



**Makers of
Placstone™ Eco-Construction PRODUCTS
and The Flipflop Dhow**

www.regenerationafrica.com

Malindi Kenya

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Regenerationafrica Conservation Entrepreneurship

Cleaning the Environment by Regenerating Trash to Treasure

Executive Summary

Thousands of ocean species are threatened by plastic pollution in the ocean. These improperly disposed waste plastics threaten the health of the ocean itself. Humans depend on the ocean for food and its healthy ecosystem that maintains the balance of the greenhouse gas CO₂. A healthy ocean equals a healthy planet. Unfortunately the ocean has been invaded by man made plastic "virus" for which an antidote is urgently needed. A sustainable systematic elimination and a systemic prevention antidote is critical for the cure. It is critical enough that the member nations of the UN have called an urgent "call to action" on this matter-SDG14.

Regenerationafrica's sustainable conservation entrepreneurship system can be a key component to the solution. The system starts with community and grass roots recycling and education components, followed by poverty reducing self employment, recycling franchisee opportunity for youth and women and ending with a large scale manufacturing of eco-construction products that creates employment and a high demand of recycled plastic from the system.

This ocean cure requires a daily dose of plastic removal from Africa's coastline. The daily collection at the local level is led by community based groups trained in recycling. Local Regeneration Recycling Franchisees business is to organize, motivate, educate, buy and collect the materials. Using the franchisor system, they sort, shred and wash the plastic, adding market value to it. Regeneration factory will pick up and buy the plastic providing the franchisee a direct and reliable market.

From the recycled plastic, Regenerationafrica's factories make Placstone Products which provide cost effective, long lasting, quality construction materials that are unique in that they are composites of various plastics and various fillers from local materials such as sand, saw dust and coconut fibers. These recipes create very strong (some as high as 2.8 times stronger than concrete) products. Regeneration has been producing these innovative new products for two years after a 2 year development period. It has provided fencing posts to ranchers, schools across the country, city road signage to municipalities and is currently engaged in making the parts to the first ever recycle-plastic dhow. The Flipflop dhow will sail from Lamu to South Africa upon completion.

Regenerationafrica regenerating system can play major role curing for the African plastic waste management problem at the coast and inland.

Regeneration System

- Reduces Ocean Plastic Waste
- Uses Local community organizations for collection
- Creates local jobs
- Creates Conservation Entrepreneurs-Regeneration Recycling Franchises
- Creates proven recycling systems
- Provides consistent product market
- Provides logistics to market
- Manufactures a variety of long lasting construction products

