PLASTIC ODYSSEY
FACTORIES.

Fighting Plastic Pollution at Scale.

Transforming Local Waste into Local Wealth



PLASTIC ODYSSEY FACTORIES.

BORN AT SEA

Plastic Odyssey Expedition .

A floating plastic recycling Lab promoting land-based Solutions one country at a time



Plastic Odyssey Flagship vessel

Itinerary of the Expedition

Plastic waste on land

Regions most affected by plastic pollution

PLASTIC ODYSSEY FACTORIES.

TODAY, ON LAND

A global network of decentralized factories.

14 factories

9 countries

200 formal jobs

2,000 tonnes / year



- Close to the waste
- Locally maintainable machines
- Trained local operators

PLASTIC ODYSSEY FACTORIES.

OUR SOLUTIONS

Two complementary Factories .



Output: clean flakes



Output: durable products

CDF Collect & Densification Factory

- Wash, dry and densify plastic
- Cheap to ship to recyclers

PTF Plastic Transformation Factory

- Turn flakes into local products
- Lumber, pavers, tiles, furniture

Start small. Add Transformation when market is proven.

COLLECT & DENSIFICATION FACTORY

The CDF .

From bulky waste to clean flakes.

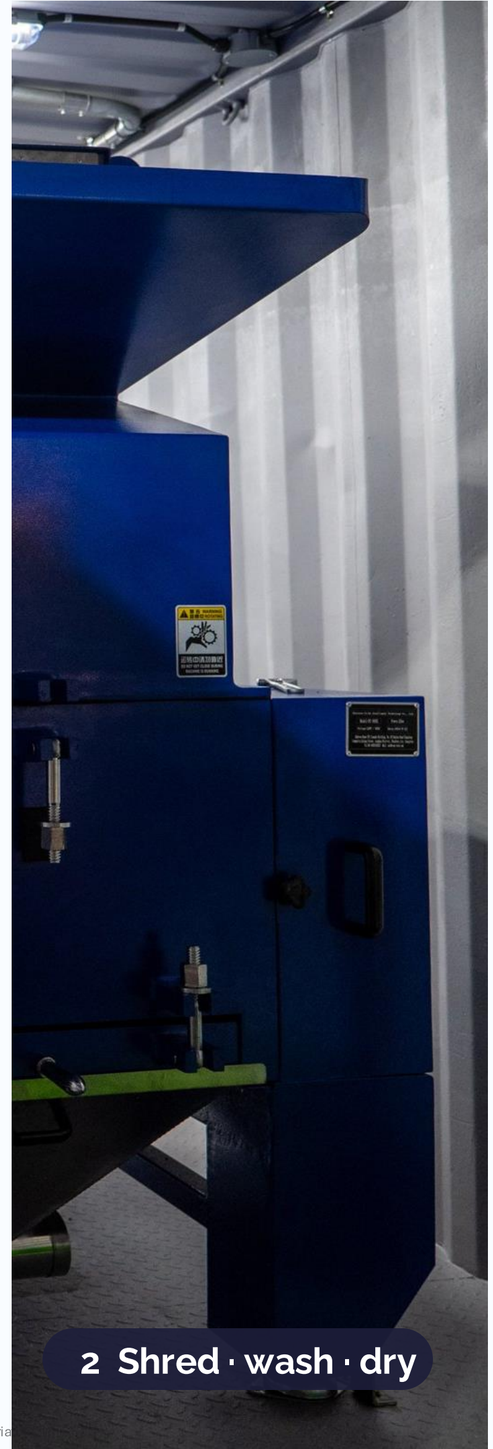
50 m² footprint

15 days install & training

1 200 kgs / Day

- Equipment in 20ft container
- Closed-loop water treatment
- Low-value plastic streams







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Containerized extrusion line

PLASTIC TRANSFORMATION FACTORY

The PTF .

4 processes: extrusion, plastic-sand, sheet press, injection



Lumber & furniture



Pavers & flooring



Logistics & building products



Coastal infrastructure

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TURNKEY SUPPORT

Delivered with an operating system .





