



# **Building Nutritious Food Baskets Project**

## **OBJECTIVE 2**

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SRI-Kibaha**



# Mainstreaming bio-fortification in crop research and breeding programs

- *Intermediate Result 2.3. Biofortification mainstreamed in national crop programs, and biofortified varieties of staple crops prioritized in the development and release process*



## Activity 2.3.1

- Engage the release committees of Tanzania to fast-track the release of bio-fortified crops and include bio-fortified element as a key criterion/element (special trait) for release
- NARS breeders to evaluate the advance materials in the pipeline to allow for release of the varieties.
- Conducting evaluation and selection in multi-sites including on-farm trials, conducting NPT and compiling data and application for release



## Scope of work and time frame

- Assemble sweetpotato and cassava varieties from advanced trials
- Multiplication to get number of cuttings required for multi-sites
- Multi-location evaluation: 2 Seasons
- Number of varieties: 16-20 varieties/breeding lines of sweetpotato and 10 yellow cassava
- A minimum of 6 sites per season
- On-farm trials: 40-60 farmers assessment of the varieties in augmented design in on-farm trials
- National performance trial (NPT)-TOSCI-1 season
- Application for release – Variety release technical committee

## KEY OUTPUT

- By the end of 30 months, at least 3 new OFSP and 2 yellow cassava varieties in Tanzania will be released.
- Once the varieties are released, BNFB will work with SASHA and the private sector to clean/ virus index the breeder seed in Tissue culture form to start the clean seed system



# OFSP target varieties:

- Food
- Feeds
- Processing industries
- Income





# Processed products: Matoborwa and Vitamu



Matoborwa Company in Dodoma, central Tanzania

## Proposed locations

### Sweetpotato:

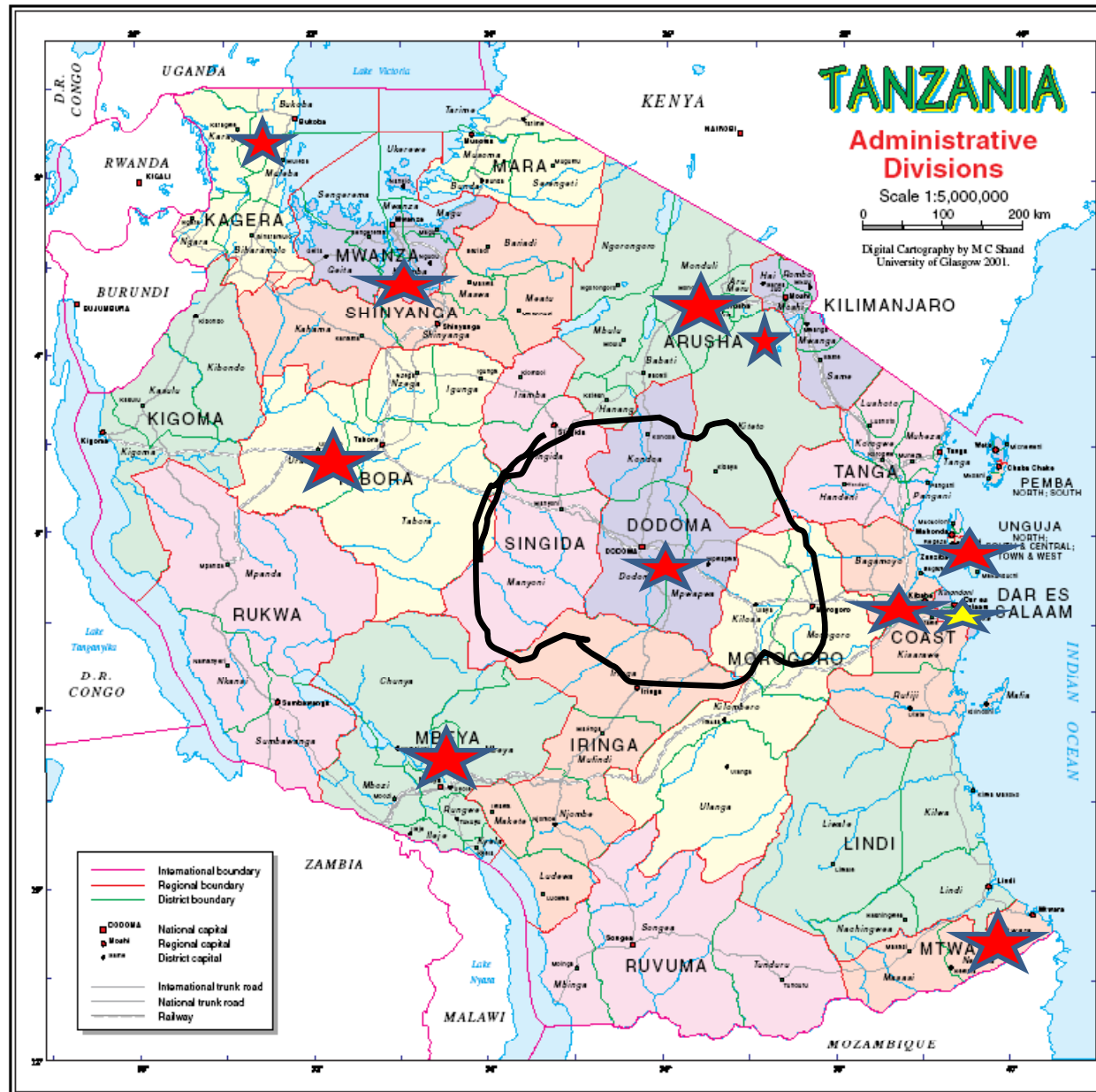
- Central zone-Dodoma, Singida
- Tabora region
- Iringa region-north
- Manyara region-south

### Cassava:

- Eastern zone



# TANZANIA



## 16 Research Institutes

ARI-Naliende  
ARI-Kizimbani,  
SRI-Kibaha,  
ARI-Ukiriguru,  
ARI-Hombolo-semi  
arid  
ARI-Mikocheni  
ARI-Tengeru  
ARI-Maruku  
ARI-Uyole

## Activity 2.3.2

- Build the capacity of key national crop programs on Quality Declared Planting Material (QPDM) and quality control for biofortified trait



# TENTATIVE WORKPLAN

<b>Activity SWEETPOTATO</b>	<b>2016</b>			<b>2017</b>				<b>2018</b>			
	<b>Mar- June</b>	<b>July- Sep</b>	<b>Oct- Dec</b>	<b>Jan- Mar</b>	<b>Apr- Jun</b>	<b>Jul- Sep</b>	<b>Oct - Dec</b>	<b>Jan- Mar</b>	<b>Apr- Jun</b>	<b>Jul- Sep</b>	<b>Oct- Dec</b>
1. Assemble research materials											
1. Multiplication of research materials											
1. Site selection and farmers selection											
1. Field preparation											
1. Planting trials											
1. Data collection and Monitoring											
1. Farmer field days											
1. Harvesting											
1. Data and report											
1. Field maintenance of varieties											
1. NPT											
1. Release application											