



Healthy Oceans, Blue Economies and Urban Development

Why GMS Oceans are Critical for the World

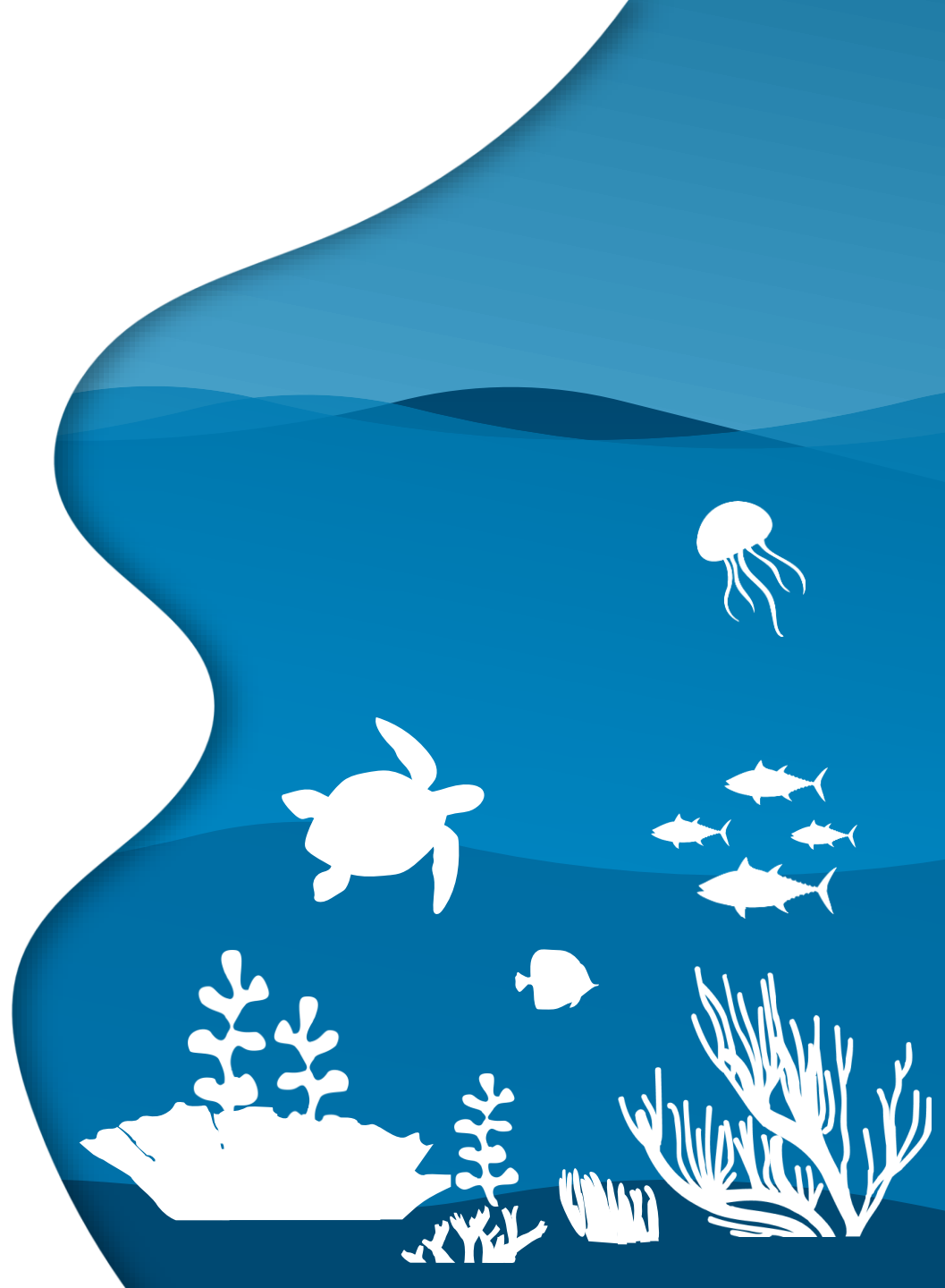
- Life Supporting Services
- Biodiversity
- Food Security
- Climate Mitigation
- Connectivity



