

INTEGRATING HYDRO-CLIMATE SCIENCE INTO POLICY DECISIONS FOR CLIMATE-RESILIENT INFRASTRUCTURE AND LIVELIHOODS IN EAST AFRICA – HYCRISTAL

- The Project will be funded by NERC/DFID - Future Climate for Africa Programme, in which TAFIRI had requested total of US\$ 90,000 annually to cover the costs of collecting updated information on livelihoods, compilation of fisheries and climate data and conducting desktop studies aimed at synthesizing all national policies relevant to the project objectives. The Institute for Climate and Atmospheric Science (ICAS), University of Leeds (UK).
- In this project, TAFIRI's contribution will be centered on three broad areas:
 - Regional-level assessment of risk and livelihoods
 - Climate-impact modelling and tool development using fisheries data for use with a fisheries management tool to enable stakeholders to assess risk and uncertainty
 - Regional-level policy consultations for developing consensus on livelihood options

POULTRY-FISH-VEGETABLE INTEGRATION PROJECT

- **Project PI:** Dr Amon P. Shoko (TAFIRI Headquarters)
- **Co-PI:** Dr Mary A. Kische Machumu(TAFIRI Headquarters)
- This project is part of a programme on Innovation in Gender Equality (IGE) funded by the United States Agency for International Development (USAID) through Land O'Lakes, Inc. in Tanzania. This program aims to develop local capacity for building and sustaining women empowerment in Tanzania's agriculture and food security areas. Poultry-fish-vegetable integration project in particular aims at improving the efficiency of household productivity and reduces women's workload. Through this project income will be generated to improve the financial status women and improve their general livelihoods. The project will be implemented in Mbeya and Iringa regions. The estimated budget of this one year project (late 2015-2016) is TZS 132,421,460. The implementation of this project will start at any time once the budget is approved and other logistics are sorted out between TAFIRI and Land O'Lakes.

Dissemination and capacity building

- As part of innovation popularization two women farmers's workshops integrated fish farming will be undertaken. Two documentaries (Television) will be prepared and broadcasted in Star television through its famous programme known as *Jarida Maridhawa*. Also a group of women farmer's will be supported to attend trade show such as *Nanane* and *Sabasaba*. A poultry-fish-vegetable manual will be prepared and disseminated to famers. Several leaflets and a policy brief on poultry-fish vegetable integration will be prepared.
- As part of capacity building to researchers, four scientists will be facilitated to attend scientific conferences and/or workshops. Two scientists will be facilitated to attend a short course on the preparation of business plan.

STRENGTHENING RESEARCH AND PROPOSAL WRITING SKILLS AT ACADEMIC INSTITUTIONS IN TANZANIA: EMBEDDING ACTIVITIES AT TAFIRI, TANZANIA, JULY 2015 – JULY 2017

Project PI: Dr Amon P. Shoko (TAFIRI Headquarters)

- This is mostly a capacity building project. The overall objective of this project is to improve scientific writing skills to TAFIRI researchers through establishing and institutionalizing a research and proposal writing skills course at TAFIRI which will be run once a year. This embedding project will train at least 20 trainers from five TAFIRI research centres to deliver research and proposal writing skills courses during the two-year period and with the aim of increasing the number of:-
- fundable proposals from the current **3** in 2014 to **10** by 2020
- researchers attending conferences from **8** in 2014 to **20** by 2020
- researchers that review scientific work from the current **7** in 2013 to **20** by 2020
- publications in peer-reviewed journals from the current **46** to **120** per year by 2020.
- The project will be funded by the International Network for the Availability of scientific Publications (INASP) in collaboration with AithorAID International.

