

FISHING DATA EAST AFRICA (FIDEA)

MeerWissen Webinar Series

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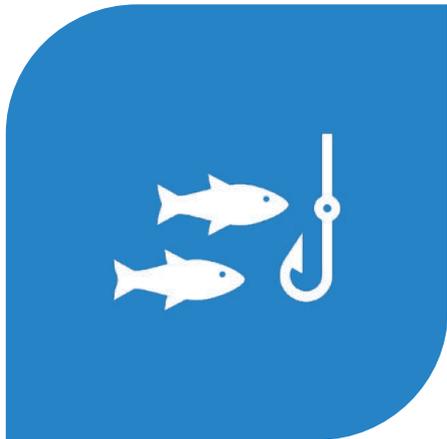
University of Dar es Salaam
Institute of Marine Sciences



WHAT IS FIDEA?

A partnership project aimed at supporting national fisheries institutions

- Improved fisheries data collection and handling
- Assessing and analyzing fisheries data and reporting
- Support capacity development



Strengthen a science-based decision-making process
in support of sustainable fisheries management



Participatory approach
Outreach and capacity building
Partnerships

SETTING

Project implemented by 3 partner institutions in two countries in Eastern Africa



•Project Partners

- Institute of Marine Sciences (IMS), Zanzibar, Tanzania
 - Tanzania Fisheries Research Institute (TAFIRI), Tanzania
 - National Institute of Fisheries Research (IIP), Mozambique
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- The project has been co-designed with the partners over 8 months period.



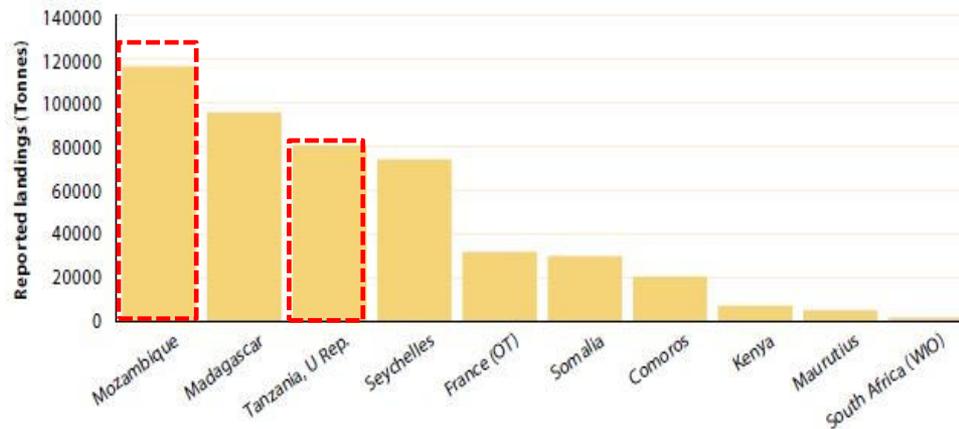
WHY FISHERIES DATA?

- Coastal inhabitants of the WIO countries rely heavily on fishing
 - Food security
 - Livelihoods
 - wellbeing
- Artisanal fisheries dominate by numbers of fishers and gears
 - Non mechanised vessels
 - Artisanal fishing gears
 - Production is low
- Sustainability of fisheries under threat
 - Increased effort
 - Unsustainable fishing practices
 - Climate change

