



Waste Management Technologies contributing to MARINE PLASTIC DEBRIS REDUCTION



“

80% of the debris found in the oceans originates onshore

As high as **6.4** million tonnes of marine litter gets dumped into the seas annually

In a single day, **1 to 3 billion** microplastic particles entering the Bay of Bengal come from the Ganges-Brahmaputra-Meghna river basin, passing through China, India, Bhutan, Bangladesh and Nepal

Plastic waste generated by Indonesia, India, Thailand, Malaysia, Bangladesh, South Africa, India, Pakistan, and Myanmar In the Indian ocean Rim amounts to **15%** of the world's total Mismanaged Plastic Waste

By 2050, plastic could outweigh fish in the oceans



North Pacific

Subtropical
Convergence Zone

Kuroshio

California

Western Garbage Patch

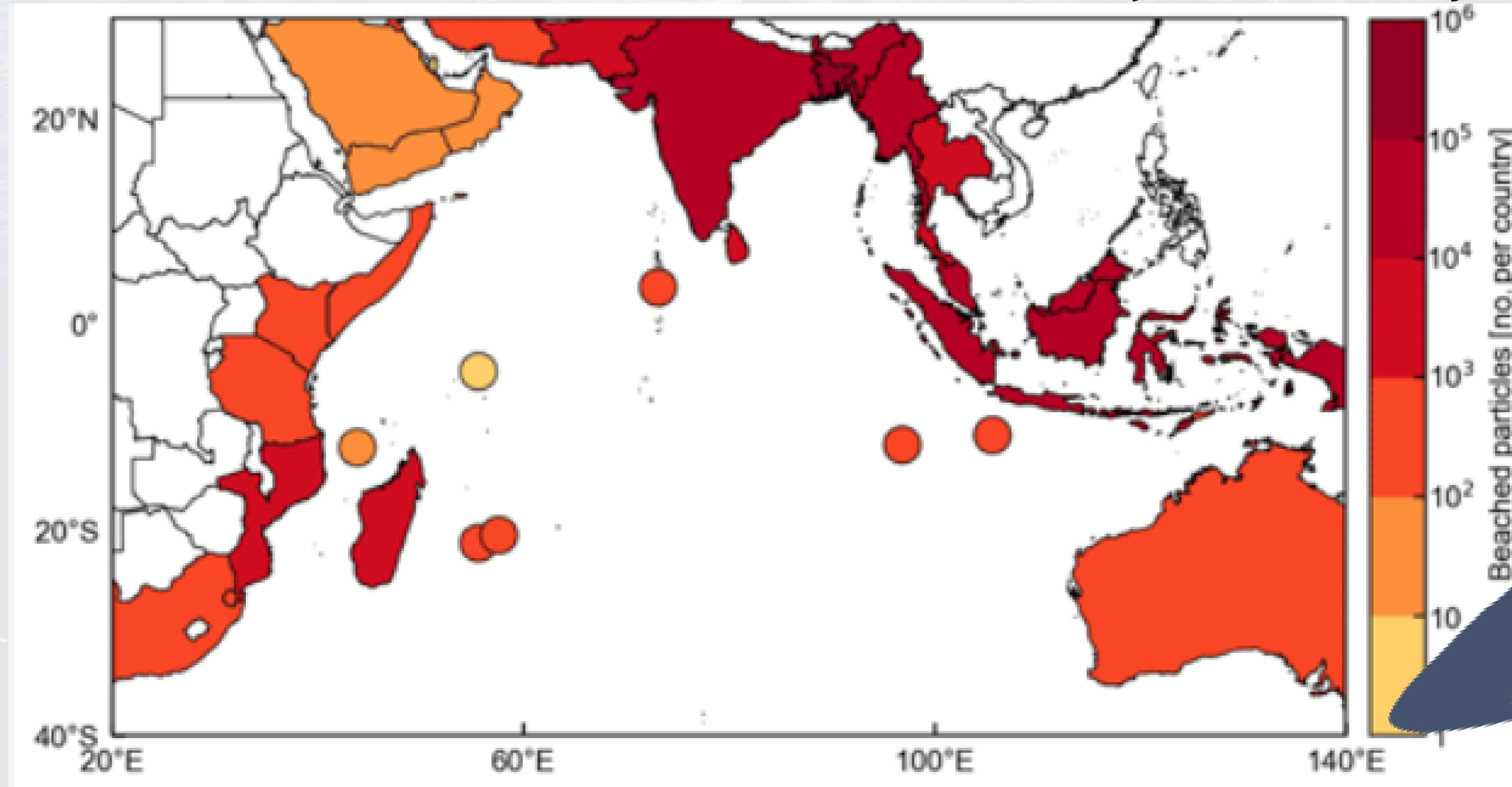
Eastern Garbage Patch or
N. Pacific Subtropical High

