

Developing a policy framework for Biofortication in Mozambique and lessons learned from Food Fortification"

Eduarda Zandamela Mungói, Ph.D Ministry of Industry and Trade National Food Fortification Program Maputo, Mozambique March 01, 2017

OUTLINE

- Overview of Nutrition Situation in Mozambique
- Biofortification
- Food Fortification in Mozambique
- Challenges
- **❖**Next Steps

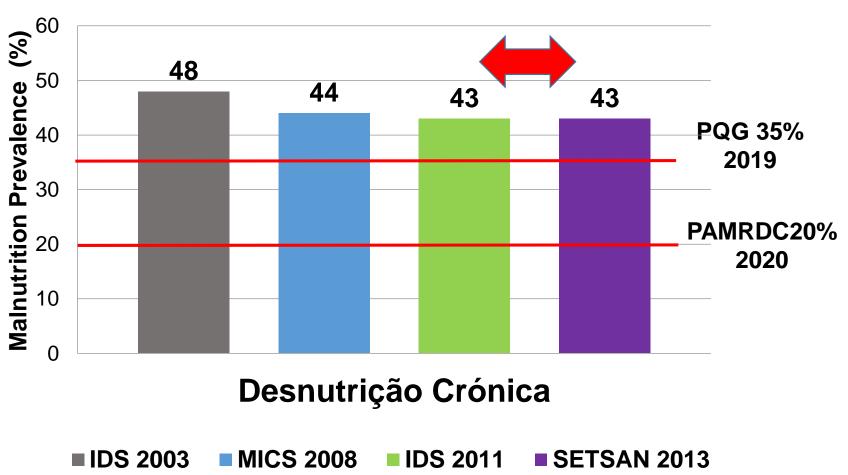
Mozambique Population

Mozambique Population:

- > Total Population: **26.423.623**
- > Men: 12.760.324
- > Woman: 13.663.299
- ➤ Urban Population: **8.468.799**
- > Rural Population : 17.954.824
- ➤ Chronic malnutrition/ Stunting: 43%

Malnutrition in Mozambique

From 2008 to 2013 stunting only reduced 1% (from 44% to 43%)



Comparative Data on Chronic malnutrion in Mozambique

Província	IDS 2011	SETSAN 2013	OBS
Cabo Delgado	53 %	51,4%	
Nampula	55%	50,1%	
Zambézia	45%	40,5%	
Niassa	47%	43,6%	
Tete	44%	50,7%	↑
Manica	42%	45,4%	1
Sofala	36%	44,1%	↑
Inhambane	36%	31,7%	
Gaza	27%	38,1%	↑
Maputo Província	23%	25,3%	↑
Maputo Cidade	23%	30,2%	↑

Micronutrient Deficiences

Vitamin A

69% children <5 anos (IDS, 2011)



lodine

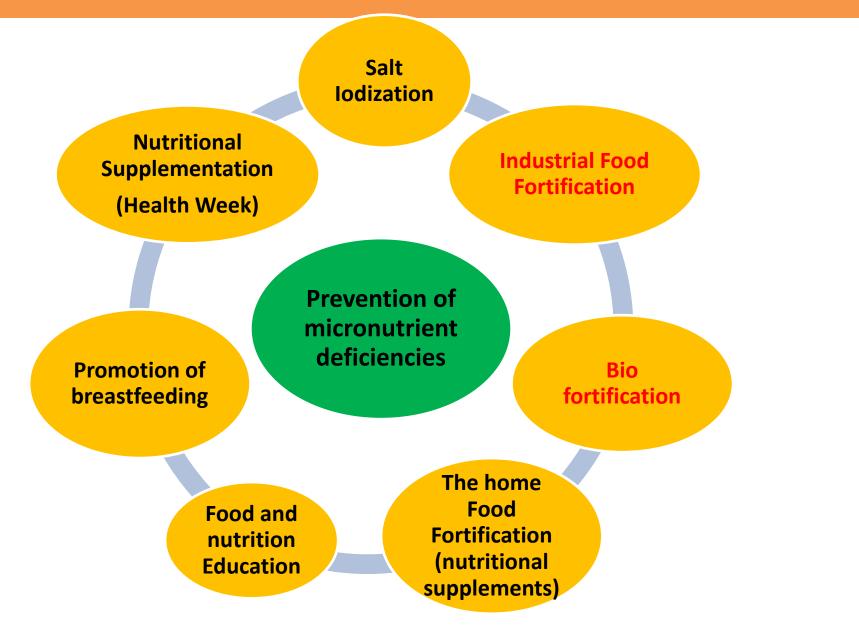
68% of pop. In school age 30% of MIFs
Median urinary iodine: 65, 4 μg/L
(MISAU, 2004)

INSUFICIENT Intake Slightly Deficiency

Anemia

74% (2002) >> 68,7% (2011) 48%(2002) >> 53,9% (2011) (MISAU, 2002 and IDS 2011) Huge Public Health Problem

Mozambique Interventions for prevention of micronutrient deficiencies



BIOFORTIFICATION

Biofortification:

