

ECOCYCLE PLANNING

Madagascar



MATURITY

- National Ocean Policy, BE National Strategy, BE Investment Plan, MSP institutional & legal framework developed.
- BE @ OG Cluster on the way of legal recognition and launching
- Stakeholders start to be involved and take the ownership of the process



RIGIDITY TRAP

- Political and institutional instabilities
- Some non-sustainable fishery practices are hard to be overcome (beach seining)
- Irrational resources exploitation and use
- We should foster securing our advancements by legal bindings
- Improve cross sectorial partnerships and collaboration



CREATIVE DESTRUCTION

- Transparency improvement in governance
- Reduction of destructive fishing practices (like trolling, poisoning)

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RENEWAL

- Agreed resources uses by stakeholders ;
- Adaptive management at local level ;
- Development of marine aquaculture to reduce pressure on resources and ecosystems ;
- Mangrove reforestation and habitat restoration.



POVERTY TRAP

- Industrial and small-scale fishery goal difference ;
- Subsidiary management development.



BIRTH

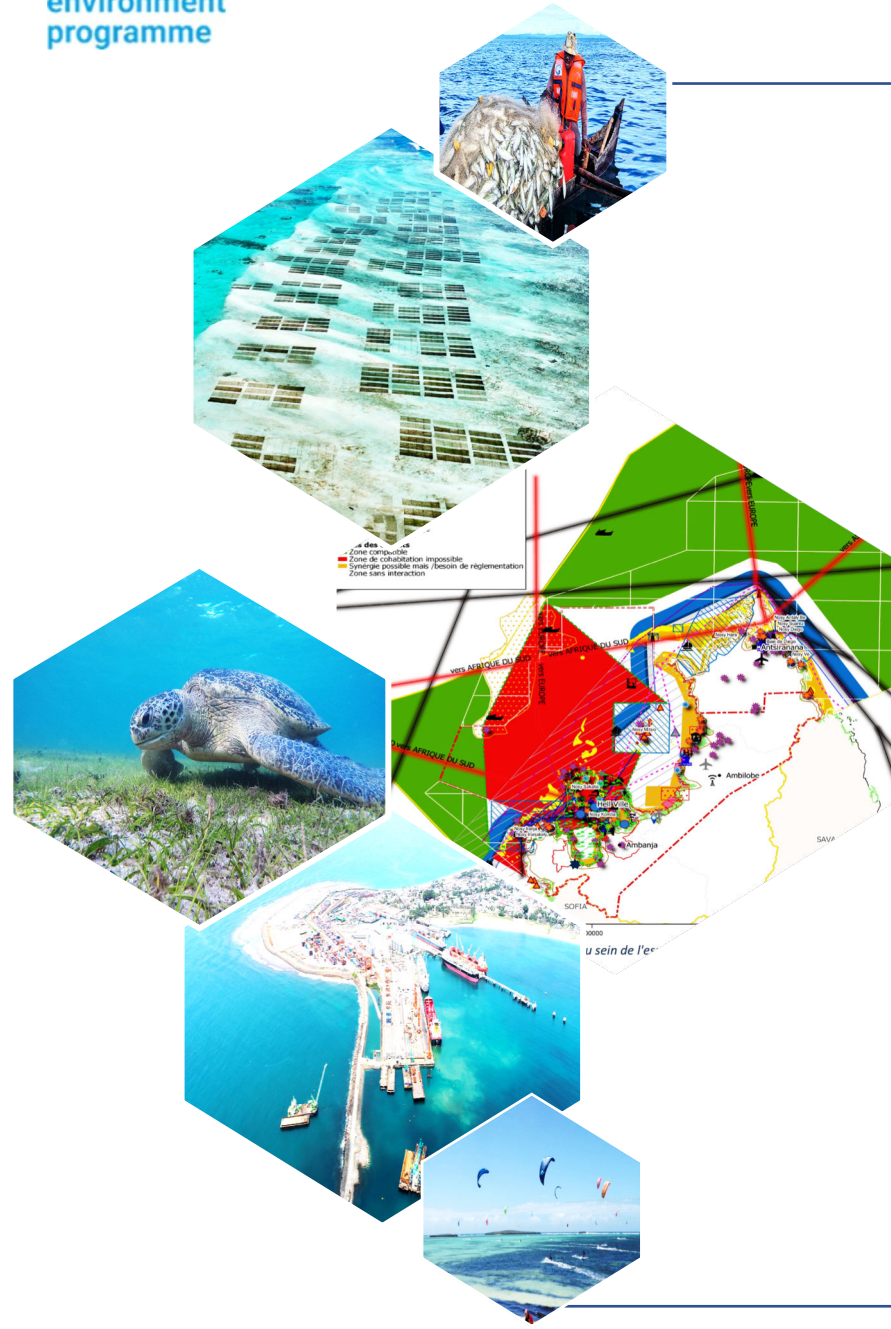
- MSP ;
- Resource stock assessment
- Subsidiary management development ;
- Community empowerment to increase socio ecological resilience.