Why Healthy Oceans are Critical for the GMS

Food Security

- Main source of animal protein for GMS
- High nutritional value
- Essential to poorer coastal communities



Why Healthy Oceans are Critical for the GMS

Continued Economic Development

- Fisheries and tourism provides millions of jobs in GMS
- Ocean economies contribute significantly to GDPs e.g. 19 % for Viet Nam
- Asia account for 80% of global aquaculture, and around 60% of the world's capture fisheries
- Fish production fastest growing food industry for past 40 years. Demand for seafood continues to rise.
- South-east and north-east Asia experiencing fastest growth in tourism. Globally, 80% of tourism occurs in coastal areas.



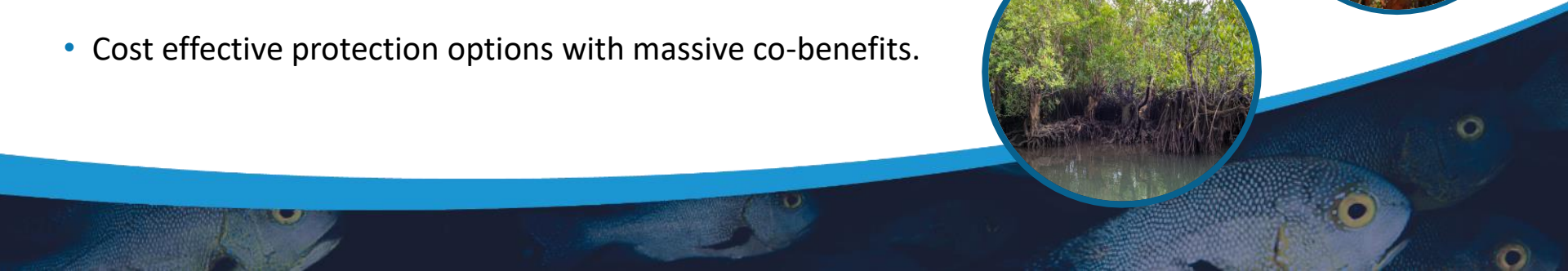
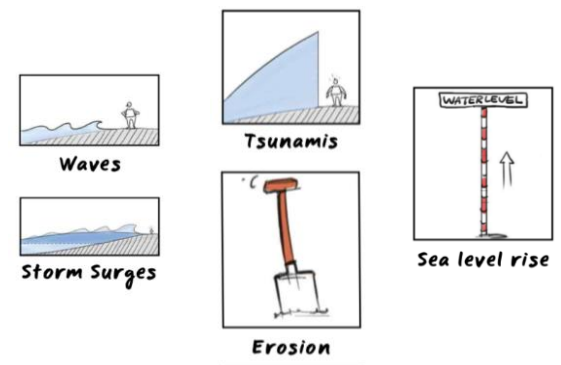
Why Healthy Oceans are Critical for the GMS

Coastal Protection

- GMS countries: high exposure + large populations in low-lying areas = extremely vulnerable to climate change.
- Rising seas could affect 3 times more people by 2050 than previously thought e.g. 10 % of Thailand's and 25 % of Viet Nam's population inundated. Coastal erosion, extreme weather events, storm surge and coastal flooding are all increasing.
- Healthy coral reefs and mangrove forests act as natural buffers.
- First line of defense for coastal cities and infrastructure, and vulnerable communities living in the lowest-lying and least safe areas.
- Cost effective protection options with massive co-benefits.

The New York Times

Rising Seas Will Erase More Cities by 2050, New Research Shows



A healthy reef absorbs **97%** of wave power.

