



**CORAL TRIANGLE
INITIATIVE**
ON CORAL REEFS, FISHERIES
AND FOOD SECURITY



SOM19
DILI, TIMOR-LESTE

THE 19TH SENIOR OFFICIALS' MEETING

Country Report:
.....
PHILIPPINES

MR. JOHN ERICK B. AVELINO
Supervising Ecosystems Management Specialist
Officer In-Charge, Coastal and Marine Division

DILI, TIMOR-LESTE | [DATE OF THE EVENT]

www.coraltriangleinitiative.org



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- 04 MONITORING AND EVALUATION
WORKING GROUP
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Country Focal Points 2023-2024

MEMBERS OF PH NCCC

Secretariat

Department of Environment and Natural Resources - Biodiversity Management Bureau (DENR-BMB) - **Chair**

Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR) - **Co-Chair**

NATIONAL GOVERNMENT AGENCIES	NON-GOVERNMENTAL ORGANIZATIONS
<ul style="list-style-type: none">● DENR - Climate Change Service (CCS)● DA - National Fisheries Research and Development Institute (NFRDI)● Department of Foreign Affairs (DFA) - Maritime and Ocean Affairs Office (MOAO)● DFA - United Nations and International Organizations● National Economic and Development Authority● Climate Change Commission● Department of Tourism● Department of Finance - International Finance Group● Department of Interior and Local Government● University of the Philippines - Marine Science Institute - Academe	<ul style="list-style-type: none">● World Wide Fund for Nature - Philippines● Conservation International - Philippines <p><i>*There is a need to engage organizations from the business sector.</i></p>

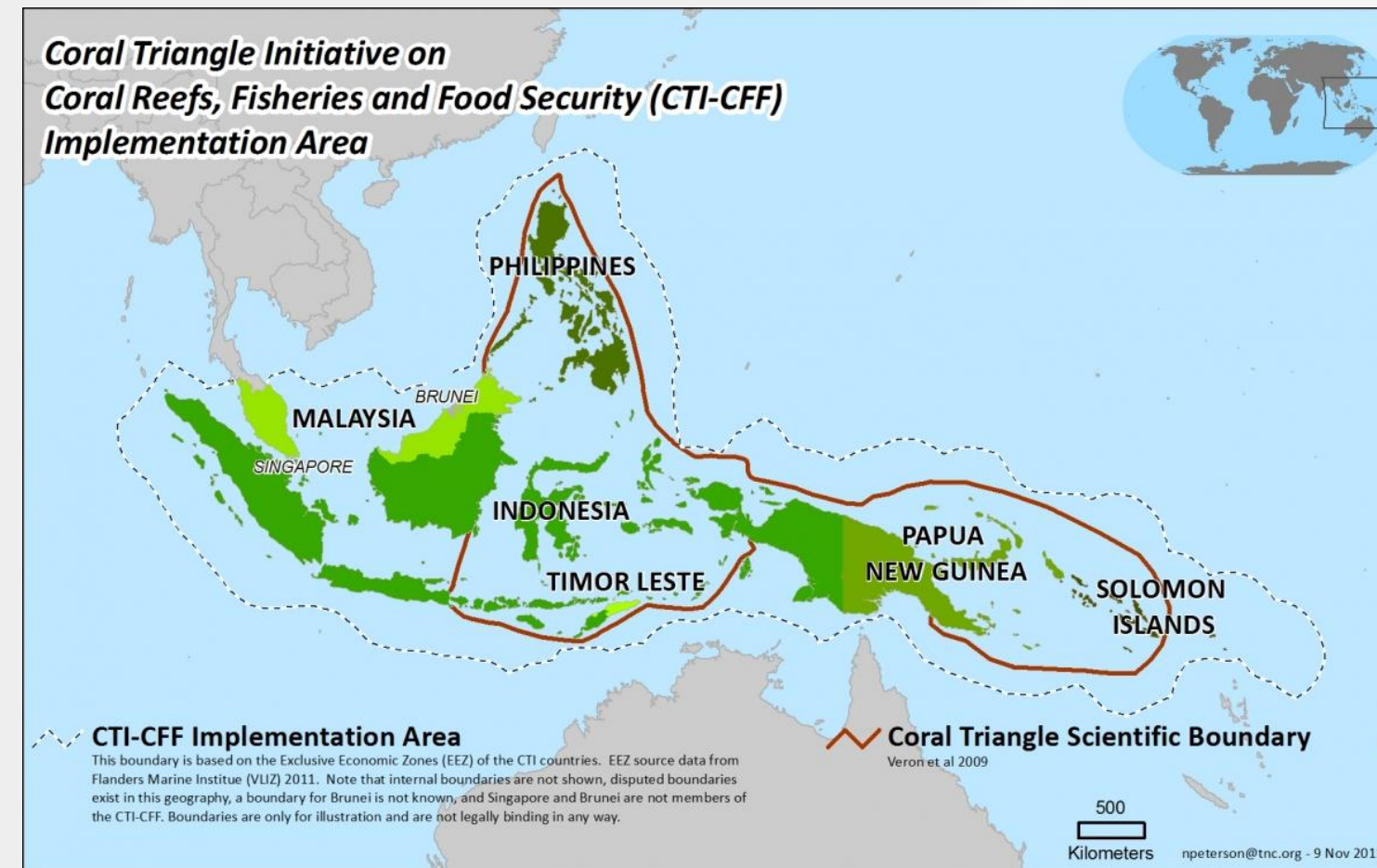
WORKING GROUP	FOCAL POINT	ALTERNATE
National Coordination Committee		
Seascope	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
EAFM	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources	Dr. Angel B. Encarnacion Officer-in-Charge, Office of Assistant Director for Technical Services, DA-BFAR
MPA	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
TS	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)
CCA	Elenida Basug Director, Department of Environment and Natural Resources (DENR) Climate Change Service (CCS)	John Erick Avelino Officer-In-Charge, Coastal and Marine Division, Biodiversity Management Bureau

WORKING GROUP	FOCAL POINT	ALTERNATE
FR	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
ME	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
IRC	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
WLF	Marcial C. Amaro, Jr. Assistant Secretary for Biodiversity and concurrent Director, Biodiversity Management Bureau (BMB) Department of Environment and Natural Resources (DENR)	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)
CT Atlas	Roy C. Ortega, M.Sc. Officer-in-Charge, Fisheries Resource Management Division, Bureau of Fisheries and Aquatic Resources (DA-BFAR)	Mr. Septher Ian Salcedo Biodiversity Policy and Knowledge Management Division, Biodiversity Management Bureau
CTMPAS Nomination Committee	Marcial C. Amaro, Jr. Assistant Secretary for International Affairs, DENR In concurrent capacity as the BMB Director	Isidro M. Velayo, Jr., MDM Officer-in-Charge, Department of Agriculture - Bureau of Fisheries and Aquatic Resources (DA-BFAR)

Country Profile



The Philippines in context: An archipelagic, megadiverse country



- 7,641 islands
- ~37,000 km coastline – 6th longest in the World
- Territorial Sea (up to 12 km): 679,800 sq km
- Exclusive Economic Zone: 2.2 Million sq km
- Up to 78% of our provinces and 56% of cities/municipalities lie in our coasts
- Apex of the Coral Triangle Region
- Part of 17 megadiverse countries in the World
- One of the 36 biodiversity hotspots in the World (Conservation International)

Ocean Wealth

1,257,684 ha.
>500 coral species
coral reefs

311,400 ha.
mangroves

498,341 ha.
seagrass, seaweeds, beach forests

~ 200,000 ha.
mudflats



Ocean Wealth

~ 857 Billion Pesos

Gross value added

578,626

overseas sea-based Filipino workers

2.22 million

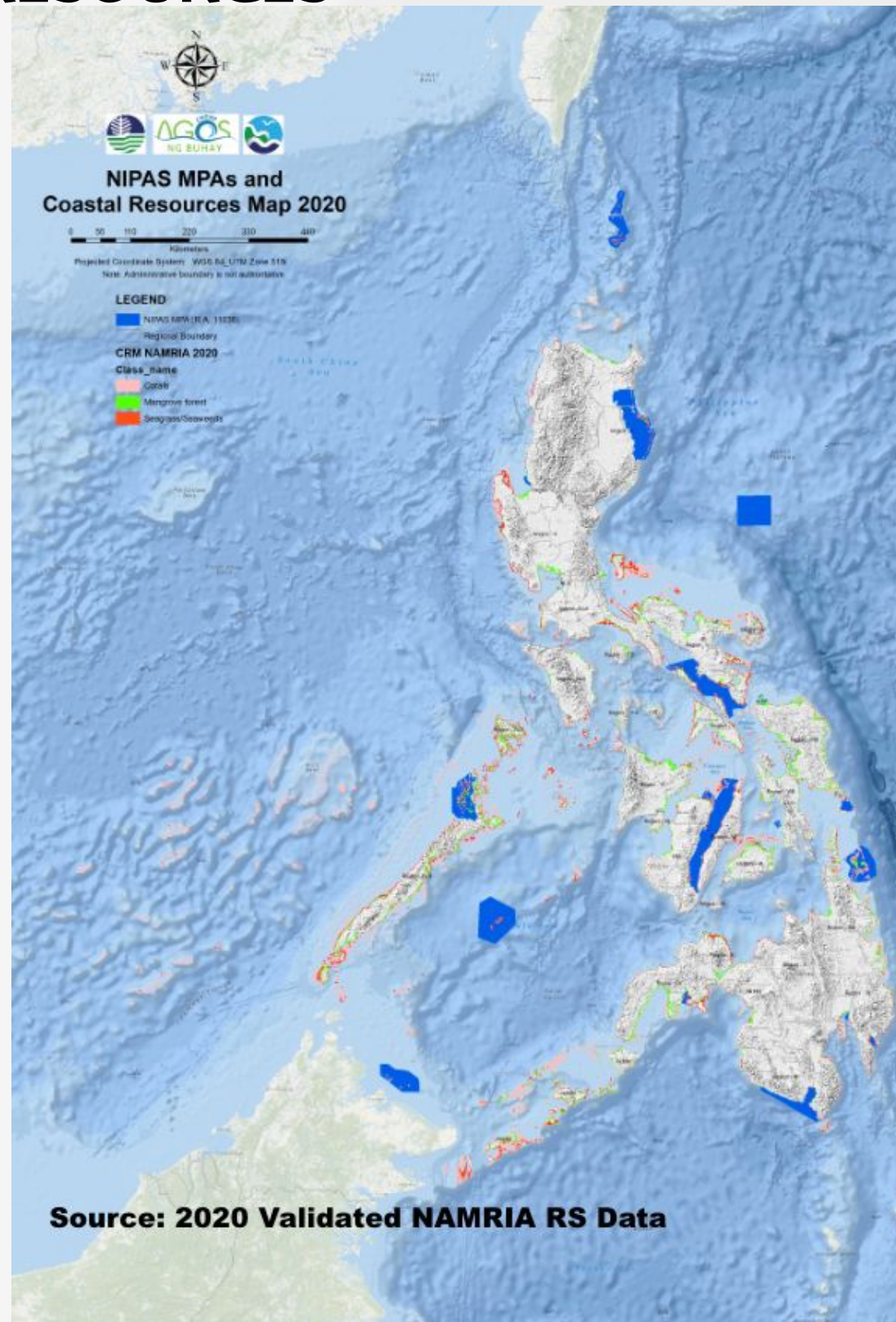
Employed

USD 6.85 billion

remittances



COASTAL AND MARINE RESOURCES



CORAL REEFS

1,257,684 hectares (municipal seas)
76,796.02 (6.11%) hectares within NIPAS MPAs (2022)
at least **500 species of corals**

MANGROVE FORESTS

311,400 hectares (territorial seas)
104,801.36 (33.65%) hectares within NIPAS MPAs (31.9%) (2022)



SEAGRASS BEDS

498,341 hectares (territorial seas)
55,592.41 (11.16%) hectares within NIPAS MPAs (2022)

MUDFLATS

200,000 hectares (2016)

BEACH FORESTS

COASTAL WETLANDS



Country Profile

- Fish diversity: **3,212 fish species, 731 commercially important**
- Marine mammal diversity: **28 species**
- Other threatened species of concern: **Dugong, Loggerhead turtle, Green Sea turtle, Olive ridley sea turtle, Leatherback turtle, Whale shark, Napoleon Wrasse**

