

HOW TO CONSERVE MARINE RESOURCES AND STRENGTHEN MPA NETWORKING TO ENSURE A HEALTHY OCEAN --- LESSONS LEARNED FROM CI'S SEASCAPE ACHIEVEMENTS

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CONSERVATION
INTERNATIONAL



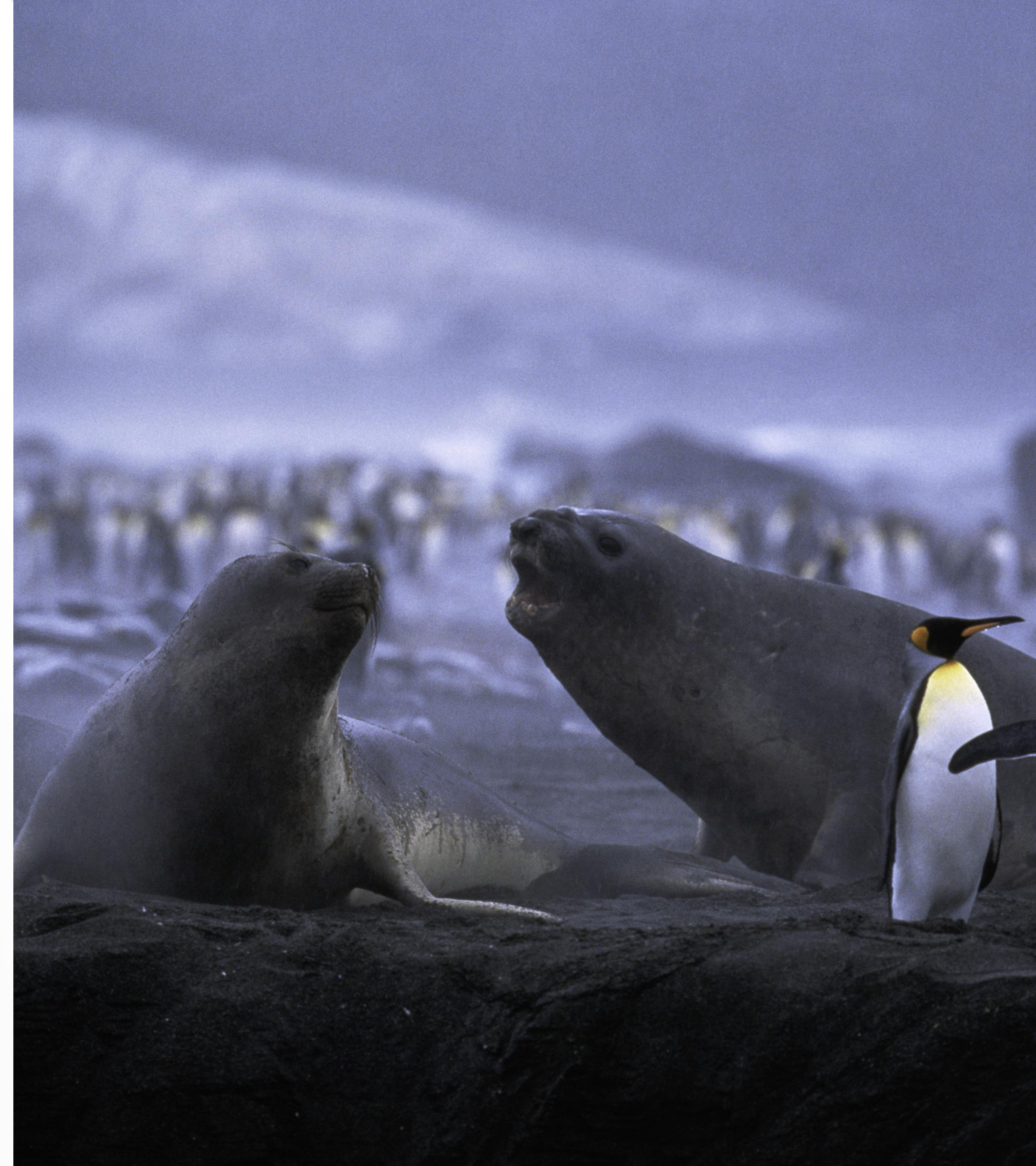
CI's Approach

- blue production
- climate change and blue carbon
- blue economy
- blue horizon



Achieving the YSLMAE-II objectives will require:

- data and tools
- smart policies
- innovative community-based EBM
- All kinds of stakeholders' partnerships