MARINE SPATIAL PLANNING

READINESS AT COUNTRY LEVEL

MADAGASCAR

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Current Status



Madagascar has voluntarily committed to use MSP as the **blue economy main implementation tool** (UNOC, 2017).



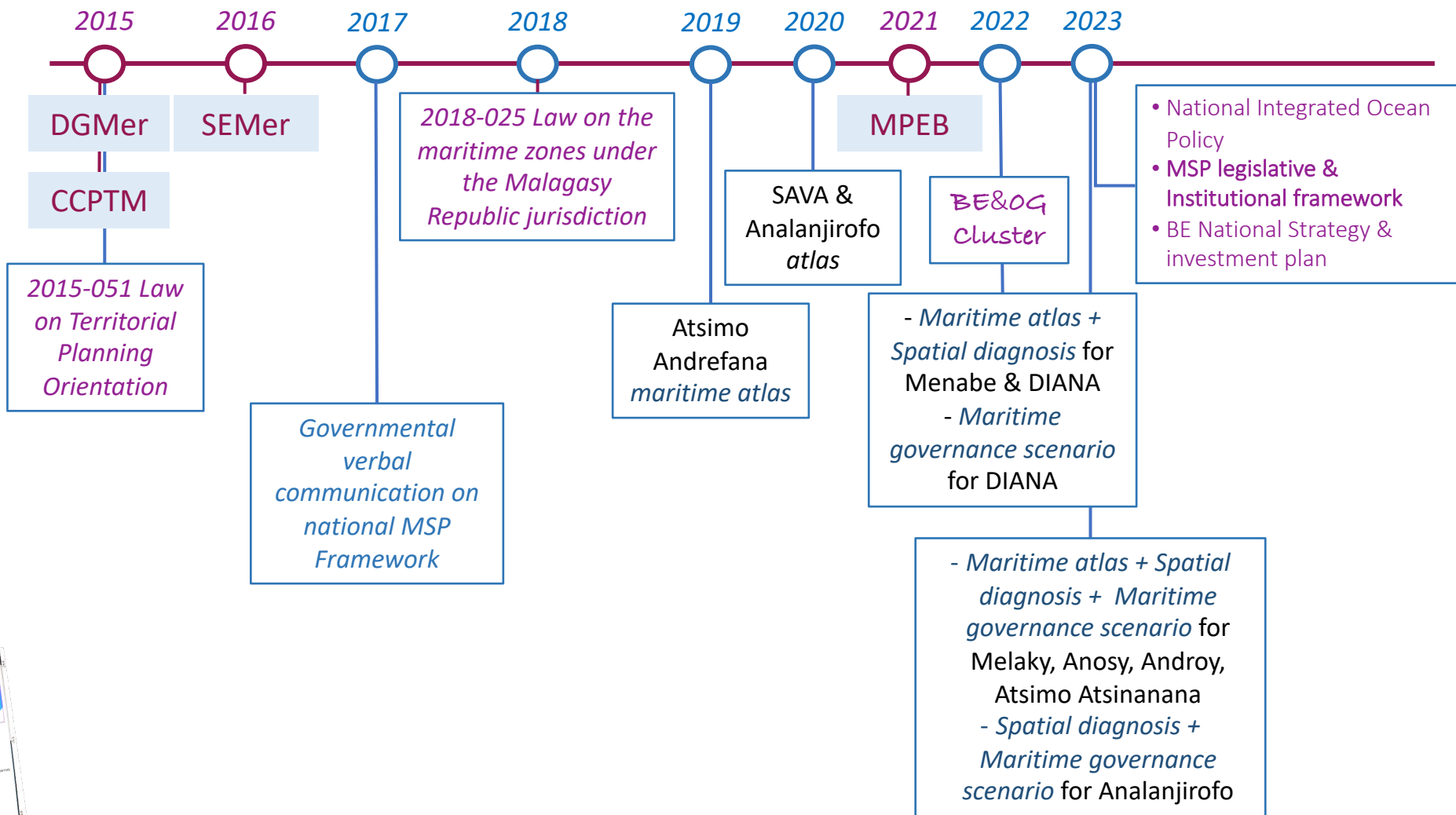
The *African Blue Economy Strategy* (ABES) recognizes **MSP as a fundamental enabler for harnessing** the immense potential of Africa's coastal and ocean resources.