A **DEGRADED REEF** absorbs much less of the wave's power,
Instead allowing the wave's energy to ravage the shoreline.

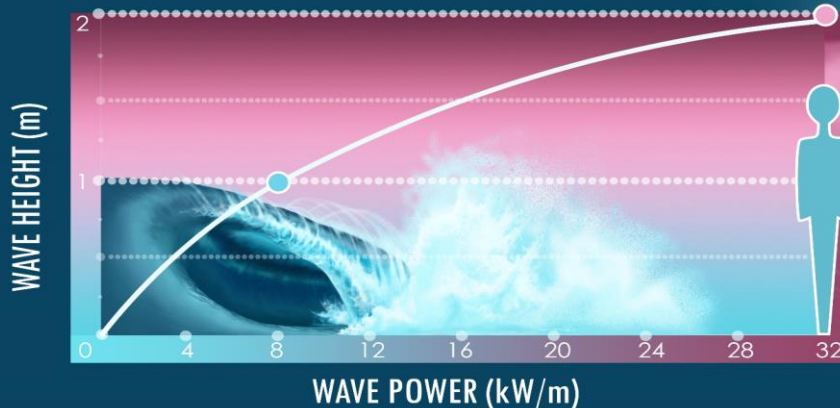
10-YEAR Flood Level with a **DEGRADED REEF**
10-YEAR Flood Level with a **HEALTHY REEF**
BASELINE Water Level

↓ 1m \approx **↑ 4x** \mathcal{P} \approx **↑ 2x** \$
reef height wave power flood damages

A 1 meter decrease in reef height will quadruple wave power, **DOUBLE** the cost of flood damages globally, and cost the USA more than \$1.8B annually.

Preserving reefs can mitigate this risk and save **BILLIONS** of dollars annually.

A taller wave has exponentially more power.





