

# Marine Spatial Planning Strategy for the Western Indian Ocean

Amanda T. Lombard, Jai K. Clifford-Holmes, Bernadette Snow, Victoria Goodall, Kaylee P. Smit, Mia Strand, Hannah Truter and Vera Horigue





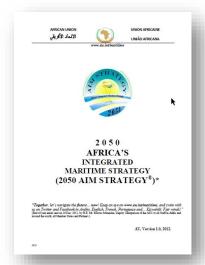


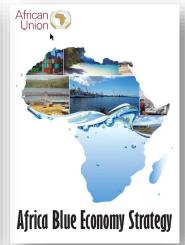


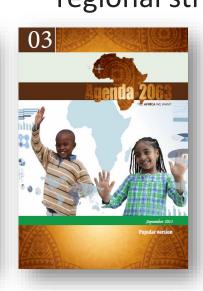
### **Need for a regional MSP strategy**

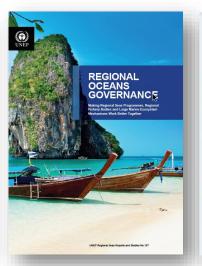
Parties to the Nairobi Convention (NC) and partners, Dar es Salaam, March 2019 ... requested the Nairobi Convention Secretariat to work with partners to develop a regional strategy

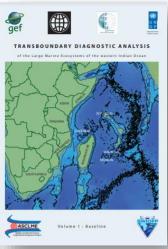














Source	Title
African Union	Africa's Integrated Maritime Strategy 2050 (AIMS)
	Africa Blue Economy Strategy 2019
African Union Commission	Agenda 2063. The Africa we want
African Union, UNEP	African Strategy for Ocean Governance
UN Development Programme	Transboundary Diagnostic Analysis (TDA) of the Large Marine Ecosystems of the western Indian Ocean
	A Strategic Action Programme (SAP) for Sustainable Management of the Western Indian Ocean Large Marine Ecosystems





### **Definition of MSP**

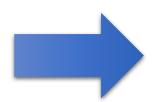
MSP is "a process of analyzing and allocating parts of three-dimensional marine spaces (or ecosystems) to specific uses or objectives, to achieve ecological, economic, and social objectives that are usually specified through a political process"

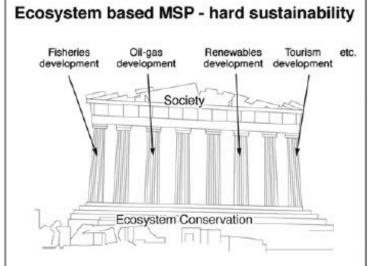
# MSP is a <u>process</u> that is:

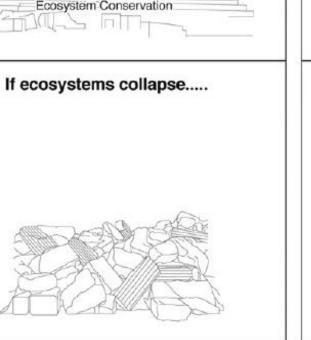
- ecosystem-based
- integrated across sectors & agencies
- area-based
- adaptive
- strategic and anticipatory
- and participatory



# Ecosystem-based versus Integrated use MSP







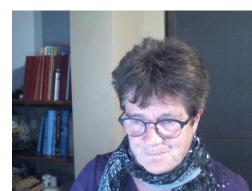


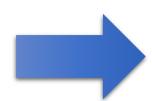


If ecosystems collapse.....









Adapted from Qiu and Jones (2016)

# Guiding principles

UN SDGs
UNEP's proposed new Marine
and Coastal Strategy (2020-2030)
UN Economic Commission for
Africa (UNECA 2016)







- An ecosystem-based approach
- A Systems thinking approach
- A multi-stakeholder-based approach
- A sound evidence base for decision-making
- Transparency and accountability
- Policy coherence
- Cooperation
- Shared benefits and prosperity for all

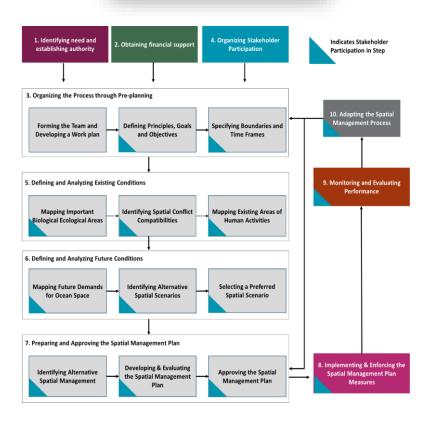
**Annex 1: Malawi Principles for the Ecosystem Approach** 

