

The background of the slide is a photograph of two dolphins leaping from the water. They are captured in mid-air, with their bodies curved and tails still in the water, creating a splash. The water is a clear, light blue-green color, and the sky above is a pale blue with wispy white clouds. In the distance, a small island with palm trees is visible on the horizon.

“The miracle of abandoned pet bottle for Preserve the Whale’s dream”

A case study on the construction of the
Marine environment model for port through
Reduction of marine plastic and upcycling

Dead whale washed up in Philippines had 40kg of plastic bags in its stomach

Marine biologists horrified to find 16 rice sacks and multiple shopping bags inside Cuvier's beaked whale



▲ Darrell Blatchley pulling plastic out of the juvenile male Cuvier's beaked whale. Photograph: Darrell Blatchley/D' Bone Collector Museum Inc.



Marine Plastic



Causes of destruction of Marine Ecosystem

OCEANS WILL HAVE

By 2025:

1 tonne of plastic for
3 tonnes of fish



By 2050:

1 tonne of plastic for
1 tonne of fish



Our Responsible for polluting the sea

SHIP



Seafarers' Environment perception problem

PORT



The problem of garbage collection at port

The beginning of action for the ocean, Who together...?

What can we do for **the ocean**?



Public
institution



Ulsan port
environment
protection

Major
company



Environment
protection
campaign

Social
enterprise



Social mission:
Whales
protection

International
organization



Ocean
cleanup
activities

Proceed marine environment protect project

Discussion meeting and cooperative system establishment

Feb, Upcycling check



Upcycling expert discussing:
Ship waste plastic
can be upcycled(Cotton)

