



WIOSAP: Implementation of the Strategic Action Programme for the protection of the Western Indian Ocean from land-based sources and activities

*Nairobi Convention
Partners Meeting*

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The Journey



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Convention for the Protection, management and Development of the Marine and Coastal Environment in the Eastern African Region (Nairobi Convention)
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TDA
Transboundary
Diagnostic Analysis
Land-based activities and sources of pollution
degrading the coastal and marine environment
of the Western Indian Ocean

UNOPS Regional Seas WIO MSA



SAP
Strategic Action
Programme
Protection of the Coastal and Marine Environment of the
Western Indian Ocean from Land-based Sources and Activities

**WIOLA
B
2004 -
10**

**TD
A**

**SA
P**

**WIOSAP
2017 -
2022**

Why WIOSAP

Goal: improve and maintain the environmental health of the region's coastal and marine ecosystems through improved management of land-based stresses.

Specific Objective: To reduce impacts from land-based sources and activities

- *By Sustainably manage critical coastal and marine ecosystems*
- *Through the implementation of the agreed WIO SAP priorities*
- *With the support of **partnerships at national and regional levels***



Progress Components

- 1. Component A: Sustainable Management of Critical Habitats**
- 2. Component B: Water Quality**
- 3. Component C: Sustainable Management of River Flows**
- 4. Component D: Governance and Regional Collaboration**



Component A: Demo Projects

Project Title	Implementing Partners
1. Sustainable Management of shallow marine habitats in the Comoros through improved management planning and rehabilitation of degraded sites	General Directorate of Environment and Forests (DGEF)
2. Enhancing stakeholder capacity on use of ICZM as a tool for conservation of the coastal and marine environment through a demo ICZM project in Malindi-Sabaki Estuary Area, Kenya	The East African Natural History Society – Nature Kenya (The EANHS)
3. Towards integrated spatial planning for sustainable management of coastal and marine resources in Kilifi county, Kenya	World Wide Fund for Nature Kenya (WWF-Kenya)
4. Developing collaborative strategies for sustainable management of mangroves in the Boeny Region Littorale, Madagascar	Ministry of Environment and Sustainable Development (MEDD) - Centre National de Recherches Oceanographiques (CNRO)
5. Coral culture for small scale reef rehabilitation in Mauritius	Mauritius Oceanography Institute (MOI)



Component A: Demo Projects

Project Title	Implementing Partner
6. Assessment of Blue Carbon Ecosystem (Seagrass) around the island of Mauritius	Albion Fisheries Research Centre (AFRC)
7. Habitat restoration and attraction of seabirds to Ile aux Aigrettes, Mauritius	Mauritian Wildlife Foundation (MWF)
8. Undertake seagrass restoration for Sustainable Shellfish and drafting a management plan action guideline for seagrass restoration, Mozambique	Universidade Eduardo Mondlane (UEM)
9. Mangrove restoration and livelihood support through community participation in Limpopo River Estuary, Mozambique	Agência Nacional para o Controlo da Qualidade Ambiental (AQUA)
10. Community-based ecological coastal rehabilitation using an ecosystem approach, Seychelles	Terrestrial Restoration Action Society of Seychelles (TRASS)
11. Developing collaborative management plan and sustainable mangrove restoration model in Rufiji Delta, Tanzania	Institute of Marine Sciences (IMS) - Zanzibar