The 3rd axis of the *Malagasy Blue Economy Strategy* (SNEB) mentions MSP as a **main action to be conducted for sustainable development, preserving** the natural heritage and its comparative advantages of Madagascar.

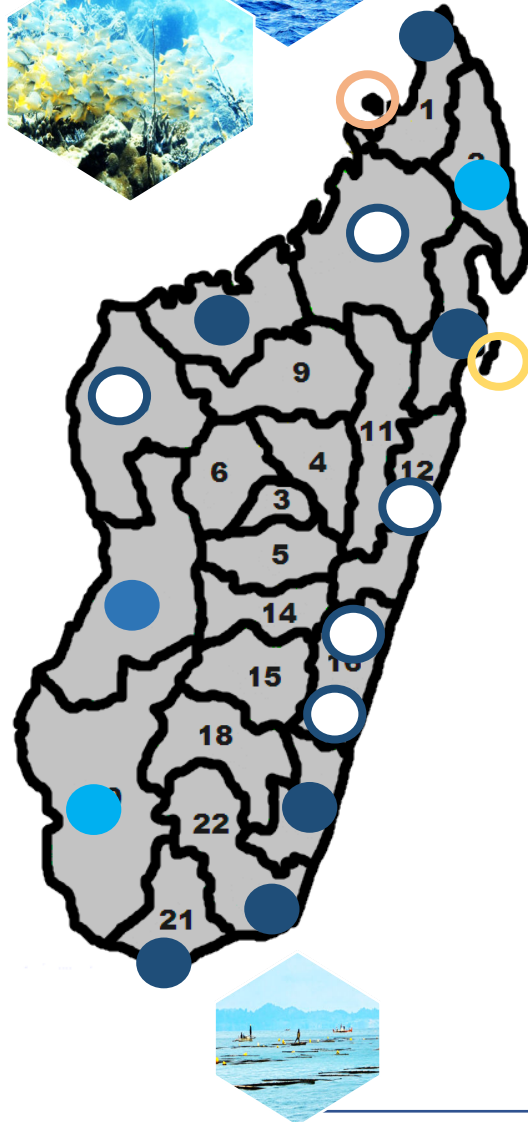


Current Status





Malagasy state of MSP and readiness



- ❑ 14 coastal regions ;
- ❑ **9 with maritime atlas** (Diana, Melaky, Menabe, Atsimo Andrefana, Androy, Anosy, Atsimo Atsinanana, Analanjirofo, Sava) ;
- ❑ **7 with “activity & users spatial analysis”** (Diana, Melaky, Menabe, Androy, Anosy, Atsimo Atsinanana, Analanjirofo) ;
- ❑ **6 with proposed MSP scenario for best maritime space management** (Diana, Melaky, Androy, Anosy, Atsimo Atsinanana, Analanjirofo).

Particular settings for Diana : subdivided in 4 sub regions ; subdivision 4 having its own **activity based MSP** (around Nosy Be) due to its **particular BE development potential** (conservation, tourism, fishery, aquaculture, maritime transport).