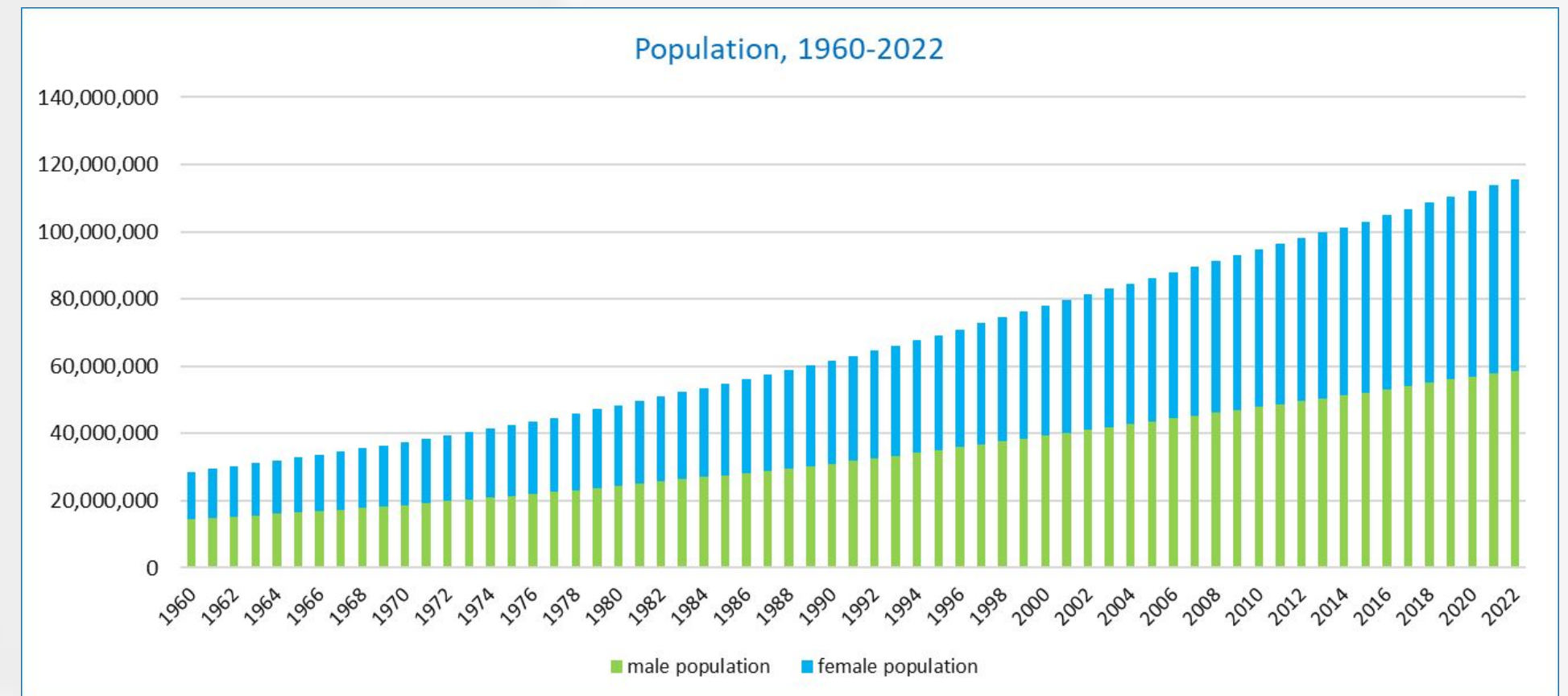
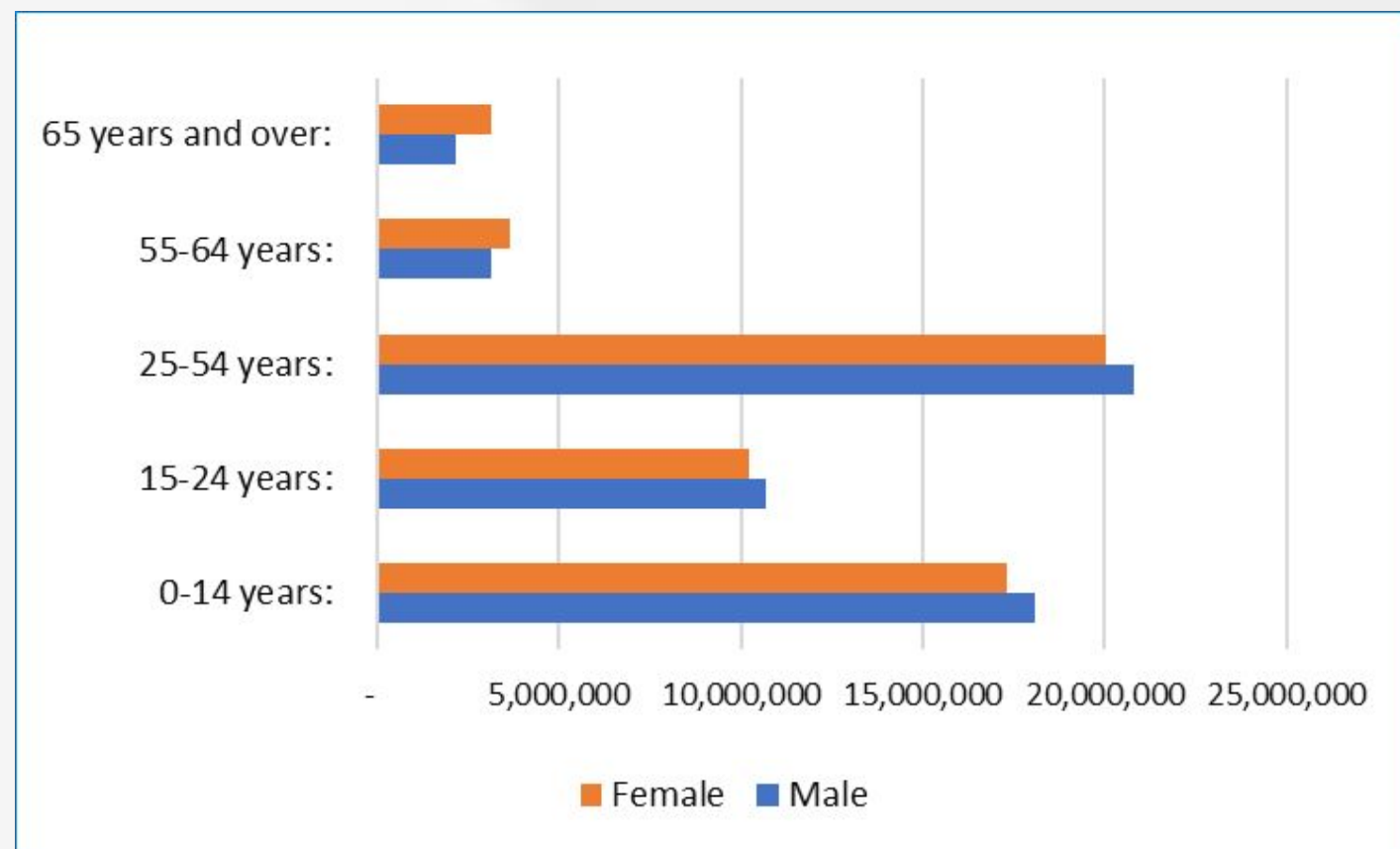


Country Profile

Socio-economic profile:

- Demographic:
 - Population: 109,033,245
 - Age group:

- Male-Female Ratio:



- GDP:
 - Php 21,051,758 (by major industry)
 -
- Number of community living on the coastal zone: 42,004 barangays

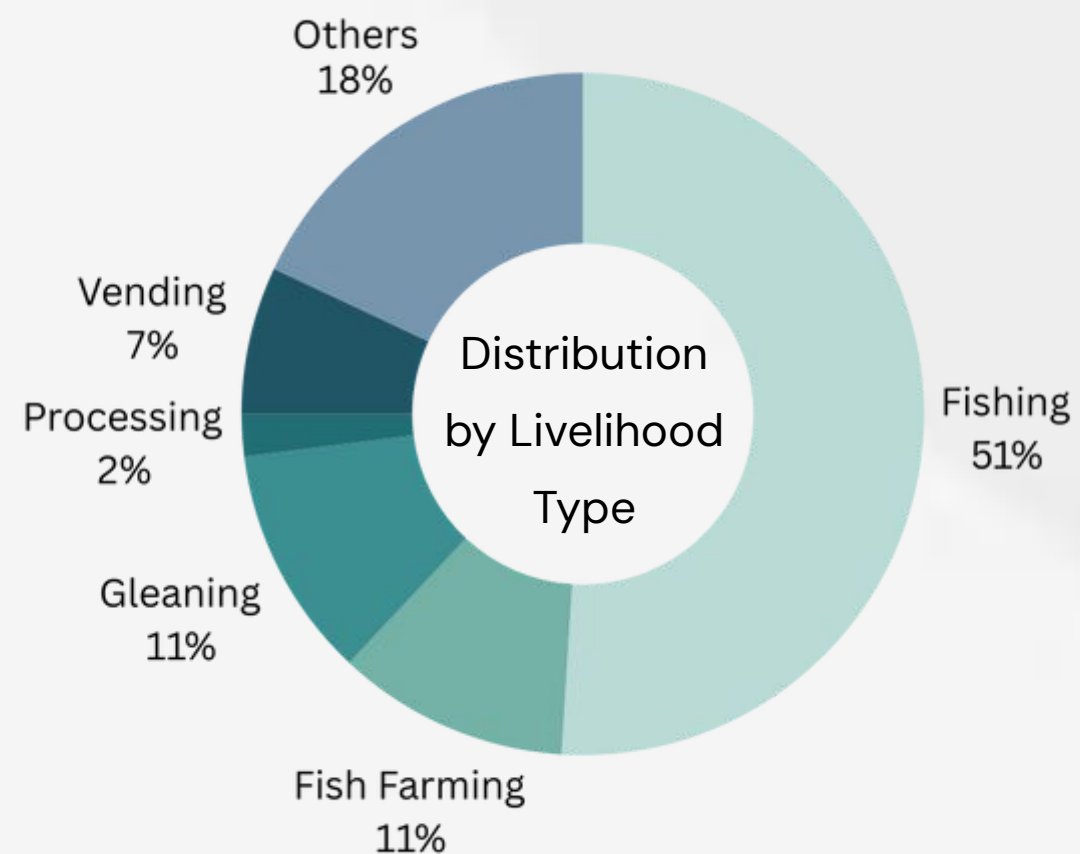
Total Population, 1960-2022
 (Source of data: World Bank 2023)

2.5 million

registered municipal fisherfolk



3 in every 10 are women



Fisheries and Aquaculture

~215 Billion Pesos

Gross value added

Sea-based Transportation

~125 Billion Pesos

Gross value added

Coastal and Marine Tourism

~63 Billion Pesos

Gross value added

Country Profile

Government profile:

- Summary of NPOA focuses:
- Departments in charge for conservation activities:
- National trust fund related to conservation:

KMGBF- PBSAP WHEEL

- KMGBF Four (4) Goals 2050
- Sustainable Development Goals (SDG)
- Kunming Montreal Global Biodiversity Framework
- Philippine Development Plan (PDP)
- Philippine Biodiversity Strategy and Action Plan (PBSAP)
- National Adaptation Plan (NAP)



NPOA IN NUMBERS



Biophysical

- 3** Targets
- 3** Regional Activities
- 8** National Activities
- 29** Sub-National Activities

Investment Plan (PHP)
901,176,000



Socio-economic

- 3** Targets
- 3** Regional Activities
- 5** National Activities
- 14** Sub-National Activities

Investment Plan (PHP)
166,220,402



Policy and Governance

- 1** Target
- 1** Regional Activity
- 5** National Activities
- 16** Sub-National Activities

Investment Plan (PHP)
75,430,000.00

TOTAL INVESTMENT (PHP): 1,142,826,402.00

CTI NPOA OVERVIEW

Glossary

Acronyms

Foreword

Executive Summary

I. Introduction and Context

A. CTI-CFF History

- MEAs, International Agreements, and Legal Frameworks

B. RPOA 1.0 Milestones

- Value added of CTI-CFF
- NPOA 1.0 Philippine Milestones
 - MEAs, International Agreements, Legal Policies and Frameworks, directly relevant to RPOA (new developed policies) - landmark policies to be highlighted

C. RPOA 2.0 Adoption (Introduction to NPOA 2)

II. NPOA 2.0 VMG, Objectives, and Scope

III. Guiding Principles (Theory of Change, Core Strategies)

IV. Targets, National Activities, and Indicators

V. Governance and Operation Considerations

- A. Institutional arrangements (organizational structure for implementation / strategy)
- B. Monitoring and Evaluation Framework (Reporting mechanism)

VI. Resource Needs (Resource Mobilization)

- A. NPoA Costing (PROPOSAL)
- B. Financial Strategy

VII. Communication Strategy

VIII. References:

IX. Annexes:

- A. Contributors' List (Name and Affiliation)
- B. Initiatives Relevant to CTI
- C. Monitoring and Evaluation Framework



Technical Working Groups' Progress/
Accomplishments Towards NPOA

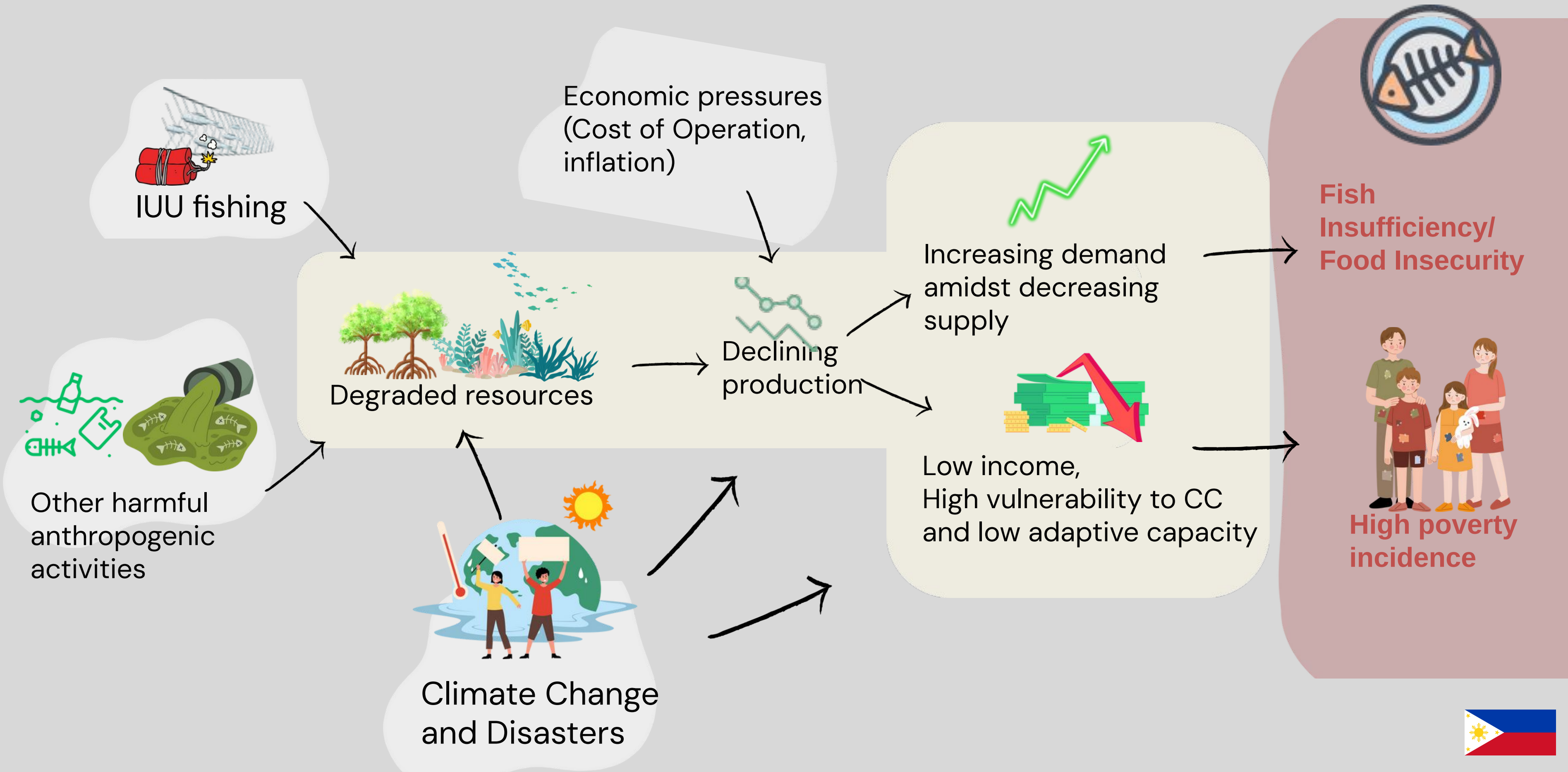
ECOSYSTEM APPROACH FOR FISHERIES MANAGEMENT



Policy Frameworks for Achieving EAfM

- Philippine Fisheries Code of 1998 (RA 8550), as amended by RA 10654 (2015)
- National Integrated Protected Areas System (NIPAS) Act (RA 7586, 1992), as amended by the Expanded NIPAS Act (RA 11038, 2018)
- Climate Change Act (RA 9729, 2009) and the Philippine Disaster Risk Reduction and Management Act (RA 10121, 2010)
- Executive Order 533 (2006) - Adoption of Integrated Coastal Management (ICM)
- Bangsamoro Organic Law (RA 11054, 2018)
- Port State Measures Agreement (PSMA, 2009; ratified by the Philippines in 2018)
- National Plan of Action to Prevent, Deter, and Eliminate IUU Fishing (2013)
- Philippine Development Plan (PDP, 2017-2022)
- Fisheries Management Area (FMA) Framework (2019)
- Philippine Ecosystem and Natural Capital Accounting System (PENCAS) (2023)
- Local Government Code (RA 7160, 1991)

