 to 1,25,000 microplastic particles per sq km in	Studies on marine pollution in
	coastal waters	India
Oil Spills	Average of 60 oil spill incidents annually	Indian Coast Guard reports
Factory	5.5 million metric tons of industrial waste annually	Central Pollution Control
Wastes		Board
Noise	Levels range between 100-130 dB in major ports	World Economic Forum report
Pollution		
Chemicals	High levels of heavy metals (e.g., mercury, lead) in	Environmental Monitoring
	coastal sediments	reports













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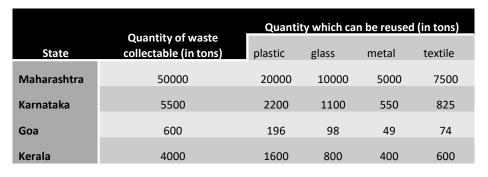


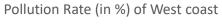


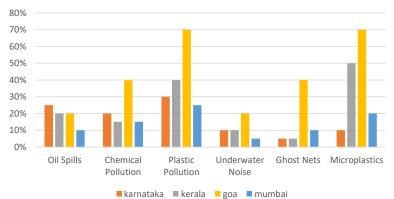
STATISTICAL DATA



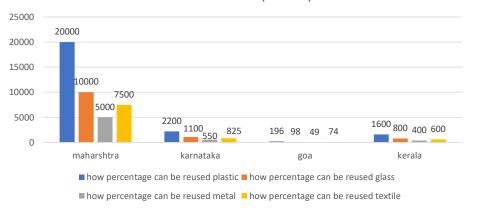
Pollutants	Karnataka	Kerala	Goa	Mumbai
Oil Spills	25%	20%	20%	10%
Chemical Pollution	20%	15%	40%	15%
Plastic Pollution	30%	40%	70%	25%
Underwater Noise	10%	10%	20%	5%
Ghost Nets	5%	5%	40%	10%
Microplastics	10%	50%	70%	20%







reusable waste(in tons)





















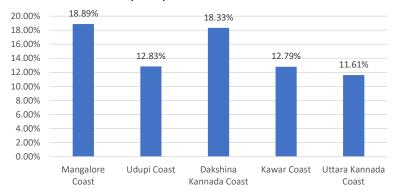
STATISTICAL DATA from KARNATAKA



Pollution contribution rate from each coast in Karnataka (IN %)

COASTAL AREA	AVERAGE POLLUTION RATE OUT OF 5500 tons OF WASTE.
Mangalore Coast	18.89%
Udupi Coast	12.83%
Dakshina Kannada Coast	18.33%
Kawar Coast	12.79%
Uttara Kannada Coast	11.61%
TOTAL	74.45%

Pollution contribution rate from each coast in Karnataka (IN %) AVERAGE POLLUTION RATE



























THANK YOU

India Contacts:

Nandakishora K / Anitha Rao

Founders

We Care Society

Mobile: 9902256304 / 9986024478 nandakishore@wecaresociety.co.in

anitharao@wecaresociety.co.in

India.msme.1@gmail.com
Nandakishore.sk@gmail.com

Website: www.wecaresociety.co.in

UK Contacts:

Supreetha NK Global Project Manager

We Care Society

Mobile: +44 7586797052

Supreetha@wecaresociety.co.in

Supreetha0814@gmail.com

Website: www.wecaresociety.co.in