Institutions participating in MSP

- ❑ **“Blue economy & ocean governance cluster”**
regrouping all department with ocean related activities (*research, conservation, tourism, transport, fishery and aquaculture, energy, mining, land planning, foreign affair, national defence*), conventions, NGOs, civil societies, private sector representative (*small scale and industrial*).
- ❑ **Sub committee in charge of MSP** within the BE&OG Cluster coordinated by :
 - ✓ *Ministry of Land Planning and Services*
 - ✓ *Ministry of Fishery and Blue Economy*
 - ✓ *Ministry of Environment and Sustainable Development*
- ❑ **Partners and sponsoring** : Nairobi Convention, WWF, USAID, World Bank, African Development Bank group, etc.



Government arrangements for interventions

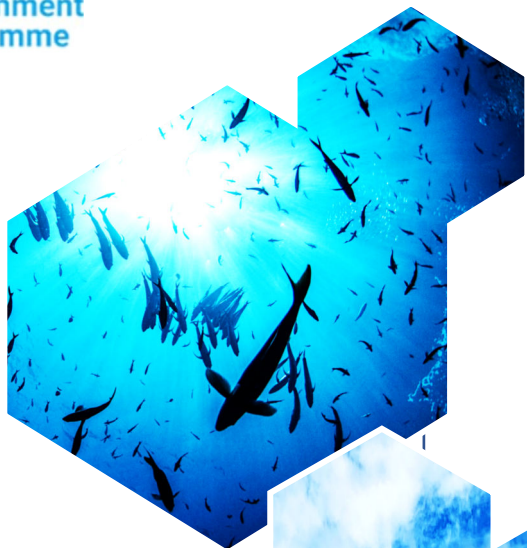
Sub committee in charge of MSP within the BE&OG Cluster :

- Design national MSP ;
- Coordinate local MSP with regional BE&OG clusters (14) ;
- Participate, initiate resolution of users conflicts.

Departmental own attribution:

- **Ministry of Land Planning and Services** : co-developing and applying maritime space planning tools, initiate reflections and studies on the development of the Malagasy maritime territory
- **Ministry of Environment and Sustainable Development** : promote environmental governance, ensure of conservation coastal and marine biodiversity and habitats, ensure environmental, social and economic assessment of coastal and maritime activities.
- **Ministry of Fishery and Blue Economy** : Ocean governance and State actions at the sea coordination, develop MSP as tool for blue economy implementation, promote and develop blue economy.





Data collection and management

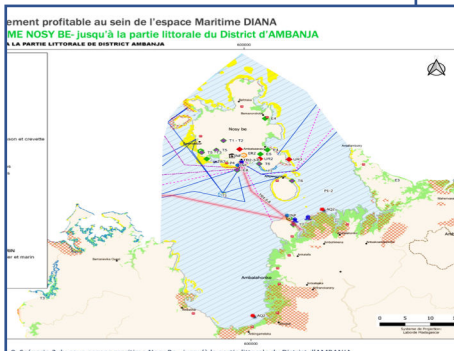
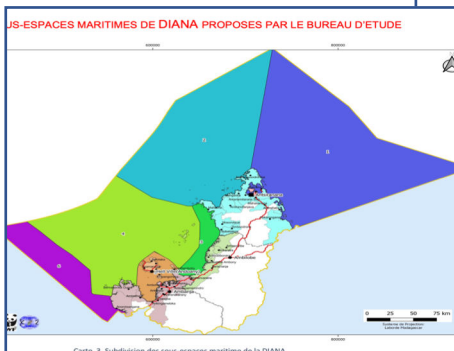
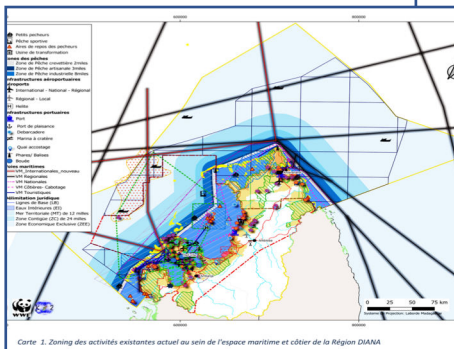
Scattered across our partners and different sectors :

- ❖ National Oceanographic Data Center (Scientific research Ministry)
- ❖ Land use planning Observatory (Land planning Ministry)
- ❖ Maritime and River Port Agency (Transport Ministry)
- ❖ Fishery and Aquaculture Statistics Department (Fishery Ministry)
- ❖ NGOs : WWF, BV, WCS, IC, etc.