North Equatorial

The Great Pacific Garbage Patch



Indian Ocean Countries Affected By Beaching Plastics



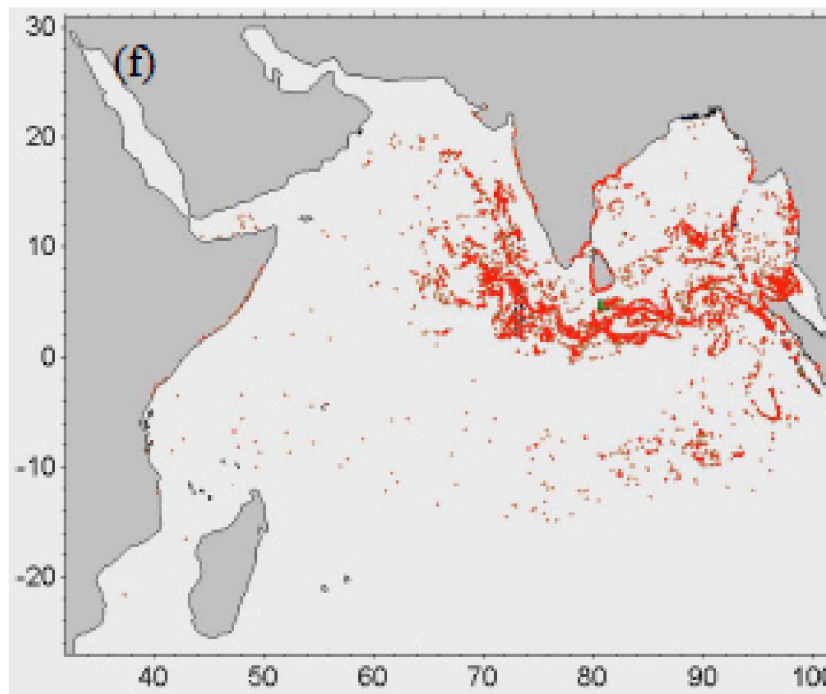
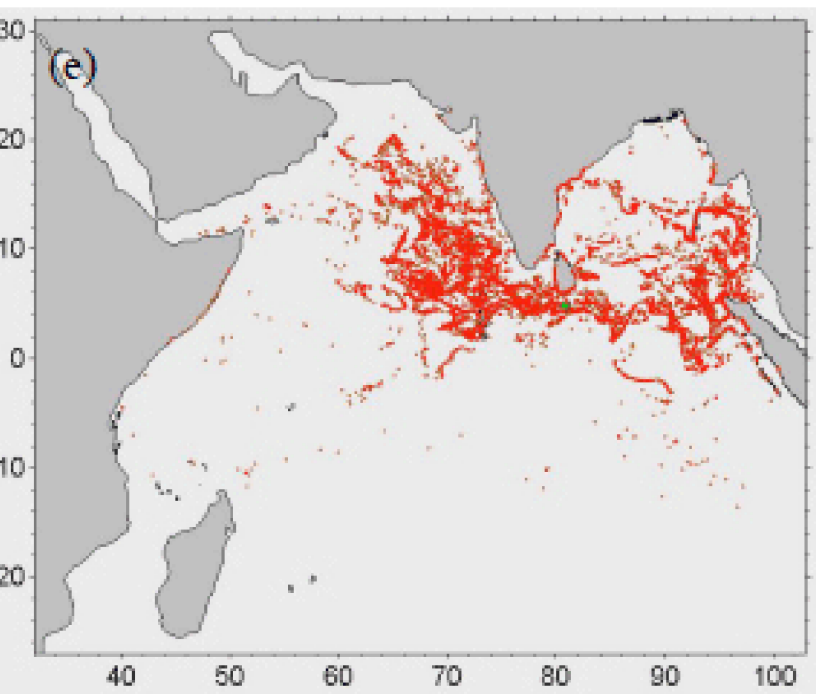
