

#### Seas of Change: TUMCA

Biodiversity credit methodologies provide a framework that protects resilient ecosystems while providing livelihoods for the user communities that rely on them.

Community monitoring is at the project's core, where the observation of key indicator species will be the basis for accreditation following Savimbo's methodology. The project supports sustainable, long-term livelihood alternatives for communities as well as enhancing local species habitats and populations while increasing ecosystem integrity and health.

The project will be certified by Cercarbono Standard through the survaillance of indicator species.











Location: Mwana na Mwana and Hanga Reef, TUMCA Marine Protected Area (MPA), Zanzibar, Tanzanía



**Duration: 10 years** 



Area: No take zones (320 Ha scalable to 820 Ha)
Broader impact MPA: 16,290 Ha

#### **Biodiversity credits:**



12 per hectare per year in biodiversity hotspots

311,950 BC

# Biodiverity and Ecosystem Services

The **diversity** of life forms existing in a natural environment. It manifests itself across different scales and is a fundamental part of the natural balance of planet Earth.



Genes



Ecosystems



Species

42,000 species (>30% of biodiversity) are in danger of extinction



Biodiversity provides **essential services** for the proper functioning of natural systems and for the survival and permanence of living beings.



Approximately half of global GDP (USD \$44 trillion) is related to biodiversity





# TUMCA: Tumbatu Marine Conservation Area

#### **Biodiversity loss drivers:**



Unsustainable fishing



Water pollution



Increasing coastal development



Lack of livelihood alternatives

#### **Ecological and social consequences:**

**Depletion of fishing resource** 

Decrease in ecosystem resilience and regeneration

Loss of habitat of attractive species for tourism





# Project Interventions



# NO TAKE ZONE IMPLEMENTATION

- Monitoring, survailence and data collection.
  - a. Community indicator species recording
  - b. Community led smart patrolling
  - c. Data recollection and analysis
    - i. Benthic surveys
    - ii. Reef fish census

#### SUBSISTANCE ALTERNATIVES

- Seed capital and technical assistance for community projects in prioritized sustainable aquaculture, such as sea cucumber farming and seaweed farming
- Value chain support

# **CAPACITY BUILDING**

- Community project onboarding
  - Biodiversity thematic trainings
  - Project social and environmental safeguards
- Sustainable fishing practices and tools, No Take Zone delimitation, species fishing bans and fish size ban





# Project Impacts

### MPA efficient management



Supporting patrolling and surveilance activities

#### 20 fishermen



Involved monthly in participatory monitoring activities

### >80 community members



Involved in alternative livelihoods initiatives

### Research and Monitoring



Ecological information for other conservation projects

### Secure fishing resource



Mantaining spawning areas

### 50 community members



Stregthened through cappacity building activities

### **Labour formalization**



Through project activities and alternative initiatives



## Proposed Methodological Approach

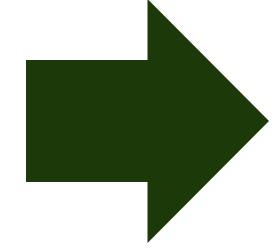
### Marine Savimbo Adaptation Biodiversity



#### Indicator species

selection (their presence implies a resilient and healthy ecosystem)

- Parrot Fish
- Apex Predators (Sharks)
- Hard and Soft Corals
- Turtles
- Sea Mammals



#### **Community based** monitoring

- Underwater cameras
- Baited deep water cameras
- Fisher's participation behavioural shift

#### **Ushimo Bahari Leverage**





No Take Zone (NTZ) establishment and effective management Reduction of overfishing



# Biodiversity Credits High Integrity Principles



The International Advisory Panel on Biodiversity Credits has published a list of integrity principles for the development of projects and the overlaying market, providing **verified outcomes for Nature, equity and fairness for people, and good governance for markets** 

1. Verified outcomes for Nature	Criteria
Lifecycle	<b>HLP 5:</b> Additionality
HLP 1: Defined	HLP 6: Baselines
biodiversity objectives and activity type	HLP 7: Durability
HLP 2: Demand integrity and the mitigation hierarchy	HLP 8: Leakage
	Validation
<b>HLP 3:</b> Credit issuance and tracking	HLP 9: Monitoring, reporting and verification
<b>HLP 4:</b> Ex ante and ex post credits	
	<b>HLP 10:</b> Third-party audits

2. Equity and fairness for people	Inclusion and rewards
Rights	HLP 14: Indigenous Peoples and local communities' involvement in governance
HLP 11: Legal and customary land and water rights	
HLP 12: Respecting human rights and the rights of Indigenous Peoples	HLP 15: No harm HLP 16: Benefit sharing HLP 17: Grievance
<b>HLP 13:</b> Free, prior and informed consent	mechanism

3. Good governance for markets

Transparency

HLP 18: Transparent governance structure

Accountability

HLP 19: Data sovereignty

HLP 20: Alignment with frameworks

HLP 21: Tradability

Land rightholders, poject developers, certification bodies, auditing bodies, buyers and governments are all **key actors** that must consider these principles for the proper establishment of a biodiversity credit market



WE MANAGE
INVESTMENTS IN THE
FIELD, MAXIMIZING THE
ECONOMIC, SOCIAL AND
ENVIRONMENTAL RETURN.

Arthur Chirkinian: arthur@greenecomoy.ae

Diego Lozano: diego.lozano@campocapital.com