12

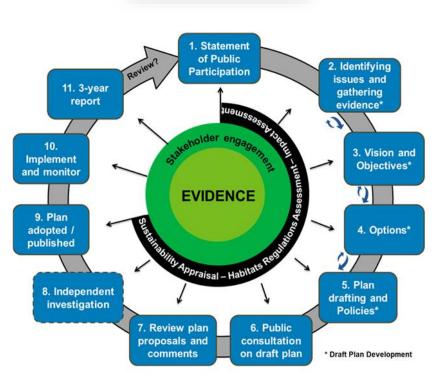


# Best practice











Marine Plan
Partnership
Pacific North Coast





# Governance challenges

- Inefficient governance system
- Lack of integration
- Limited access to data
- Lack of funds & inefficient spending
- Limited technical and human capacity
- Lack of monitoring and evaluation
- User/stakeholder conflicts
- Outdated legal/regulatory frameworks
- Human population growth
- Regional issues not prioritised by nations

# Threatening processes













- Biodiversity loss
- Habitat loss/destruction
- Unsustainable fishing
- Pollution & sedimentation
- Climate-driven changes
- Piracy/marine safety & security
- Poor management of ship traffic



# Benefits of regional MSP

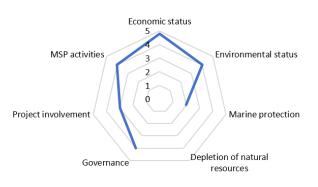


- Increased resilience to climate change
- Effective management of marine ecosystems /processes
- Effective management of migratory marine species
- A reduction of overexploitation
- Improved understanding of regional ecosystem services
- Reduced habitat modification
- Improved water quality management
- Mitigation and reduction of pressures (\*pollution)
- Conflict management
- Improved knowledge management (mo
- Conservation of ABNJ
- Improved maritime safety & security

#### Comoros

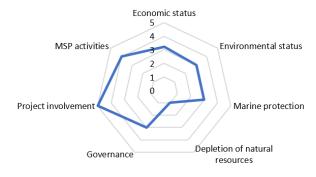
# MSP activities MSP activities MSP activities Marine protection Governance Depletion of natural resources

#### France (Reunion Island)

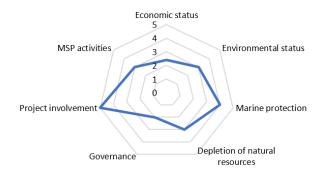


# National MSP readiness in the WIO

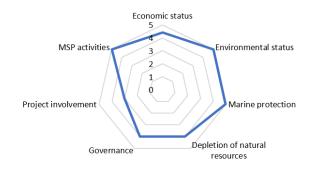
#### Kenya



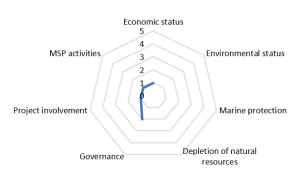
#### Madagascar



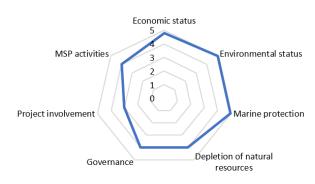
Seychelles



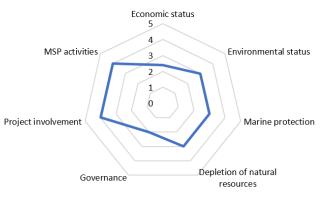
Somalia



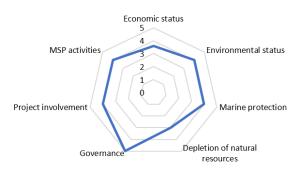
#### Mauritius



#### Mozambique



#### South Africa



#### Tanzania



A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

#### Goal

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all

Objectives Roadmap, principles and guidelines for EBA to regional MSP

alignment Clear institutional

Policy

Multi-use & conflict management

Manage threatening processes

Sustainable & inclusive blue economies

Systems Knowledge approach management

Tools for implementation

Network of MPAs

Framework for EBA to National MSP

arrangements

Stakeholder engagement processes that bring big industry & smaller interest groups together



**Priorities** 

Strategic

Implementation

Harmonisation of legal instruments for blue economy

of the global blue economy narrative



**Improved** mapping of biophysical environment & human activities



Improved management of different sectoral activities & conflict

Multilateral stock management plans



Management & protection of ABNJ

Increased ocean protection





#### Systemic perspective of strategic priorities

Adoption and implementation of the strategy

> Political will. government transparency & accountability

**Binding** multilateral agreements

Ecosystembased approaches to support SGD achievement

Supporting Legal Framework

Nested plans; codevelopment of area plans

Identification of **Priorities** 

development for financial planning; communication: in-country MSP expertise: knowledge

management

Capacity

Guidelines and Tools

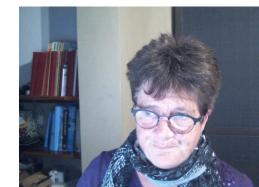
Monitoring, Evaluation and Learning (MEL)