COLLECTING THIS



PREVENTS THIS

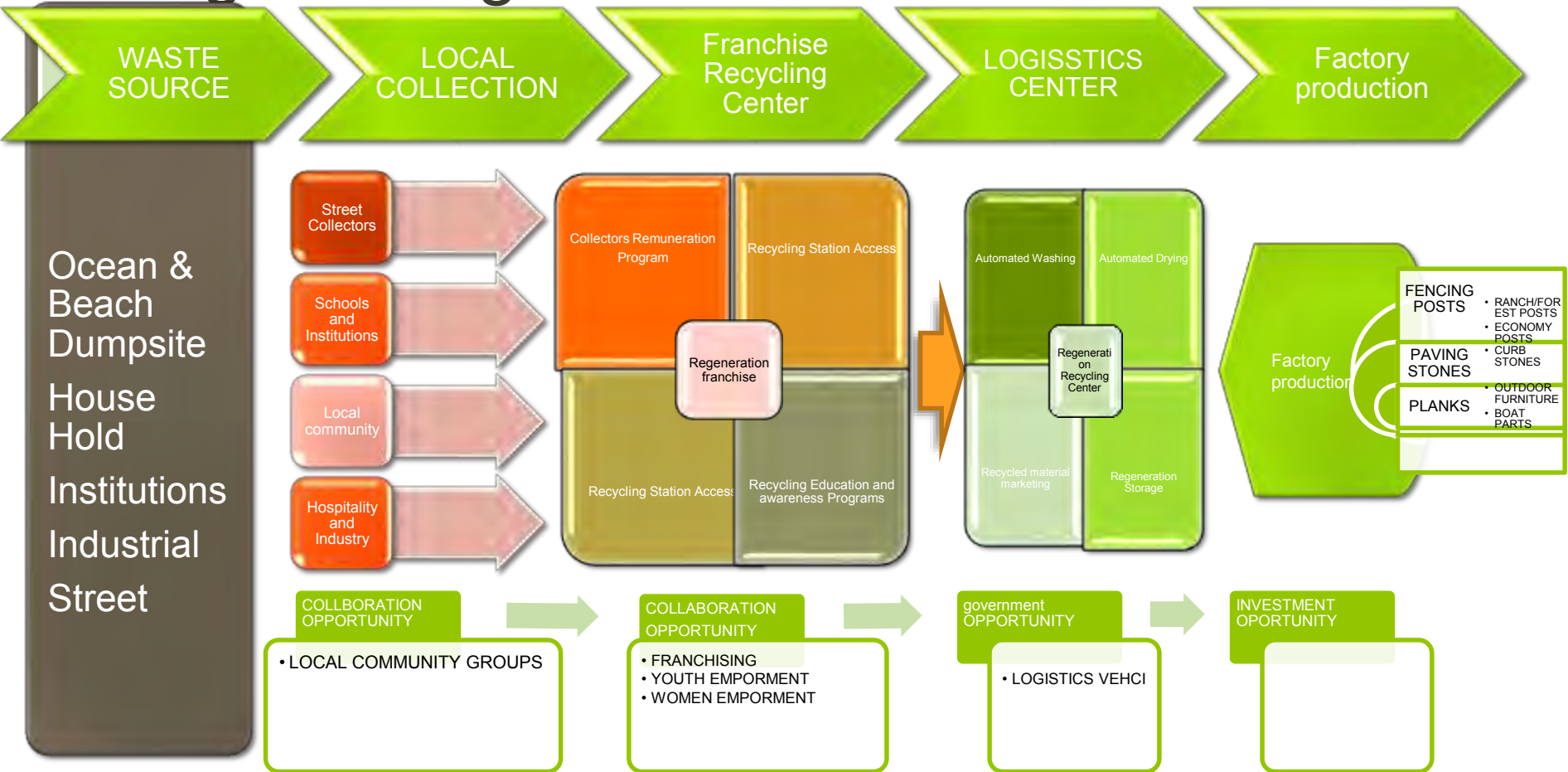


MAKES THESE



Regenerationafrica.com

Regenerating Trash to Treasure Flow Chart



From This

To This



WATAMU Beach Clean up Plastic waste



*Plastic waste regenerated into
eco-construction products in Malindi, Kenya*

THE REGENERATION INNOVATION



**INGENIOUS USE OF
RECYCLED PLASTIC
PLUS SAND**



**TO MAKE
Eco-Construction
Products**

Regeneration Franchise Recycling Centers



**COMMUNITY
COLLECTION
SYSTEM**



**CRUSHING
INTO FLAKES**



WASHING

Regeneration Factory Production Team



EXCEPTIONAL TEAM



DIRETOR: SAMUEL NGARUIYA



DIRECTOR: LILIAN MUNGAI

Exceptional People Exceptional Results

iRecycle for Regeneration

Introducing **Placstone**™

Eco-Construction Products



Placstone Products have the feel and strength of concrete products

Placstone Products are made using:

- **unique blend recycled plastic**
 - **river sand**
 - **aggregates**
 - **recipe of polymers protectors**
 - **Hardeners**
- all processed in a non-flame way**

ADVANTAGES AND BENEFITS OF PLACSTONE PRODUCTS

PLACSTONE PRODUCTS:

- ✓ DO NOT RUST
- ✓ DO NOT ROT
- ✓ DO NOT ABSORB WATER
- ✓ ARE NOT VANDALISED FOR METAL SCRAP
- ✓ ARE NOT DESTROYED BY PESTS, TERMITES OR RODENTS
- ✓ ARE FIRE RESISTANT
- ✓ HAVE HIGH STRENGTH
- ✓ CAN BE NAILED
- ✓ CAN BE COLORED
- ✓ CAN BE DRILLED
- ✓ MADE FLEXIBLE SIZES AND SHAPES
- ✓ ARE EASY TO CLEAN
- ✓ CLEANS UP ENVIRONMENT
- ✓ COST EFFECTIVE



