

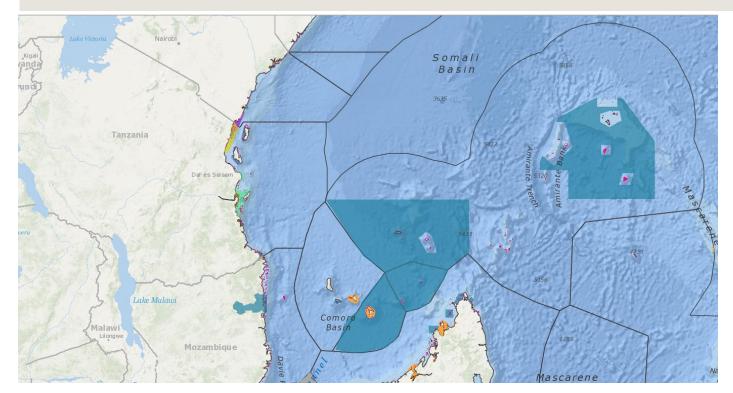
## Strengthening the WIO MPA Network and cooperative actions of governments and society

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#### Why is establishing a global network of MPAs important?

- Advocacy for the global MPA network
  - Establishment of more MPAs to adequately represent ecosystems at various scales
  - Ensures persistence of biodiversity by protecting ecological processes
  - Provides protection and safety net from climate change impacts











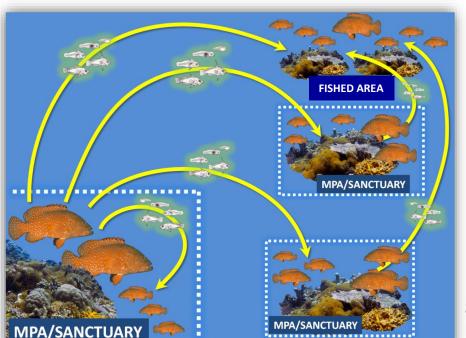


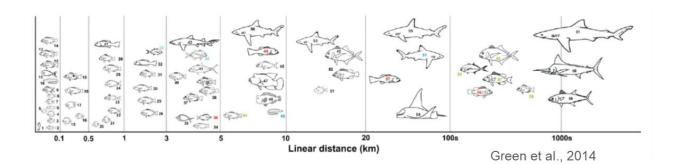


#### What is an MPA network?

- System of MPAs that protects a sufficient proportion of the population of at least one species during vulnerable life stages (juveniles and adults)
- Connectivity the linking of local populations through the dispersal or movement of larvae, juveniles, or adults

  Sale et al. 2005





Slide from RA Abesamis



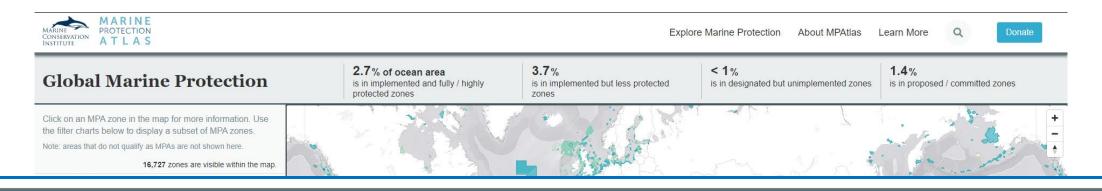








#### Where are we now at achieving global MPA targets?



#### 2.7% of ocean area

is in implemented and fully / highly protected zones

3.7%

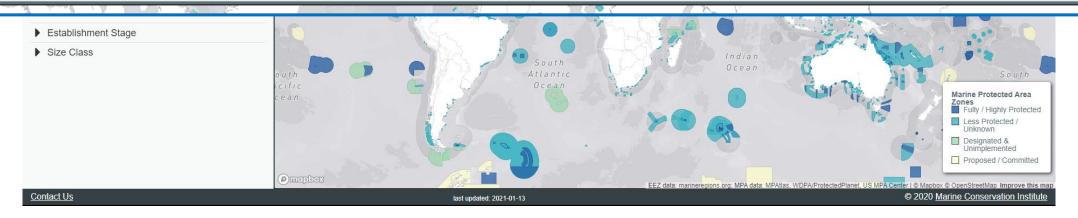
is in implemented but less protected zones

< 1%

is in designated but unimplemented zones

1.4%

is in proposed / committed zones





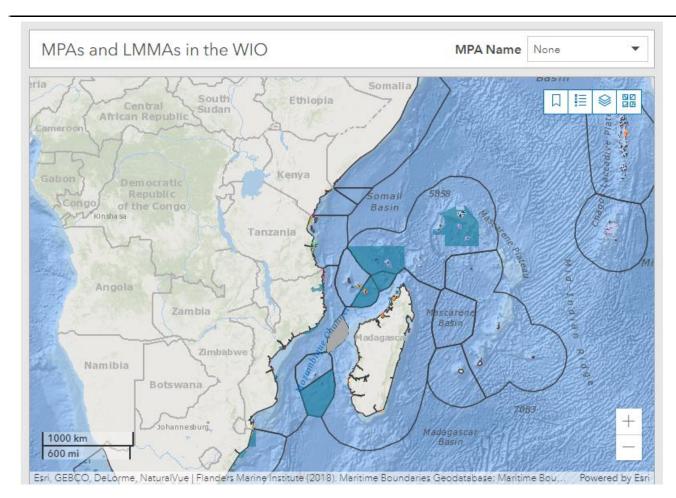
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#### Status of MPAs and OECMs in the WIO