Ocean Health Trends

Size of marine species populations halved in 50 years

Death of up to 90% of coral reefs by 2052

No exploitable wild fish stocks for commercial fishing by 2048

Plastic entering the human food chain
Increasing dead zones

Closures of popular tourism sites

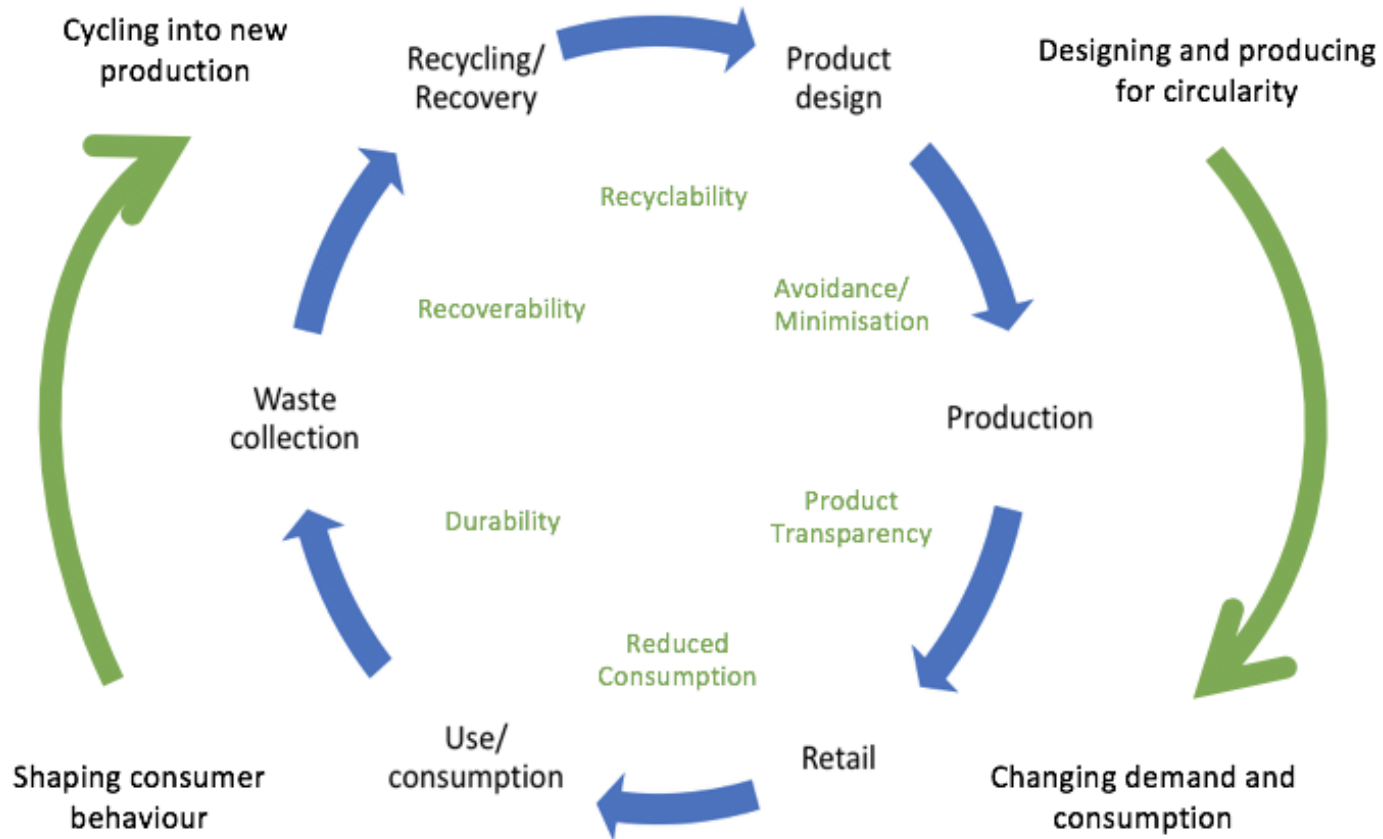
Massive economic loss

Widespread collapse of ocean ecosystems

Source to Sea



Circular Economy



ADB's Action Plan commits to expanding investments and technical assistance in ocean health and the blue economy to **\$5 billion** between 2019–2024

Focus Areas



**Blue
Economy**



**Ecosystem
Management**



**Pollution
Control**



**Sustainable
Infrastructure**





Healthy Oceans Action Plan: Priority Programs

Project name	Promoting Action on Plastic Pollution from Source to Sea in Asia and the Pacific (Reg: South East Asia focus)
Objective	To help DMCs reduce marine plastic pollution and restore river and ocean health.
Amount	\$5.7 million, 3.5 years starting 2020
Proposed solutions	<ul style="list-style-type: none">• Multi-stakeholder action planning to identify and prioritize actions from “source to sea”• Advisory services for policy and regulatory reform to accelerate circular economy• Support for upstream investment preparation• Small-scale demonstrations of integrated SWM (with ‘reduce, reuse, recycle)• Analytical research on infrastructure, technology and investment needs• Promotion of innovation and technology, knowledge-sharing and regional cooperation
Partners	UN Environment, US Environmental Protection Agency, Global Plastic Action Partnership, Stockholm International Waters Institute, World Bank



Healthy Oceans Action Plan: Priority Programs

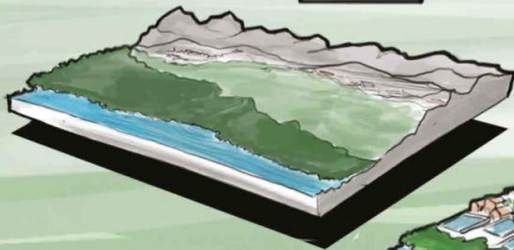
Project name	Greening Major Seaports (Reg: Indonesia, Thailand, Viet Nam)
Objective	Promoting sustainable and higher quality connectivity.
Amount	\$1 million (RCIF)
Proposed solutions	<ul style="list-style-type: none">• Regional approach of agreed standards and objectives by port authorities in air quality management including GHG emissions, water quality management; and solid waste disposal.• Peer to peer learning and establishment of best practice to align and improve implementation of standards.• Technical support to port operators in preparing sustainable and bankable projects that help them attain green objectives.