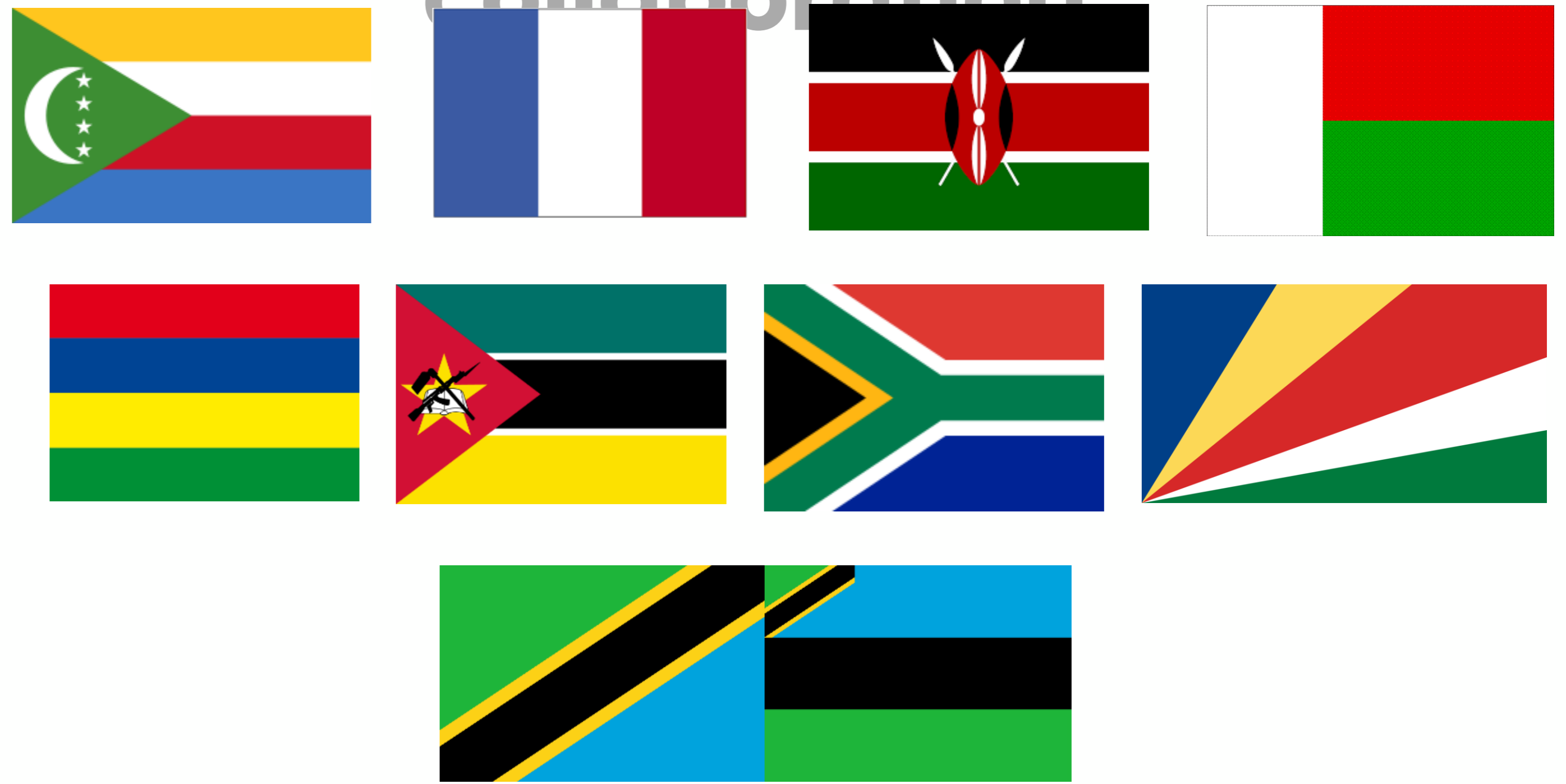


Western Indian Ocean Marine Protected Areas Outlook: *Towards achievement of the Global Biodiversity Framework Targets*

WESTERN INDIAN OCEAN
**MARINE PROTECTED
AREAS OUTLOOK**
Towards achievement of the Global Biodiversity Framework Targets



A story of regional
collaboration



Who was involved

- Nairobi Convention Secretariat (NCS) – concept, oversight, validation process
- WIOMSA – technical coordination, review process and contributions
- **MPA specialists and marine biologists from each country and internationally - as authors and reviewers**
- NC Focal Points – Governments validation and approval
- Senior government officials and government scientists – as validators and reviewers
- MPA personnel – provision of information and involvement in METT assessments