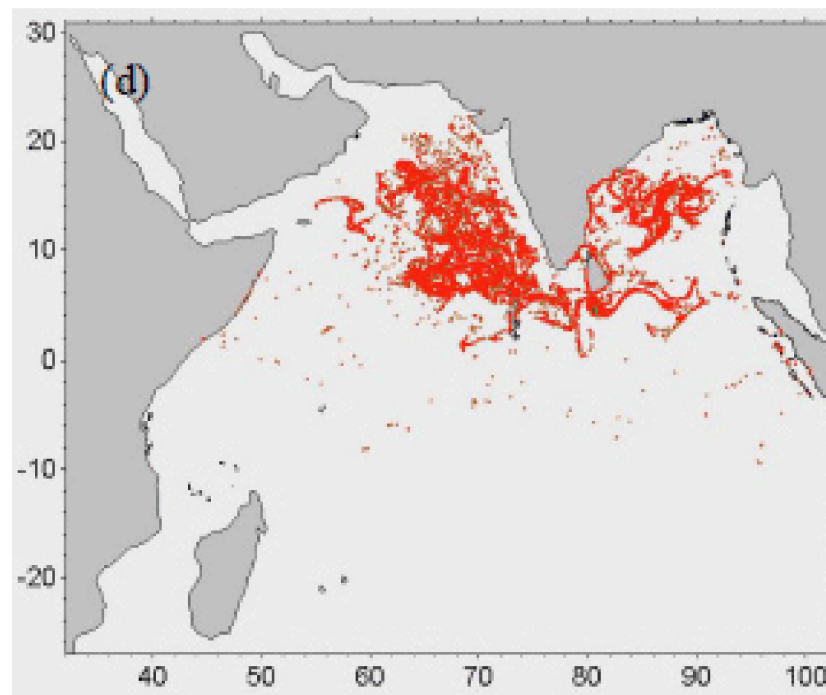
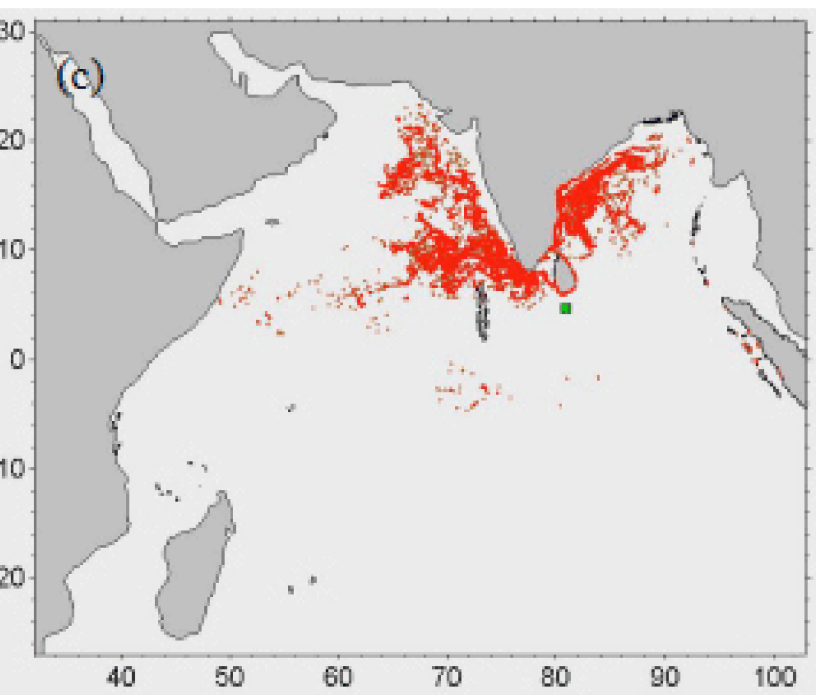
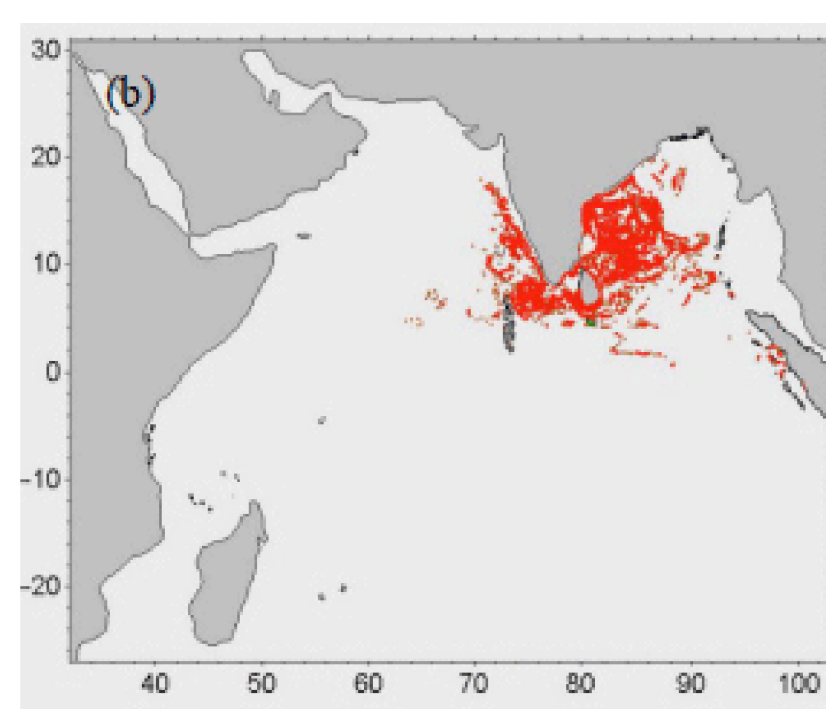
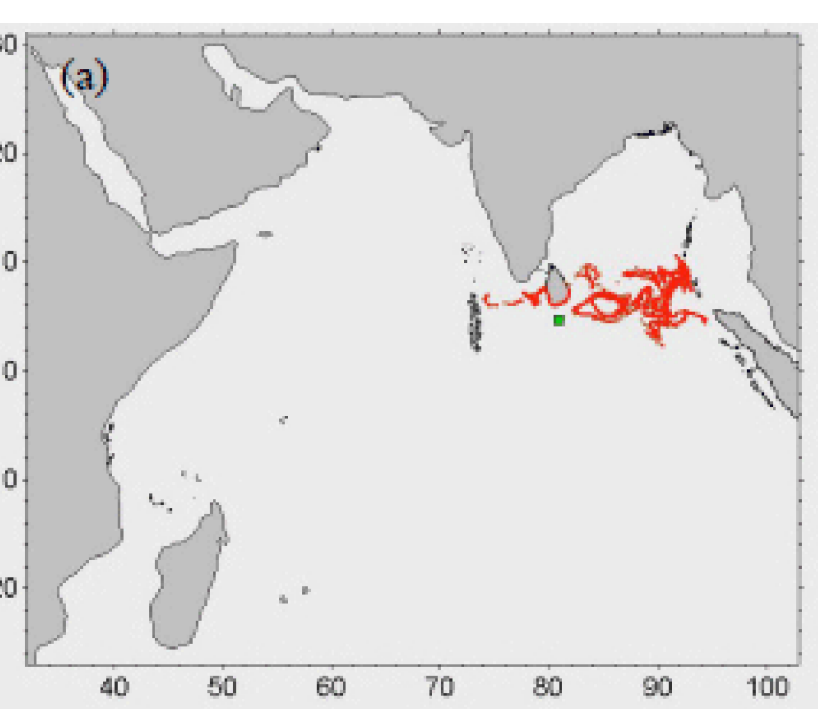
Colours show the number of particles that have beached in each country in Lagrangian particle tracking simulations by van der Mheen et al. (2020a),
Where particles beach with a 50 % chance if they come within 8 km of a coastline.