### Vision

A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

### Goal

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all



A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all

Objectives

**Priorities** 

Strategic

Roadmap, principles and guidelines for EBA to regional MSP

Framework for EBA to National MSP

Policy alignment

Clear institutional arrangements

Multi-use & conflict management

Systems

approach

Knowledge management

Manage

threatening

processes

Sustainable & inclusive blue economies

Tools for implementation

Network of MPAs

Stakeholder engagement processes that bring big industry & smaller interest groups together



Harmonisation of for blue economy

of the global blue economy narrative



**Improved** mapping of biophysical environment & human activities



Improved management of different sectoral activities & conflict

Multilateral stock management plans



Management & protection of ABNJ



Increased

ocean

protection



and Tools

Evaluation and Learning

Roadmap, principles and guidelines for **EBA** to regional **MSP** 

Framework for **EBA to National MSP** 

> Manage threatening processes

Tools for implementation

Policy alignment

**Systems** approach

Clear institutional arrangements

Multi-use & conflict management Sustainable & inclusive blue economies

Knowledge management Network of **MPAs** 

# Implementation

Adoption and implementation of the strategy

> Political will. government transparency & accountability

**Binding** multilateral agreements

Ecosystembased approaches to support SGD achievement

Supporting Legal Framework

Systemic perspective of strategic priorities

Nested plans; codevelopment of area plans

Identification of **Priorities** 

development for financial planning; communication; in-country MSP expertise: knowledge management

Capacity

Monitoring, (MEL)



A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all

Roadmap, principles and guidelines for EBA to regional MSP

Objectives

**Priorities** 

Strategic

Implementation

Framework for EBA to National MSP

Policy alignment

Clear institutional arrangements

Multi-use & conflict management

> Systems approach

Manage threatening processes

Knowledge management Sustainable & inclusive blue economies

> Tools for implementation

Network of MPAs

Stakeholder engagement processes that bring big industry & smaller interest groups together



Harmonisation of for blue economy of the global blue



**Improved** mapping of biophysical environment & human activities



Improved management of different sectoral activities & conflict

Multilateral stock management plans



Management & protection of ABNJ



Increased

ocean

protection



#### Systemic perspective of strategic priorities

Adoption and implementation of the strategy

Political will. government transparency & accountability

**Binding** multilateral agreements

Ecosystembased approaches to support SGD achievement

Supporting Legal Framework

Nested plans; codevelopment of area plans

Identification of **Priorities** 

development for financial planning; communication; in-country MSP expertise: knowledge

management

Capacity

Guidelines and Tools

Monitoring, Evaluation and Learning (MEL)

Stakeholder engagement processes that bring big industry & smaller interest groups together

Harmonisation of legal instruments for blue economy practices

**Cross sectoral** governance

Contextualisation

of the global blue

economy narrative

for the WIO region

Improved mapping of biophysical environment & human activities

Multilateral stock management plans

**Improved** management of different sectoral activities & conflict

Increased ocean protection

Management & protection of ABN



A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all

Objectives

**Priorities** 

Strategic

Implementation

Roadmap, principles and guidelines for EBA to regional MSP

Framework for EBA to National MSP

Policy alignment

Clear institutional arrangements

Systems approach

Multi-use & conflict management

> Knowledge management

Manage

threatening

processes

Sustainable & inclusive blue economies

> Tools for implementation

Network of MPAs

Stakeholder engagement processes that bring big industry & smaller interest groups together



Harmonisation of legal instruments for blue economy

of the global blue economy narrative



**Improved** mapping of biophysical environment & human activities



Improved management of different sectoral activities & conflict

Multilateral stock management plans



Management & protection of ABNJ



Guidelines

and Tools

Increased

ocean

protection

#### Systemic perspective of strategic priorities

Adoption and implementation of the strategy

Political will. government transparency & accountability

**Binding** multilateral agreements

Ecosystembased approaches to support SGD achievement

Supporting Legal Framework

Nested plans; codevelopment of area plans

Identification of **Priorities** 

development for financial planning; communication; in-country MSP expertise:

knowledge

management

Capacity

Monitoring Evaluation and Learning (MEL)

Adoption and implementation of the strategy

Political will, government transparency & accountability

Ecosystem-based approaches to support SGD achievement

Nested plans; codevelopment of area plans

Capacity development Guidelines and Tools

Monitoring, **Evaluation and** Learning (MEL)

Binding multilateral agreements

Supporting Legal Framework

Identification of Priorities



A WIO with inclusive and sustainable management of ocean and coastal ecosystem services for human wellbeing