MARINE & COASTAL AREAS
UNDER PROTECTION

COMOROS

Housseni Houssoyni



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MOZAMBIQUE

Marcos A. M. Perelra



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MAURITIUS

Sanjeev Leckraz



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FRENCH TERRITORIES

Marcos A. M. Perelra



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KENYA

Arthur O. Tuda and Pascal Thoya



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REPUBLIC OF SOUTH AFRICA



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MADAGASCAR

Volanirina Ramahery, Domoina Rakotomalala
and Heritiana Raharitsimba Rahagalala



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SEYCHELLES

Jude Bijoux



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UNITED REPUBLIC OF TANZANIA: TANZANIA MAINLAND

Walter F. Mwachiro



The lagoon of the island of Pemba in the United Republic of Tanzania



St. Anne Island, Seychelles © Jennifer O'Leary



MARINE & COASTAL AREAS
UNDER PROTECTION

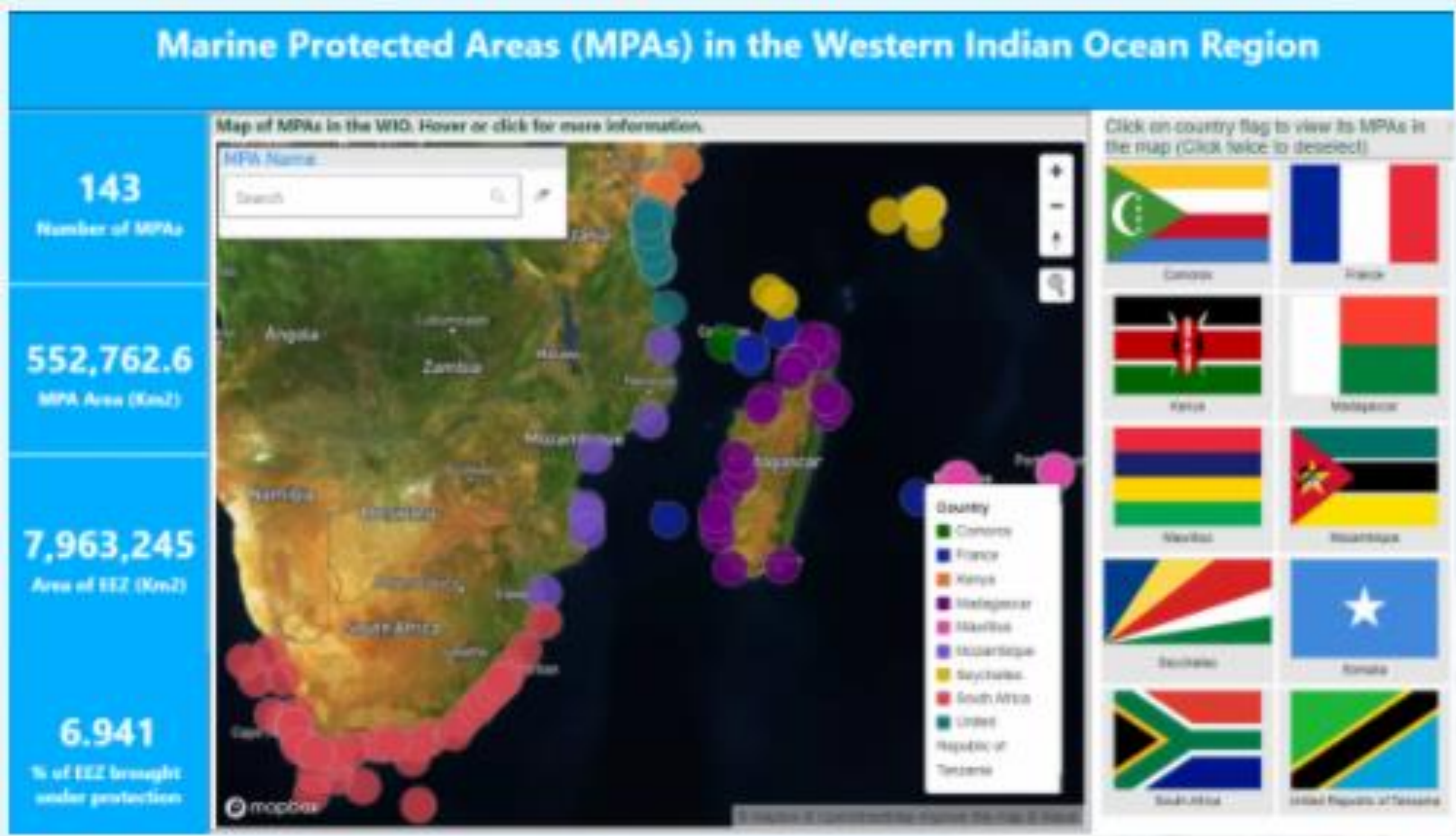
UNITED REPUBLIC OF TANZANIA: ZANZIBAR

Saleh Yahya

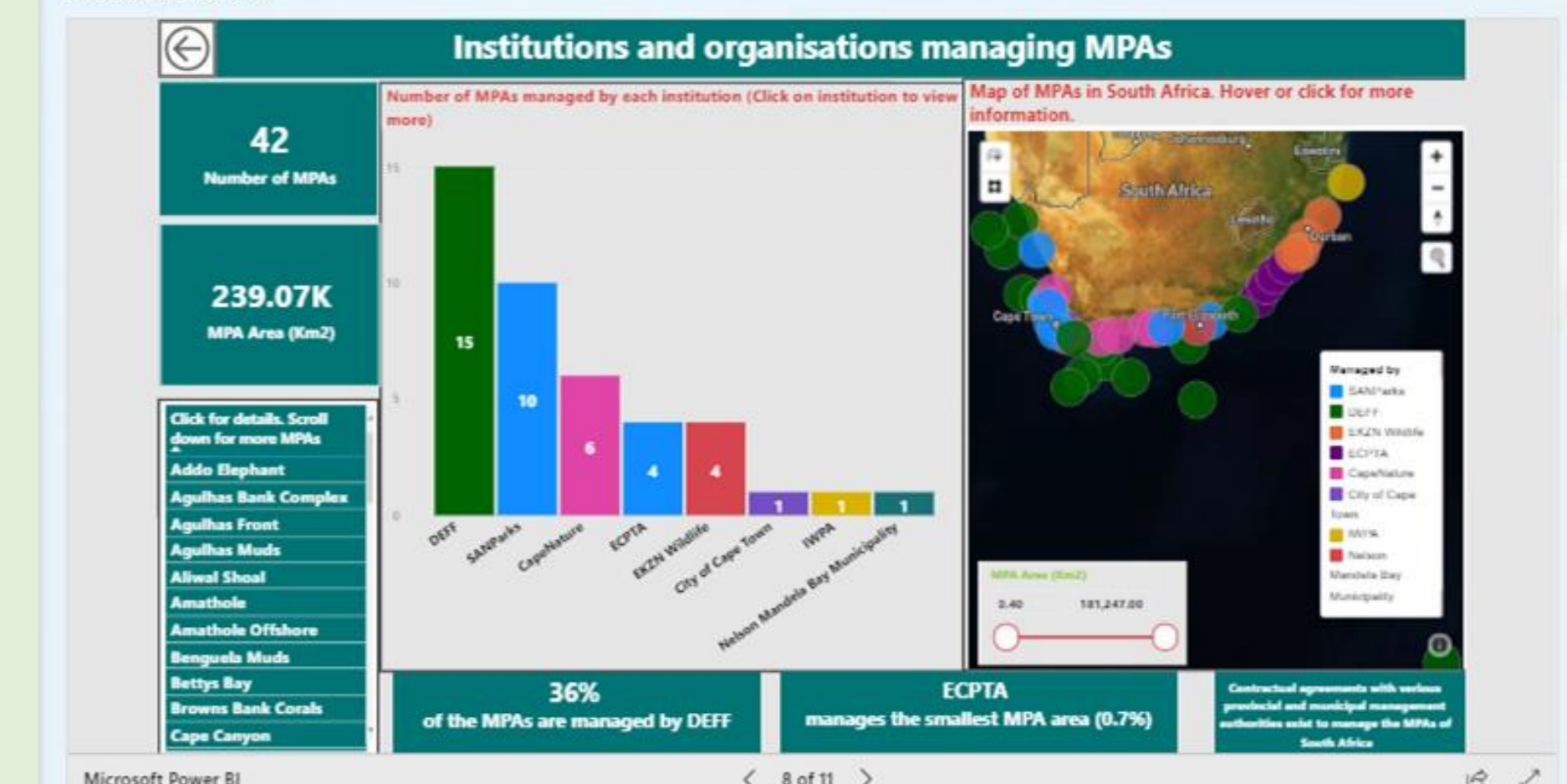


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Dynamic MPA Dashboard: Regional and National



The Nairobi Convention Secretariat has built interactive dashboards for a range of different Western Indian Ocean (WIO) data. The visualizations below showcase the MPAs in South Africa and was generated from our Marine Protected Areas (MPAs) Outlook that was produced in collaboration with the Western Indian Ocean Marine Science Association (WIOMSA).