Several **MoU** signed between Blue Economy Ministry and ocean related institutions/NGOs on **data sharing for MSP and blue economy development**.

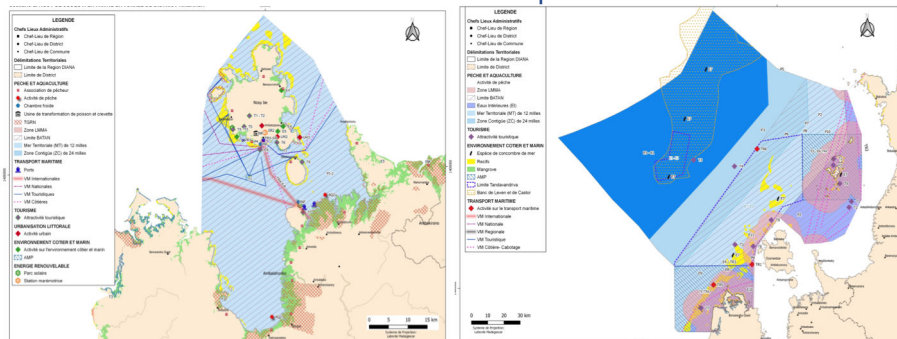


Case study on MSP in Madagascar : DIANA



- ❑ Subdivided in 4 districts : Diego I, Diego II, Ambilobe, Ambanja, Nosy Be.
- ❑ Hosts key coastal and marine ecosystems : mangrove, coral reefs, sea grass beds,
- ❑ 132 islets, hosts 33.4% of Malagasy MPAs (2,367,026 Ha),
- ❑ Key BE activities in the region :
 - cultural activities
 - conservation,
 - ecosystem restauration
 - ecotourism,
 - port and services, maritime transport
 - maritime surveillance,
 - Fishery & aquaculture
 - research.
- ❑ Maritime area has been subdivided into 4 sub regions.

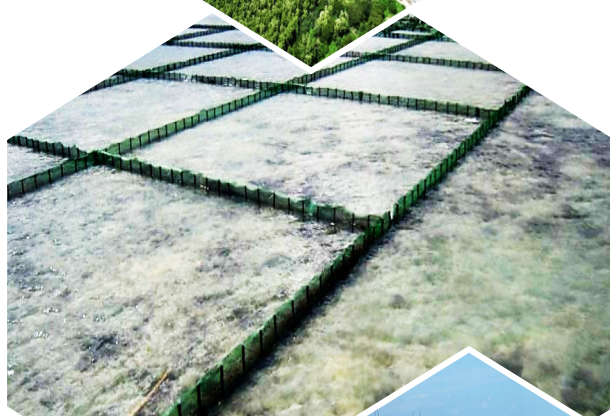
Case study on MSP in Madagascar : DIANA



- ❑ Implemented the Diana regional BE & OG Cluster : coordinated by the Governor's office and the regional Prefect, animated by local blue economy department ;
- ❑ Sub-region 4 (around Nosy Be) is the most active one :
 - home to critical coastal and marine ecosystems,
 - all BE activities represented,
 - around 52 islets,
 - Presence of IUU fishing risks
 - Very active fishermen unions, associations.
- ❑ Had a local cluster (for the 4th sub-region) for Ocean governance & MPS implemented in Nosy Be coordinated by the Mayor office and Prefecture ;
- ❑ Made a participatory mapping of the maritime sub-region with all local stakeholders.
- ❑ Divided in 7 areas : *Hell-ville, Dzamanjar, Antanamitarana, Befotaka, Bemanondrobe, Ambatozavavy and Nosy Komba.*



MSP USES & APPLICATIONS



A **science based tool for decision making** in ocean governance, to develop blue economy (*UNOC 2022 national resolution*).



Part of the **process for Environmental permit approval** request, regarding coastal activities (e.g. : seaweed farming, sea cucumber farming)



A tool for new **economic or conservation area attribution** : seaweed, sea cucumber farming, marine reserves, MPA, mangrove and reef habitats restoration, tourism...