CI can help:

- MPA training and networking
- Ecosystem Based Management (EBM)
- field demonstrations
- climate change and blue carbon initiative
- blue production and sustainable fisheries
- Ocean Health Index (OHI)





**THE BIRD'S HEAD
SEASCAPE**

West Papua Province, Indonesia
- 1 city and 10 regencies (kabupatens)
- Just under 2 million people in an area the size of
peninsular Malaysia (225,000 km²)

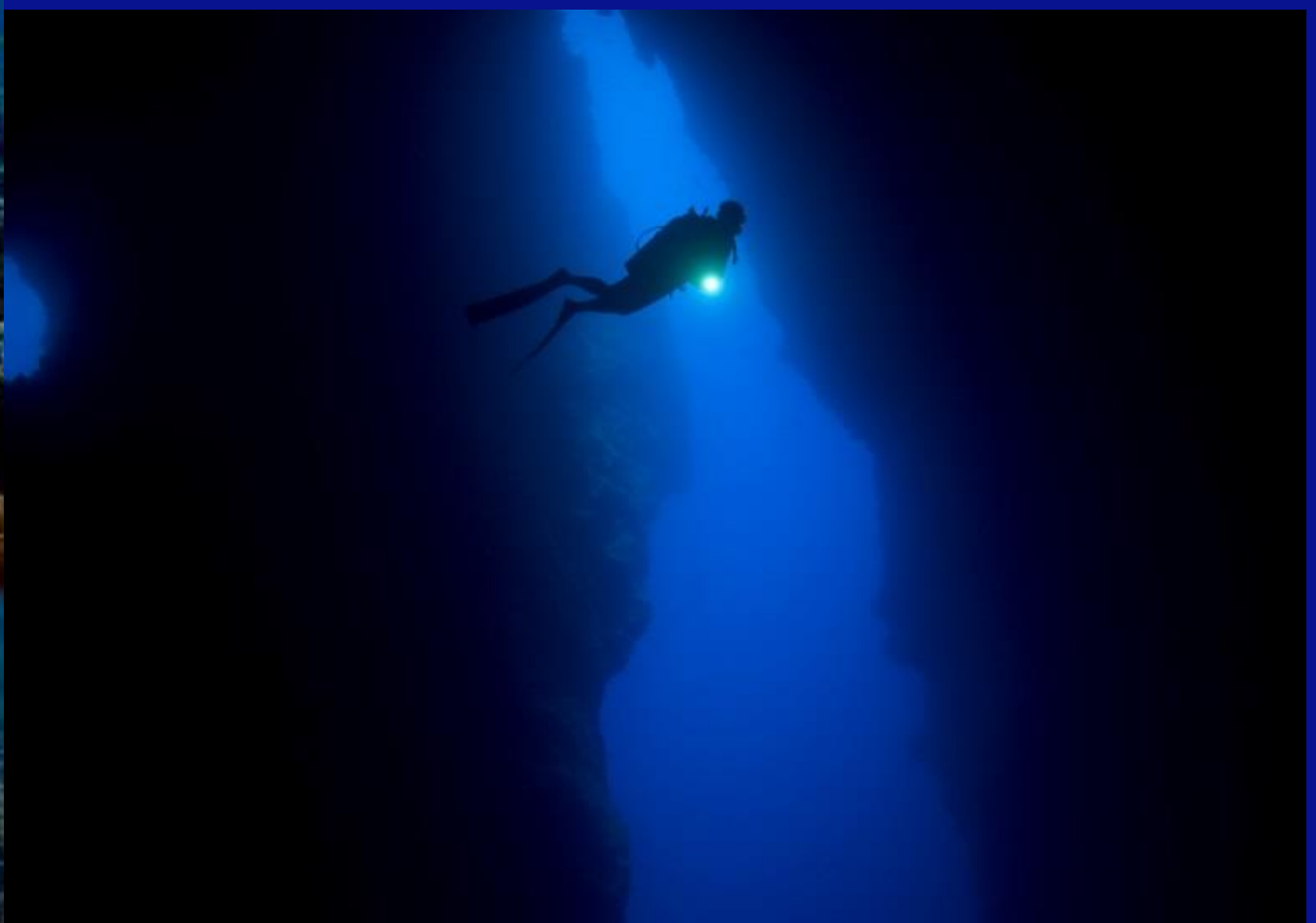
THE BIRD'S HEAD?????