CHALLENGES PATHWAYS IN FISHERIES AND MARINE RESOURCES



DEVELOPMENT FRAMEWORKS AND PLANS

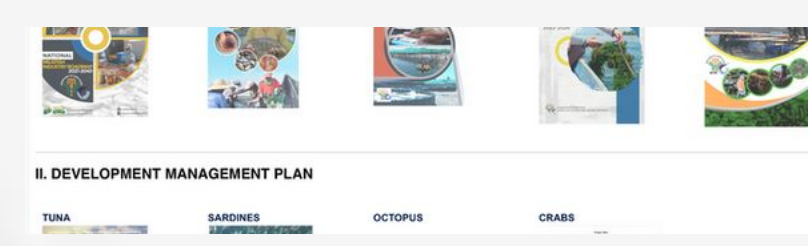


Sustainable Development Goal (SDG)

Philippine Development Plan (PDP) 2023-2028

National Agriculture and Fisheries Modernization and Industrialization Plan (NAFMIP) 2021-2030

Comprehensive National Fisheries Industry Development Plan (CNFIDP) 2021-2025



National Fisheries Program (annual)

STRATEGIC OBJECTIVES



Sustainability



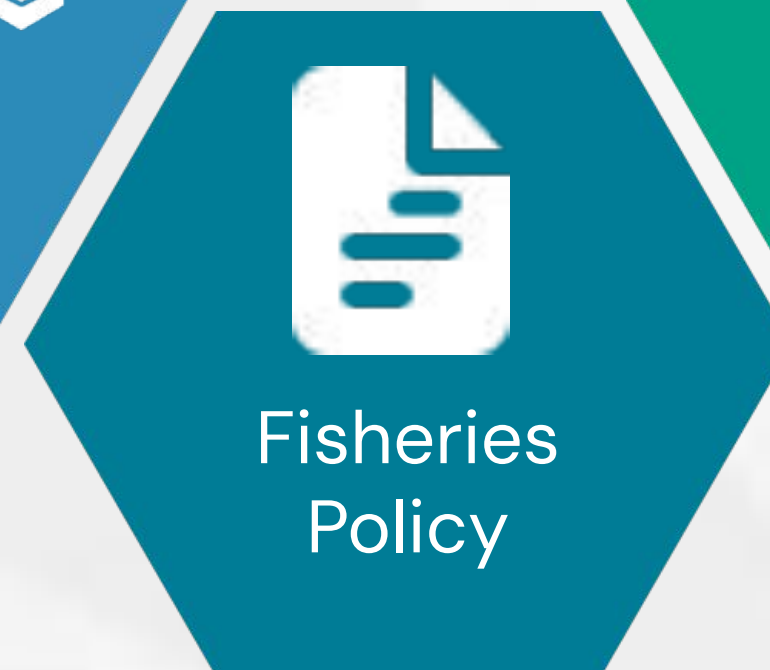
Empowerment



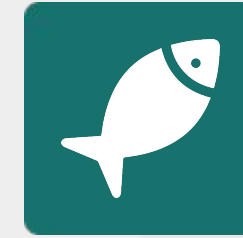
Productivity



Resiliency



EAFM PROGRAMS



Productivity

CAPTURE FISHERIES

We support municipal fisherfolk through technology, research, credit, production, marketing assistance, and training in fishing gear, aiming **to uplift their economic status** while **promoting responsible resource use**.



F/B Pagbabago fishing boats



Payao



62-footer fishing boats



Lambaklad

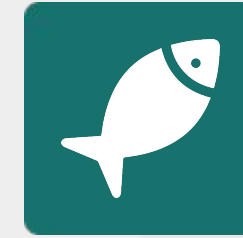


Fishing gears



Fuel subsidy

EAFM PROGRAMS



Productivity

AQUA CULTURE

The development of aquaculture, focusing on freshwater, brackish water, and marine areas, is necessary to **increase and enhance productivity** and **boost fish production**.



Fingerling Production and Distribution

Legislated Hatcheries

Broodstock Development and Distribution

Mariculture Parks



Cages



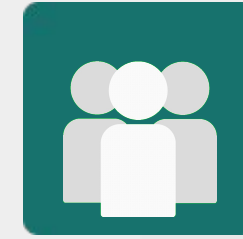
TOS



Seaweed Impleme



EAFM PROGRAMS



Empowerment



Resiliency

POST HARVEST & MARKETING

We aim to reduce post-harvest losses, safeguard consumer health, increase fisheries exports, establish product standards, implement quality inspections, provide transport for market access, and support small-scale fish processing plants and technology facilities.



PH equipment distribution



Fish processing support



Logistics



Fish Price Monitoring

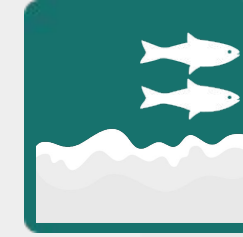


Salt Industry Development



Feed mill

EAFM PROGRAMS



Sustainability

RESOURCE MANAGEMENT CONSERVATION & PROTECTION

We conserve and manage fisheries in the Philippine waters, including seas, lakes, and rivers, in collaboration with LGUs and other stakeholders.



Fisheries Management Areas (FMAs)



Balik Sigla sa mga Ilog at Lawa (BASIL)



Malinis at Masaganang Karagatan (MMK)

Closed Fishing Season / Stocks and Habitat Restoration



Bay Management



MARINE PROTECTED AREAS



CORAL REEFS

- **1,257,684** hectares (municipal seas)
- **76,796.02** hectares within NIPAS MPAs (6.11%)



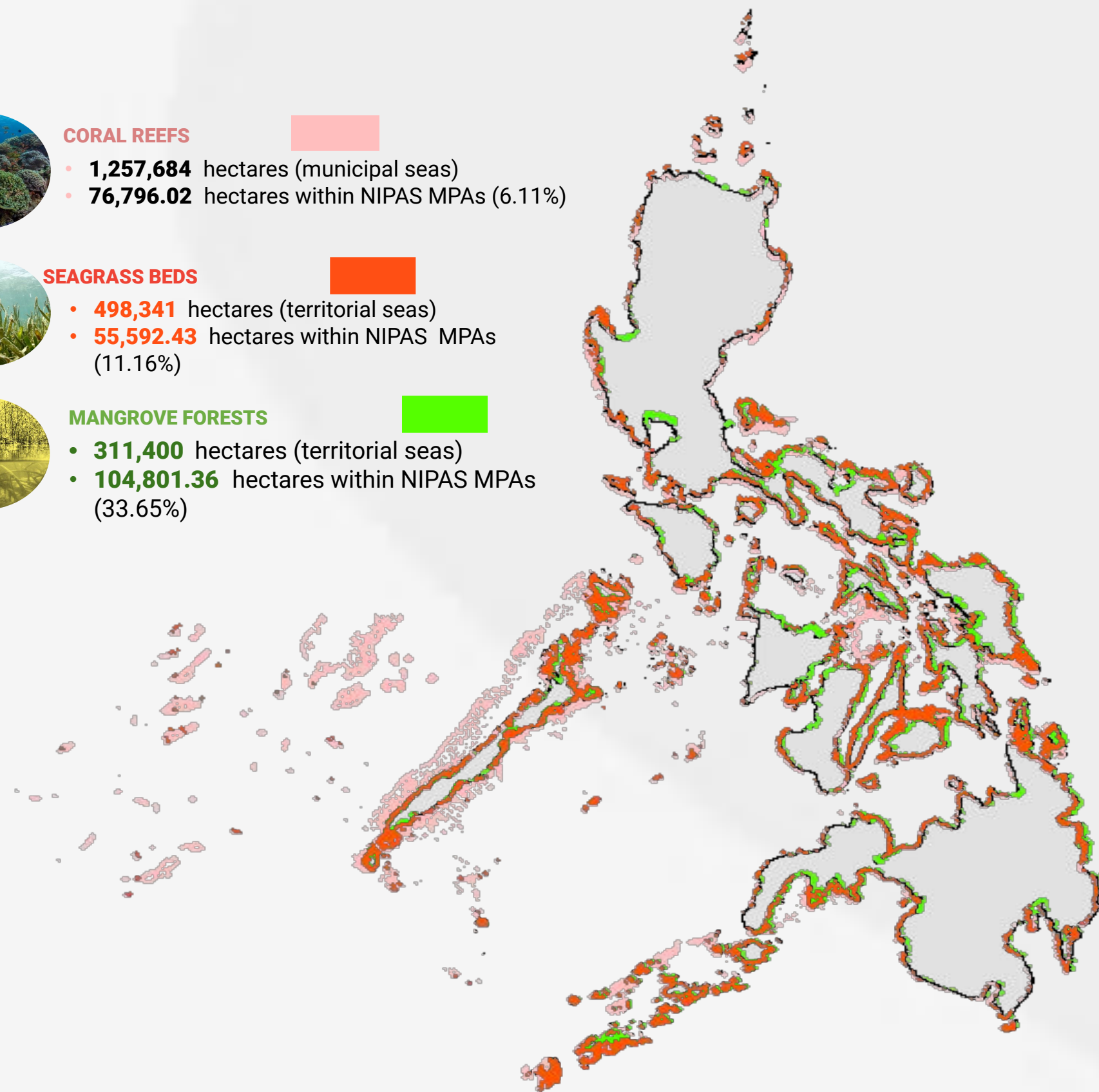
SEAGRASS BEDS

- **498,341** hectares (territorial seas)
- **55,592.43** hectares within NIPAS MPAs (11.16%)

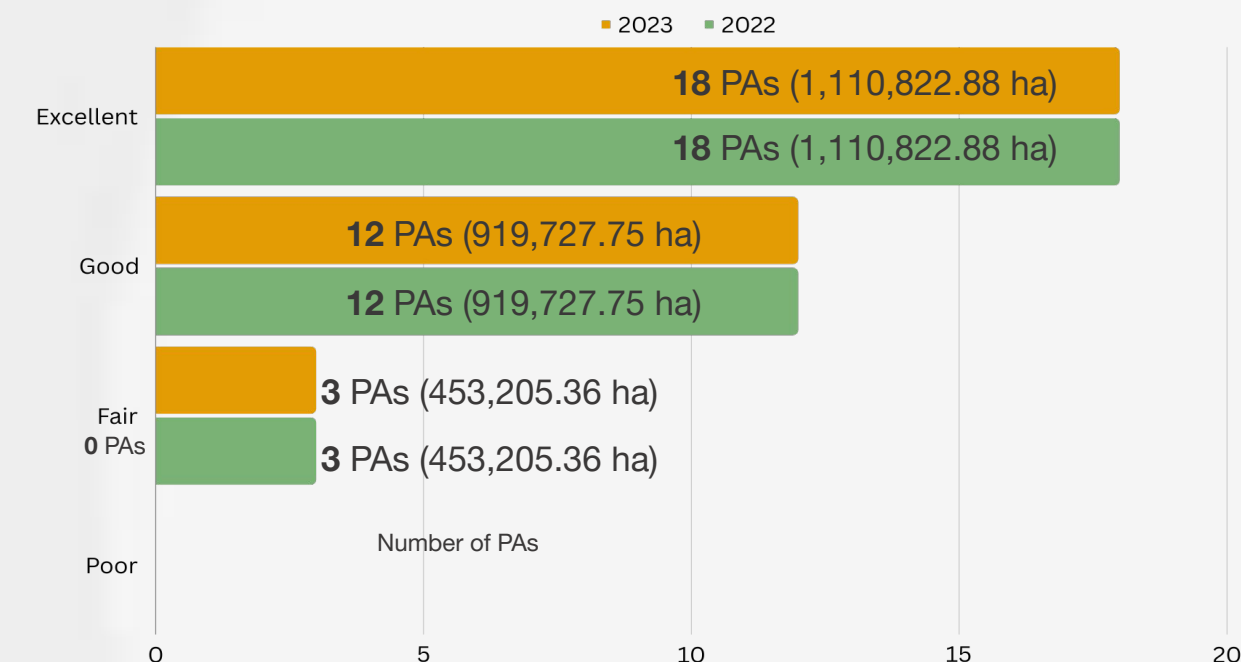


MANGROVE FORESTS

- **311,400** hectares (territorial seas)
- **104,801.36** hectares within NIPAS MPAs (33.65%)



MANAGEMENT EFFECTIVENESS IN MARINE PAs



Outcome/ Major Output Indicator	Universe	Accomplishment	
Quality of coastal and marine habitats under NIPAS MPAs and other priority coastal and marine conservation areas improved			
CORAL REEFS	34 Legislated NIPAS MPAs	Category A : 9 PAs Category B : 6 PAs	Category C: 8 PAs Category D: 8 PAs no corals: 3 PAs
SEAGRASS		Very Good : 0 PAs Good : 12 PAs Fair : 12 PAs	Poor: 2 PAs Very Poor/ no data: 5 PAs no seagrass: 3 PAs
MANGROVES		Excellent: 6 PAs Good: 9 PAs	Fair: 8 PAs Poor: 7 no mangroves: 4 PAs