Tool for **conflict resolution** between maritime space users (seaweed producers, small scale vs industrial fishermen),

Proposed planning process, activities taken and next step

Simplified process :



*Stakeholder
mapping*



Maritime atlas



*Spatial use
diagnosis*



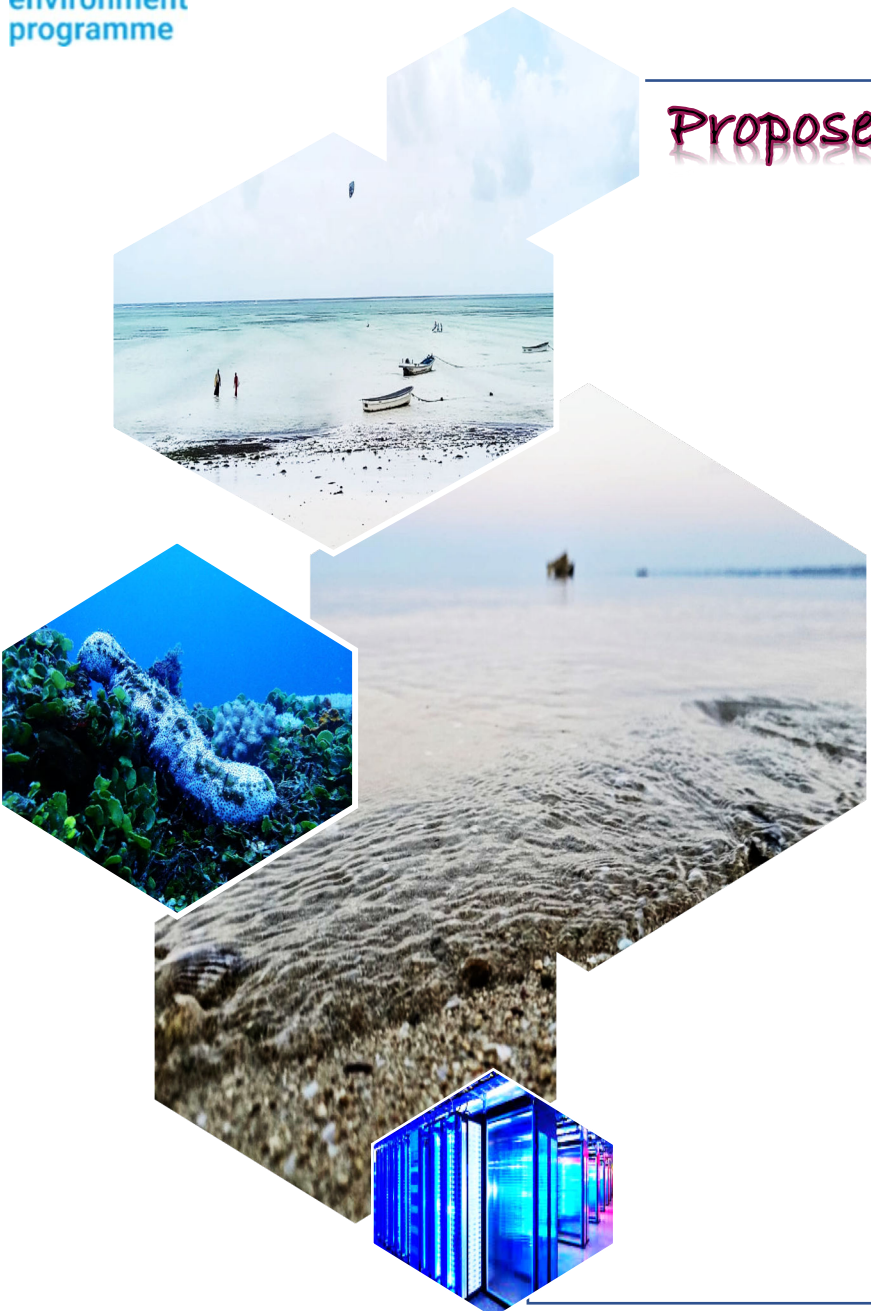
*Scenario
proposition*



- Empower local EB & OG clusters ;
- Provide MSP tool for the remaining coastal regions; Boeny and Sofia coming next (Nairobi Convention), local MSP for Ste Marie ;
- Implement elaborated strategies and regulation ;
- Elaborate and implement a “**database collection and management strategy**” ;
- Elaborate a **MSP procedures manual** for future projects.



Implementation





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Any question and/or remarks?

