



WorldFish

PROFISH BLUE

“Genetic improvement, support to aquaculture value chains and promotion of fish in foods systems in SADC”

Rose Komugisha Basiita

Genetics Workshop, Penang Malaysia

17th -21st October 2022





Project Role by WorldFish

- Component 1.3: Promote genetic improvement and aquaculture programs | regional hatchery support and training
- Component 1.5: Digital fisheries information systems (FIS) and knowledge sharing platform for managers and value chain actors
- Component 2.5: Promotion of national and regional fisheries and aquaculture tradable/nutritious food products focusing on SMEs, linkages with eco-tourism, and market connectivity



Component 1.3: Promote genetic improvement and aquaculture programs regional hatchery support and training



- This component will comprise 4 major activities:
 - Activity 1.3.1: Development of regional framework for genetic improvement and domesticating best practices.
 - Activity 1.3.2: Building capacity of participating institutions.
 - Activity 1.3.3: Support to national hatchery equipment
 - Activity 1.3.4: Support to national research activities on regional germplasm.



Activity 1.3.1: Development of regional framework for genetic improvement and domestication best practices.



- Germplasm management in the region and understanding status of benefits sharing in the region.
- Access to germplasms and distribution, assessment of the markets and then the technical requirements of the programs.
- Discuss the extent to which the countries can implement breeding programs, the possibility and practicality - regional breeding program vs national programs.
- Experiences and lessons so far learned from the countries already implementing breeding programs (Malawi, Zambia).
- Experiences and lessons learnt from other projects-TrueFish – measurements of local biodiversity are being done and results integrated in policy and regulation



Deliverables: Cohesion and programmatic approach

- Having some approaches developed and working with TrueFish such as;
 - Criteria for decision making in policy
 - SADC discussion group that started at the WAS meeting in South Africa-
 - The ProFishBlue is working on developing common approaches to access and benefit sharing
 - Key procedures in developing industry performance of species
 - Biosecurity issues among others
 - Training





Component 1.3: Promote genetic improvement and aquaculture programs | regional hatchery support and training



Activity Number	Activity Description	Timeline: July 2022 - December 2025															
		2022		2023				2024				2025					
		Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
1.3	Component 1.3: Promote genetic improvement and aquaculture programs regional hatchery support and training																
1.3.1	Activity 1.3.1: Development of regional framework for genetic improvement and to domesticate best practices																
1.3.1.1	Assessing needs for GIPs and working with governments to ensure a programmatic approach to developing GIPs is used																
1.3.1.2	Development of the regional genetic framework																
1.3.2	Activity 1.3.2: Build capacity of participating institutions																
1.3.2.1	Building capacity to actually manage existing GIPs																
1.3.3	Activity 1.3.3: Support to national hatchery equipment																
1.3.3.1	Support in key equipment required for national breeding programs and related hatcheries																
1.3.4	Activity 1.3.4: Support to national research activities on regional germplasm (Zambia, Malawi, Mozambique and SA)																
1.3.4.1	Support one experiment/study for one generation of target species in the region which is undergoing genetic improvement (O. Andersonii in Zambia). Build on earlier work by WorldFish and partners in the SADC region																



Thank you