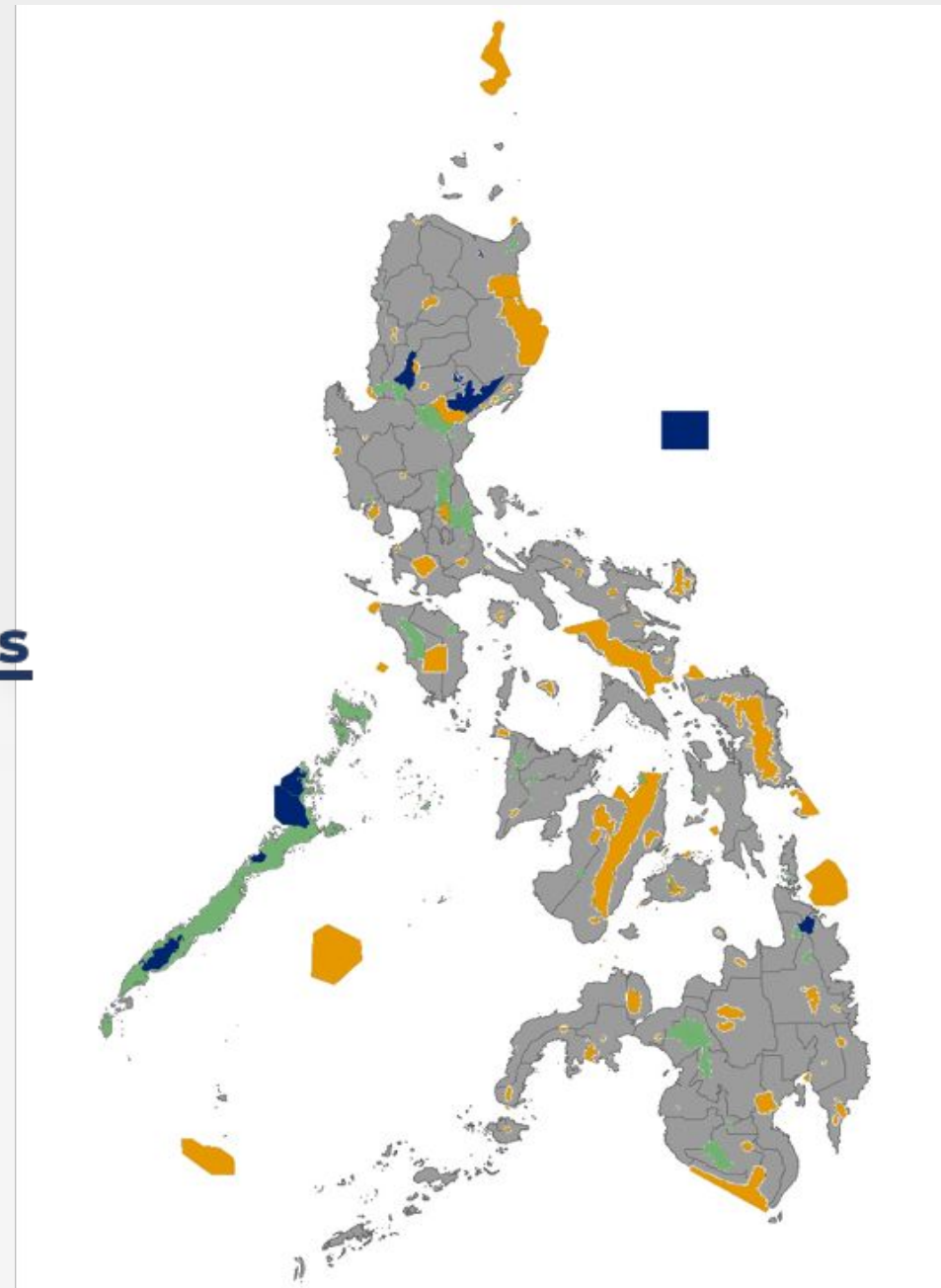
Marine Protected Area

248

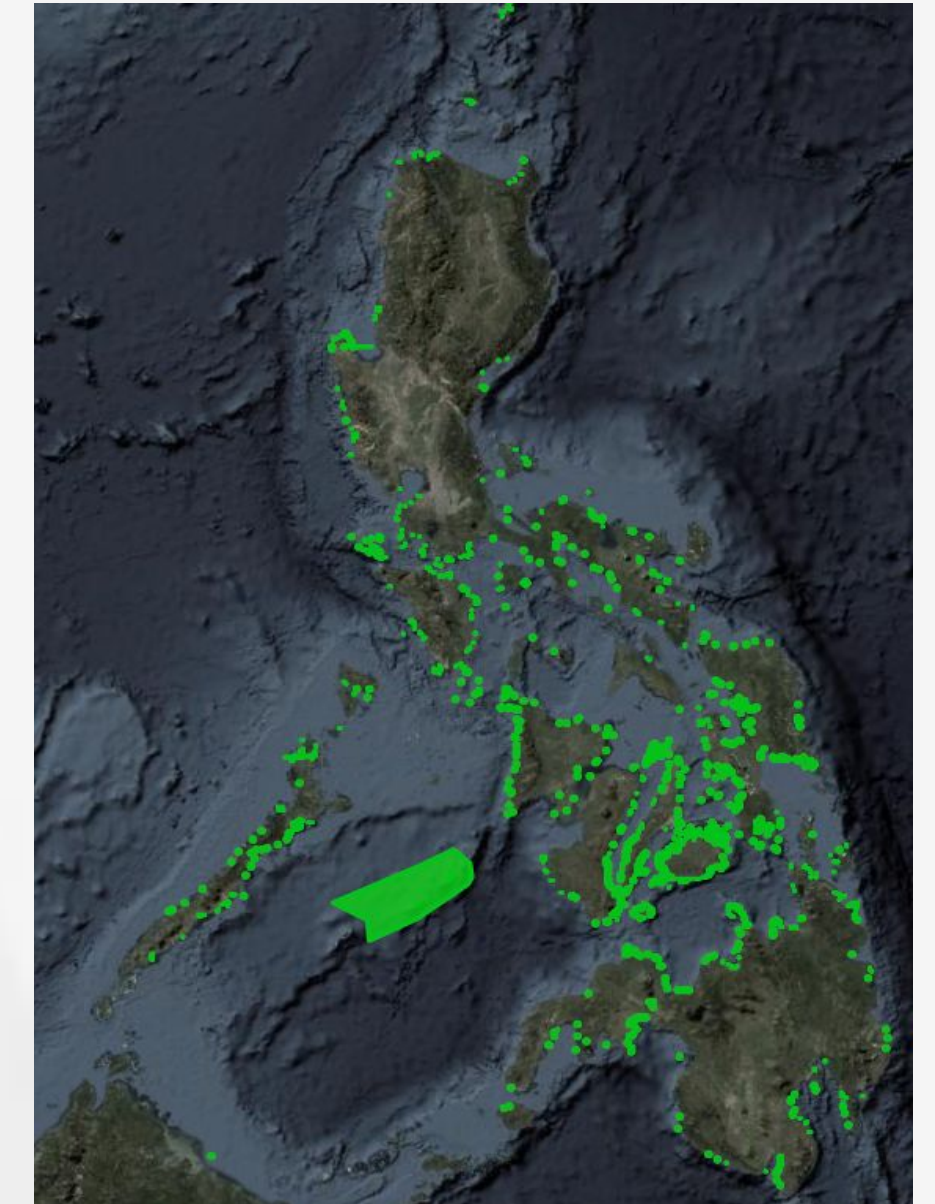
PROTECTED AREAS
covering 7.79 M
hectares

75 NIPAS MPAs

- Initial Component (121) (2.26 ha.)
- Proclaimed (13) (1.11 ha.)
- Legislated (114) (4.43 ha.)



