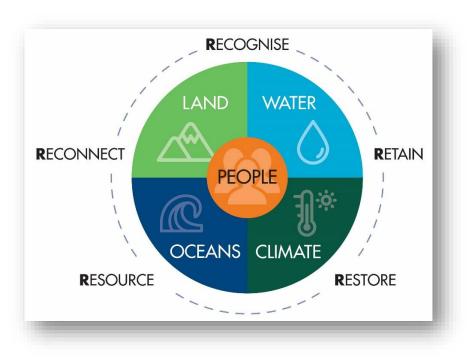


### Harmonizing Oceans: Transboundary Strategies for Climate Resilience

Strengthening management effectiveness of Marine Protected and Conserved Areas through Regional Transboundary Partnerships

> East Asia Seas Congress 2024 7<sup>th</sup> November 2024

Maeve Nightingale <u>Maeve.Nightingale@iucn.org</u> Regional Coordinator Coastal and Marine Programme IUCN Asia IUCN



- Founded in 1948, IUCN is an inter governmental organisation and the world's largest global environmental organization.
- A unique democratic Union with more than 1,200 State and NGO Member organizations in 160 countries.
- Headquarters based in Gland, Switzerland;
- The leading provider of the latest knowledge about biodiversity, with more than 16,000 experts and scientists.
- The only environmental organisation with official Observer Status at the UN General Assembly.
- Most countries IUCN works with are state members and there are multiple other national members

# IUCN'S ROLE IN ASIA

Policy to Practice

- Support the practical implementation of Multilateral Environment Agreements; CBD, UNFCCC, SDGs etc. through national policy commitments
- Support Regenerative Blue Economy founded on SES and inclusive and equitable governance

Seascape level Spatial planning; Integrated Coastal Management, with community and co-managed area based conservation models

Indigenous People and Local Communities

- Strengthen Marine Protected and Conserved Area Management Effectiveness - MPAs and Marine OECMs
- Support restoration of degraded coastal habitats
- Address marine pollution plastic and nitrogen / eutrophication
- Promote understanding and commitment for the High Seas Treaty -Biodiversity Beyond National Jurisdiction (BBNJ)



### ASIA REGION CENTER OF GLOBAL MARINE BIODIVERSITY



### Challenges

Rapid Economic Development Exploitation of living marine resources exceeding sustainable levels - shifting pressure to marine biodiversity hotspots Increasing conflict and cumulative impacts Uneven distribution of benefits from coastal resources

Threats to local food security Impacts from climate change and pollution Poor Integrated Management

- The Asia region is recognized as the center of marine biodiversity globally, being home to 42% of the world's mangroves, and over 30% of seagrass beds
- The Indo-Pacific region accounts for 91.9% of the 284,300 km<sup>2</sup> world's coral reefs (30% SE Asia, 23% Indian Ocean)
- 600 Coral reef species in the Coral Triangle
- Countries of the East Asian Seas (EAS) region account for 80% of global aquaculture, and around 60% of the world's capture fisheries