https://wiomsa.org/wiompan/interactive-map/

- 149 MPAs and 173 LMMAs recorded
- Covers ~678K sq.km. or 8% of the combined EEZ of WIO nations
- Most of the MPAs represented nearshore ecosystems (i.e., coral reefs, seagrass beds)
  - 17% of combined East African coastline
- Established MPAs protect WIO endemic and endangered species
  - WIO coelacanth, Madagascar teal, dugongs, turtles, bird nesting sites







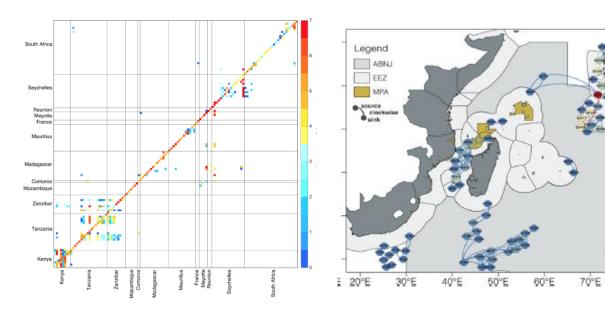




#### Status of MPAs and OECMs in the WIO

#### Main gaps

- Existing MPAs are connected, but we need to increase protection to ensure persistence of biodiversity
- Offshore features (e.g., banks, seamounts) remain largely unprotected
- The majority of MPAs (out of 101 MPAs evaluated using the METT) are not effectively managed
  - Low financial, technical, and human resource capacity
  - Contributed to weak enforcement and illegal activities



Maina et al., 2020













#### **Overall recommendation**

Formally establish the regional WIOMPAN by strengthening existing local- to regional-scale institutional arrangements and structures, and improving the design and establishment of national MPANs



## **Key recommendations**









#### Specific recommendations to establishing the WIOMPAN

#### **Technical recommendations**

 Develop and adopt a regional and systematic MPAN planning and implementation framework to support the development of national MPANs and formation of the corresponding institutional arrangements and structures



#### **General recommendations**



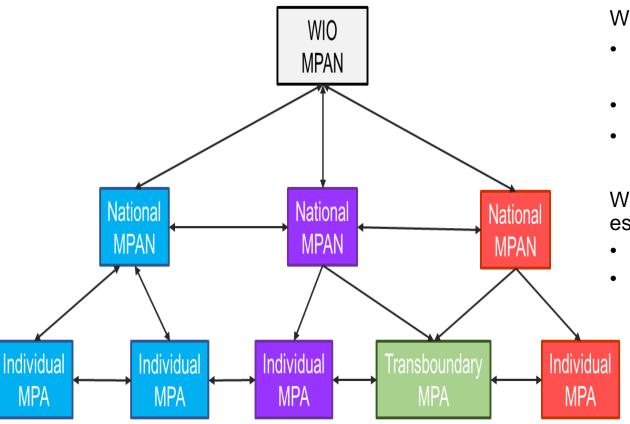






#### Specific recommendations to establishing the WIOMPAN

#### Combined top-down and bottom-up approach



Work stream 2: Developing a regional network of MPAs

- Strengthening cooperation, coordination & improving communication
- Increasing capacity
- Regional MPAN design

Work stream 1: Improving MPA management and establishing a national MPAN

- Individual MPAs as building blocks of MPANs
- Increased establishment and improved management



## **Key recommendations**









#### Specific recommendations to establishing the WIOMPAN

#### **Technical recommendations**

- Develop and adopt a regional and systematic MPAN planning and implementation framework to support the development of national MPANs and formation of the corresponding institutional arrangements and structures
- Adopt a systematic conservation planning approach to ensure that the national MPAN plans adhere to
  ecological design principles and post-2020 CBD targets, and are attuned to social, economic, and
  political contexts
- Develop and adopt a national MPAN monitoring and evaluation framework, which includes regular capacity building initiatives, to ensure that individual MPAs are effectively managed and are contributing to maintaining ecological function of the MPAN



## **Key recommendations**









#### Specific recommendations to establishing the WIOMPAN

#### **Policy recommendations**

- Strengthen existing partnerships (e.g., WIO MPA management network; country-level LMMA networks), and form new bilateral and multilateral agreements and institutional arrangements to support sharing of knowledge, resources, roles, and responsibilities to help increase MPAN management capacity
- Develop and adopt a national MPAN management and operational plan, which includes sustainability
  measures to ensure long-term financing, effective implementation, regular capacity building initiatives,
  and strong cooperation, coordination, and collaboration across all levels of organisation





#### For more information

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MPA maps

https://wiomsa.org/wiompan/interactive-map/

https://www.nairobiconvention.org/clearinghouse/node/410

#### **Acknowledgements**





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