1800
LMMAs

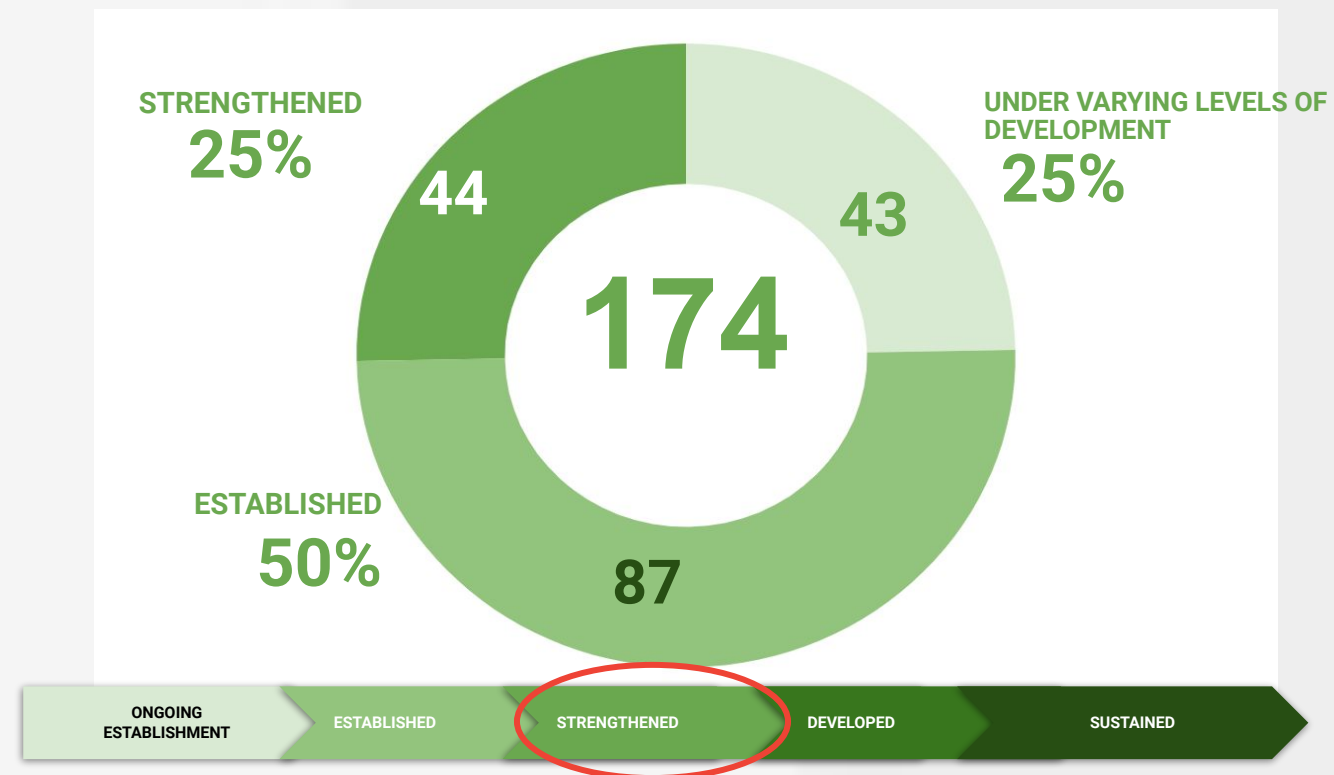


3.14 M has. of sea area within NIPAS

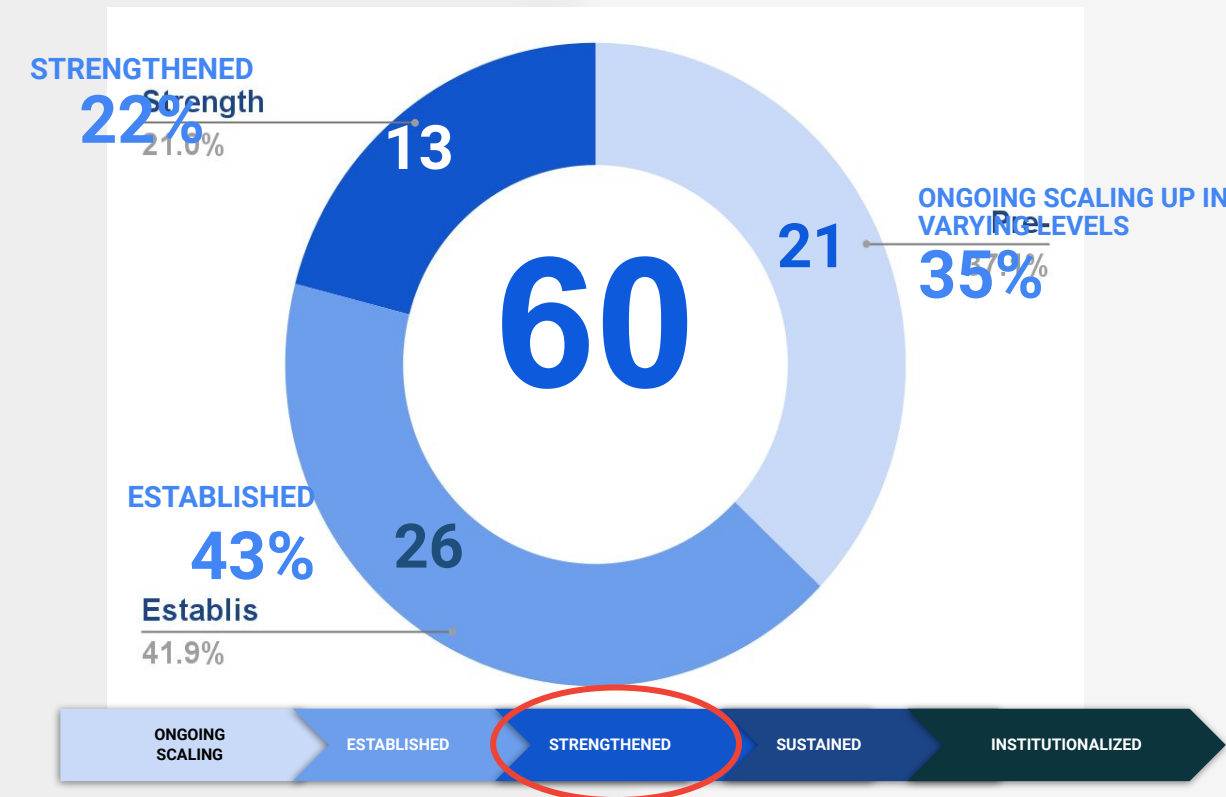
1.42% of total sea area of PH

Marine Protected Area

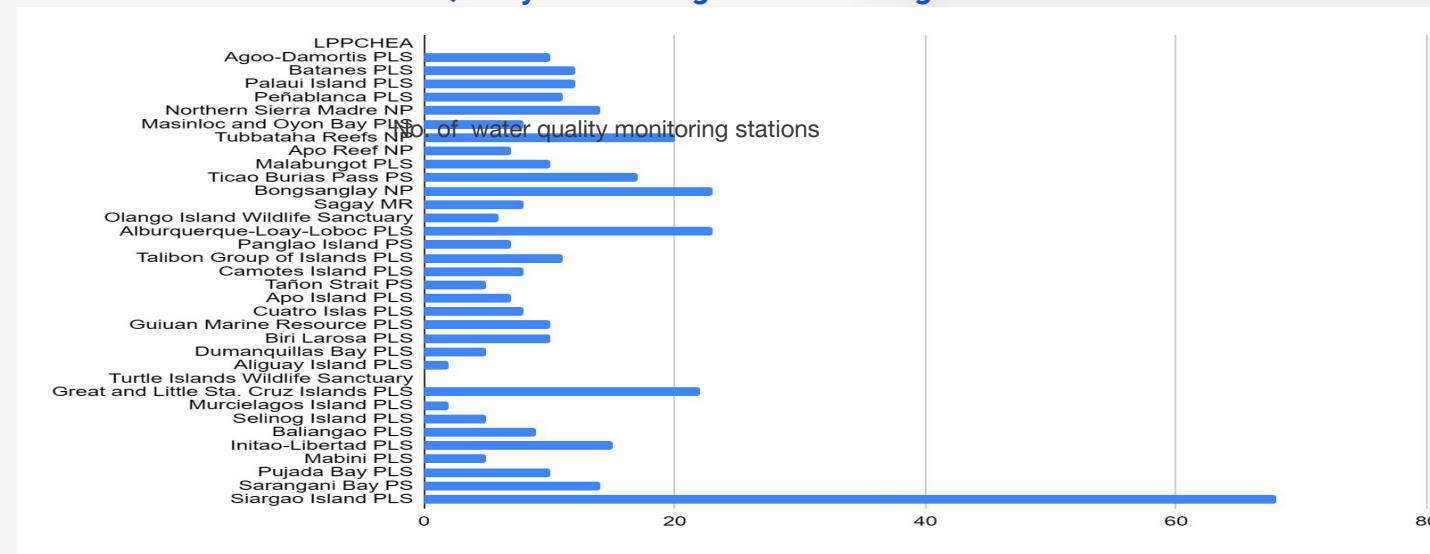
2023 BDFE Status



2023 MPAN Status



Water Quality Monitoring Stations in Legislated Protected Area

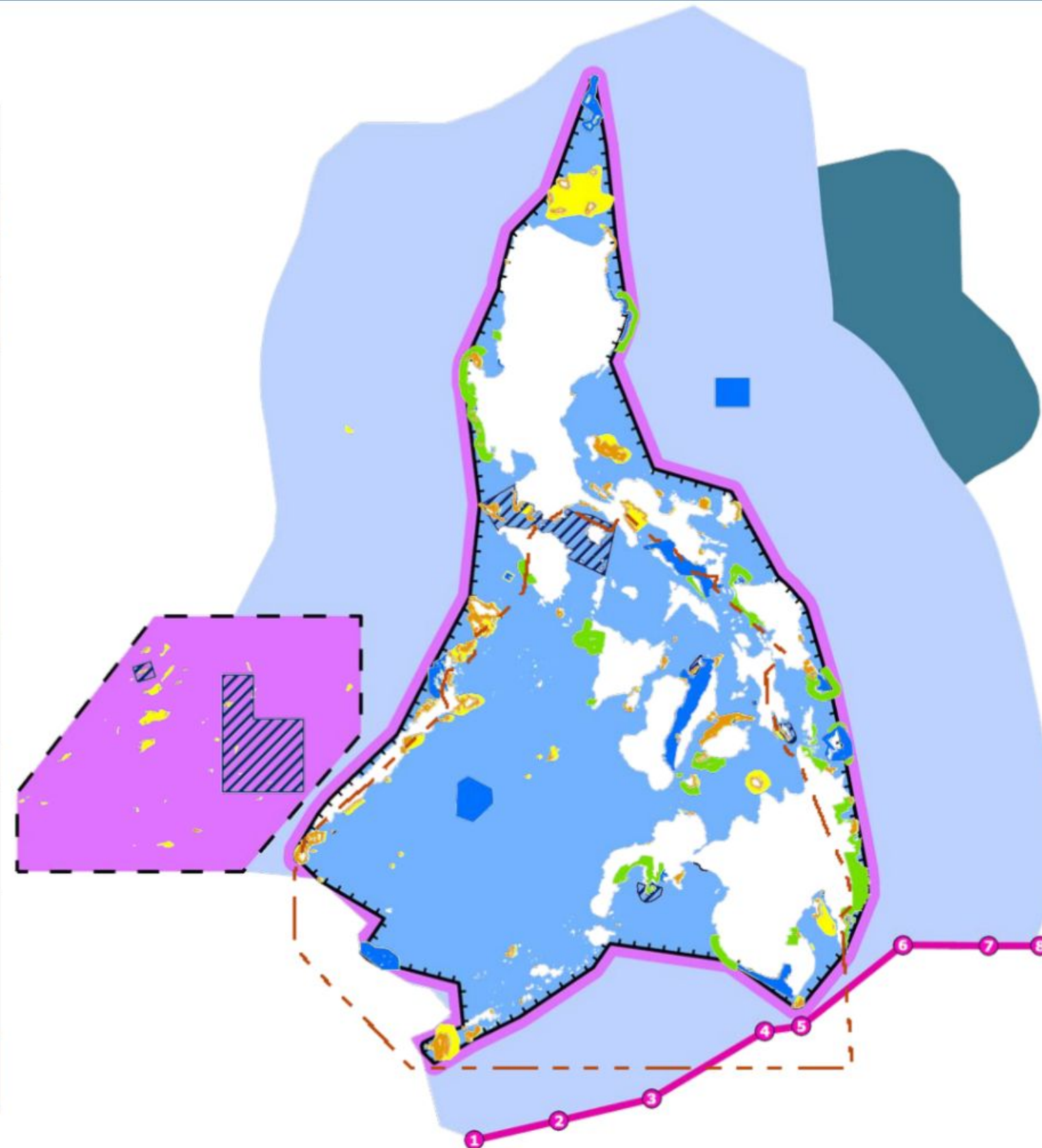


Outcome/ Major Output Indicator	Universe	Accomp	% Accomp
People's Organizations for BDFE enhanced increased	174	44 strengthened	25% have reached the highest level of enhancement to date
MPA Networks supported under different levels of scaling up	60	13 strengthened	22% have attained the highest level of scaling up to date
Legislated NIPAS MPAS with Water Quality Assessment Monitoring conducted	34	34	100%

Marine Protected Area

Marine Areas

Marine Conservation Areas	Area (has.)
Philippine Sea Area	220, 644,600
Baseline: 1.46%	3,214,294
NIPAS PAs (Sea Area)	3,214,294
Cluster 1 (4.39%)	6,460,179
Proposed NIPAS MPA (WPS, VIP, Panaon Island, Ursula Isand WS, Sultan Naga Dimaporo PS, Olutanga Island PLS)	4,150,486
MPA Networks (excluding NIPAS MPAs)	2,309,693
Cluster 2 (4.96%%)	1,264,718
50% MKBAs that are not yet protected excluding already proposed NIPAS MPA	1,264,718
Cluster 3 (15.97%)	24,296,579
Remaining 50% MKBAs that are not yet protected excluding already proposed NIPAS MPA	1,264,718
Ecologically and Biologically Significant Area (EBSA) for Protection (30% of Sulu-Sulawesi Marine Eco-region)	23,031,861
Total: Baseline + Cluster 1,2,3 (15.97%)	35,235,770



LEGEND

Maritime Domain*

- Archipelagic/Internal Waters
- Archipelagic Baseline
- Territorial Sea
- Exclusive Economic Zone
- Kalayaan Group of Island
- Extended Continental Shelf
- PH-RI EEZ Turning Point
- PH-RI Agreed EEZ Boundary Line

Baseline

- NIPAS MPAs

Potential Areas for Conservation

- Proposed NIPAS MPAs
- MPAN (less NIPAS MPAs)
- MKBA for Protection
- Sulu-Sulawesi Marine Eco Region

By 2040:

15.97%
(35.24 M ha)

PH sea protected

*indicative (based on UNCLOS)

Marine Protected Area - Updating of Marine Key Biodiversity Areas

HOW ARE KBAs DEFINED?

Sites
contributing
significantly to
the global
persistence of
biodiversity

A **geographical area** on land and/or in water with **defined ecological, physical, administrative or management boundaries** that is actually or potentially manageable as a single unit (e.g. a protected area or other managed conservation unit).

Marine Protected Area - Updating of Marine Key Biodiversity Areas

WHAT TYPE OF DATA IS NEEDED TO TRIGGER A KBA?

Species

- ✓ IUCN Red List of Threatened Species
- ✓ Population size of individual species (global or site, regular)
- ✓ Population size of 2 or more co-occurring restricted range species within a taxonomic group
- ✓ Population size of geographically restricted assemblages of species within a taxonomic groups
- ✓ Population size of ecoregion-restricted species that co-occur at a site
- ✓ Presence of mature and regular species
- ✓ For migratory species, threshold population size during one or more segregated life-cycle processes (e.g. breeding, feeding, or migration)
- ✓ When information is not available or population size fluctuate significantly between years, area-based parameters can be used:
 - locality
 - range extent of suitable habitat
 - area of occupancy
 - distinct genetic diversity

Marine Protected Area - Updating of Marine Key Biodiversity Areas

WHAT TYPE OF DATA IS NEEDED TO TRIGGER A KBA?

- ✓ Identified ecosystem type (e.g. IUCN Global Ecosystem Typology – Biogeographic and Global ecosystem types)
- ✓ Identified threatened ecosystem that hold significant proportion of an ecosystem type at risk of collapse (i.e. IUCN Red List of Ecosystems)
- ✓ Parameter: Ecosystem extent or the area of the current geographic distribution [geographic distribution map] of an ecosystem type, representing all spatial occurrences (not historical or projected distribution)


Ecosystems

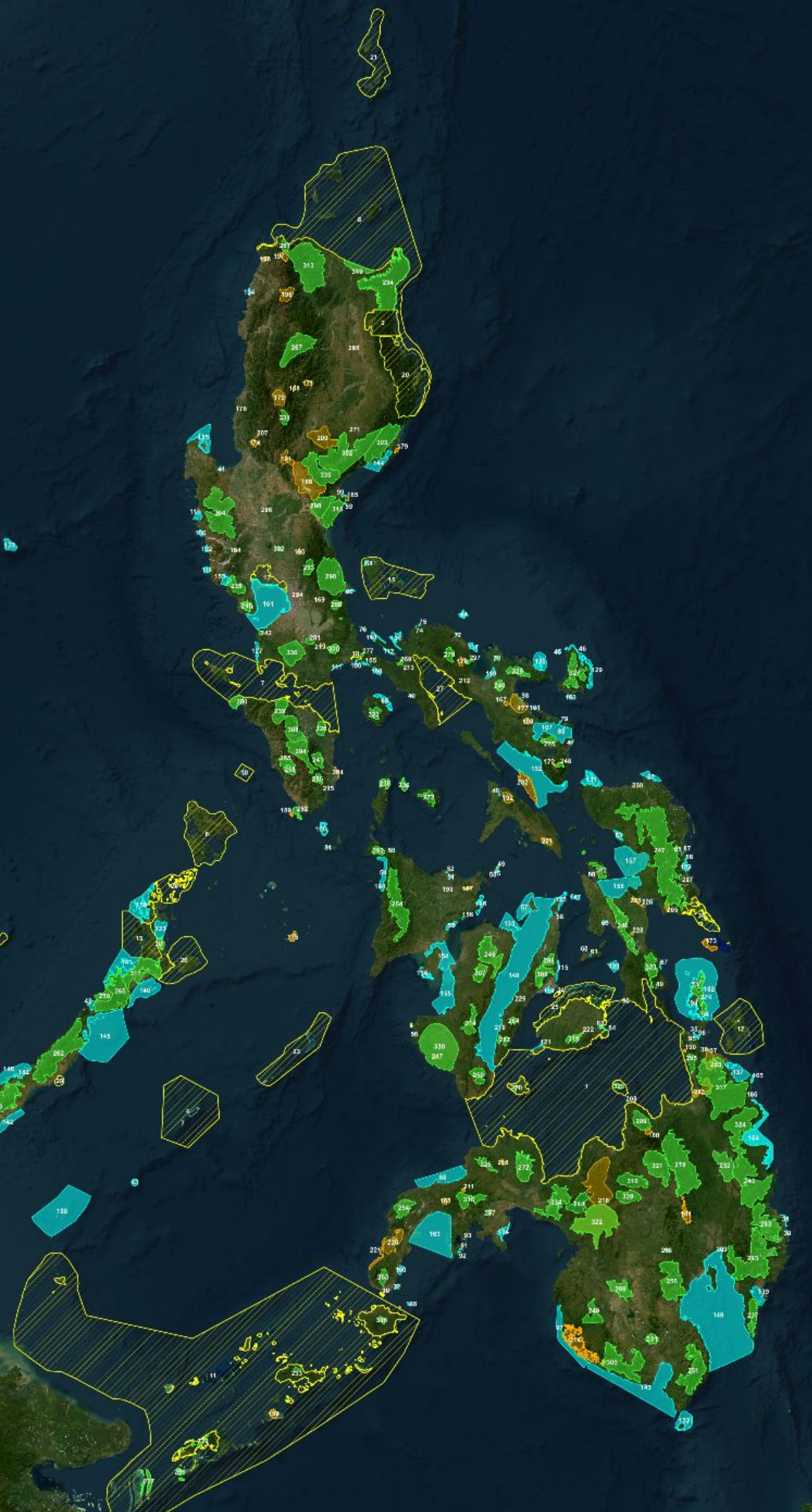
- ✓ Identified site containing an ecosystem type with a distribution so limited that 20% or more of the global extent occurs at a site
- ✓ Site of ecological integrity
 - Direct measures of species composition and abundance/biomass/density across taxonomic groups (particularly for species indicative of long-term structural stability and functionality or those known to be highly sensitive to human impact);
 - Absence (or very low levels) of direct industrial human impact, as quantified by appropriate indices at the scale of interest and verified on the ground or in the water.

Philippine KBA (as of October 18, 2024)