A background image of a tropical beach scene. In the foreground, two men in light blue shirts and shorts are walking away from the camera on a sandy path. The man on the left has a yellow bag slung over his shoulder, and the man on the right is holding a blue water bottle. In the middle ground, several people are sitting on a wooden bench on the beach. The ocean is visible in the background, with a white boat on the water. The sky is clear and blue.

Key Partnerships for the Outlook Actions

- ***Establishment of a regional framework for MPA capacity development: NC, WIOMSA in collaboration with SwAM***
 - *Already established and 1st workshop took place on the 24th of June 2021; More trainings planned for under the Programme*
- **WIO MPA Network:** Established on **8th June 2021** (WOD) in partnership with WIOMSA
- Supporting development of management plans for 4 MPAs in Comoros

Component B: Demo Projects

Project Title	Implementing Partner
<p>12. Improving Mtwapa Creek water quality by use of Constructed Wetland Technology in Shimo la Tewa, Kenya</p>	<p>Kenya Marine and Fisheries Research Institute (KMFRI)</p>
<p>13. Strengthening regulatory framework and national capacity for monitoring effluent discharges, water and sediments quality in coastal and marine areas of Madagascar</p>	<p>Directorate General of Environment at the Ministry of Environment and Sustainable Development (MEDD) - Centre National de Recherches sur l'Environnement (CNRE)</p>
<p>14. Improving water quality by use of constructed wetland wastewater treatment as a Farm in the South of Mahé Island, Seychelles</p>	<p>Ministry of Environment, Energy and Climate Change (MEECC)</p>



15. Upscaling and amplification of the Msingini Wastewater treatment facility model in Chake Chake town, Pemba, Tanzania

The Second Vice President's Office, Zanzibar (SVPO)



Component C: Demo Projects



Project Title	Implementing Partner
18. Sustainable management of Eflows for west coast rivers of Madagascar: a case of Betsiboka River	Directorate General of Environment at the Ministry of Environment and Sustainable Development (MEDD)
19. Environmental Flows for enhanced biodiversity and poverty alleviation in the Incomati delta, Mozambique (EFlows-Moz)	Universidade Eduardo Mondlane- Faculdade de Engenharia (UEM-FE)
20. Sustainable catchment management through enhanced Environmental Flow Assessment and Implementation for the protection of the Western Indian Ocean form land-based sources and activities in Tanzania.	Sokoine University of Agriculture (SUA)