01

Assess

Waste, market, site

02

Deploy

Sizing, install, commissioning

03

Train

Operations, maintenance, QHSE

04

Operate & grow

Support, products, impact

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PLASTIC ODYSSEY FACTORIES.

TRACK MATERIAL FLOWS AND VERIFY IMPACT

From waste collection to buyer: auditable material flow .



01 Geolocated collection record

02 Collector identification

03 Weight and material classification

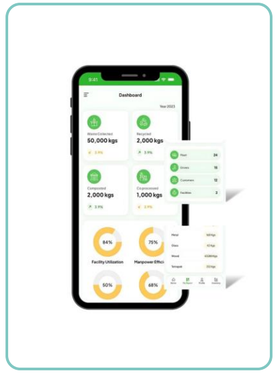


04 Processing - batch tracking



05 QR-linked output and delivery record

06 Impact dashboard and certificate



POF's traceability system combines internal monitoring with blockchain-enabled verification.

FIELD REFERENCE

Case 1 - Banco, Senegal .

Complete PTF since 2024

500 t
per year capacity

20
local jobs

50
partner schools

60%
solar electricity

Build supply, products and demand together.



Banco, near Saint-Louis



Lapu-Lapu, Cebu

FIELD REFERENCE

Case 2 - Cebu, Philippines .

Fast island pilot

2 months to build & deploy

- Lapu-Lapu, Cebu
- Local engineers & operators
- Lumber for community use

Standard means fast and scalable.

INDICATIVE FIGURES

Indicative economics and deployment logic .

	CDF (20 ft)	PTF (40 ft)	Full Factory
Input	Scrap plastics	Plastic flakes	Scrap plastics
Primary output	Clean, dry flakes	Market-ready finished products	Market-ready finished products
Indicative equipment package	**Approx. $100,000**	**Approx. $120,000**	**Approx. $220,000**
Indicative total financing need	**Approx. $200,000**	**Approx. $220,000**	**Approx. $350,000**
Nominal processing capacity	150-200 kg/hour	Up to 150 kg/hour, depending on process	Up to 150 kg/hour, depending on process
Typical formal jobs	5-10	10-15	15-20

All figures are indicative. Final economics depend on feedstock, logistics, energy, utilization, selling prices and off-take agreements.

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PLASTIC ODYSSEY FACTORIES.

WORKING TOGETHER

From assessment to scale-up .

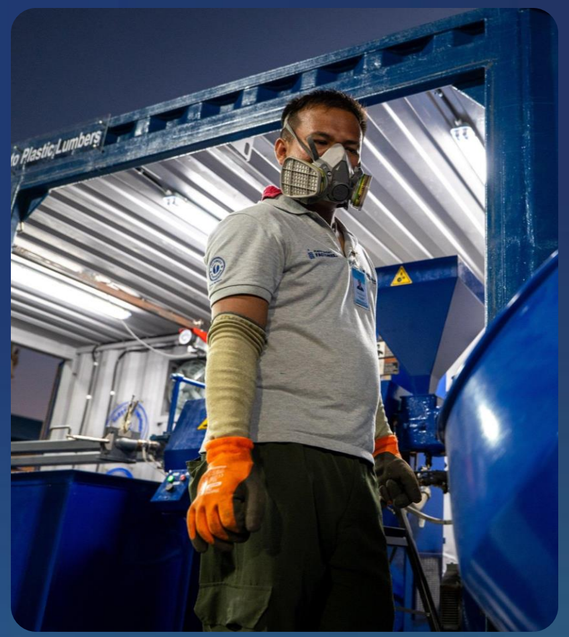
01 Explore
Pick a priority territory

02 Co-develop
Validate site, market & financing

03 Pilot
Deploy a CDF or PTF with KPIs

04 Replicate
Scale to hub-and-spoke

Next step: pick one geography and design a pilot together







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FACTORIES.

THANK YOU
for your attention.

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Collect & Densification Factory - CDF ©

Turnkey pre-processing unit

Scan for the CDF brochure



Plastic Transformation Factory - PTF ©

Turnkey extrusion line

Scan for the PTF brochure