- | | | |
|--|--|--|
| 1 Bohol Sea | 118 Northern Alabat Island | 235 Bataan Natural Park and Subic Bay Forest Reserve |
| 2 Ursula Island Wildlife Sanctuary | 119 Mactan Island | 236 Rombon Island |
| 3 Danjugan Island | 120 Cuatro Islas Protected Landscape and Seascape | 237 Mt. Hamiguitan Range Wildlife Sanctuary |
| 4 Tubataha Reef's Natural Park | 121 Panglao, Dauis, Tagbilaran | 238 Balogo Watershed |
| 5 Gigantes Islands | 122 Scarborough shoal | 239 Puerto Galera |
| 6 Calamianes Group of Islands | 123 Taytay Bay | 240 Mt. Isarog National Park |
| 7 Verde Island Passage | 124 Calauog Bay | 241 Mt. Hiling |
| 8 Bantayan Corridor | 125 Dianabanyayan | 242 Mts. Palay-Palay, Mataas-na-Gulod National Park |
| 9 Peñaflanca Protected Landscape and Seascape | 126 Catepccion | 243 South Diwata Range |
| 10 Apo Reef Marine Natural Park | 127 Western Calatagan | 244 Lake Lanao |
| 11 Basilan, Sulu, Tawi-Tawi | 128 Langit Island | 245 Northern Negros Natural Park |
| 12 Siargao Island Protected Landscape and Seascape | 128 East Coast of Catanduanes | 246 Anonang-Lobi Range |
| 13 Malampaya Sound Protected Landscape and Seascape | 130 Lahuy Island | 247 Samar Island Natural Park |
| 14 Balabac Group of Islands | 131 Biri Larosa Protected Landscape and Seascape | 248 Bulusan Volcano National Park |
| 15 Polillo Group of Islands | 132 Balur and Sahangani Islands | 249 Mt. Daguma |
| 16 North Mangsee Island | 133 Saqay Marine Reserve | 250 Cuernos de Negros |
| 17 Wetlands of Manila Bay | 134 Mulubog Bay | 251 Mt. Lalan Complex |
| 18 Pagbilao Bay | 135 Bolinao Peninsula | 252 Ilin Island |
| 19 El Nido-Palaye Managed Resource Protected Area | 136 Southern Guimaras | 253 Anapit Watershed Forest Reserve |
| 20 Northern Sierra Madre National Park | 137 Linauza Bay | 254 Libabo-Quipit Watershed |
| 21 Bataanes Islands Protected Landscape and Seascape | 138 Tagoto Blislig | 255 Siouran |
| 22 Kalayaan Island Group | 139 Pujada Bay Protected Landscape and Seascape | 256 Mt. Apo Natural Park |
| 23 Cagayanillo | 140 Green Island Bay | 257 Sibutu and Silantai |
| 24 Olango Island Wildlife Sanctuary | 141 San Vicente | 258 Malpalon |
| 25 Danajon Bank | 142 Brooke's Point | 259 Puerto Princesa Subterranean River National Park |
| 26 Dumaran and Araceli | 143 Sarangani | 260 Mt. Mantalingahan Protected Landscape |
| 27 Ragay Gulf | 144 Casilguran Bay | 261 Kalbario-Palapat National Park |
| 28 Linapacan | 145 East Puerto Princesa | 262 Victoria and Anepahan Ranges |
| 29 Rasa Island | 146 Quezon, Palawan MKBA | 263 Pasonanca Natural Park |
| 30 Great and Little Sta. Cruz Islands Protected Landscape and Seascape | 147 Mond and Kimud Shoals MKBA | 264 Central Panay Mountains |
| 31 Gulian to Salcedo | 148 Taron Strait Protected Seascape | 265 Cilepota's Needle |
| 32 Sacol Island | 149 Davao Gulf | 266 UP Land Grant |
| 33 Tubajan | 150 Bacuit Bay | 267 Balabasang-Balaban National Park |
| 34 Cagdiana | 151 Southern Bataraza | 268 Mt. Sinaka |
| 35 Day-asan | 152 Ticao-Burias Pass | 269 Lalaguna Marsh |
| 36 Gigaquit | 153 Subic Bay | 270 Mt. Bandila-an |
| 37 Claver | 154 Iloilo and Guimaras Straits | 271 Cave no 6 Disilwad and associated hydrobasin |
| 38 Banao to Dapnan | 155 Negros Occidental Coastal Wetlands Conservation Area | 272 Mt. Malindang Natural Park |
| 39 Baganga Bay | 156 Pedada Bay | 273 Mt. Guiting-guiting Natural Park |
| 40 Mularay | 157 Maqueda Bay | 274 Mt. Kambinliw and Mt. Redondo |
| 41 Labraday | 158 Cargara Bay | 275 Bacon-Manito |
| 42 Ulugan Bay | 159 Ambo and Divinubo Island | 276 Tawi-Tawi Island |
| 43 Basters Reef | 160 Onasa Isla | 277 Quizon Protected Landscape |
| 44 Tinaga and Guintinua Islands | 161 Manila Bay | 278 Mt. Kaluayan-Mt. Kinabalian Complex |
| 45 Pacongcong Island | 162 Dinagat Islands | 279 Mt. Labo |
| 46 Pandan and Bagamanoc | 163 Sibuguey Bay | 280 Mt. Calavite Wildlife Sanctuary |
| 47 Prieto Diaz | 164 Hinatuan Bay | 281 Mt. Makiling Forest Reserve |
| 48 Aroroy | 165 Corlez | 282 Mt. Kangbulagsing and Mt. Lanaya |
| 49 North Gigante Island | 166 Pantabangan-Carranglan Watershed Reservation | 283 Mt. Attuaganon and Mt. Pasian |
| 50 South Gigante Island | 167 Mt. Iriga | 284 Nug-as and Mt. Lantoy |
| 51 Panay | 168 Mt. Polis | 285 Malasi Lake |
| 52 Roxas City | 169 Masungi | 286 Mt. Hinunduang |
| 53 Iliway | 170 Mt. Dana | 287 Mt. Timolan Protected Landscape |
| 54 Western Panay | 171 Arumayo | 288 Mt. Capayas |
| 55 Banao Bay | 172 Mt. Jormogian | 289 Ligirasan Marsh |
| 56 Sipalay | 173 Hemonthon Island | 290 Mts. Irid-Angilo and Binuang |
| 57 Bantayan Island | 174 Mt. Sto. Tomas | 291 Simunul and Manuk Manka Islands |
| 58 Medellin | 175 Cuyo Island | 292 Northwest Panay Peninsula Natural Park |
| 59 Dibut Bay | 176 Bacnotan (Saplang Waterfall) | 293 Mt. Kampalli-Puting Bato-Mayo Complex |
| 60 Talong Island | 177 Mt. Malinao | 294 Igli-Baco Mountains |
| 61 Porc | 178 Bicol Natural Park | 295 Lake Mainit |
| 62 Bataq and Cahayagan Islands | 179 Casapsapan Beach Forest | 296 Marivales Mountains |
| 63 Sto. Nino to Tarangan | 180 Mt. Sumagaya | 297 Mt. Kulasi |
| 64 Panukulan | 181 Mt. Pantaran | 298 Aurora Memorial National Park |
| 65 Ormoc City | 182 Tabon Caves | 299 Mt. Baitalukan |
| 66 Infanta | 183 Nueva-Babalalan Protected Landscape | 300 Mts. Banahaw-San Cristobal Protected Landscape |
| 67 Silago Bay | 184 Mt. Pinatubo | 301 Lake Mangrove |
| 68 Sindangan Bay | 185 Zabali | 302 Quirino Protected Landscape |
| 69 Northeastern Marinduque | 186 Linungao Twin Island | 303 North Central Sierra Madre Mountain |
| 70 Northeast Bataraza | 187 Mt. Agudo Mountain Range | 304 Zambales Mountains |
| 71 Panalingaan | 188 Mt. Mayon | 305 Central Cebu Protected Landscape |
| 72 Taburi | 189 Ambulong Island | 306 Basilan Natural Biotic Area |
| 73 Canipa-an | 190 Central Malimomo Lowland Forest | 307 Mt. Kanlaon National Park |
| 74 Bohol | 191 Dalton Pass | 308 Mt. Halcon |
| 75 Camagsaan | 192 Masbate | 309 Mt. Busa-Kiamba |
| 76 Cabaleta Island | 193 Igang Cave | 310 Mt. Kitanglad Range Natural Park |
| 77 Vizona | 194 Malillon Island | 311 San Vicente-Taytay-Roxas Forests |
| 78 Tinambac | 195 Bakina-Bato Cave Networks | 312 Biliran and Mangilo Island |
| 79 Balar Island | 196 Mt. Sicapo-o | 313 Agayao Lowland Forest |
| 80 Rapu-Rapu Island | 197 Mt. Apo | 314 Ban-ban |
| 81 Sibay Island | 198 Ilocos Norte Metro Watershed Forest | 315 Mt. Dingalan |
| 82 Panadtaran | 199 Siasi Island | 316 Rajah Sikatuna Protected Landscape |
| 83 Coglong | 200 Caraballo - Palali | 317 Mt. Hilong-hilong |
| 84 Badiang | 201 Daraga - Placer - Malalugon | 318 Mt. Sugarloaf |
| 85 San Julian | 202 Ticao | 319 Buguey Wetlands |
| 86 Borongan | 203 Baoy River Watershed | 320 Marinduque Wildlife Sanctuary |
| 87 Sulat | 204 Bongabong | 321 Mt. Tago Range |
| 88 Navali | 205 Bulusao Watershed | 322 Mt. Piagayuran |
| 89 St. Bernard | 206 Cansaram Lake and Bird Sanctuary | 323 Mt. Neocol |
| 90 Maasin | 207 Dominican Hill | 324 North Diwata Range |
| 91 Mabuhay | 208 Guinsiliban | 325 Mt. Daplak-Mt. Paraya |
| 92 Talusan | 209 Hijo Forest | 326 Lake Naujan National Park |
| 93 Balangan Bay | 210 Kawasan Falls | 327 Catanduanes Watershed Forest Reserve |
| 94 Libjo | 211 Leon Posligo | 328 Mt. Kallalungan Range Natural Park |
| 95 Capalayan | 212 Libmanan Caves National Park | 329 Caramoan Peninsula |
| 96 Tagana-a | 213 Lopez Peatlands | 330 Southwestern Negros |
| 97 KALEPA | 214 Maitum Palimbang Range | 331 Mt. Pulag National Park |
| 98 Twi | 215 Mansalay | 332 Candaba Swamp |
| 99 Baler | 216 Mt. Piagayuran (extended) | 333 Timpoong and Hibok-hibok Natural Monument |
| 100 Isla Grande | 217 Paman Peak & Yanson Forest | 334 Munaal Tambo |
| 101 San Miguel Island | 218 Sergio Osamea | 335 Cateoan Protected Landscape |
| 102 Cabangan | 219 Seven Lakes | 336 Taal Volcano Protected Landscape |
| 103 Virac | 220 Sibuco and Siraway | |
| 104 Cumimao | 221 Sibuco Coastal Area | |
| 105 Padre Burgos | 222 Sierra Bullones | |
| 106 Iba | 223 Taguibo Watershed | |
| 107 Albay Gulf | 224 UP Campus | |
| 108 San Miguel Group of Islands | 225 Loyla Sab-a Basin Peatland (LSBP) | |
| 109 Unisan | 226 Palo Peatland | |
| 110 San Miguel Bay | 227 Maydolong Peatland | |
| 111 Saraya | 228 Lake Mahagnao | |
| 112 Southwest Alabat Island | 229 Bojo River | |
| 113 Masinloc | 230 Nalucaban Peatland | |
| 114 San Antonio | 231 Mt. Matutum Protected Landscape | |
| 115 Central Eastern Cebu | 232 Agusan Marsh Wildlife Sanctuary | |
| 116 Semirara Island | 233 Mt. Dajo National Park | |
| 117 Mercedes | 234 North Eastern Cagayan | |

LEGEND

-  Integrated KBA
-  Proposed Marine KBA
-  Proposed Terrestrial KBA
-  Terrestrial KBA



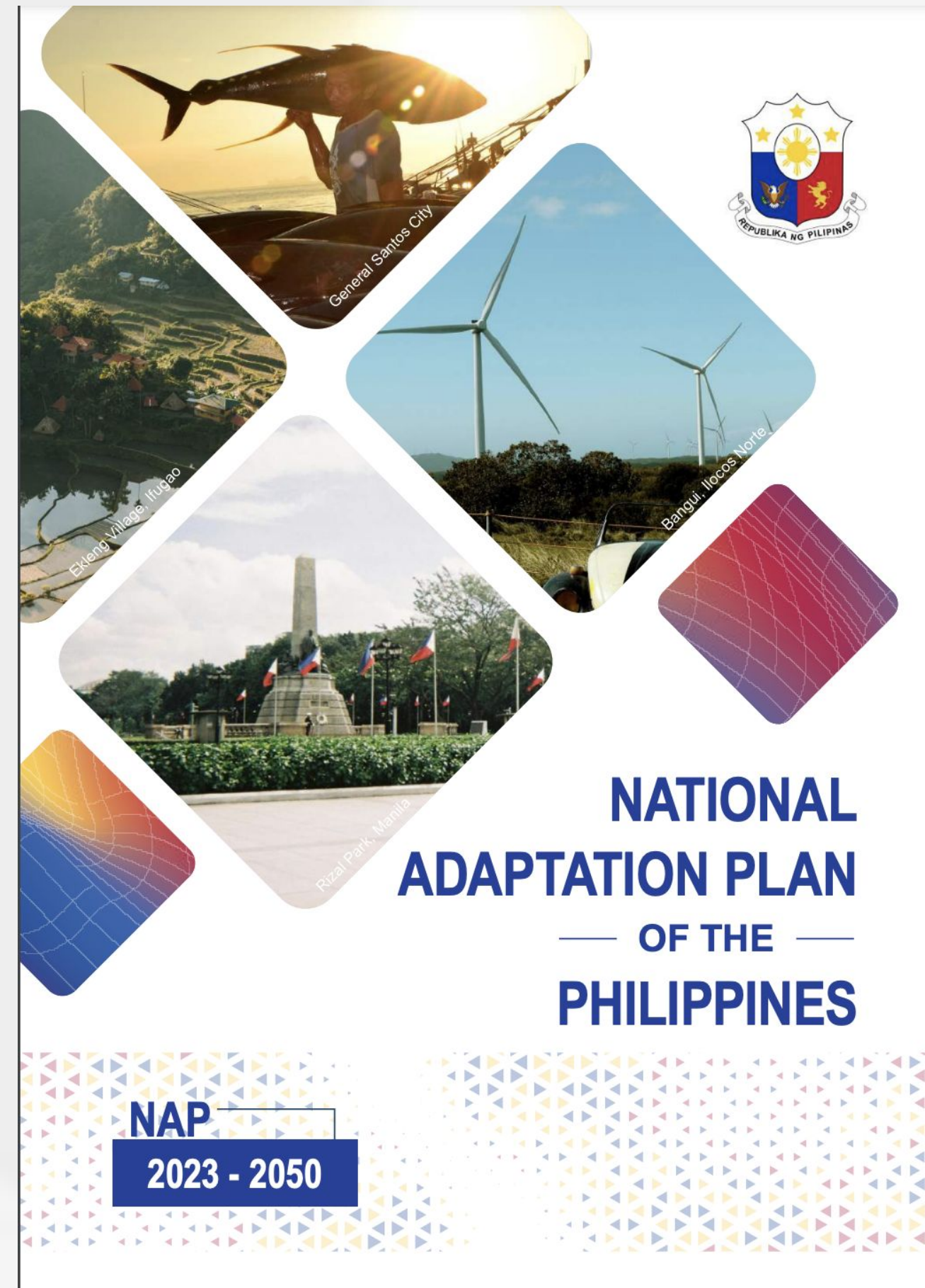
NIPAS Marine Protected Area Capacity Building Program

- Developed eight (8) modules in partnership with USAID and US NOAA;
- Roll-out of two modules
 - Assessing Benefits and Threats
 - Specialized module on Damage Assessment, Response, Rehabilitation, Restoration, and Monitoring focusing on Oil Spill Response (Environmental Sensitivity Index and Shoreline Clean-up Assessment Technique); and
- Coordination with local experts (e.g., NGAs, LGUs, academe)



Climate Change Adaptation

A whole-of-nation approach in addressing the country's vulnerability to current impacts and future risks to climate change and disasters