The Ocean Currents

Because the subtropics in the Northern Indian Ocean are covered by land mass, there is no subtropical gyre. Instead, temperature differences between the northern land mass and the ocean drive the monsoon system, which dominates the atmospheric and oceanic dynamics in the region.

These dynamics determine the transport of buoyant plastics

Approximately 35 % of all produced plastic materials have densities higher than that of seawater (PlasticsEurope, 2019) and, therefore, will sink to the seafloor after entering the ocean



POLICY AND CAMPAIGNS

India is 5th highest generator of plastic waste in the world. Of which 43% of manufactured plastic in India is used for packaging purposes, and is mostly Single-Use Plastic

① EXECUTION OF EPR POLICY

② SWACCH BHARAT MISSION

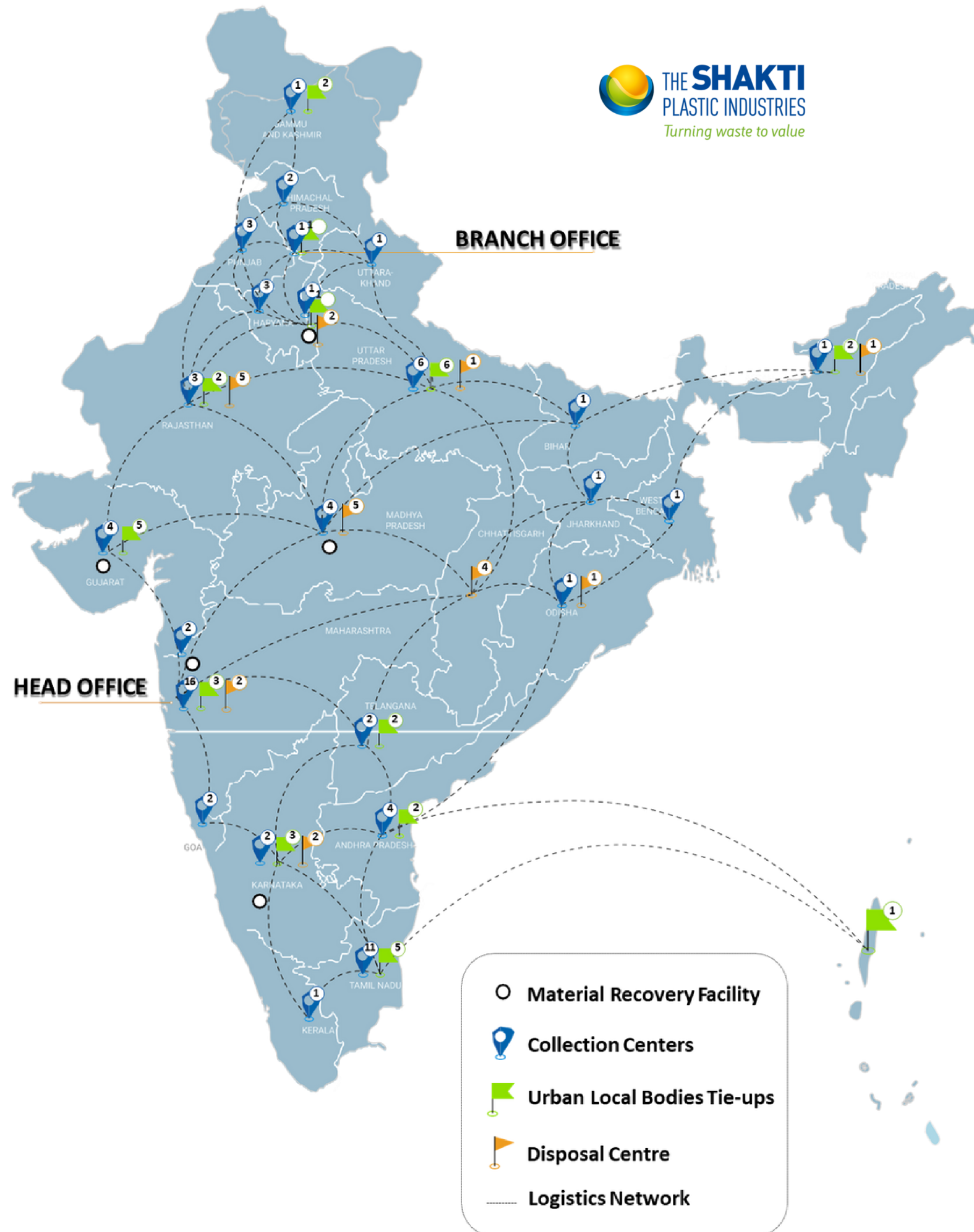
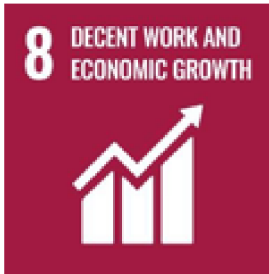
③ Swachh Sagar Surakshit Sagar campaign

