

United Republic of Tanzania



Implementation of Community-based Larval Source Management for Enhancing Malaria Control in mainland Tanzania. A process narration.

NMCP / Swiss TPH – TEMT Project



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Control Program





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Background



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Swiss TPH 夕

Background

- In mainland Tanzania, implementation of ITNs and IRS has helped in reducing malaria prevalence from 18.1% (DHS/MIS-2008) to 7.5% (MIS-2017)
- In enhancing malaria control, the country is planning to deploy Larval Source Management
- National Malaria Control Program (NMCP) with support from Towards Elimination of Malaria in Tanzania (TEMT Project) has planned to support LSM in 15 councils, however, the intervention has started in 3 councils in Tanga region:
 - Handeni DC, Lushoto DC and Tanga CC
- Support from TEMT Project includes financial resources and technical assistance



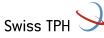
Selection criteria for the 15 councils

- i. To consider representation of all malaria risk strata
 - "very low", "low" "moderate", "high" and "urban"
- To consider councils with Malaria Vector Entomological Surveillance (MVES) Sentinel Sites
- iii. To consider councils implementing other interventions, like;
 - LLINs, IRS, MDA, CBS, MEEDs, CmCM and IPTi
- **iv.** To consider councils with high heterogeneity (within its wards)
- V. To consider councils with bimodal and unimodal rainfall patterns
- vi. To consider logistics in-terms of biolarvicide distribution & supervision



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TEMT Project – LSM Implementation Councils

	Region	Council	Malaria Endemicity / Risk	Malaria Risk Strata	Kaggen Mara
		Handeni DC	High		Arusha
	Tanga	Lushoto DC	Low (High heterogeneity)		Geiten Shinyanga
		Tanga CC	Moderate (Urban)		
		Rombo DC	Very low		Kigoma Manyara
	Kilimanjaro	Same DC	Low (High heterogeneity)		Tanga
)		Moshi DC	Very low		Singida Dodoma
7		Chamwino DC	Low		Katavi
	Dodoma	Kondoa DC	Low		Print Print
)		Mpwapwa DC	Low (High heterogeneity)		Rukwa Songwe Mbeya Mforogoro
0		Uvinza DC	High		Southing Contraction of the
1	Kigoma	Kibondo DC	High		Kindi
2		Kigoma MC	High (Urban)		my fund for
3		Tunduru DC	High		Ruruma
4	Ruvuma	Nyasa DC	High		
15	1	Songea MC	Moderate (Urban)		
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Strategy of LSM Implementation



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Structure of Implementation and Biolarvicides used

- LSM is conducted through a community-based approach
 - Volunteers at the community level (CORPs) implement LSM
 - Supervision follows existing local government structures from the village / street, ward and council levels
- The project uses two biolarvicide products that are manufactured locally at Tanzania Biotech Products Limited, a factory in Kibaha DC, Pwani Region
 - BACTIVEC Bacillus thuringiensis var. israelensis (Bti)
 - GRISELESF Bacillus sphaericus (Bs)
- These products are highly selective target only larvae stages of mosquitoes
- Biolarvicides are safe to humans, animals and the environment







Swiss TPH



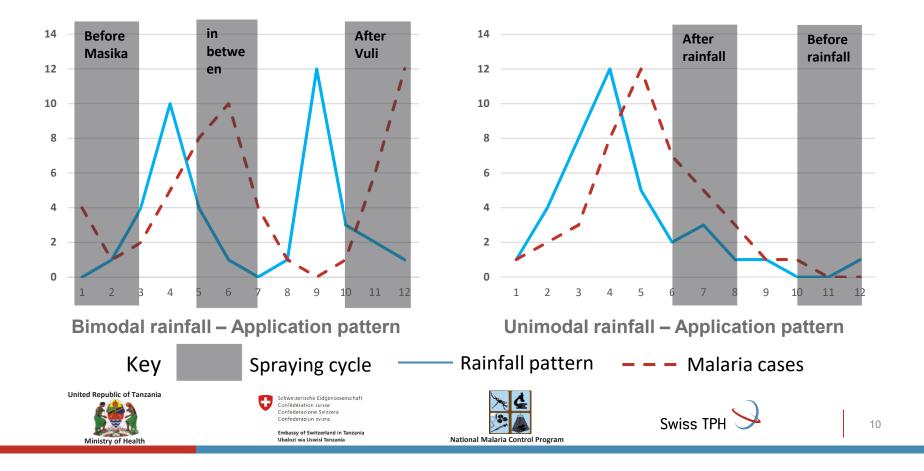


Biolarvicide application - Frequency

Spraying cycle							
According to Rainfall Pattern							
Bimodal	3 spray cycles	Each spray cycle will last for 2 months					
Unimodal	2 spray cycles	Each spray cycle will last for 2 months					