SOUTH WEST INDIAN OCEAN FISHERIES GOVERNANCE AND SHARED GROWTH PROJECT (SWIOFish)

- **Year of commencement and ending:** July 2015 – September 2021
- **Project PI:** Dr. Baraka Kuguru (TAFIRI Dar es Salaam Centre)
- **Co-PI:** Dr Mary Kishe-Machumu (TAFIRI Headquarters)
- **Objective:** The Project Development Objective is to improve the management effectiveness of selected priority fisheries at the regional, national and community level.
- **Total Amount of funds for Tanzania:** USD 36 million
- **Amount allocated to TAFIRI Dar es Salaam Centre:** USD 1,640,577 (Research: USD 1,168,598 and Construction: USD 471,979)
- The SWIOFish is a six year project designed primarily as an institutional support project that strengthens existing and new institutions in their mandate to provide better fisheries management of coastal and marine resources in Tanzania. The project is funded through IDA credit and GEF grant. The project has three implementing agencies namely; (1) The Mainland PIU within the Ministry of Livestock and Fisheries Development (MLFD) (2) The Zanzibar PIU within Zanzibar's Ministry of Livestock and Fisheries (MFL) and (3) The Deep Sea Fishing Authority PIU. The three agencies will be responsible with the day-to-day management and implementation of the Project activities. Under these agencies there will be implementing institutions where their activities would be directed by the agencies. These would include institutions namely; MCU, SUZA, TAFIRI, IMS, FETA, MPRU, Aquaculture Development Division as well as Non-Government Organization's (NGO's). The project has three major components, namely (1) Enhanced regional collaboration (2) Improved governance of priority fisheries (3) Increased economic benefits to the region from priority fisheries and (4) Project Management and Coordination. TAFIRI activities fall under component 2.

FISH AGGREGATING DEVICES (FADS): A FISHING TECHNOLOGY FOR POTENTIAL RECOVERY OF DECLINING FISH STOCKS IN THE NEARSHORE COASTAL WATERS

- **Year of commencement and ending:** 2015 – 2016
- **Goal:** The project intends to deploy FADs in Bagamoyo fishing grounds to attract fish aggregation around the area as an attempt to recover the declining fish stocks
- **Amount of funds:** TZS 80,005,000
- The project is funded by the Deep Sea Fishing Authority (DSFA). The MoU was signed in June 2015 and the project came into effect in July 2015. The need for this project came up following the ongoing decrease in fish stock in territorial waters due to increase in demand of the fisheries resources, increase in population, food demand and growth of the tourism sector. The project intends to counterbalance the unsustainable fishing pressure from artisanal fishers. The proposed project will be implemented at Bagamoyo fishing grounds, where local small scale fishers have shown interest/initiatives of using car wreckages to attract fish aggregation. This is the main reason/criteria for selecting Bagamoyo fishing grounds for this pilot study before moving to other potential fishing grounds.
- TARIFI Dar es Salaam Centre will be fully responsible for the execution of the project in collaboration with the Ministry of Livestock and Fisheries Development (URT), Bagamoyo District Council, Fisher groups, the National Task Force on FADs Development which is being coordinated by the University of Dar es Salaam, and BMUs and other stakeholders. Deep Sea Fishing Authority will remain as an overseer of the project implementation and progress.

INTEGRATED AQUACULTURE SYSTEM OF SEAWEEDS AND MARINE FISH: A HUB FOR FOOD AND INCOME GENERATION TO COASTAL COMMUNITIES IN TANZANIA

- **Year of commencement and ending:** 2015 – 2017
- **Project PI:** Dr Baraka Kuguru (TAFIRI Dar es Slaam Centre)
- **Objective:** The proposed research study intends to develop a cost-effective and environmental friendly technique for integrating commercially important seaweed and fishes.
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- **Amount of funds:** TZS 89,999,000
- The project is funded by COSTECH. It aims at integrating seaweed and fish farming and particularly aims at developing a methodology of growing seaweed at deep waters which reduces the bleaching effect due to excessively temperature and favors maximum growth/productivity. The technology is expected to create favorable micro-habitats which will then attract a variety of fish coming for food and shelter. This study will gather information to allow maximum utilization of available potential technology to increase income and food. If successful, it will improve economic benefits to fishers and seaweed farmers obtained from the integration.
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- The project will be jointly conducted by TAFIRI Dar es Salaam Centre, in collaboration with the University of Dar es Salaam (UDSM), Marine Parks and Reserves Unit (MPRU) and fishing communities in Mafia District.