Mar, Collection plan



Ulsan port Ship garbage
collect company(10)
Collaboration

April, MOU



UPA 울산지방해양수산청
Establish policy

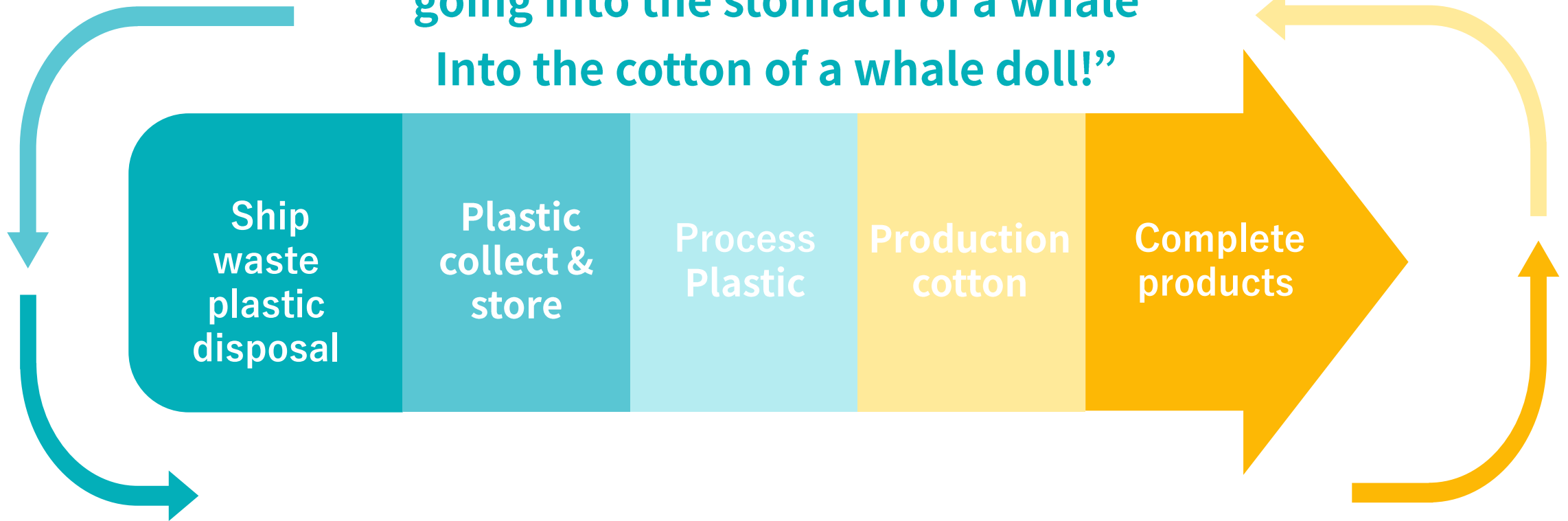
SK energy
Promotion

(주)우시산
Upcycling goods
production

UN environment
Case spread

The procedure upcycling for ship waste plastic

“To turn the plastic that was
going into the stomach of a whale
Into the cotton of a whale doll!”



Ship waste plastic disposal rule of Ulsan port(ship store)



Previous

Mixed plastic



Make a rule



Present

Only plastic bottle

Ship waste plastic disposal rule of Ulsan port(disposal)



Unable to distinguish between general waste and recyclables

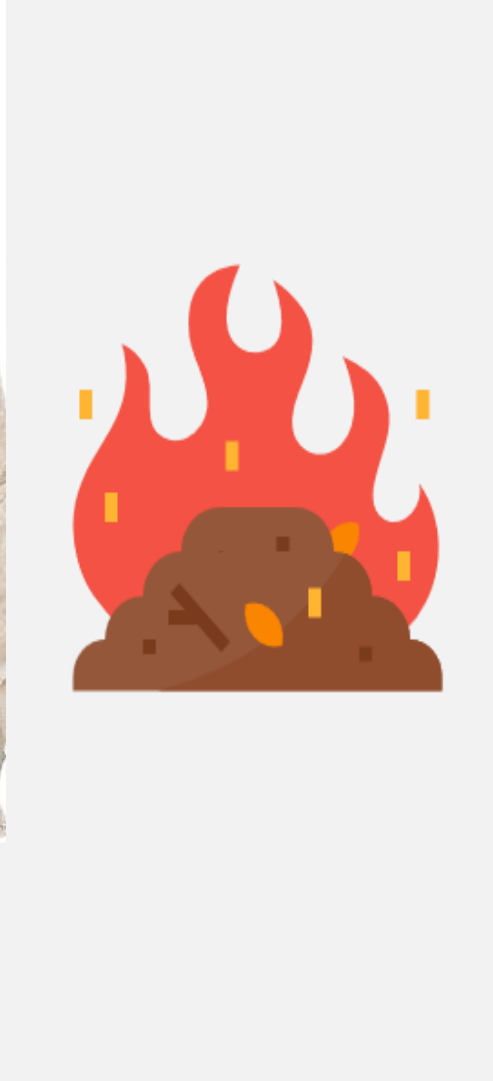


Burn everything

Ship waste plastic disposal rule of Ulsan port(disposal)



**Yellow bag:
General waste**



**Green bag:
recyclables**

Efforts of the Ulsan Port Community

Ship
company



Environmental awareness
improvement training

Agent



Policy guidance for
Ulsan port entry ship

Port
Company



Collect
Company



Plastic collect & store

Procedure Upcycling



Plastic store(in pier)