Squawk!!!





**NGO
Support
across the
Seascape**



CENDRAWASIH BAY FISH ENDEMIC



Largest
Pacific
Leatherback
Sea Turtle
Nesting
Beach in
the World



An underwater photograph showing two manta rays swimming in clear blue water. The larger ray is in the upper left, and a smaller one is in the lower right. The text 'Mantas, Dugongs, Cetaceans' is overlaid on the left side of the image.

Mantas, Dugongs, Cetaceans

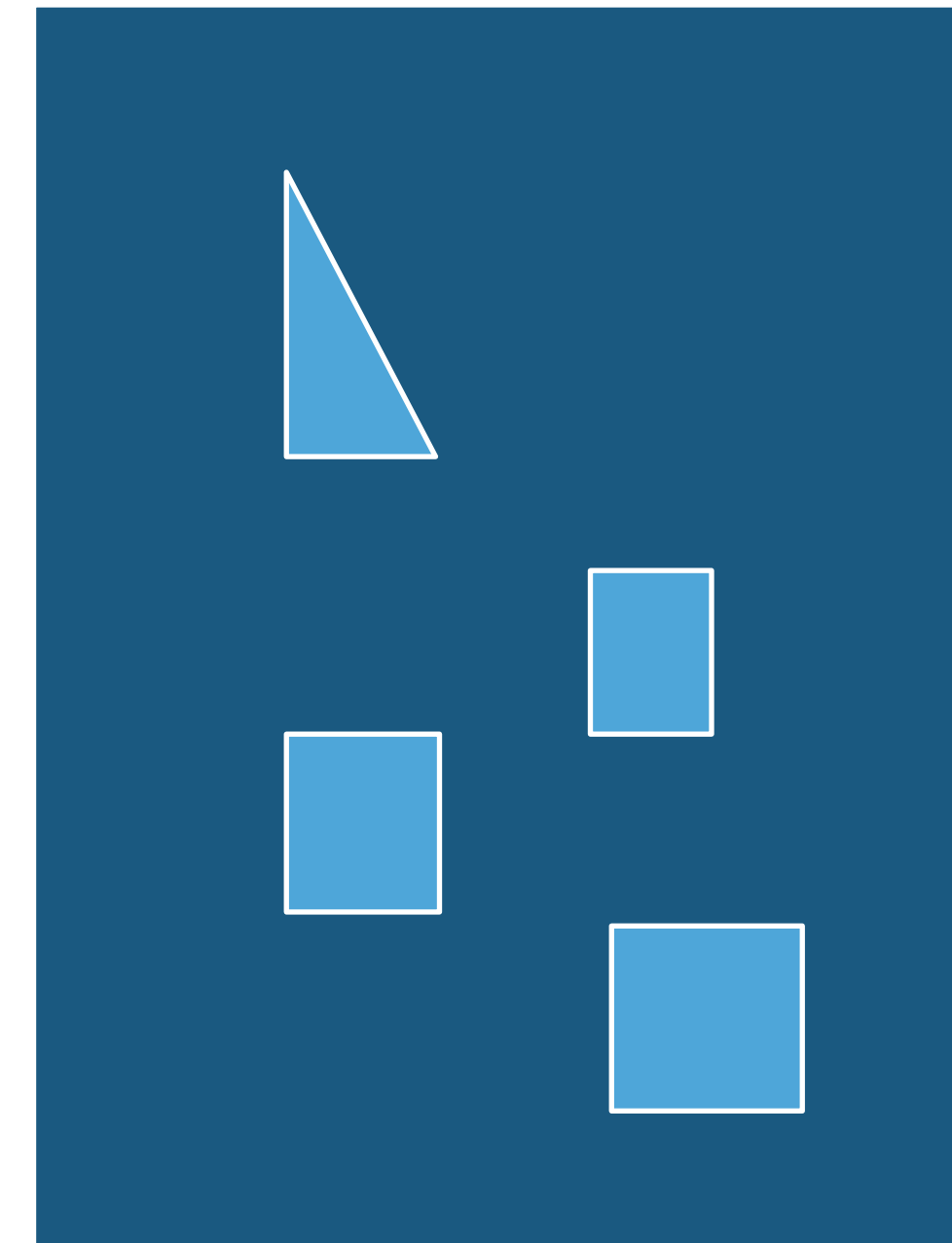
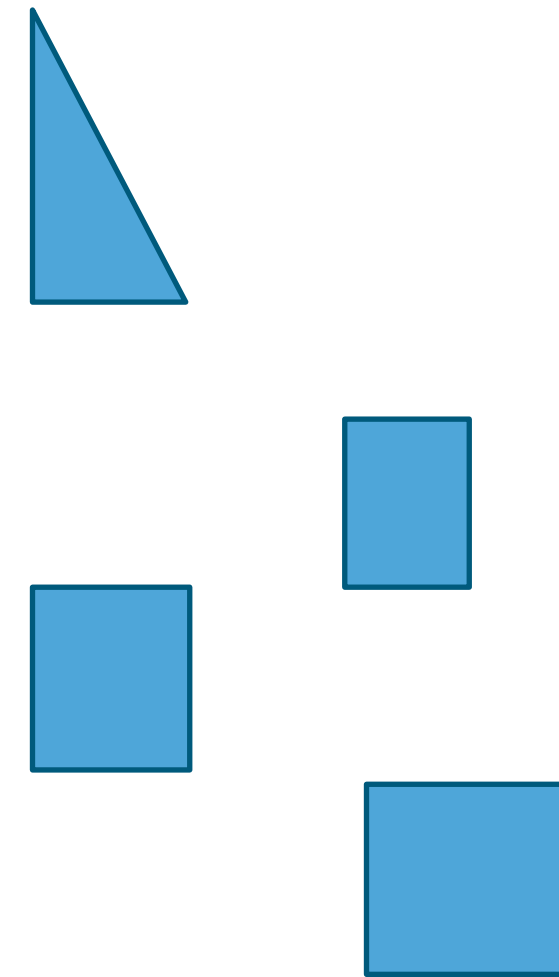
A large whale shark is swimming horizontally across the frame in clear blue water. The shark's body is covered in a pattern of white spots and stripes. A diver in a black wetsuit and yellow fins is swimming above the shark, looking towards it. The water is filled with many small fish, and sunlight filters down from the surface, creating a shimmering effect.