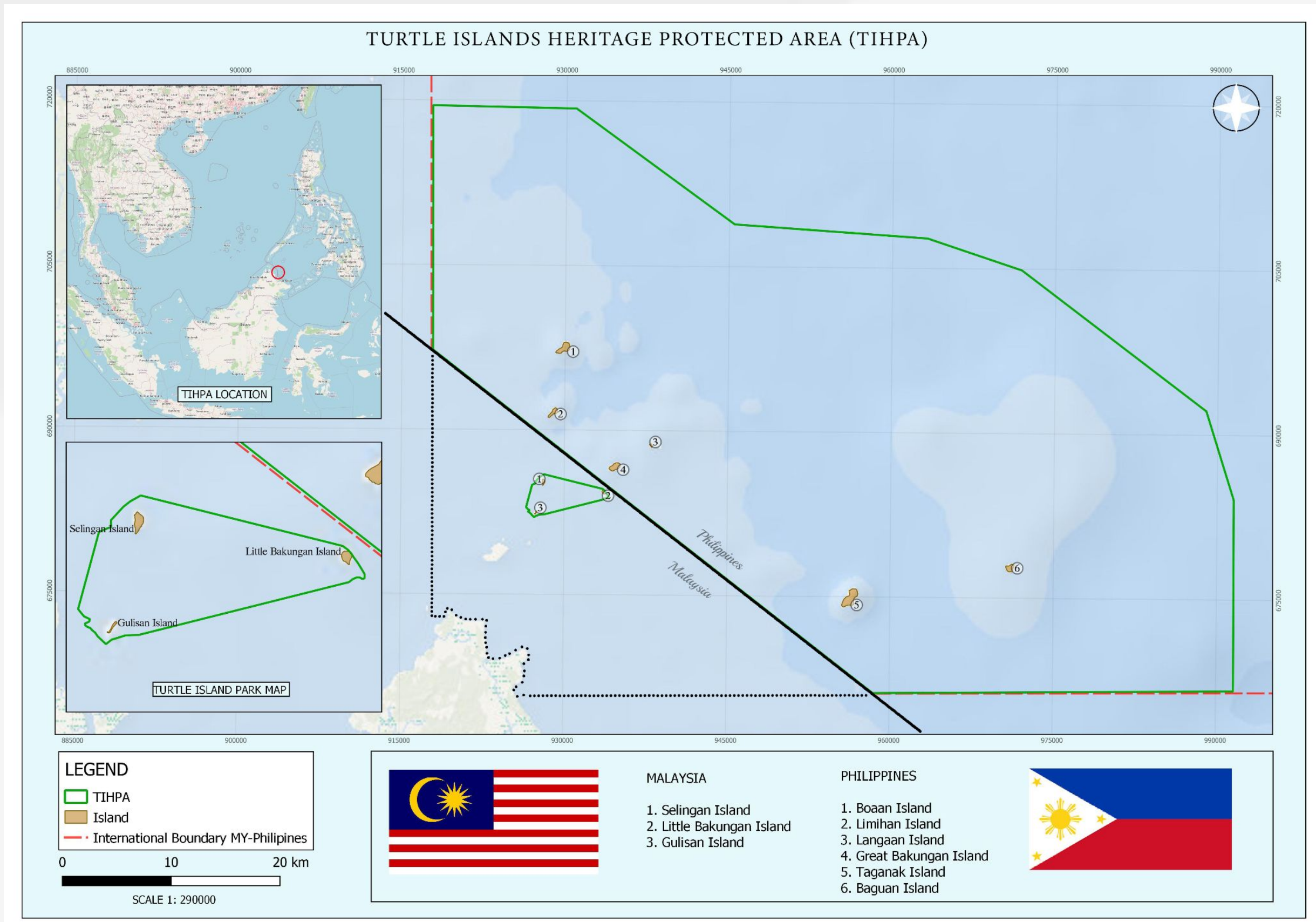


Climate Change Adaptation



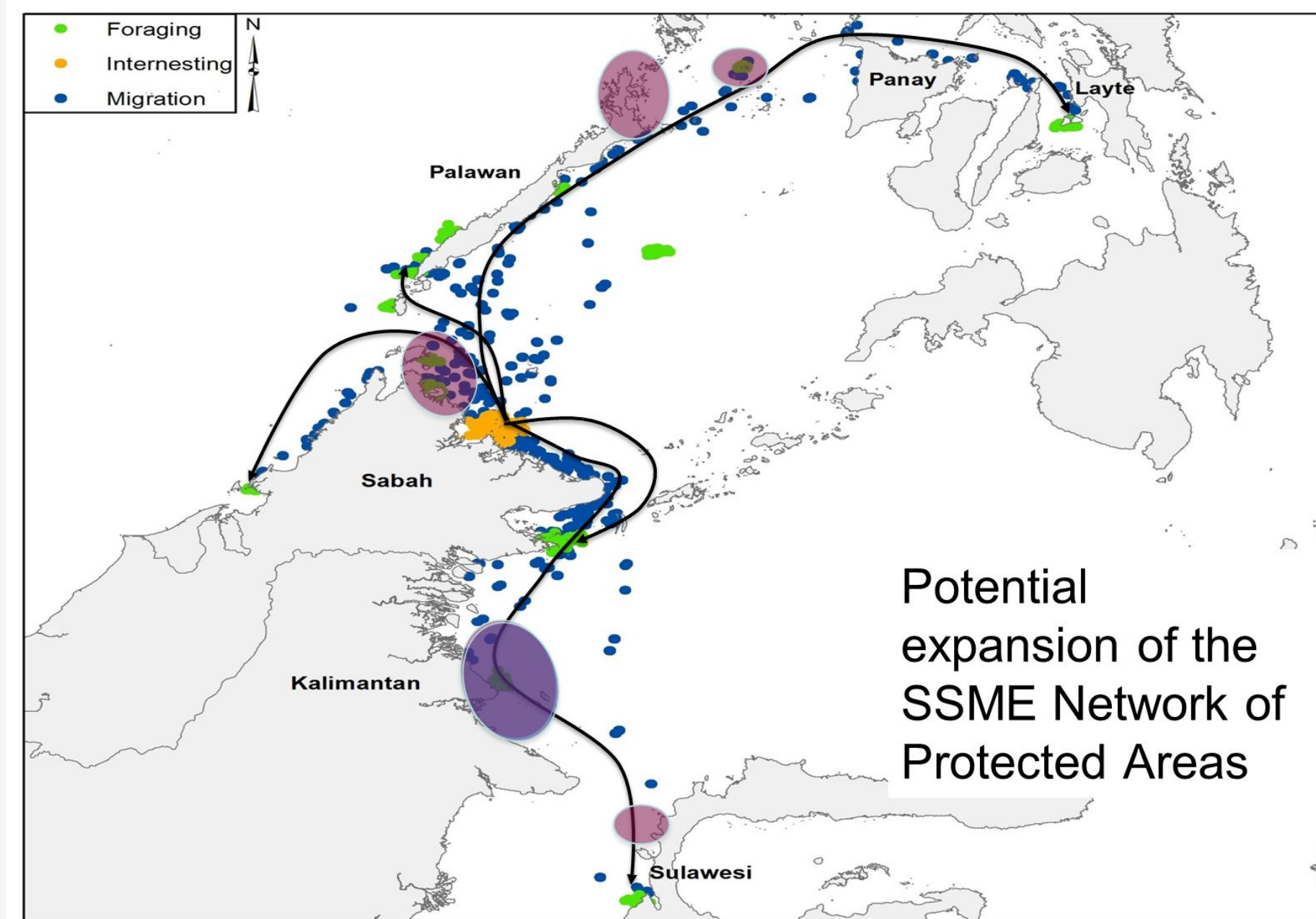
Seascapes

Joint Management Committee Turtle Islands Heritage Protected Area



Seascapes

Establishment of the Sulu Marine Turtle Protected Area Network



MEMORANDUM OF AGREEMENT ON THE ESTABLISHMENT OF THE PHILIPPINE MARINE TURTLE PROTECTED AREA NETWORK

This Memorandum of Agreement (the "Agreement") is made and entered on the 24th day of October 2017 in the City of Pasay, by and among:

The **DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**, hereinafter referred to as "**DENR**", with office address at Visayas Avenue, Diliman, Quezon City, represented by its Secretary, **ROY A. CIMATU**;

The **PROVINCIAL GOVERNMENT OF PALAWAN**, hereinafter referred to as "**Province of Palawan**", with office address at Provincial Capitol Building, Rizal Ave. cor. Fernandez St. 5300, Puerto Princesa City, Palawan, represented by its Governor, **HON. JOSE CHAVES ALVAREZ**;

The **PROVINCIAL GOVERNMENT OF TAWI-TAWI**, hereinafter referred to as the "**Province of Tawi-Tawi**", with office address at Provincial Capitol, Tubig-Boh, Bongao, Tawi-Tawi, represented by its Governor, **HON. RASHIDIN MATBA**;





The **PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT**, hereinafter referred to as "**PCSD**", a government entity created under Republic Act No. 7611 [Strategic Environmental Plan (SEP) Act], with principal office at PCSD Building, Sports Complex Road, Sta. Monica, Puerto Princesa City, Palawan, represented by its Executive Director, **NELSON P. DEVANADERA**;

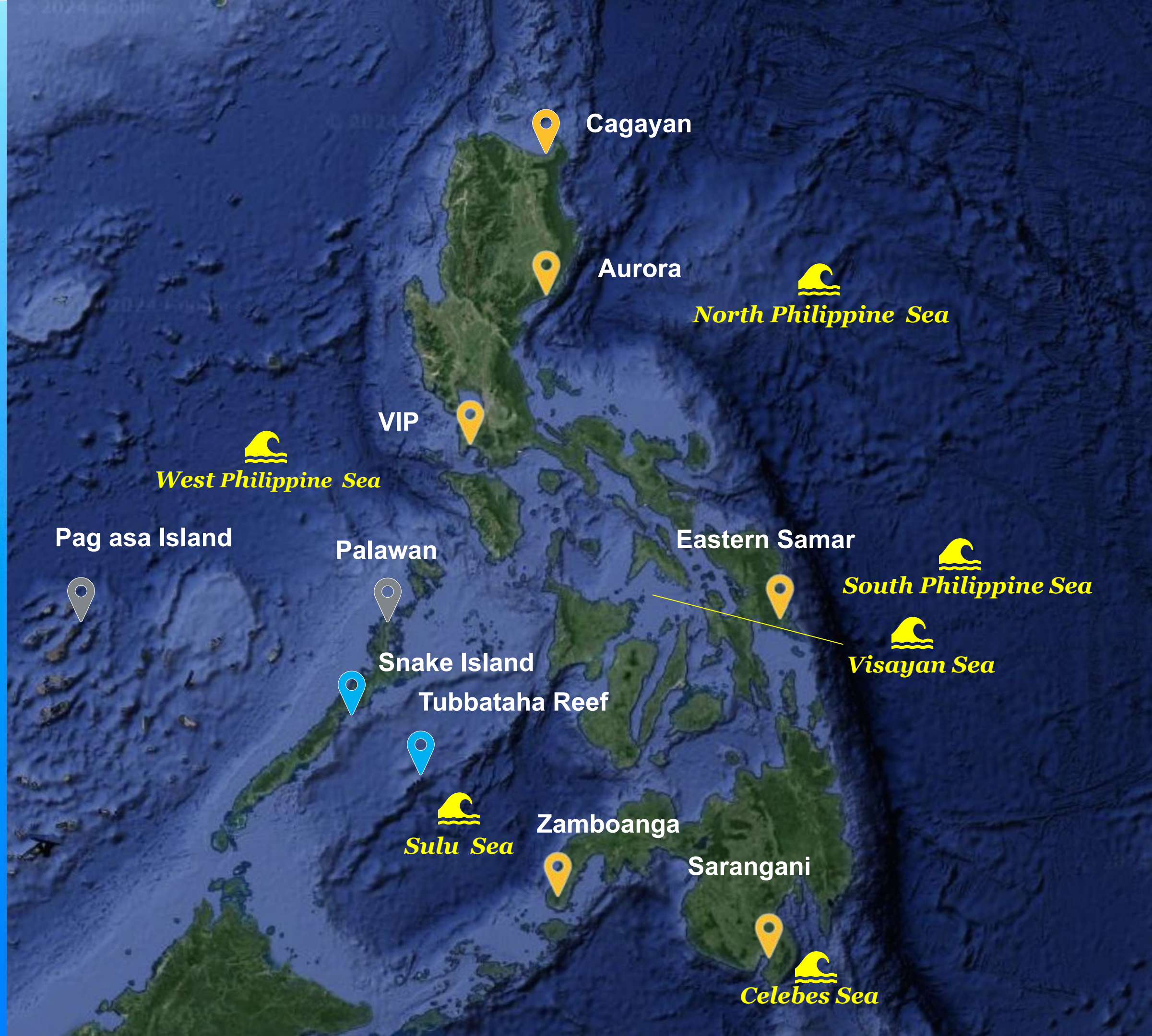
The **PROTECTED AREA MANAGEMENT BOARD OF TUBBATAHA REEFS NATURAL PARK**, hereinafter referred to as the "**TRNP**"; represented by its Co-Chairperson, **HON. JOSE CHAVES ALVAREZ**, authorized under Protected Area Management Board Resolution No. 17-096;

The **PROTECTED AREA MANAGEMENT BOARD OF EL NIDO-TAYTAY MANAGED RESOURCE PROTECTED AREA**, hereinafter referred to as the "**ENTMRPA**," represented by its Chairperson, **NATIVIDAD Y. BERNARDINO**, authorized under Protected Area Management Board Resolution No. 2017-2A, Series of 2017;

- and -


All six marine biogeographic regions in the Philippines represented

-  Proposed NEW DENR Marine Stations
-  Proposed CO-MANAGED Marine Stations
-  Existing DENR Marine Stations
-  Marine Biogeographic Regions




Threatened Species

26 identified priority threatened species



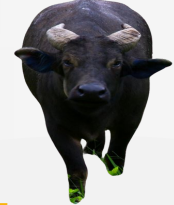
Dugong
21 dugong habitats monitored



Marine Turtles
485 nesting sites monitored



Philippine Crocodile
About 237-263 individuals
estimated population



Tamaraw
Around 465-493 individuals
estimated population



Philippine Cockatoo
Around 650 -1,120 individuals
estimated population

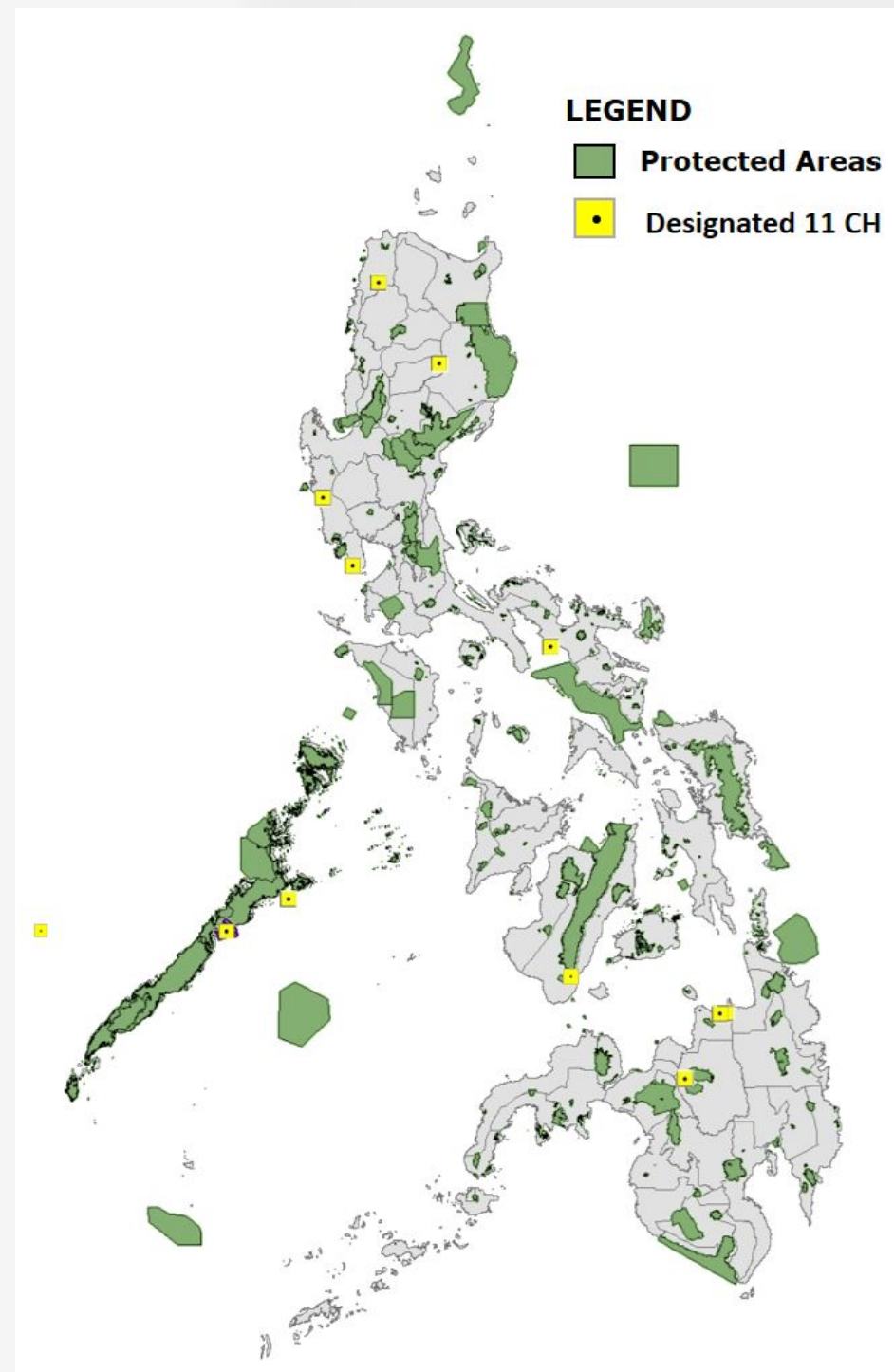


Philippine Eagle
About 392 pairs
or 784 individuals
estimated population

Outcome/ Major Output Indicator	Universe	To date Accomplishment	CY 2023 Target	CY 2023 Accomplishment	% Accomplishment	
					CY 2023 A/T	To date A/U
Site monitoring for the priority threatened species conducted (no. of sites)						
Phil Eagle	134	134	37	37	100%	100%
Crocodiles	70	70	35	35	100%	100%
Tamaraw	4	4	1	1	100%	100%
Phil Cockatoo	11	11	5	5	100%	100%
Marine Turtles	428	428	137	142	104%	100%
Dugong	21	21	7	7	100%	100%