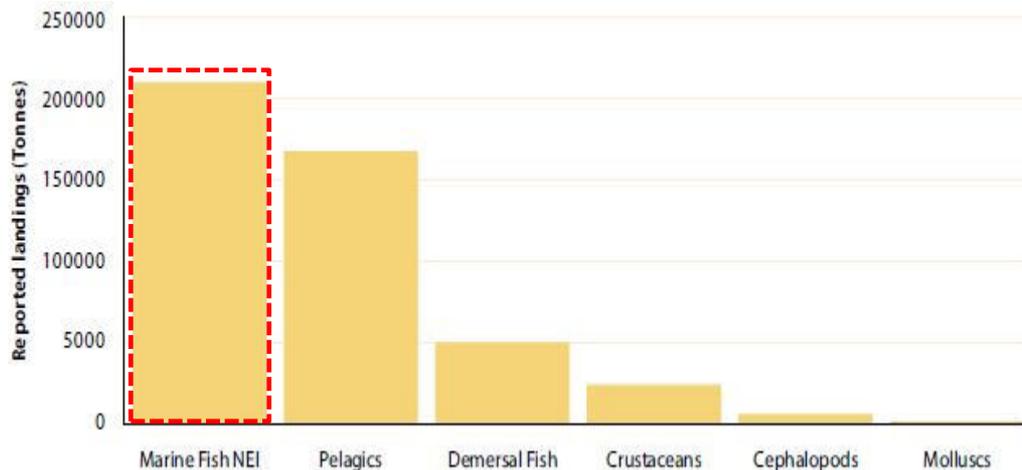


Source: Paul Tuda/ZMT

EMERGING ISSUES



- Nearly all countries lack sufficient data and expertise to fully describe their fisheries
- Few well-informed decisions can be made on fisheries.
- Meeting targets of SDG 14.4 (2020) target a challenge
 - Ending overfishing
 - IUU fishing
 - Implementation of science-based management





Source: Meerwissen secretariat

CO-DESIGN WORKSHOP

Project implementation



M1: Review and assessment

- Stakeholders workshop
- Network and collaboration



M2: Strategy Development

- Develop strategy for routine data collection and processing



M5: Harmonization



M3: Training and Support

- Training workshops on data handling and analysis
- Access to online training portal & tools



M4: Digital tools

- Assessment of the sustainability of the existing tools
- Digital data collection.

M1: Review and assessment

What role does stakeholders' consultation co-design play in the project implementation?



Source: Paul Tuda/ZMT

Stakeholders workshop, Dar es Salaam,
Tanzania, September 2019



Source: Paul Tuda/ZMT

- Building trust & consensus
- Ownership
- Partnerships and Network

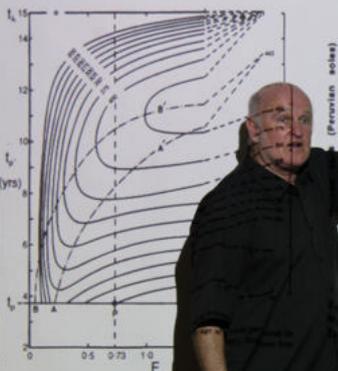


ZMT LEIBNIZ  for Tropical 

Y/R- models – estimating Y as a function of L_c and F

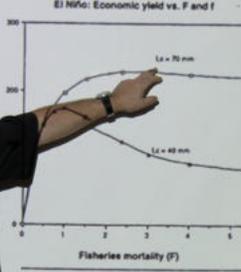
Do we need models?
 What kind we need?
 What kind we have?
 Good/bad models?
 Decision-making
 Prospects





Yield per recruit diagram showing different fishing mortalities and lengths at capture (Beverton and Holt (1957)).