Aggregating Whale Sharks

3 Walking Sharks



MPA Models in the Coral Triangle



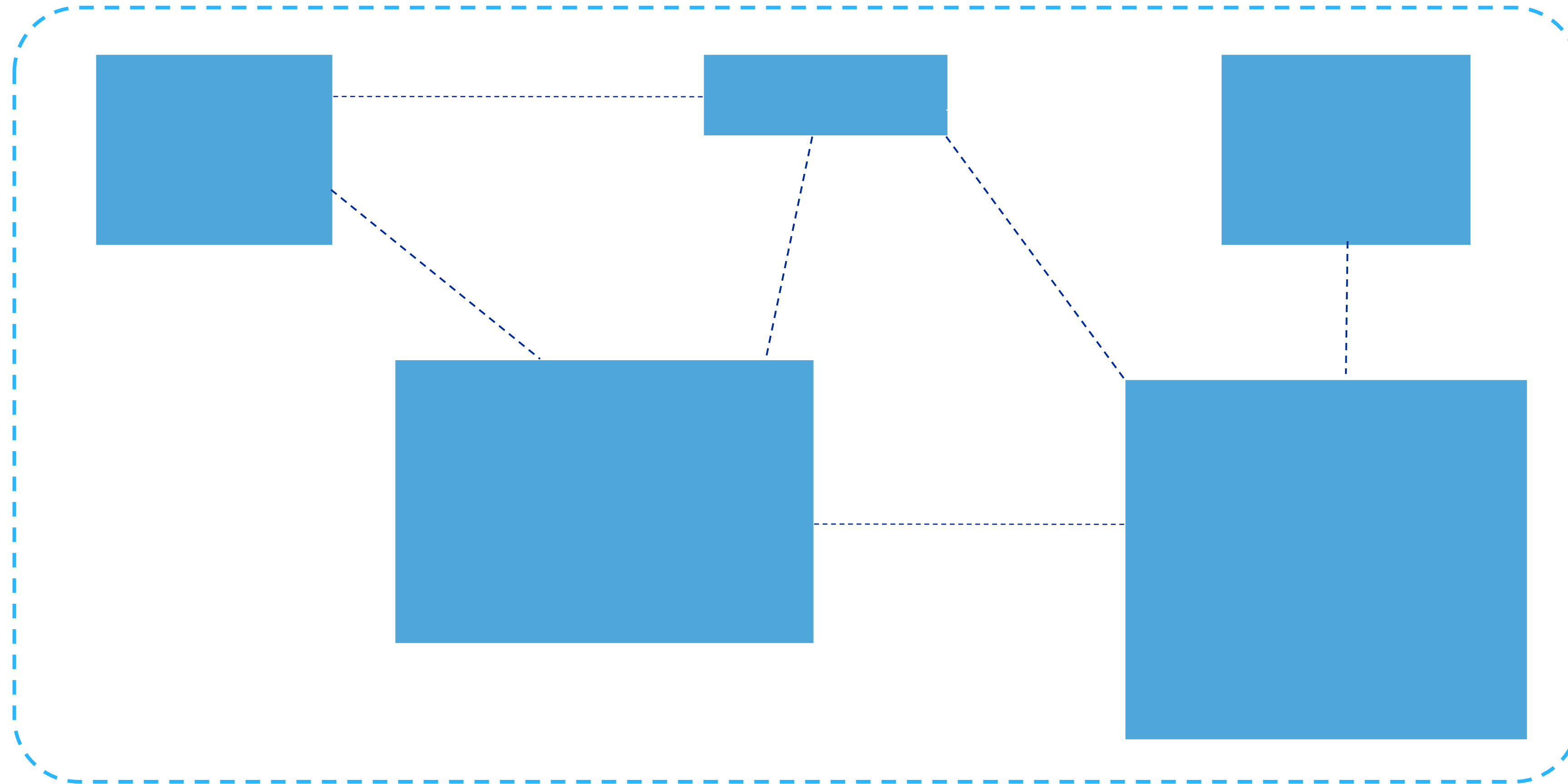
Locally Managed Area Model

Small reserves with objectives and management set by communities

MPAs Networking Model

Large Multiple use MPAs with objectives and management set by government

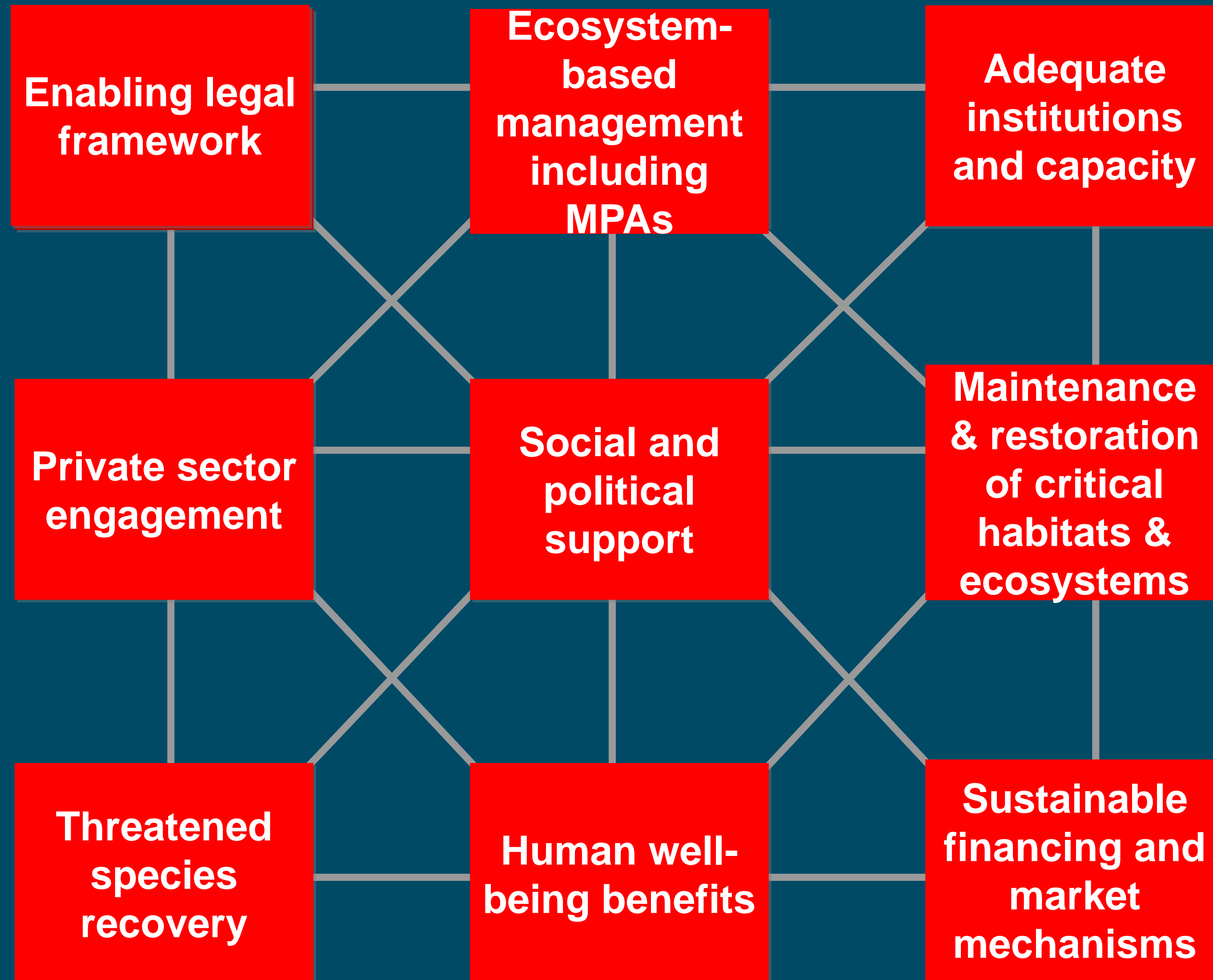
Bird's Head Seascape Model



Community Driven Co-Management Model

Multiple-use network of ecologically connected MPAs within a seascape framework that is co-managed by local communities and local government agencies.

9 Seascape Essential Elements



CI' s Strategic Approach in BHS

- **Scientific Characterization** of the Seascape— including biological, oceanographic, and socioeconomic studies.

Ecosystem

- Creating an **Enabling Environment** for conservation— government lead, community engagement, livelihoods development, local partnerships, outreach campaigns, conservation education

Based Management!

- Facilitating the declaration and implementation of a **network of marine protected areas (MPAs)** to both protect biodiversity and ensure sustainable fisheries



TURNING NEW SPECIES DISCOVERIES INTO CONSERVATION ACTION



Sosok