Capacity Building

1. Marine Spatial Planning



2. Constructed Wetlands for Wastewater Management



3. EFAs Application in IWRM

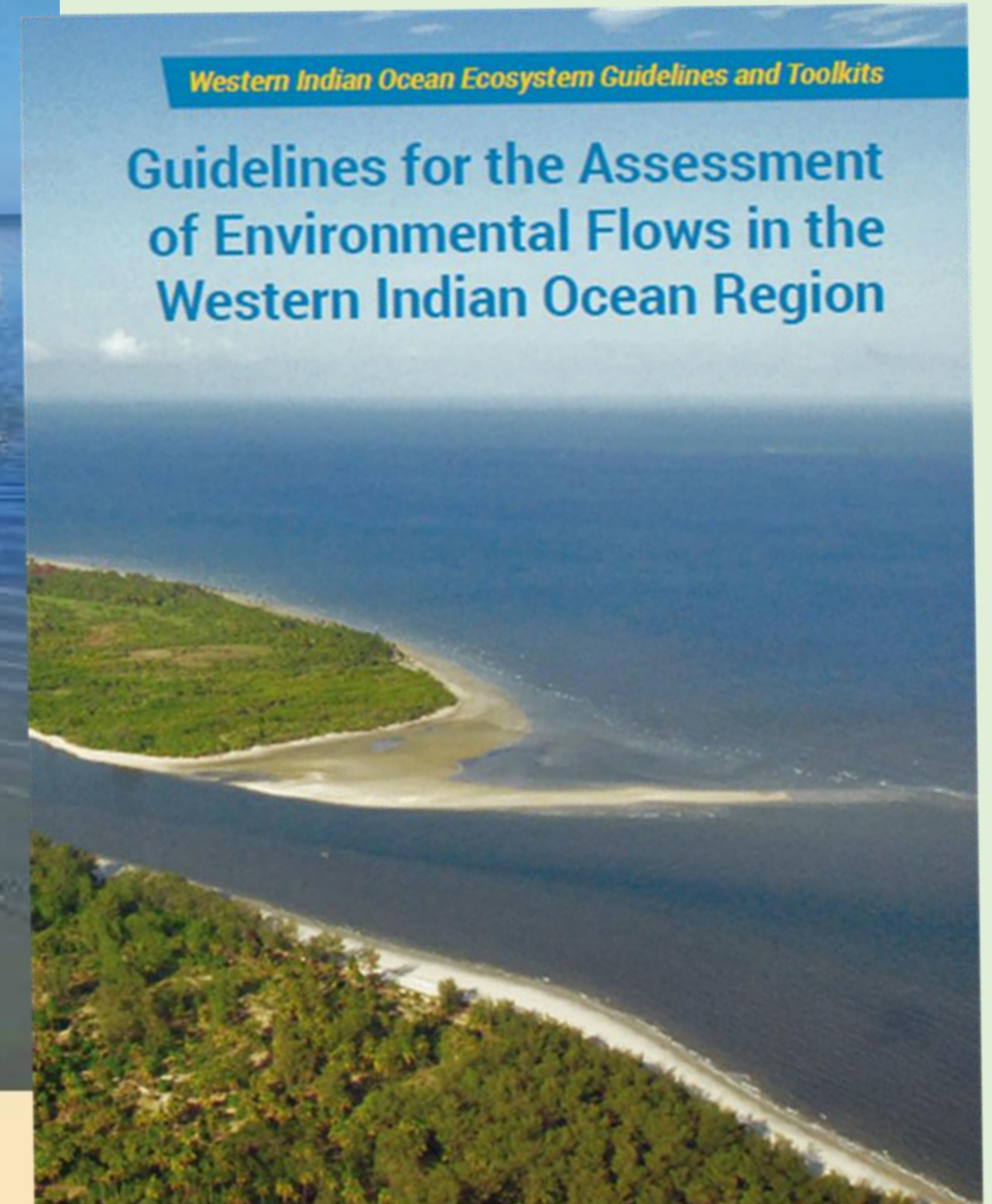
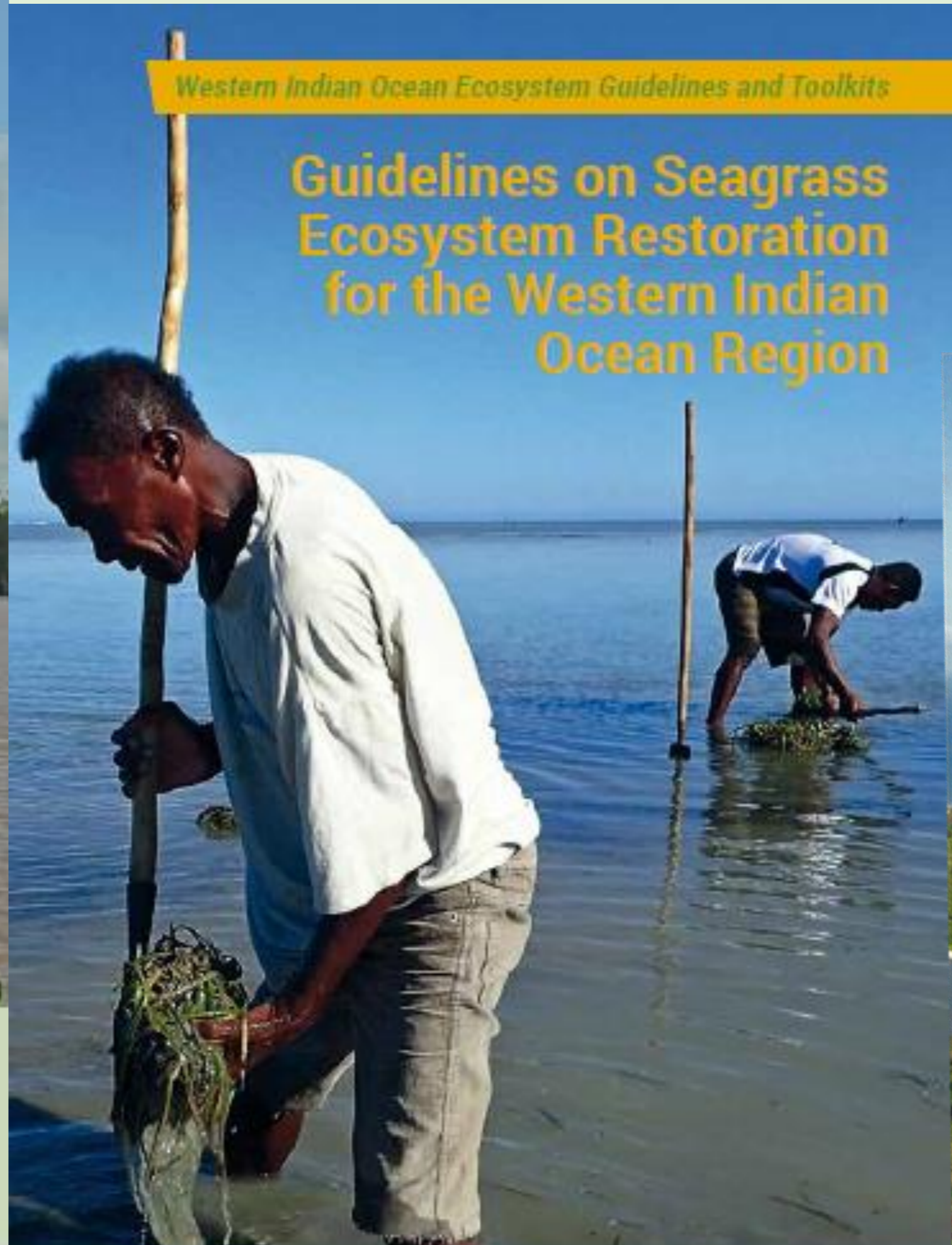
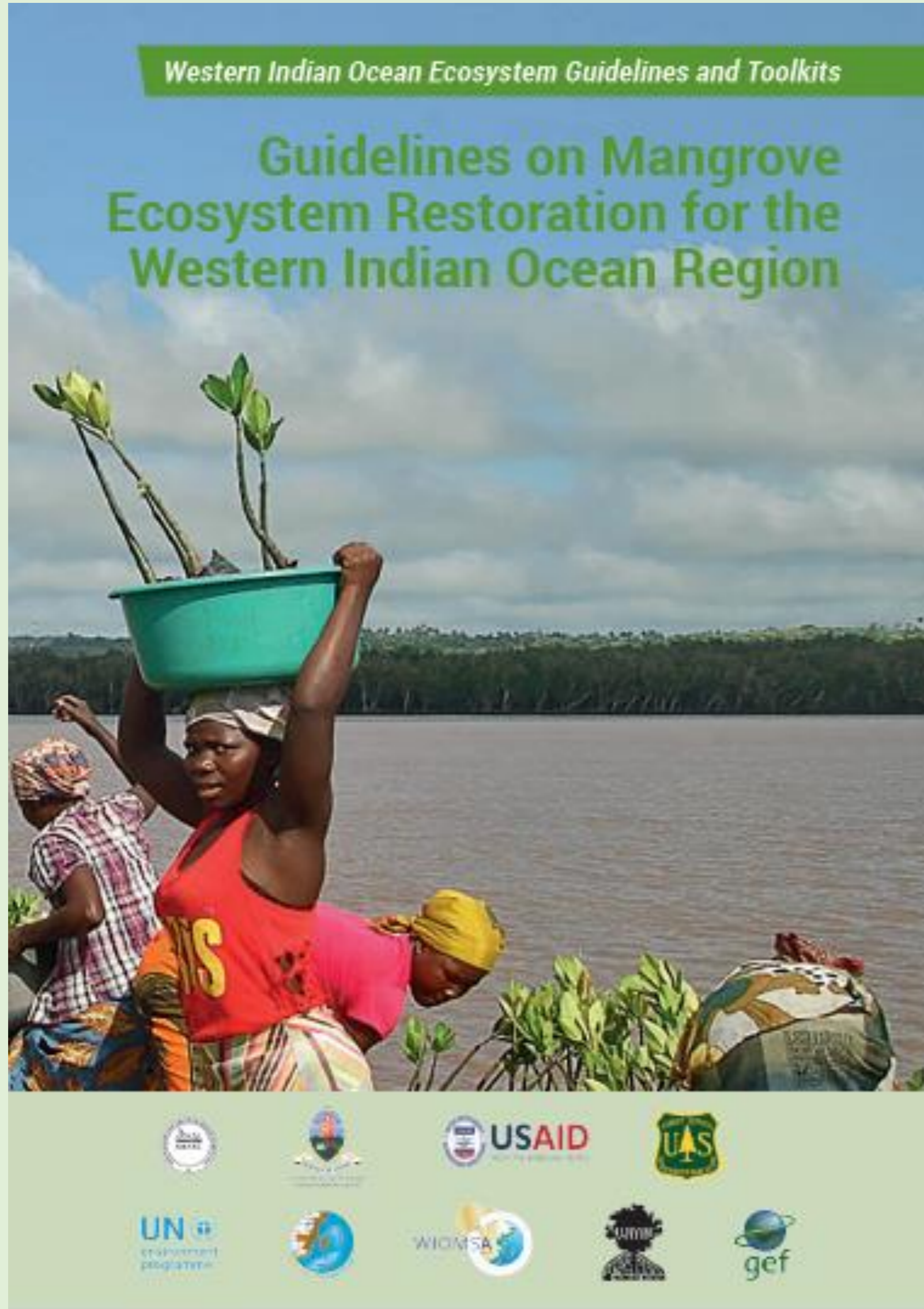




