



Regional Workshop on Ecosystem Monitoring

Status of National Data Centres and Successes and Challenges in Data Collection

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Current Status and Successes in Data Collection

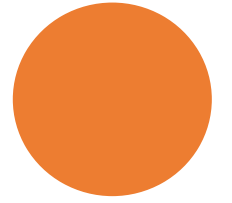
Ecosystem monitoring in Tanzania especially has gained significant attention due to regional rich in biodiversity including coral reefs, seagrass beds, mangroves and marine fisheries.

CURRENT STATUS

- ✓ Institutional Framework- Ecosystem monitoring is supported by national institution such ZAFIRI, TAFIRI, ZEMA, NEMC local and international NGOs (TNC, UNEP, WWF, IUCN, WCS, AFO, MWAMBAO).
- ✓ Digitalization efforts- Increasing adoption of digital tools and technologies for data collection and storage
- ✓ Infrastructure development- Invest in physical and digital infrastructures focusing on high capacity servers, cloud system and data security
- ✓ Policies and Frameworks- Government have developed policies for data standardization, management and sharing ensuring the reliability and accessibility of data.
- ✓ Community participation- Local community are increasingly involved in monitoring particularly through initiatives such SFC

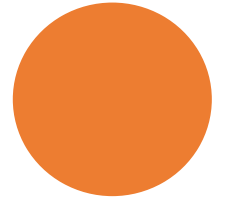
Success

- Mapping of Marine ecosystems → Multiple approaches, include Remote sensing, in-situ (underwater camera & sonar)
- Real time data → installation of Tide gauges (with sensors for other water parameters)
- Standardized protocol
- Government initiate and support
- Collaborations



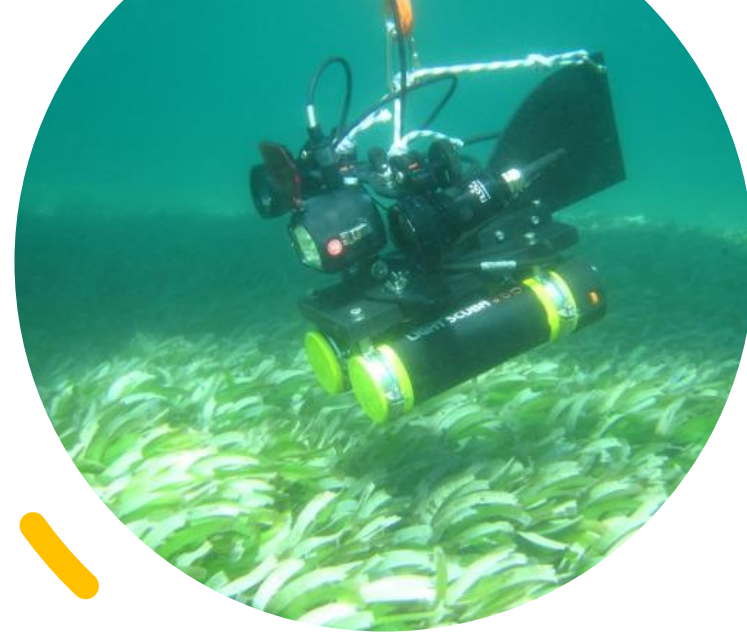
Success

- Informed policy development
- Initiatives established and identify the role of ecosystem services in ecosystem
- Stakeholders and community engagement (BMU,SFC) in data collection through various project
- Periodic training for data collectors(enumerators) (Example: SWaM-provided Training on digital mapping of ecosystems for marine parks managers)



Challenges in Data collection

- Data for daily operation to proper management
- Shortage of technological tools for ecosystem observation
- Data gaps- especially insufficient coverage in remote areas
- Cyber crime risks
- Political and institutional barriers
- Lack of Data sharing culture



Thank you.