"Freddy Number Two"

Sambil berseloroh tentang penamaan ikan yang mengambil nama dirinya, Freddy Numberi dengan bangga dan senang menerima pemberian nama tersebut. "Biasanya saya dipanggil dengan Freddy number one, kini ada Freddy number two," katanya melihat ejaan namanya bertambah satu huruf 'Y', karena menjadi nama ilmiah spesies ikan. Nama ikan ini kata Freddy, akan menjadi "freddy number two" yang mengubah panggilannya sejak masa sekolah, selalu dipanggil "Freddy number one".

Pak Menteri menerima penghormatan penamaan itu dari peneliti ikan Dr Mark Erdmann, dan menabalkan salah satu ikan

berasal dari kawasan Kepala Burung Papua, dengan nama ilmiah *Pentapodus numberi*. Freddy dipilih karena jasanya yang besar atas upaya konservasi laut Indonesia.

Freddy adalah putra Papua kelahiran Senui, Oktober 1947. Dia berhasil merintis karirnya di bidang militer hingga berpangkat Laksamana Madya dan setelah pensiun masuk dalam kancah politik Indonesia. Pernah menjabat Gubernur Papua pada tahun 1998 lalu dalam Kabinet Persatuan Nasional (1999-2001), Freddy adalah Menteri Pendayagunaan Aparatur Negara. Di bawah pemerintahan Megawati Soekarnoputri, Freddy dipilih sebagai Duta Besar Indonesia untuk Italia dan Malta. Ia lalu dilantik sebagai Menteri Kelautan dan Perikanan pada tahun 2004. Frederick



Freddy Numberi

- Naming new species is normally a decidedly boring affair!
- Why not capture the excitement generated by new species finds and use that to generate conservation action?
- One option: naming after local leaders/institutions to generate local pride and political commitment

“BUILD AND TRANSFER”



- These highly-trained and passionate teams are now being transitioned into a “UPTD” MPA management board within the govt – ensuring a sustainable institution into the future
- Over time, CI’s role will change dramatically from one of “implementor” to simple technical assistance

1 dead manta ray = US\$500



**1 live manta ray = \$1 million from
tourism over its lifetime**



Kalabia Marine Conservation Education Program



An aerial photograph of an offshore wind farm. Numerous wind turbines are visible, stretching across the horizon. In the foreground, a white service vessel with a red flag is moving away from the viewer, leaving a white wake in the blue water. The sky is a pale, hazy blue with some light clouds. The overall scene is clean and modern, representing sustainable energy.