Regional Task Forces and Technical Working Groups

1. Task Force on Critical Habitats
2. Task Force on Water Quality
3. Task Force on Sustainable Management of River Flows
4. Marine Litter and Microplastics TYWG
5. Marine Spatial Planning TWG

Series of Project Guidelines and Toolkits



FRAMEWORKS AND STRATEGIES UNDER DEVELOPMENT

	Outputs	Partnerships	Status
1.	Regional Ecosystem Monitoring Framework	WIOMSA, Rhodes University, RTFs	Completed
2.	Regional Water Quality Monitoring Framework.....	CSIR RSA, RTF WQ	Completed
3.	Regional Marine Spatial Planning Strategy	WIOMSA, MQU, MSP TWG	Completed
4.	Guidelines on Methodologies for the Valuation of Coastal & Marine Ecosystems	WIOMSA, RTFs, FARI	Completed
5.	Climate Change Vulnerability Assessment (CCVA) toolkit for near-shore marine social-ecological system in the Western Indian Ocean	WIOMSA, RTFs, FARI	Completed
6.	Marine Litter Status: On-ground-interventions, economic impacts, policy and institutional frameworks	WIOMSA, MLMP TWG, FARI	Final Revision
7.	Mangrove Ecosystem Restoration in the Western Indian Ocean Region: Lessons and experiences towards the UN Decade of Ecosystem Restoration 2012-2030	WIOMSA, WIOMN, RTF CH	Underway
8.	Constructed wetland technology as nature based solution for sustainable municipal wastewater treatment in WIO region	WIOMSA, RTF WQ, UDMS	Underway

Component D: Governance and Regional Collaboration

ICZM Protocol/Ratification of LBSA Protocol

Protocol

- ICZM Protocol: 4th and final negotiation and adoption planned for in 2021
- LBSA Protocol: 4 countries have ratified, more countries on track
- Sustainable Port Management: CP 9/1; CP9/13. Concept/TOR

Establishment and strengthening of partnerships include:

RECs, WIOMSA, WIO-C, PMAESA, Macquire University
Australia,

Sustainability of the WIOSAP Project

- Pipeline funding: Two projects developed and funded by EU and SIDA through WIOSAP support – US\$10.6M
- Kenya EU Project (UNH & UNEP) – US\$8.4M
- GCF Proposal being developed

Mechanism

- Community of Practices
- Database of Regional Experts - Networking
- WIO-C Partnerships/Linkages
- Review and development of KM Strategy – with GIZ under WIOGI

Science to Policy Platform

- 2021 SPP: 174 pax, 33 discussion paper
- Sec to work with FPs to prepare areas of decision for 10th COP



Thank you