Threatened Species

CRITICAL HABITAT ESTABLISHMENT (RA 9147)



WILDLIFE LAW ENFORCEMENT



*Non-DENR WEOs came from partners (LGUs, PO, PNP, Phil. Army, PNP-MG, PNP-AVSEGROUP, PCG, NGO, MARINA, BOC, DA, NCIP, NBI, DOJ, CAAP)

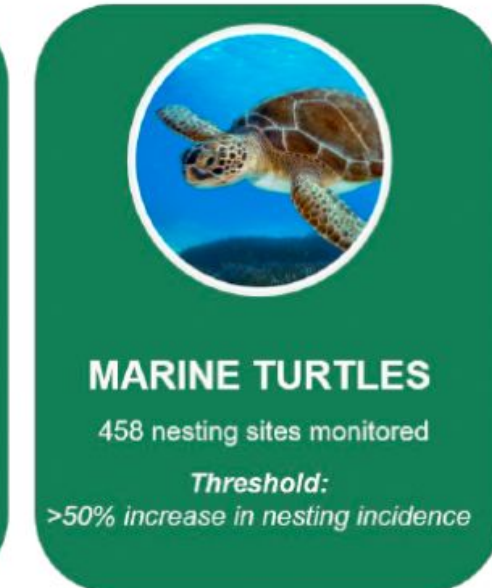
Outcome/ Major Output Indicator	Universe	To date Accomp	CY 2023 Target	CY 2023 Accomp	% Accomplishment		Baseline
					CY 2023 A/T	To date A/U	
Number of critical habitats established and managed	88	11 established	2 for establishment	-	-	13%	77
		11 managed	8 DENR managed and 3 PCSD managed	8 DENR managed and 3 PCSD managed	100%	13%	
Percentage of wildlife permits, certifications and/or Clearance applications acted upon	N/A	N/A	8,119 (DENR and PCSDS)	14,200 (DENR and PCSDS)	175%		N/A
Wildlife Trafficking Monitoring Units (WTMUs) mobilized	273 (85 airports & 188 seaports)	203 (47 airports & 156 seaports)	162 (46 airports & 116 seaports)	203 (47 airports & 156 seaports)	125%	74%	70 (38 airports & 32 seaports)

Threatened Species

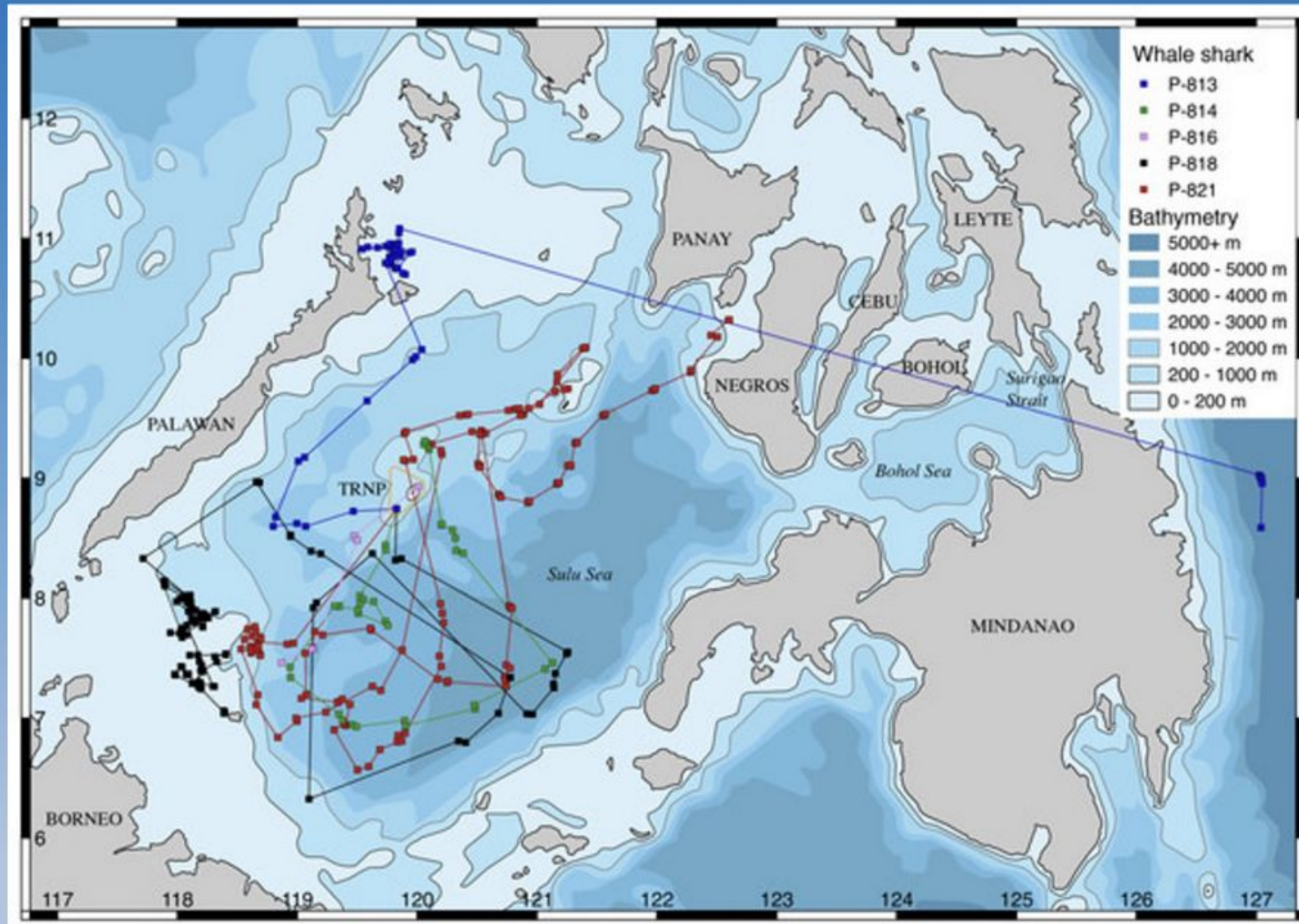
PROTECTION AND CONSERVATION OF WILDLIFE

Strengthen habitat restoration, captive breeding program and enforcement of wildlife protection and conservation

- Implement **conservation measures for the 5 initially identified priority species** in 2024, and **additional 6 species** including breeding programs for crocodile, pangolin, hornbills, among others
- **Establishing two (2) additional and sustaining eleven (11) critical habitats**
- **Invasive Alien Species (IAS)** management
- **Wildlife Disease Surveillance**
- Maintenance/ Management of 34 **Wildlife Rescue Centers**
- **Strengthen enforcement activities to reduce wildlife crime hotspots** in areas of biodiversity importance including updating of wildlife crime hotspots



Threatened Species



Araujo et al. 2018. Satellite tracking of juvenile whale sharks in the Sulu and Bohol Seas, Philippines. PeerJ. 6:e5231; DOI 10.7717/peerj.5231

SHARK TALK

POINT OF VIEW

Sharks kill **6 humans** every year ...

Humans kill **100 million** sharks every year ...

SHARK TALK

Great hammerhead shark
Sphyrna mokarran "krusan"

Sphyrna from Greek, *sphyrna* meaning hammer. *S. mokarran* has distinct notch in the center of the head with nearly straight anterior margin in adults (red arrow). Circumglobal species occurring in warm temperate and tropical waters including the Philippines. Conservation Status: listed as **Critically Endangered (CR)** under IUCN Red List, listed under **CITES Appendix II** and **fully protected** by Philippine laws.

SHARK TALK

Common thresher shark **BAWAL**
Alopias vulpinus "pating"

Alopias from Greek, *alopex* meaning fox. *A. vulpinus* has small eyes, long narrow-tipped caudal fin, and with a conspicuous white patch over the pectoral fin bases (red arrow). Circumglobal species occurring in warm temperate and tropical waters including the Philippines. Conservation Status: listed as **Vulnerable (VU)** under IUCN Red List, listed under **CITES Appendix II** and **fully protected** by Philippine laws.

SHARK TALK

Smooth hammerhead shark
Sphyrna zygaena "krusan"

Sphyrna from Greek, *sphyrna* meaning hammer. *S. zygaena* does not have a notch in the center of the head (red arrow). Circumglobal species occurring in warm temperate and tropical waters including the Philippines. Conservation Status: listed as **Vulnerable (VU)** under IUCN Red List, listed under **CITES Appendix II** and **fully protected** by Philippine laws.

Monitoring and Evaluation Working Group



Monitoring and Evaluation Working Group



Workshop on the CTI-CFF RPOA 2.0 Monitoring and Evaluation Plan Framework - 7-10 February 2023



CTI-CFF NPOA 2.0 Development cum NSOC Updating Workshop - 23-28 July 2023



M&E Plan Framework and Investment Planning 7-10 November 2023



2024 DENR-DA Consultation Workshop - Cluster 1



2024 DENR-DA Consultation Workshop - Cluster 2



2024 DENR-DA Consultation Workshop - Cluster 3

Monitoring and Evaluation Working Group

NPOA National Consultation Workshop - July 18, 2024



CTI-CFF PH NCC Secretariat and NCC Meetings



CHALLENGES

- Limited participation from the relevant government agencies due to conflicting schedules;
- Lack of dedicated personnel for CTI work from the NCCC Secretariat;
- Intervening activities of the NCCC Secretariat (regular target programs);
- Frequent turnover and transitions in government personnel, often in response to evolving events, can disrupt the continuity of data management and compromise the quality of information collected;
- Limited allocations and budget for the implementation and absence of M&E Plan of the National Plan of Action 2021-2030; and
- Alignment to national plans and international agreements

Potential Regional Program and Support Required



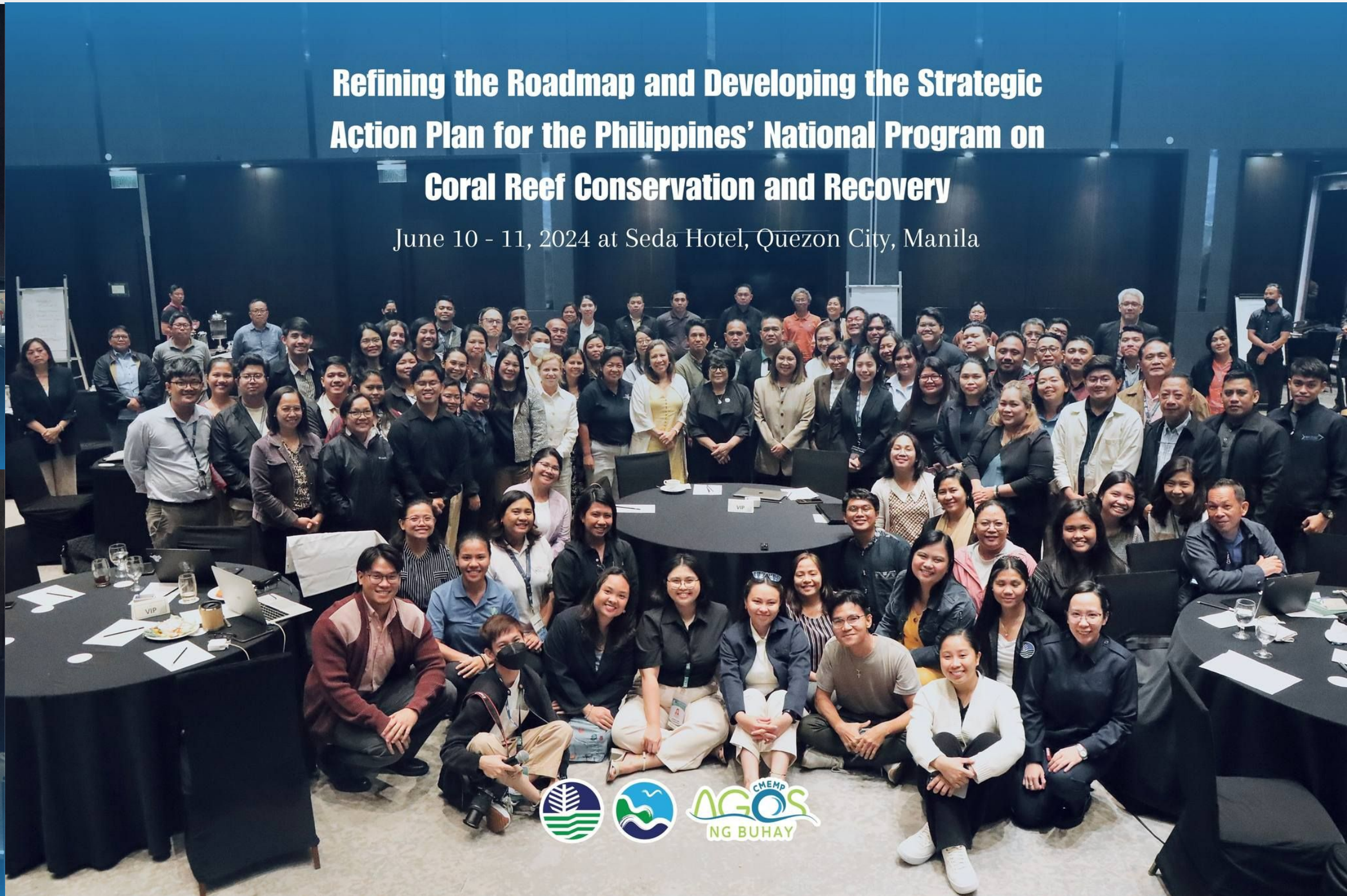
What Are Potential Transboundary Synergies Within the Seascapes on EAFM & Threatened Species?

- Expand TIHPA to include Indonesia's Marine Turtle MPA within the corridor
- Invite Indonesia to the TIHPA meeting first as an observer and present at the September meeting.
- Encourage research and academic collaboration within the Seascape, including genetic studies on green turtles within the Sulu-Sulawesi Seascape (SSS).
- Align EAFM and MPA policies.
- Capacity building activities and research.
- Exchange on fisheries harvest control policies between the three countries.
- Oceanographic survey.
- Link with BIMP-EAGA as a platform to discuss SSS.
- Conduct value chain study for fishing communities to get incentives from SSS collaboration.
- Learning exchange on Gender Equality, Social Inclusion (GESI), and Climate Change in Fisheries Management.

Coral Triangle Day Celebration



Coral Triangle Day Celebration



Communication and Publications



Communication and Publications



The Philippine Journal of Fisheries

Volume 31 Number 2, July–December 2024



Fisheries Traceability, Drivers, and Barriers to its Adoption: A Review



Advanced Online Publication

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Authors: Edison D. Macusi*, Ivy M. Nallos, Elaine Q. Borazon, Miko C. Castro, Christine P. Peralez

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Story from the Field



Verde Island Passage as a Hope Spot

A Visit to the World's Epicenter of
Marine Shorefish Biodiversity and a
Hope Spot: The Verde Island Passage

23-27 JUNE 2024



Women in Conservation: 2024 Women's Forum



Maraming Salamat Po!

COUNTRY REPORT - PHILIPPINES

SOM19
DILI, TIMOR-LESTE