**A HEALTHY OCEAN SUSTAINABLY DELIVERS A
RANGE OF BENEFITS
TO PEOPLE NOW AND IN THE FUTURE**

10 Goals



Food Provision

HARVESTING SEAFOOD SUSTAINABLY

Artisanal Fishing Opportunities

ENSURING FOOD FOR LOCAL COMMUNITIES

Natural Products

HARVESTING NON-FOOD OCEAN RESOURCES SUSTAINABLY

Carbon Storage

PRESERVING HABITATS THAT ABSORB CARBON

Coastal Protection

PRESERVING HABITATS THAT SAFEGUARD SHORES

Coastal Livelihoods & Economies

SUSTAINING JOBS AND THRIVING COASTAL ECONOMIES

Tourism & Recreation

MAINTAINING THE ATTRACTION OF COASTAL DESTINATIONS

Sense Of Place

PROTECTING ICONIC SPECIES AND SPECIAL PLACES

Clean Waters

MINIMIZING POLLUTION

Biodiversity

SUPPORTING HEALTHY MARINE ECOSYSTEMS

Structure

Pollution
Habitat destruction
Invasives
Fishing pressures
Climate change
Social pressures

Pressures
(Drivers)

status 2013
status 2014
status 2015
status 2016
status 2017

Trend five most recent years

Resilience

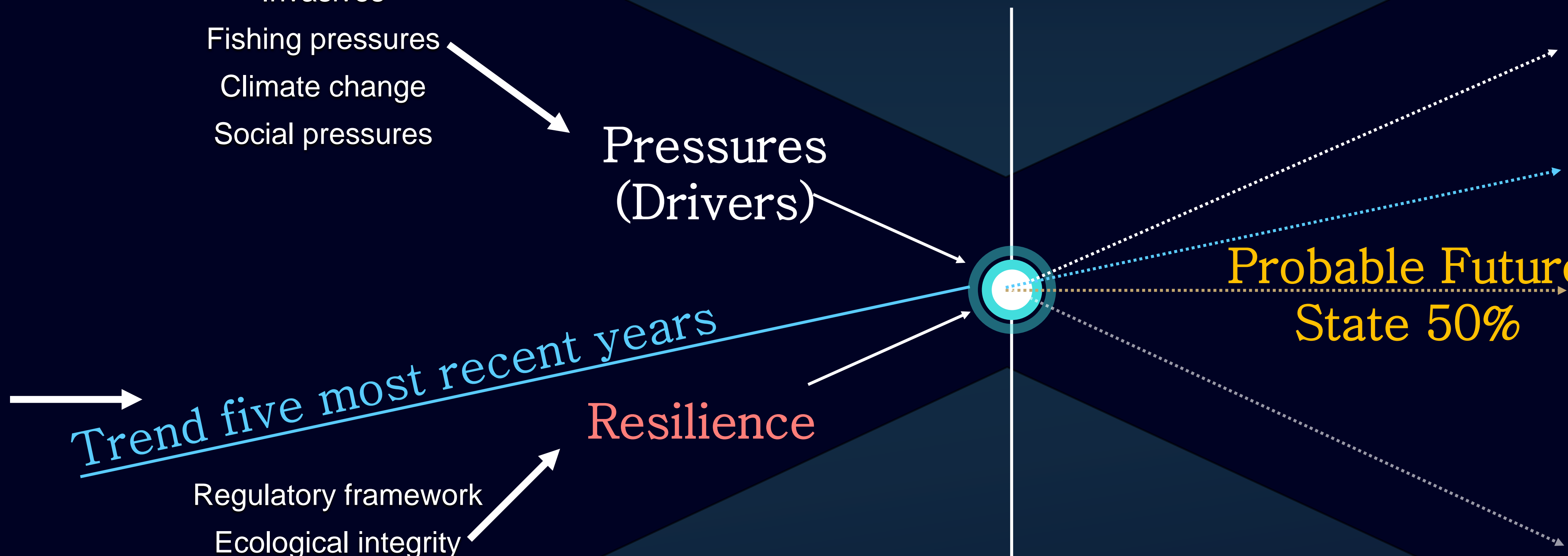
Regulatory framework
Ecological integrity
Social resilience

Probable Future
State 50%

Current Status 50%

Status data

Reference
point



Thanks!