

# The World Bank & the Ocean

A Healthy & Productive Ocean to Help Reduce Poverty

### Why oceans matter to the World Bank

**NUTRITION** Seafood provides 16% of the world's animal protein

1 billion people in developing countries rely on seafood for their primary source of protein

**ECONOMIES** 61% of world GNP comes from within 100 km of coast

THE REAL PROPERTY OF

Tourism is in the top five industries in most island states

Seafood is the most traded agricul. product from developing nations Resilience to Climate Change Impacts Habitats protect coastal communities and cities from storms, floods and sea level rise

LIVELIHOODS 97% of fisheries & aquaculture livelihoods occur in developing countries

### We cannot end extreme poverty without healthy oceans

#### West Africa fisheries

- Over 1.6 m tons/yr fish
- Over 3.2 m livelihoods
- Almost 10% GDP in Guinea-Bissau & Sierra Leone
- Over 40% animal protein intake for Gambia, Ghana, Guinea, Senegal & Sierra Leone

#### **Pacific Islands Tuna**

- Supplies 1/3<sup>rd</sup> of the world's tuna
- Worth over \$4 bn/yr
- Over 25% of annual public revenues for a number of Pacific Island countries

#### **Coral Triangle**

**COL** 

- 76% of all known coral species
- More than 120 million people in the region depend directly on marine resources for income, livelihoods and food
- Reef-related fisheries in Philippines and Indonesia alone valued at around \$2.2 bn/yr

astal/island client

Countries incl. ocean area

64% of the total territory of our 54 los

Low income (GNI/cap < \$1,035) Lower-Middle Income (GNI/cap \$1,036 - \$4,085) Upper-Middle Income (GNI/cap \$4,086 - \$12,615) High Income (GNI/cap > \$12,616)

### Human impact on the ocean is growing ...



Map of Human Impact on Ocean Ecosystems

Source: Conservation International, from Halpern et al. 2008

Map shows areas where pressure on the ocean is greatest: from destructive fishing, pollution, climate change

### ...representing serious threats to development

### Overfishing

- **30%** of the world's fisheries overexploited, depleted or recovering from depletion
- \$50 to 100 bn lost economic potential every year from ocean fisheries mismanagement
  Sources: FAO, 2012; World Bank & FAO, 2009

Habitat Loss

- **60%** of world's major marine ecosystems are degraded or being used unsustainably
- Est. **30 35%** of sea grasses, mangroves and coral reefs destroyed
  Source: UNEP, 2012

### **Pollution**

- **80%** of ocean pollution comes from land: mostly from agriculture run-off from fertilizers and pesticides, waste-water and plastics
- Only **10%** of wastewater in developing countries is treated
- Result: **405** ocean dead zones, covering 95,000 sq. miles

Sources: UNEP, 2012; Corcoran et al, 2010; Diaz & Rosenberg, 2008



# Healthy oceans are vital to fighting climate change



## **Ocean change is climate change**

#### Ocean warming...

- 0.6°C increase in avg ocean temperature since 1950
- Coral reef habitats will almost certainly not survive a 4°C world

Source: Hoegh-Guldberg, 2013

#### And acidification.

- Increased uptake of atmospheric CO<sub>2</sub> has decreased ocean pH from 8.2 to 8.1; at current rate a further decrease to 7.7 or 7.8 projected by 2100
- This is fundamentally changing the chemistry of the ocean

Source: UNEP, 2012

#### **Ocean Change will further Climate Change**

- At current rate, most coastal blue carbon sinks will be lost in 20 years, leading to a loss of annual carbon binding capacity equivalent to 4 - 8% of total anthro. input
- As a result, total C emissions would need to be reduced by an additional 4 - 8% by 2030 to retain status quo, or 10% by 2050
  Source: Nellemann et al., 2009



### **Countries have a lot to gain...**

Reforming and strengthening institutions can lead to more sustainable and productive ocean use.

A global governance framework – UNCLOS – is in place. The problem is lack of implementation. This is where the opportunity is.

**For example:** Pacific Island Countries could gain an additional \$250 m/yr with stronger and more efficient limits on tuna catch – we are currently working with them to help.



# We are working globally to rebuild ocean health

**India:** Over 6,000 ha of mangroves planted; 90,000 km<sup>2</sup> of coast surveyed aerially to identify important habitats; work has begun to stop flow of over 100 m liters/day of untreated sewage into the ocean



**Indonesia:** Since 2005 worked in 385 villages with over 10,000 people to improve management of 1 million hectares of coral reefs in 7 coastal districts, with 60% decrease in destructive fishing practices over 6 years.

West Africa: Countries are starting to reduce rampant illegal fishing: since 2010 Liberia has cut illegal fishing in half, and the Government has collected almost \$6 m in fines. Sierra Leone has arrested 14 vessels and collected over \$1.5 m in fines – in some fishing communities catches have increased by 40%.

## And client demand is growing...

Since 2005 the Bank has grown to become one of the biggest public investors in a healthy ocean, with an active portfolio of \$6.4 billion



### Scaling up: the Global Partnership for Oceans



- We are making a difference but it's not enough.
- We estimate that investment of around \$100 bn will be needed by 2030 just in aquaculture; and at least another \$500 bn in pollution reduction is needed now
- No one organization can do this alone we need greater speed and scale to solve these problems – this is a global challenge demanding global collaboration
- This is why we launched the GPO at Rio+20 in June 2012 as a platform for much more finance and collaboration.



## **10-year objectives**

- Help rebuild the world's overfished stocks, and increase sustainable aquaculture production
- Cut current rates of ocean habitat loss in half
- Significantly reduce pollution into the oceans



## A coalition of 144 partners and growing