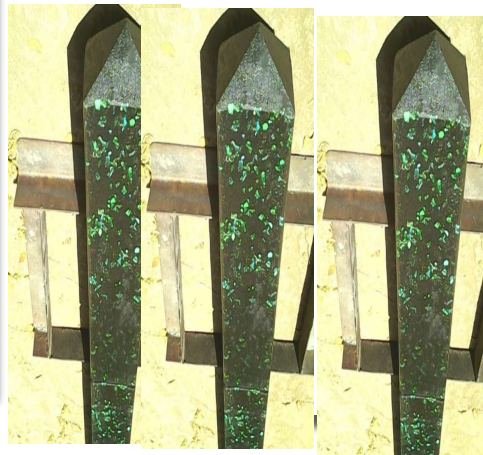
RANCH & GAME FENCING

Eco-Construction Product

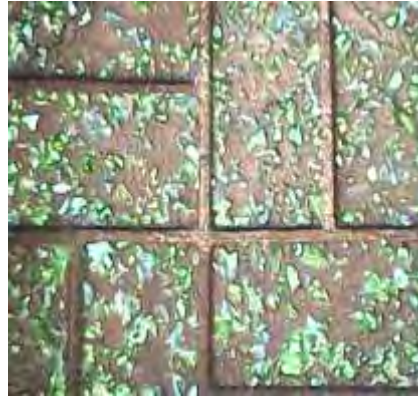


- Excellent for electric Ranch and game fencing
- SIZE:150mmX150mm(6"X6")
- 3 meters(10ft) high
- High flexural(breaking) strength 2.5 times higher than concrete
- LONG LIFE -Can last for decades
- NO ROTTING
- NO termite destruction
- Can be drilled
- Can be nailed
- Can be cut
- Low electrical conductivity

