

TANZANIA INITIATIVES ON COASTAL ECOSYSTEM MANAGEMENT IN THE CONTEXT OF ADAPTATION AND MITIGATION

VICE PRESIDENT'S OFFICE,
DIVISION OF ENVIRONMENT,
LUTHULI STREET, DAR ES SALAAM.

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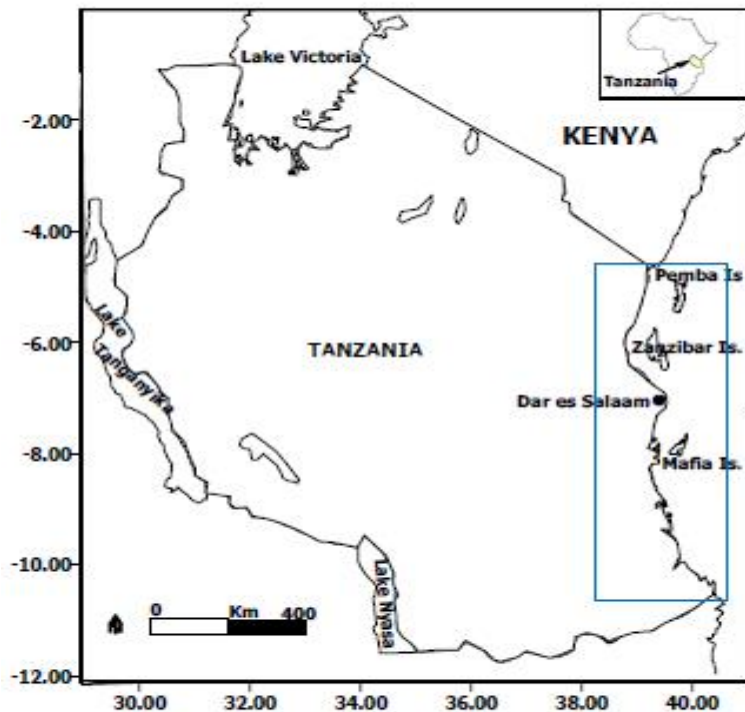
INTRODUCTION

- Tanzania's coastline important ecologically and economically.
- It stretches approx. 2,300 kilometers; Richly with estuaries, mangrove forests, beaches, coral reefs, seagrass beds, and deltas of large rivers.
- Covers 15 % of the nation's total land area, support approximately 25% of the popul.(about 8 mill. people). The coastal population is projected to increase to 20 mill. by 2025

Intro

- ***Mangrove forests:*** area is about 115,500 ha
Stretch from Kenya boarder (North) to that of Mozambique (South), with high concentration, 53,000 ha in the Rufiji River Delta (largest single mangrove forest in coastal environ. experiencing changes as a result of natural and anthropogenic causes

Map of the coastal area



Anthropogenic impacts on ecosystem

- Illegal and destructive fishing practices, live coral and sand mining,
- intensive trampling on seagrasses, municipal wastewater, and clearing of mangrove and other coastal forests for commercial and domestic purposes –threatening the coastal and marine ecosystems

Anthropogenic impacts: Loss of vegetation cover



CC impacts

- Sea level rise
- Ground water Salinization
- Variable precipitation leading to both flooding and Drought
- Changes in seasonality and River flows
- Coral reef bleaching
- Sea water Temperature Increased (mean ann tempe 1.7 deg c(wester) to 2.5 deg c (western))

Area along the coastline of Zanzibar adversely affected by CC



Initiatives (Policy, legal and Inst)

- National Environmental Policy (1997) on review 2013
- National Intergrated coastal mngmt Policy 2003
- EMA act 2004
- Marine parks and Reserve Act (1994)
- Fisheries Act
- etc

Institutional Framework

- Vice President's Office (DoE)
- NEMC (compliance and Research)-TCMP
- MDAs, LGAs, Hence Tanzania Coastal Management Partnership for Sustainable Coastal Communities and Ecosystems implement the National Strategies on Integrated Coastal Environment Management, and Economic Growth and Poverty Reduction at national and local levels

CC initiatives

- Include:
- **2009:** Preparation of National REDD+ Framework for Reducing Emissions from Deforestation and Forest degradation.
- **2009.** National Strategy on the Urgent Actions to Conservation of Coastal,marine,Damps,Lakes and Rivers to CC
- Presidential awarrd on the tree planting on the terrestrial and coastal ecosystem (1st 2010 and 2nd 2012)

CC initiatives

- 2012:** Addressing Core Capacity on Adaptation to Climate change in Productive Coastal zones
- **2012:** Implementation of a project on Developing Core Capacity to Address Adaptation to Climate Change in the coast of Dar es Salaam city

CC initiatives

- **2009:** Programme on CC, Impacts, Adaptation and Mitigation in Tanzania (CCIAM). It also aims to support REDD+ initiatives in Tanzania.
- **2009:** Project on National Forest Resources Monitoring and Assessment (NAFORMA).
- **2009:** Study on Climate Change Impacts Assessment across Tanzania

Initiatives

- **2010:** Guidelines for mainstreaming environment into sectoral and local government authorities' plans and budgets.
- **2010:** Programme on Supporting Integrated and Comprehensive Approaches to Climate Change Adaptation in Africa. Tanzania chapter:

Initiatives

- **2010:** Project on Empowering Vulnerable coastal Communities to Adapt and Mitigate the Impacts of Climate Change in Central Tanzania.
- **2010:** Project on Resilient Landscapes for Resilient Communities Zanzibar (Pemba Island)

Initiatives

- **2011:** Mainstreaming Environment and Climate Change Adaptation in the national development efforts
- **2012:** National Climate Change Strategy.

CHALLENGES ON COASTAL ECOSY MANAGEMENT

- Lack of scientific study/programes on the potential of the Coastal Ecosystem to Carbon sequestration,
- Lack of baseline data on the state of Coastal Ecosystem degradation
- Study on Content and quantity of carbon the can be stored above ground and below ground ecosystems
- Decrease of the National budget depending on the National priorities (eg.BIG RESULT NOW)