### COASTAL AND MARINE FLAGSHIP PARTNERSHIP PROGRAMMES IN ASIA



Mangroves for the Future



Bay of Bengal Large Marine Ecosystem



Coral Triangle Initiative



Coastal Ecosystems Management – Marine Protected and Conserved Areas





Marine Plastic Pollution

#### High Seas Agenda Biodiversity Beyond National Jurisdiction BBNJ

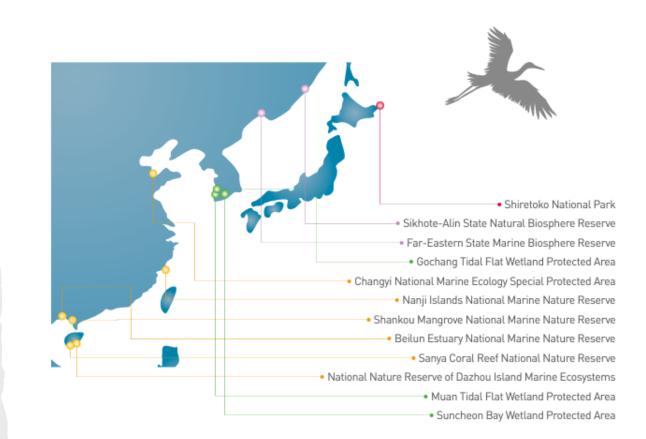
### IUCN ASIA REGION COASTAL AND MARINE PROGRAMME PARTNERSHIPS



### NORTH-EAST ASIAN MPA NETWORK (NEAMPAN)

12 Target MPAs selected by each member State in line with the Network's objectives







# ALIGNING IUCNS WORK WITH GLOBAL BIODIVERSITY FRAMEWORK (GBF) TARGETS

<u>TARGET 1</u>: Ensure that all areas are under participatory, integrated and biodiversity inclusive spatial inclusive spatial planning and/or effective management processes addressing land- and sea-use change, sea-use change, to bring the loss of areas of high biodiversity importance, **including ecosystems of high ecological integrity, close to zero by 2030, while** 

by 2030, while respecting the rights of indigenous peoples and local communities.

TARGET 2: Restore 30% of all Degraded Ecosystems

TARGET 3: Conserve 30% of Land, Waters and Seas

### MARINE PROTECTED AND CONSERVED AREAS AS PART OF BIODIVERSITY INCLUSIVE SPATIAL PLANNING



= Current Protected Areas/ Reserves

Towards 30x30 (T1 + T3)



- New Protected Area opportunities
- + Marine OECMS (ABM: Fisheries , Community Management, Private Sector)



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+ Promoting ecosystems connectivity - through integrated, biodiversity inclusive spatial planning

A TALLY STATE



Focusing on **EFFECTIVE** MANAGEMENT

# 

# **The IUCN Green List Standard**

A sustainability standard delivering inclusive conservation









# Green List Protected I Conserved Areas

4 Components

### 17 Criteria

50 Indicators – <u>adaptable to</u> <u>the national</u> <u>context if</u> <u>needed</u>

#### Good Governance

1.1 Guarantee
Legitimacy and Voice
1.2 Achieve
Transparency and
Accountability
1.3 Enable
Governance Vitality
and Capacity to
Respond Actively

# Sound Design and Planning

2.1 Identify and Understand Major Site Values
2.2 Design for Long-Term Conservation of Major Site Values
2.3 Understand Threats and Challenges to Major Site Values
2.4 Understand Social and Economic Context

#### Effective Management

3.1 Develop and Implement a Long-Term Management Strategy 3.2 Manage **Ecological Condition** 3.3 Manage Within Social and Economic Context of the Area 3.4 Manage Threats 3.5 Effectively and Fairly Enforce Laws and Regulations 3.6 Manage Access, Resources Use and Visitation 3.7 Measure Success

#### Successful Conservation Outcomes

4.1 Demonstrate Conservation of Major Natural Values
4.2 Demonstrate Conservation of Major Associated Ecosystem Services
4.3 Demonstrate Conservation of Cultural Values



IUCN Green List of Protected and Conserved Areas: Standard, Version 1.1 The global standard for protected areas in the 21<sup>st</sup> Century



### HOW DO MPAS HELP ADDRESS CLIMATE IMPACTS?

#### MARINE PROTECTED AREAS:

## BLIII DING RESILIEND **CLIMATE IMPACTS**

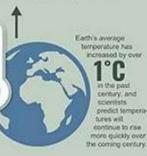




#### CARBON DIOXIDE

Increasing surface, atmospheric, and oceanic temperatures since the mid-20th century are primarily caused by human activities. especially greenhouse gases emissions. such as carbon dioxide, much of which is produced by the burning of fossil fuels.

000 888



#### **HOW IS CLIMATE CHANGE IMPACTING** THE OCEAN?

The ocean has absorbed over 93% of the excess heat has become overloaded.