FENCING POSTS



PAVING BLOCKS

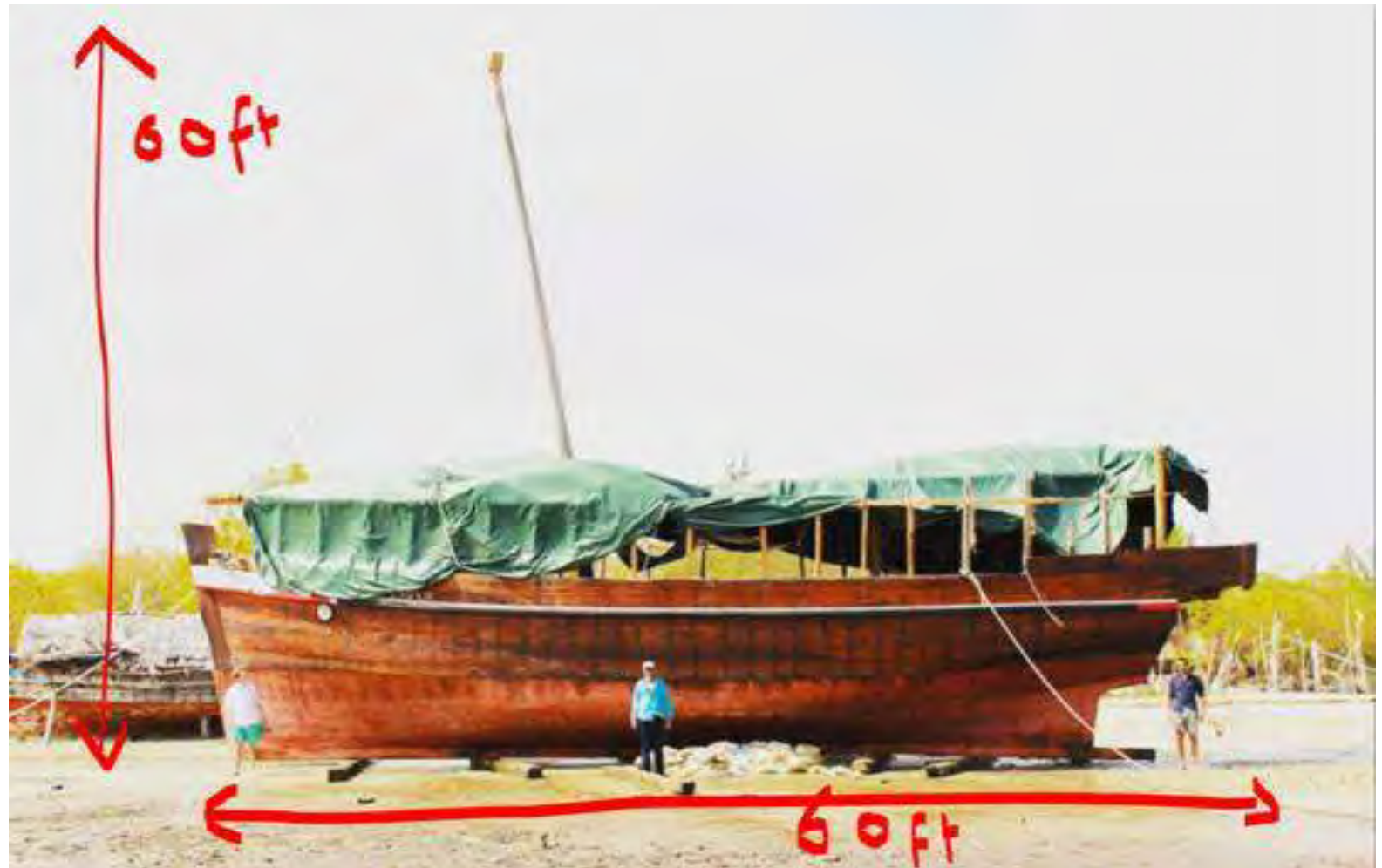


Recycling
Bins and
Road Name
Signs



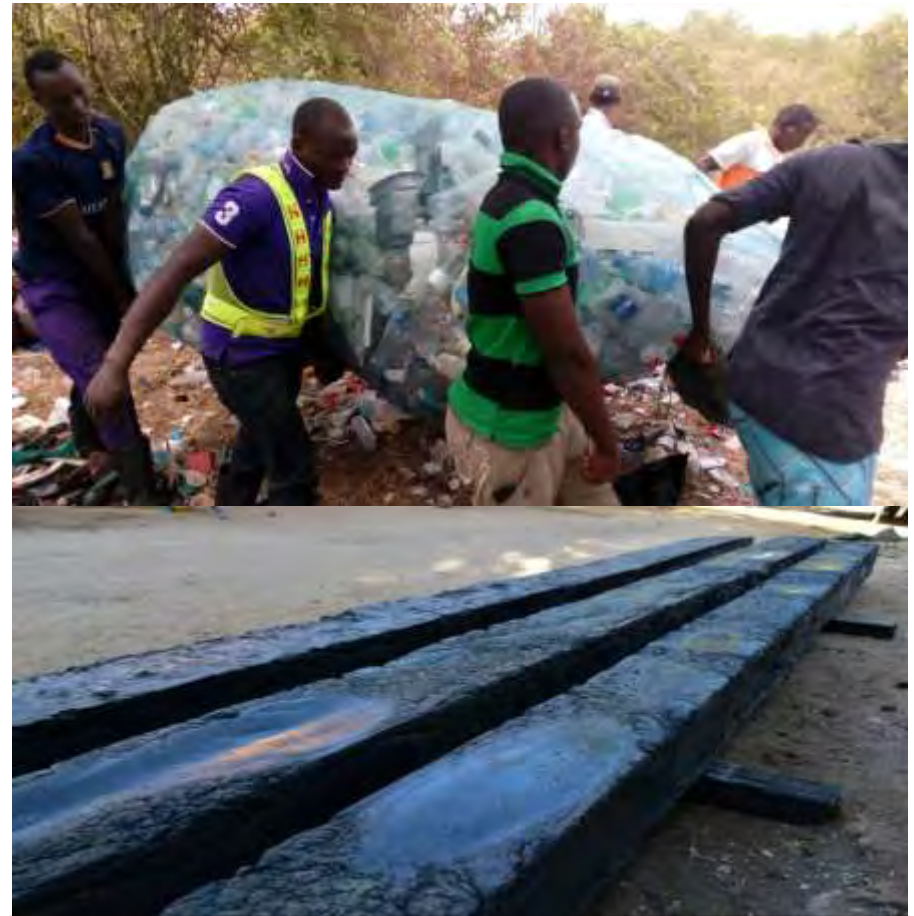
FLIPFLOPI EXPEDITION

THE FIRST SHIP MADE OF RECYCLED PLASTIC





FLIPFLOPI DHOW IS SAVING HUNDREDS OF TREES BY BEING MADE FROM RECYCLED PLASTIC



**It takes 8 to 50 years to grow and dry trees for making a traditional dhow
The Flipflopis Dhow will save over 120 trees including mature 50 year old trees needed for the large parts**

Placstone™
Eco-Construction PRODUCTS
MALINDI, KENYA



**THANK YOU FOR CHOOSING
REGENERATION**

www.regenerationafrica.com

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REGENERATION ENVIRONMENTAL SERVICES LTD