④ PLASTIC WASTE MANGEMENT RULES 2016

⑤ SUPs BANNED ITEMS, 2022

⑥ UN's "Coastal Clean Seas" Signatories

⑦ 13 RIVERS REJUVENATION PLAN IN INDIA



TSPI IMPACT

Environmental Impact

200000 MT+

Plastic Waste diverted from landfills

400000 MT

CO₂e offset

Social Impact

10000+

Rag-pickers empowered PAN India

52%

Women employees

100+

IEC activities conducted

Pillars of Our Strength

120+

ULB tie-ups PAN India

30+

Disposal Centres PAN India

400+

Esteemed brands associated

Products / Sites

25K+

Sustainable products delivered

100+

Sustainable products to be developed from MLP

10+

Upcoming recycling facilities



Model Framework

For Recovery of Pre And post consumer Plastic Waste

01

PWM through Own Distribution Channel i.e own Material Recovery facilities (Pan India)

03

Recovery of plastic waste ,Which is Ocean bound i.e Marine litter or from Beach cleanups



02

PWM through Direct engagement with Urban Local Body (ULB)

04

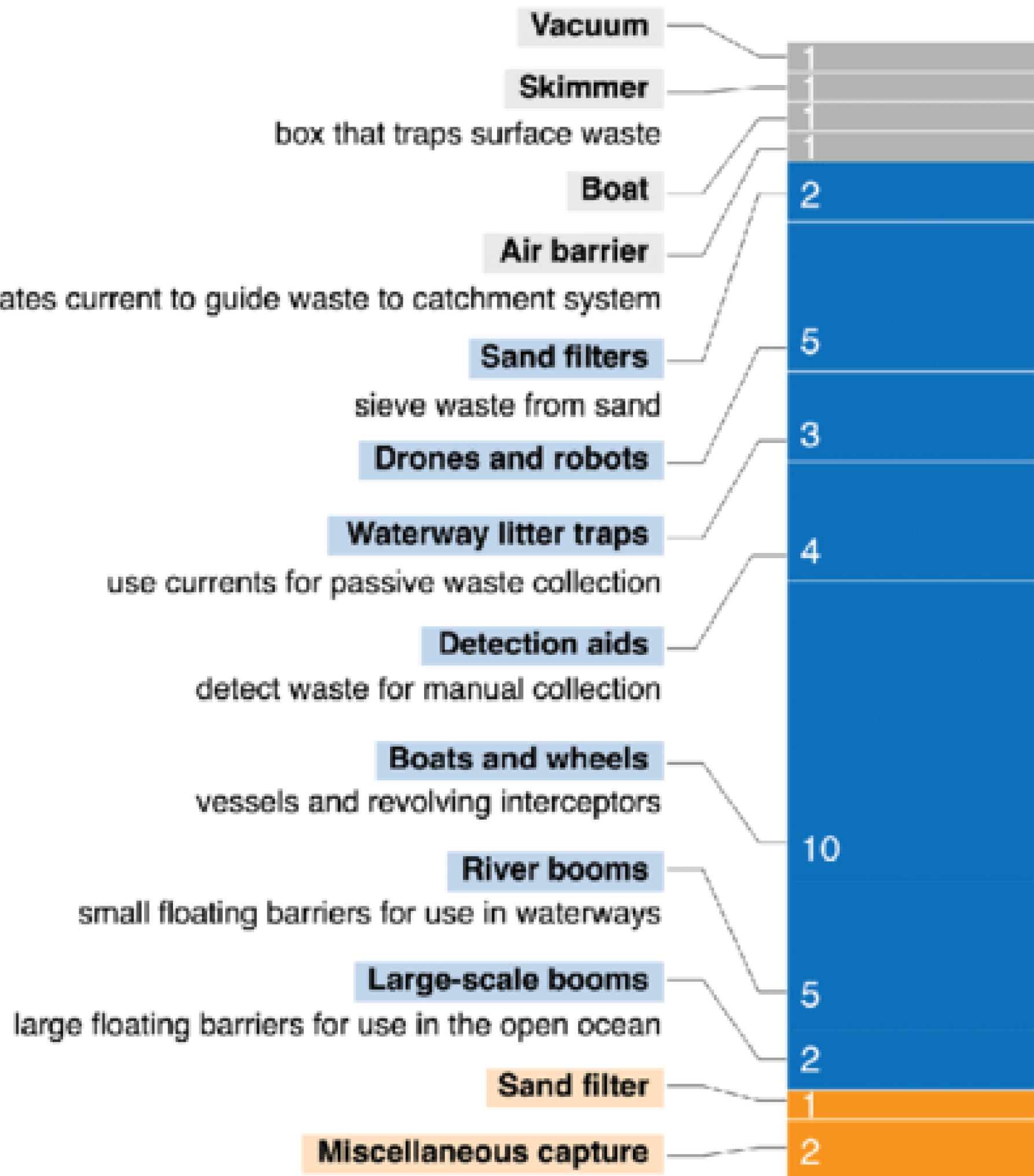
Inhouse Plastic waste recycling and co processing of waste at our Recycling centre

The Shakti Plastic Industries has Recovered and Recycled
Around **5873 MT** of Plastic waste which is **Ocean Bound**