#### WARMING OCEAN

RISING

SEA LEVELS

glaciers affect coastal habitats and threaten coastal communities, including many major cities.

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Sea surface temperatum has warmed by nearly 0.8°C since 1900. Warmer waters can less organ to sustain manne the, change ocean



#### OCEAN ACIDIFICATION

The coesin has become 30% more addic over the solution to be the solution of t increased carbon doxide, reducing the ability of marine kile to form shells and skeletons and affecting the coean food web.



damage both human and ecological communities. Marine heat waves (extremely warm can cause mass mortality of marino spocies.

### PROTECTED AREAS (MPAs) HELP ADDRESS **CLIMATE IMPACTS**

MPAs can play a key role in promoting climate resilience as part of an ecosystem approach to management.



resources can better withstand climate impacts and sustain lives and livelihoods

#### WHAT IS AN MPA?

MPAs are clearly defined geographic areas in the ocean that are dedicated to and misnigod for the longterm conservation of nature. together with the ecosystem services and cultural values. they provide.

2 Protect "blue carbon" habitats such as seagrasses, mangroves, and salt marshes that store huge amounts of carbon.

Protect coastlines and coastal communities from storm impacts (e.g., wetland, mangrove, and coral reef buffers).

3

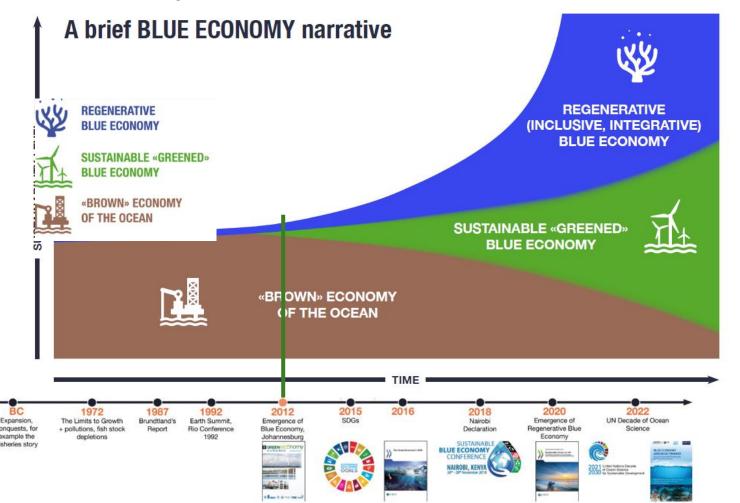
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As networks, protect species on the move due to climate impacts, and provide "insurance" if some MPA resources are harmed by climate-driven warming, disease, or storms by protecting them in other areas.

### REGENERATIVE BLUE ECONOMY

Activities that protect, repair and restore marine and coastal ecosystems



A Regenerative Blue Economy aims to develop ocean industries in a way that is inclusive of and beneficial to local communities while ensuring that ecological, economic and social needs are met and managed.

An economic model that combines effective regeneration and protection of the ocean and marine and coastal ecosystems with sustainable, low, or no carbon economic activities, and fair prosperity for people and the planet, now and in the future.

Departure from brown economy of the ocean to an anthropocentric regenerative vision for Blue Economy focusing on;

- environmental (ocean health),
- social (inclusion and fair growth)
- integrative governance

REGENERATIVE BLUE ECONOMY INVESTMENT OPPORTUNITIES SEASCAPE APPROACH

NATURE BASED SOLUTIONS THAT BENEFIT PEOPLE, OCEAN AND CLIMATE Marine Protected and Conserved Areas (community PAs)- Integrated Coastal Management and MSP

Sustainable Fisheries - community management / co-management Sustainable Aquaculture & mariculture

Sustainable coastal tourism; service providers

Restoration of critical habitats (mangrove, seagrass, wetlands/ ponds)

Blue carbon finance through e.g. environmental rehabilitation

Increasing women's economic empowerment and resilience

Sustainable land based production systems in coastal communities

Marine pollution management (policy, circularity, waste management systems)