- ☐ Biofortification: breeding crops to increase their nutritional value.
- Develop basic rich crops (staple) in order to achieve micronutrient is the provitamin A, and the concentrations of iron and zinc, from deficiency of these micronutrients and with a view to improving the nutritional status of the population.
- ☐ Easy reach rural populations in situations of malnutrition
 - Intervention low cost
- No recurring costs beyond the cost of maintenance of varieties

Status of Biofortification in the Country

- Mozambique's policy framework is enabling for agriculture and nutrition interventions, although reforms are recommended.
- ☐ Biofortification as a food based approach, is **still not adequately covered into the national agriculture and nutrition's policy framework available,** such as PAMRDC, ESANII, and PEDSA/CAADP.
- □ A balanced alliance with nutrition, health, agriculture potential implementers, advocacy and media needs to be built;

Status of Biofortification in the Country

- ☐ The need to engage the high Government officers from agriculture and health for their commitment, specially in the proposed policy agenda setting;
- ☐ From demand side: need to engage the private sector (SMEs).



FOOD FORTIFICATION IN MOZAMBIQUE

Lesson Learned

Food Fortification:

- ❖ Simple Process their success depends on the correct selection of food to be used as a vehicle for fortification and the type of compound or micronutrient to be added.
- Strategy more cost-effective and sustainable prevention of multiple micronutrient deficiencies
- ❖ Being the **food industry the focus** of activities for adding micronutrient

Fortified Vehicles in Mozambique

- ➤ Wheat flour and Maize flour (NaFeEDTA, Zn, B12, Folic Acid)
- **Edible oil and Sugar** (Vit A and D);
- **>** Salt (Iodine)





Food Fortification Program

- MdE
- Milling
- Oils Industries
- Sugar Industries
- Equipments
 - · Wheat, Maize flour
 - oil and sugar
- Premix
- Incentive and subsidy

Production

Legislation and Quality

- National Standards
- Legislation
- Building capacitiy of the National LAB and Inspector for monitoring
 - · KIT's test rápido
 - (I-checks)
 - Equiment maintenance
- Training in GMPQC/QA FFstrategy 2016~'2021

• Logo

- Spots (TV & rádio) in local languages
- Social mobilization Campaign.

Comunicati on & Marketing

Monitoring & Evaluation

- EDMM studies
 - Objectives
 - Target Grup
- M&E PLAN
- Indicators
- Impactt and Coverage

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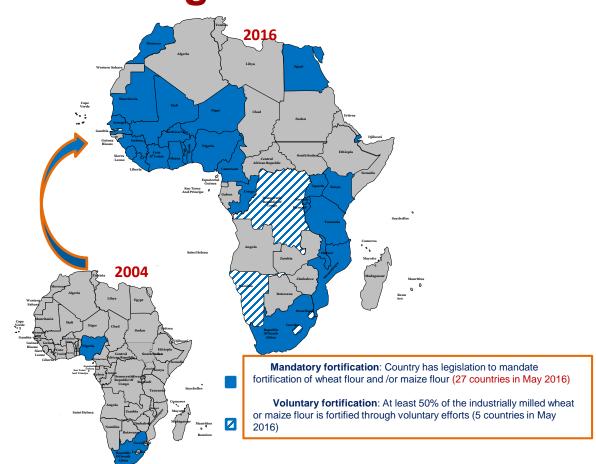
Status of Food Fortification in the Country

- Mozambique has recently approved the Regulation that obligates Large, Medium and Small commercial scale mills to fortify; Decreto 9/2016 of 18 of April and from 15th of October it goes live.
- Large and Medium Scale Millers have been trained on Best Practices and Quality Control
- December 2016 approval of the new Food Fortification Strategy 2016 -2021 and Social Mobilization Strategy
- Premix mechanism Positive List

Level of Fortification

Vehicle	Min	Max
Wheat flour	20mg Iron/kg	140mg Iron/kg
Maize flour	20mg Iron/kg	140mg Iron/kg
Oil	15 mg de Vitamin A / L	43 mg de Vitamin A/L
Sugar	1mg/100g Vitamin A	3mg/100g Vitamin A
Salt	25ppm/kg KIO3	55ppm/kg KIO3

Fortification in Africa: 12 Years of Progress



Main Challenges and Next Steps Fortification

- Extend the program to cover Smaller millers which still cover significant amounts of our population;
- Use of the Mozambican Standard
- Millers association;
- Total dependency of imports for micronutrients and equipment's/ maintenance;
- Availability and quality of local raw materials.
- Capacity building of all stakeholders

Main Challenges to Implement Biofortification and Next Steps

Drafting of country OFSP advocacy and resource mobilization for develope a National strategy

- □ Partner with Government/SETSAN and NGOs needs to integrate policy reform agenda into the Government's priority in nutrition;
- □ Capacity building scheme is crucial to galvanize synergies between resource mobilized and OFSP implementation capacity by stakeholders and maximize the resource utilization;
- □ OFSP's potential to create a value chain can be used to attract the private sector/SMEs interest and investment;
- ☐ Media net work as an ally can play important role in raising public awareness and on setting agenda for policy reform.

THANK YOU!!!



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