Frequency of spraying per spraying cycle						
Month	Week	Spray				
	1	Yes				
1	2	Yes				
1	3	Yes				
	4	Yes				
	5	-				
2	6	Yes				
2	7	-				
	8	Yes				
Total application	6					
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Biolarvicide application – Based on rainfall pattern



Status of LSM Implementation



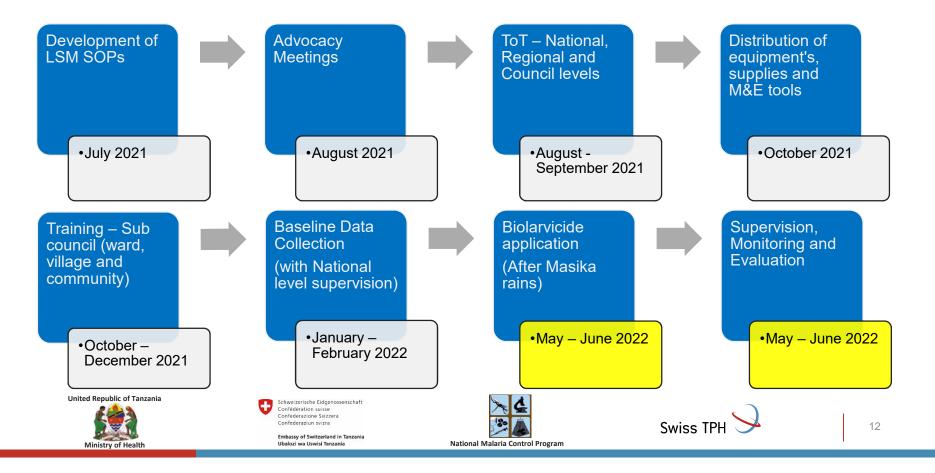
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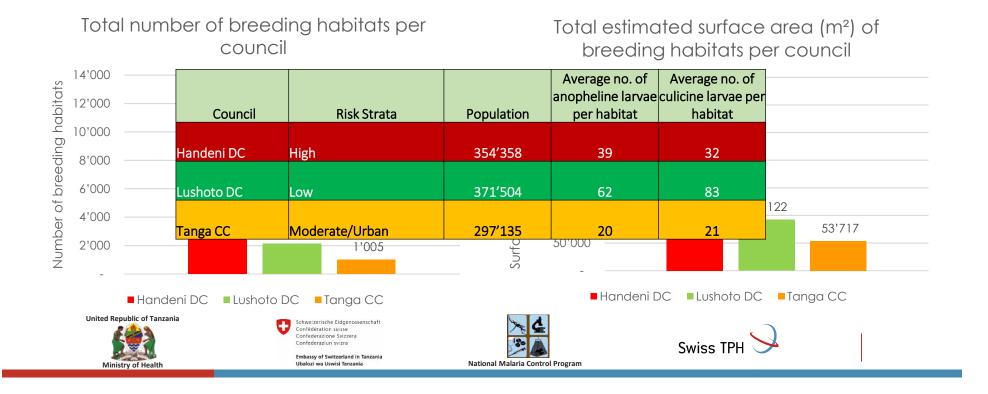


Status of LSM Implementation



Status of LSM Implementation

• Baseline larval habitat data as collected during dry season (before "Masika" season)



Identified Challenges

- Limited experience in conducting community-based LSM application
 - Difficulties in reaching all areas within the villages
 - Difficulties in identifying all breeding habitats especially in rural settings



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Next Steps



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Up-coming activities

- To conduct round one of application of biolarvicide (after "Masika" season) in May – June 2022
- To conduct subsequent rounds as per identified schedule
- Close monitoring and evaluation of LSM implementation
 - Process evaluation
 - Entomological evaluation (larvae and adult mosquito monitoring)
 - Epidemiological monitoring (facility based data)
 - Cost analysis (prospective analysis)
 - Impact analysis



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