Cross cutting requirements

- Capacity building
- Policy and Governance
- Inclusive (rights based)
- Strategic partnership
- Sustainable financing
- Science
- Climate change adaptation

A Value Chain Evaluation Approach

- Community impact
- Environmental impact
- Market conditions
- Operational feasibility





#### Nature-based solutions (NBSs) require a massive scaling up in funds to fight against nature loss

BENEFITS

**CHALLENGES** 

An estimated \$674 billion needed each year for NBSs to halt biodiversity loss and limit climate change by 2050

Annual investments in NBSs will need to be more than quadrupled by 2050 from \$154 billion (2022 level)

#### NATURE-BASED SOLUTIONS

#### **INNOVATIVE FINANCE** APPROACHES

NBSs are actions and policies that protect, manage, and restore natural ecosystems, while addressing societal challenges

#### CHALLENGES

- Lack of national/regional focus on NBS
- Lack of a scalable pipeline of NBS projects
- Capacity weakness on NBS project preparation
- Lack of knowledge on innovative finance approaches to scale up private capital flows
- Risk perception of global pools of capital
- Underdeveloped innovative market instruments such as nature credits

#### BENEFITS

- Protection of biodiversity
- Greater carbon
- A more sustainable ecology for economic growth and poverty reduction
- Some estimates indicate that investing in nature can generate up to \$10 trillion in additional annual business revenue and create employment opportunities and create 395 million additional jobs

#### LESSONS WORKING IN REGIONAL PARTNERSHIPS

#### FOSTERING COOPERATION & A TRANSBOUNDARY APPROACH

#### • Context for cooperation:

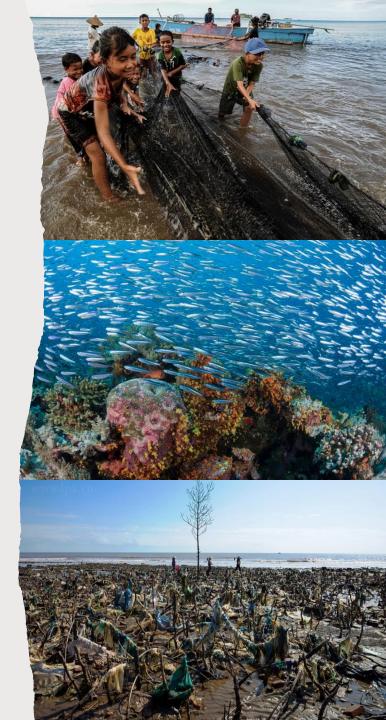
• Ecosystems shared by countries – biodiversity, fisheries, food security, climate resilience, local to national economic interests

#### • Governance & Partnerships: building trust and cooperation

- · Secretariat provides neutral convening power
- Formal intergovernmental approaches and informal both work Regional Vision and Strategic Action Programmes jointly agreed and endorsed/ adopted by state governments
- Shared obligations to Global Targets (MEAs)
- IUCN's membership and motions process

#### • Approaches:

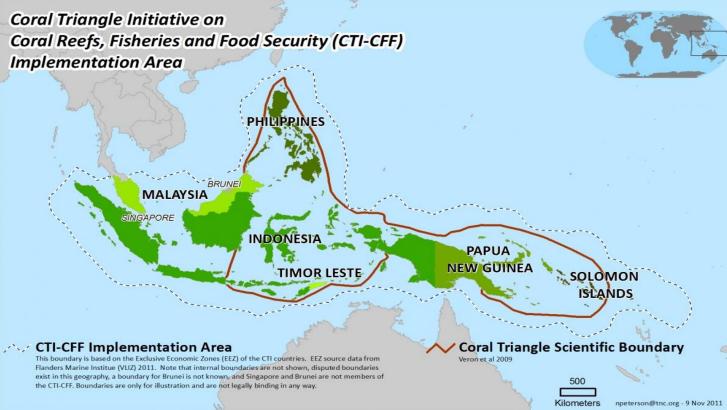
- Sound science-based (and social science based) decision making
- Global standards e.g. IUCN Green List for PCAs, IUCN NbS Standard
- · Focus on technical issues / commitments of relevance to all parties
- Partnerships for Ecologically connected networks
- Learn from each other, share data and implement independently and responsibly