Production cotton



Doll sewing

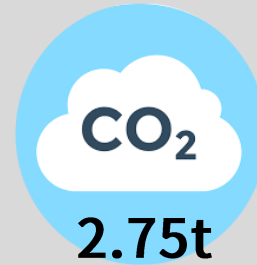
Upcycling goods



Upcycling, New social value creation



**Economic
effet**



Carbon emission price: 65\$



Incineration cost
300\$



Economic value



365\$

Upcycling, New social value creation



Environmental
effect

46800

The number of
bottles used to make
2,300 whale dolls

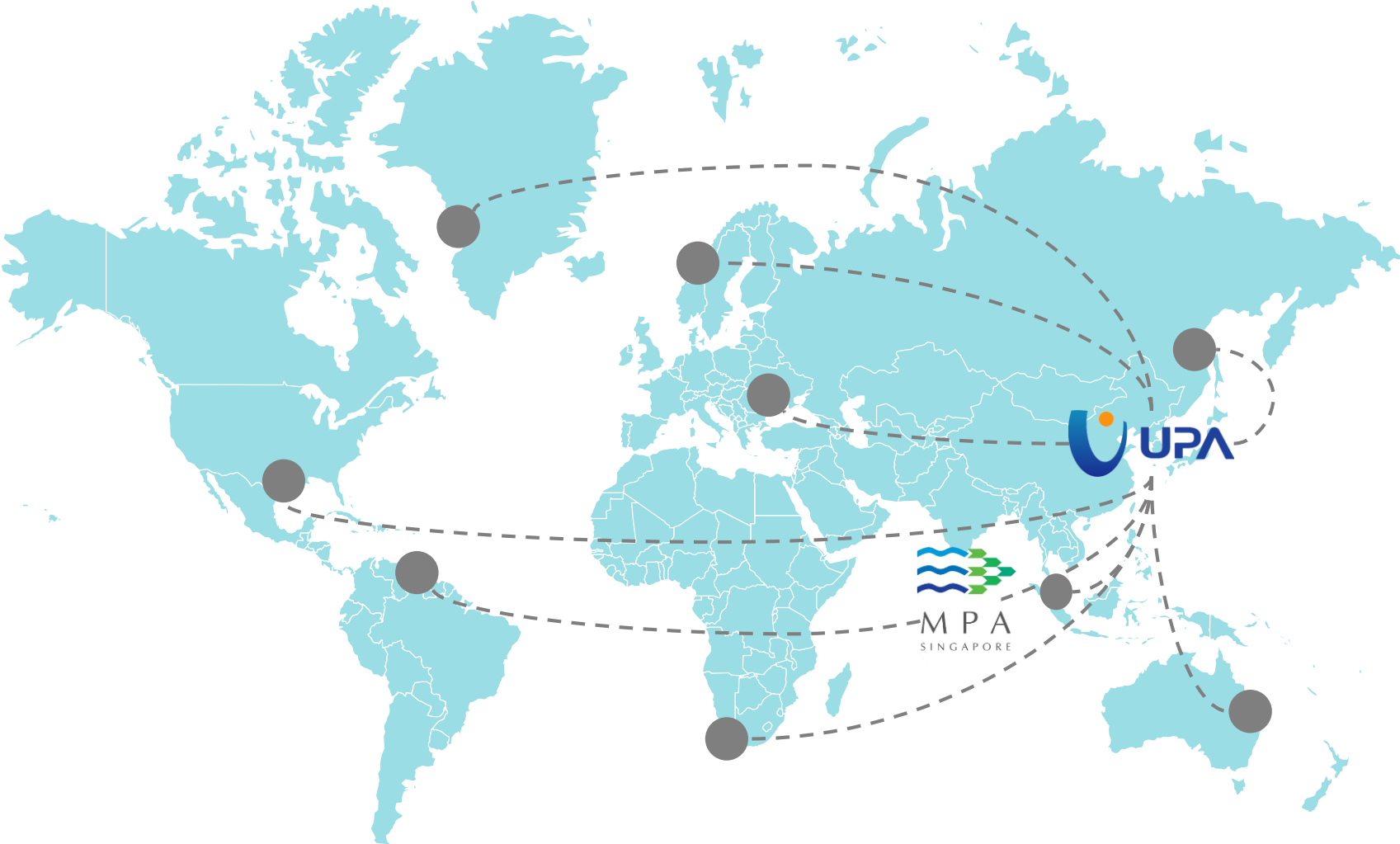


1 crew
1 day
1 bottle used



Bottle used by **390**
crews in 4 month was
born as a whale doll

Collaborate with Port Authority





Suggest to MPA

1. Join the project together

- If the Singapore port were to participate in our project, it could spread to more ships.**

2. Use whale dolls for souvenirs

- Use whale dolls as symbols of marine environmental protection**

What's your choice?



Save The Ocean
Save The Whales



Thank you