#### Goal

An inclusive and holistic MSP process that produces a regional marine spatial plan to support the sustainable management of ocean and coastal ecosystems for all

ives	Roadmap, principle and guidelines for
t	EBA to regional MS
a)	

Obj

**Priorities** 

Strategic

Framework for EBA to National MSP

Policy alignment

Clear institutional arrangements

Multi-use & conflict management

> Systems Knowledge approach management

Manage

threatening

processes

Sustainable & inclusive blue economies

> Tools for implementation

Network of MPAs

Stakeholder processes that bring big industry & smaller interest groups together



for blue economy

of the global blue economy narrative



**Improved** mapping of biophysical environment & human activities



Improved management of different sectoral activities & conflict

Multilateral stock management plans



Management & protection of ABNJ

Capacity

planning;

communication;

in-country MSP

expertise;

knowledge

management

Increased ocean protection



#### Systemic perspective of strategic priorities

Adoption and implementation of the strategy

Political will, government transparency & accountability

Binding multilateral agreements

Ecosystembased approaches to support SGD achievement

Supporting Legal Framework

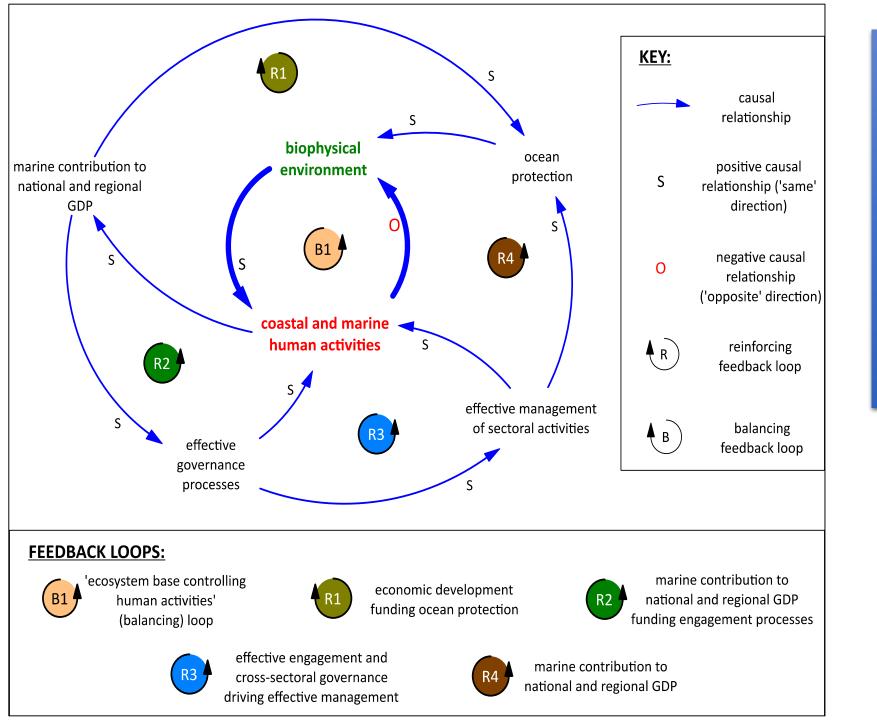
Nested plans; codevelopment of area plans

Identification of **Priorities** 

Guidelines and Tools development for financial

> Monitoring, Evaluation and Learning (MEL)





# Systemic perspectives of strategic priorities

High-level causal loop diagram (CLD)



#### Data aquisition and managemen capacity knowledge ocean development management systems accounts managemen planning contextualising the global blue econom narrative for the WIO protecting Ecologically and Biologically Significant Areas (EBSAs) biophysica environment ocean marine contribution protection to national and regional GDP **ABNJs** coastal and marine binding human activities multilateral agreements effective management knowledge of sectoral activities financial management systems effective stakeholder planning & engagement funding to processes support national and regional MSP identification of processes effective cross-sectoral priorities (data governance gaps, regional issues) potential for inter-sectoral conflict harmonising inter-sectoral conflict mechanisms political for conflict resolution binding development of supporting multilateral legal framework(s) agreements

Expanded CLD with enabling mechanisms shown in relation to leverage points



# **Strategic Recommendations**

- 1. Agree to ratify and adopt the strategy
- 2. Agree to harmonise in-country MSP development with strategy
- 3. Secure funding and develop capacity MSP
- 4. Develop regional partnerships (e.g. SADC, RFMOs, IOC, etc.)
- 5. Ensure that MSP follows an ecosystems-based approach ("Malawi Principles")

## **Technical Recommendations**

- 1. Promote an enabling policy environment for in-country MSP legislation.
- 2. Assist with establishment of in-country cross-sectoral forums/committees/working groups
- 3. Develop in-country knowledge management systems
- 4. Develop a communication and stakeholder engagement plan

