Healthy Oceans Action Plan: Priority Programs

Project name	Enhancing Coastal Protection and Ecosystem Resilience in Asia and the Pacific (proposed for 2020)
Objective	Enhancing the protection and resilience of vulnerable coastal cities, communities and infrastructure. Protecting and restoring critical coastal ecosystems.
Amount	\$2 million (indicative, for initial technical assistance)
Proposed solutions	<ul style="list-style-type: none">• Coastal protection planning and prioritization• Implementation of measures to protect and manage critical coastal ecosystems• Preparation of options analyses, pre-feasibility studies and concept designs• Pilot demonstrations of nature-based and integrated (hard engineering and soft) solutions• Knowledge-sharing and capacity building, and use of latest science, technology and engineering innovations• Mobilization of finance, including through innovative instruments

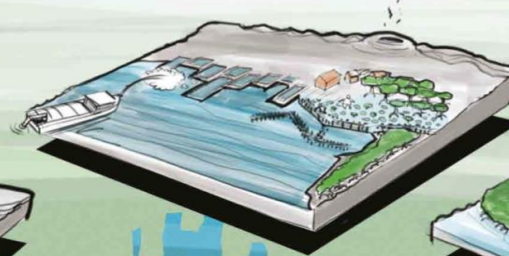
NATURAL



WISE USE



RESTORATION



URBAN





OCEANS FINANCING INITIATIVE

ASEAN Catalytic Green Finance Facility

- Capitalized to \$1 billion
- 11 partners
- \$350 pledged by Republic of Korea, plus \$5 million TA with special focus on ocean health projects, to support:
 - development of innovative financing models for investments
 - catalyzing private capital into green infrastructure projects for oceans health
 - structure and preparation of green/sustainable infrastructure projects
 - capacity building and knowledge exchange on blue finance

Exploring Innovative Models to Catalyze Finance

Marine and Fisheries Financing Institution (Indonesia)

Partners: Government of Indonesia, RARE

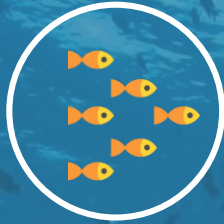
Public Private Partnerships for Coral Reef Insurance in Asia and the Pacific (Indonesia, Philippines, Solomon Islands, Fiji)

Partners: Governments, The Nature Conservancy, UNDP, private sector

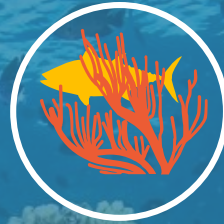
GMS Urban Opportunities



Integrated Coastal
Zone Planning



Sustainable Blue
Economies



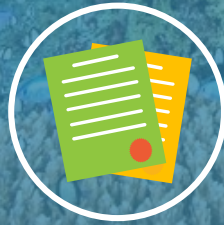
Nature-based
and Integrated
Protection



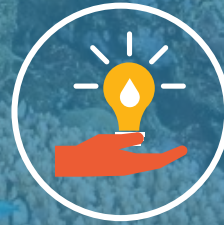
Green Ports



Circular Economy
and 'Source to Sea'
Pollution Control



Policy Reform



Knowledge
Sharing



Regional Planning
& Investment

A tropical beach scene with palm trees, children, and a boat in the water, overlaid with a blue gradient and the text "THE FUTURE IS BLUE". The image shows a sandy beach with several children walking along the shore. In the background, there are palm trees and a small boat in the water. The sky is blue with some clouds. The text "THE FUTURE IS BLUE" is written in white, bold, uppercase letters across the center of the image.

THE FUTURE IS BLUE