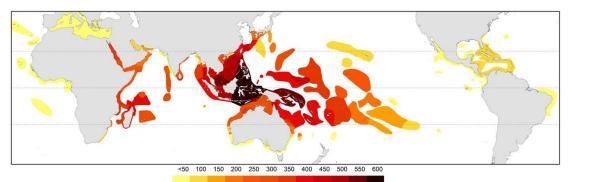




# Thank you

# Coral Triangle – epicenter of coral biodiversity



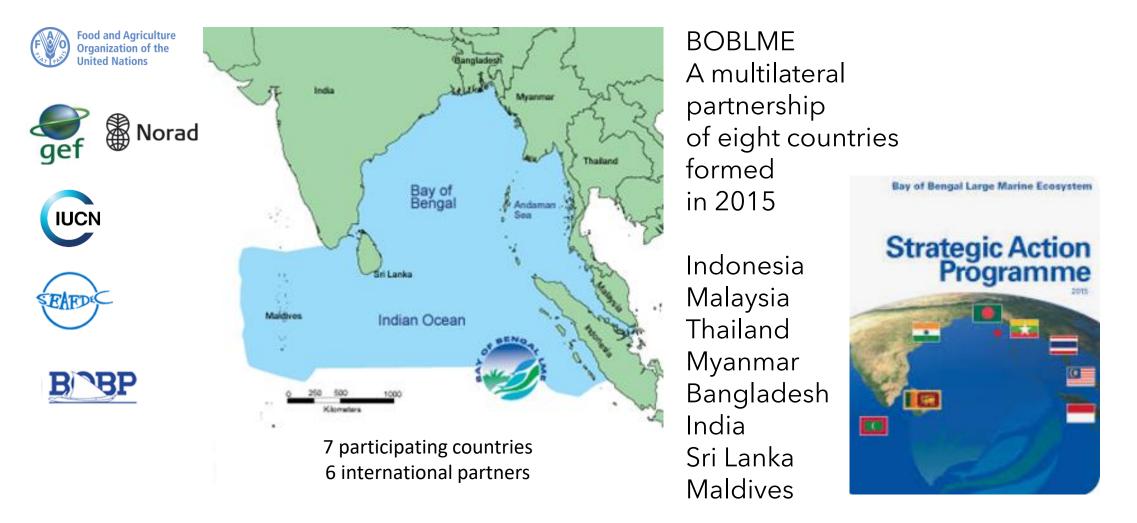


CTI-CFF A multilateral partnership of six countries formed in 2009:

Indonesia Malaysia, Papua New Guinea Philippines Solomon Islands Timor-Lest



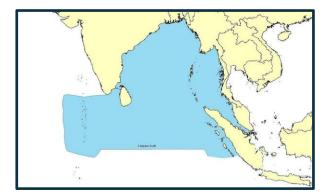
### Bay of Bengal Large Marine Ecosystem (BOBLME)



1. Marine living resources (fisheries) 2. Critical habitats 3. Water quality 4. Socio economic consideration

# Bay of Bengal Large Marine Ecosystem

Important large marine ecosystem, with significant social, economic and environmental contributions



Area	Fisheries
Total maritime area: 6.2 million km2	Number of fishers 3.7 million
The total area of EEZs <b>4.3 million km2</b> Combined length of coastline: <b>14 000 km</b>	Number of fishing boats <b>415 000</b> Annual fisheries production <b>6 million tonnes</b>
	Value of fisheries production USD 4 billion
Environment	People
8 <b>percent</b> of the world's mangroves	Total population of countries 2 000 million
12 <b>percent</b> of the world's coral reef	Population of coastal zone 185 million