Beach Cleanup Drives



Technologies for Ocean Plastic Collection And Prevention until now



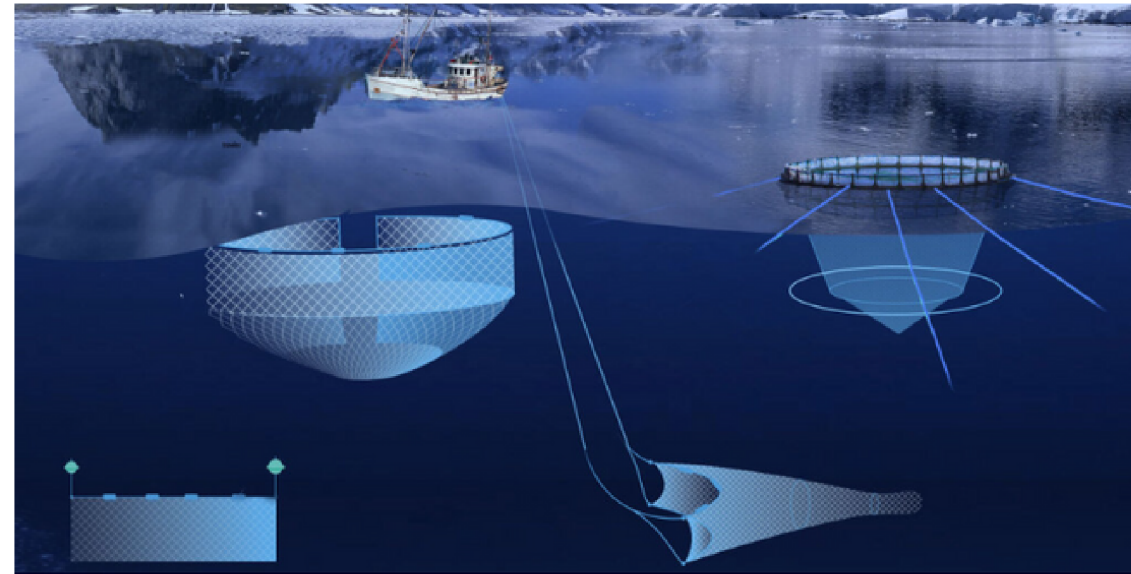
Collection

Prevention

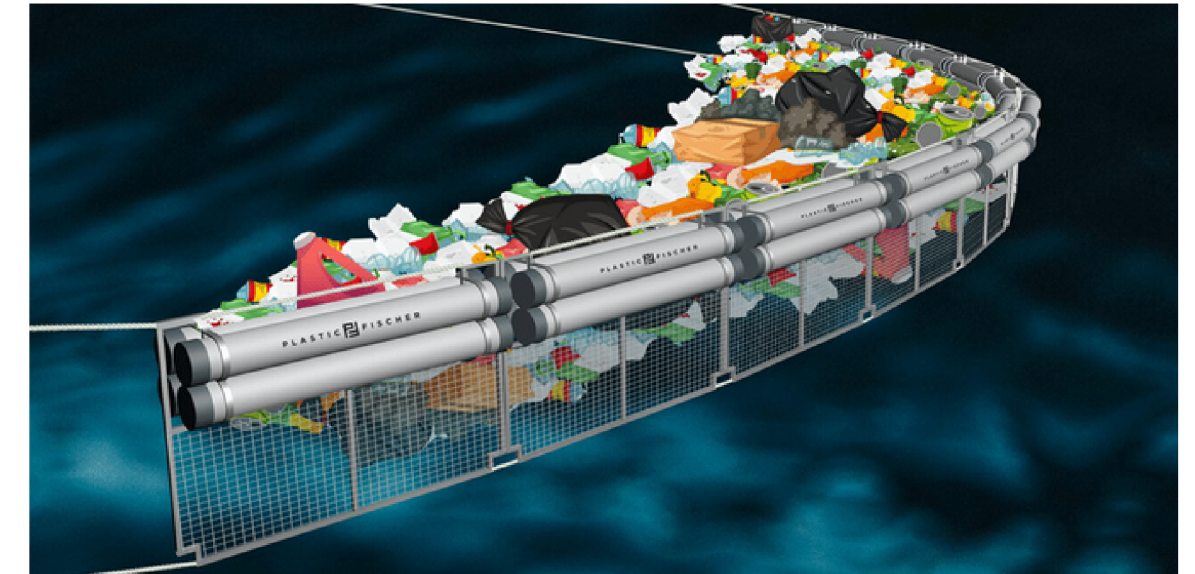
Developing an Indigenous solution



Port Bin from Spilltech



Plastic Waste collection By Nofir



Trash boom technology

- These devices collect floating plastic waste from ports, rivers, ponds and other water bodies
- Nofir's system is generating an annual 7 000 metric tons of ocean plastic raw material for the recycling industry
- Floating Trash barriers (FTB) and trash Boom are installed in various river rejuvenation Projects in India
- The Mithi river rejuvenation program used Trash boom technology for cleaning of river

Product made from Recycled plastics

Carbon Negative Stile

Each Tiles Recycles 1 kg of Multilayered Plastic waste and offsets approximately 2.5 kg of CO₂



+Sustainable Products - MLP Recycled Products

www.shaktiplasticinds.com

Carbon Negative Benches

Each MLP bench recycles 43 kg of Multilayered Post Consumer Plastic waste and offsets approximately 94 kg of CO₂



+Sustainable Products - MLP Recycled Products

www.shaktiplasticinds.com

Each Pallet Averts approximately
~38 kg CO₂

Emission & Recycles 17 kg of MLP Waste



PALLET
stack, store, protect, transport

#SustainableProducts #MLPRecycled

www.shaktiplasticinds.com



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Factory Locations

Maharashtra, India

Gujarat, India

Madhya Pradesh, India

Delhi, India

Dubai, UAE

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