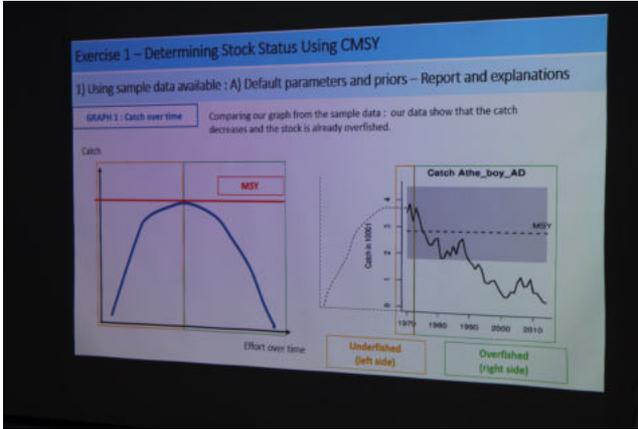
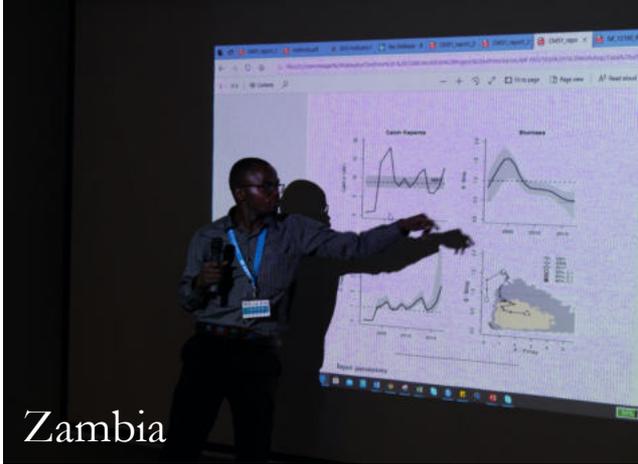
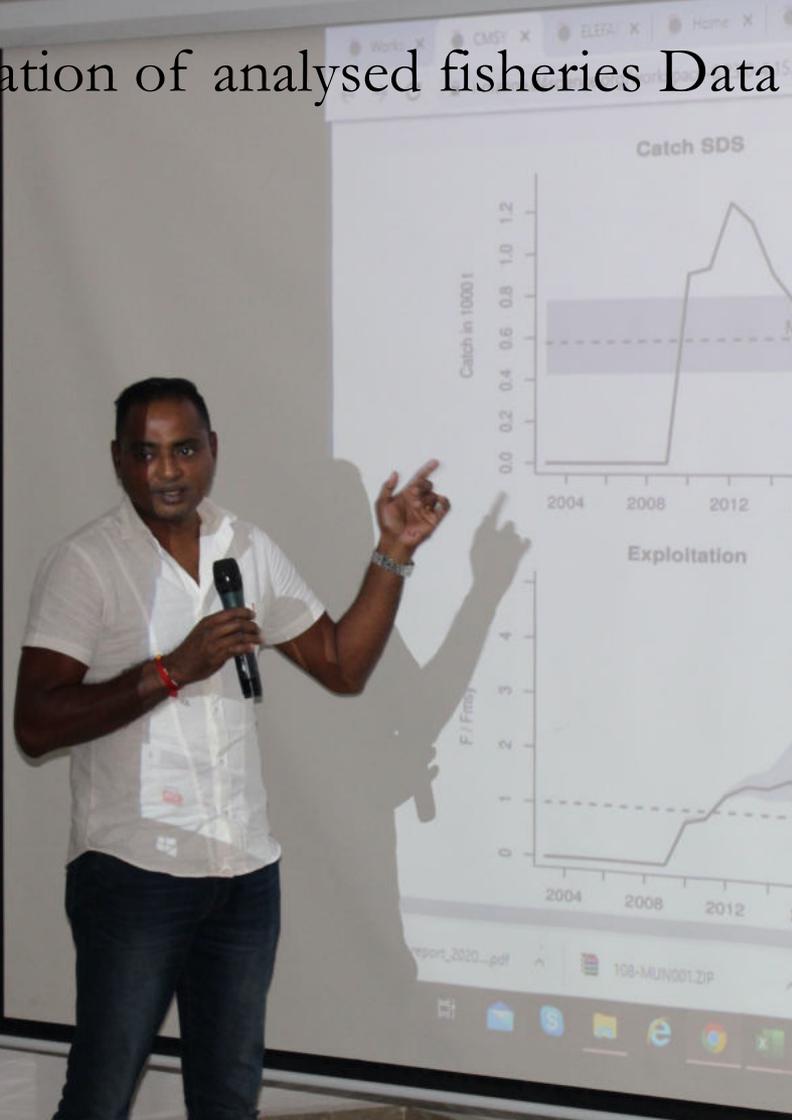
El Niño: Economic yield vs. F and L_c



Economic yield of the scallop as a function of fishing mortality (F) and effort (f) under El Niño conditions in the Pacific (Peru) (Wolff & Mendelsohn (1987)).



Countries Presentation of analysed fisheries Data



Mauritius

Source: Paul Tuda/ZMT



Photo: KiranViparthy/FAO

M4: Digital tools

What technologies are needed and what should they address?

- Various information systems already in use
- Most resulted from ad-hoc external funding to solve project specific needs
- Many of these systems lack ongoing support for existing users.
- Leads to fragmentation of data

There are no shortcuts, rapid & large deployments simply don't work.



Source: Paul Tuda

M5: Harmonization



Source: <https://blog.ucsusa.org/Springer.jpg>



Source: Paul Tuda



Source: Paul Tuda



Source: Paul Tuda

SDG 14 is an essential platform for bridging the institutional divide

TAKE AWAYS

- FIDEA has helped to greatly improve communication among fisheries stakeholders in the WIO region
- Cooperation with FAO and ZMT fisheries experts has been intensified; there is strong interest that this cooperation is sustained in the region, at least over the next decade of Ocean Science
- A pilot course for training in fisheries data collection and stock assessment in the region has revealed the great interest in - and need for further- training in stock assessment in the WIO region
- A “network of support” for fisheries assessment and reporting of the state of national fish stocks to the FAO needs to be implemented in the region, ideally closely linked to WIOMSA
- FIDEA may help to strengthen this “network of support” through offering consultancies and training (i.e. online webinars and on-site training (possibly in coordination with fisheries experts of the FAO

Project Team



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Food and Agriculture Organization
of the United Nations

ASANTE SANA



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for Economic Cooperation
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Source: Saleh Yahya/IMS