# **TASK FORCE- RWANDA**

May 27, 2016

#### TRAINING WORKSHOP ON QA/ QC FOR FLOUR FORTIFICATION









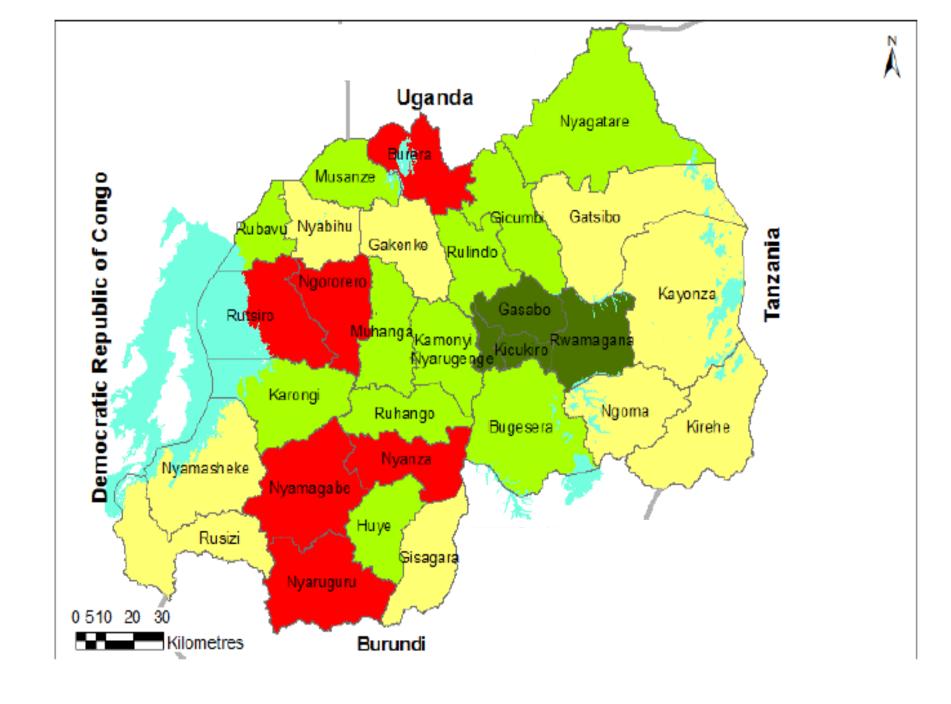






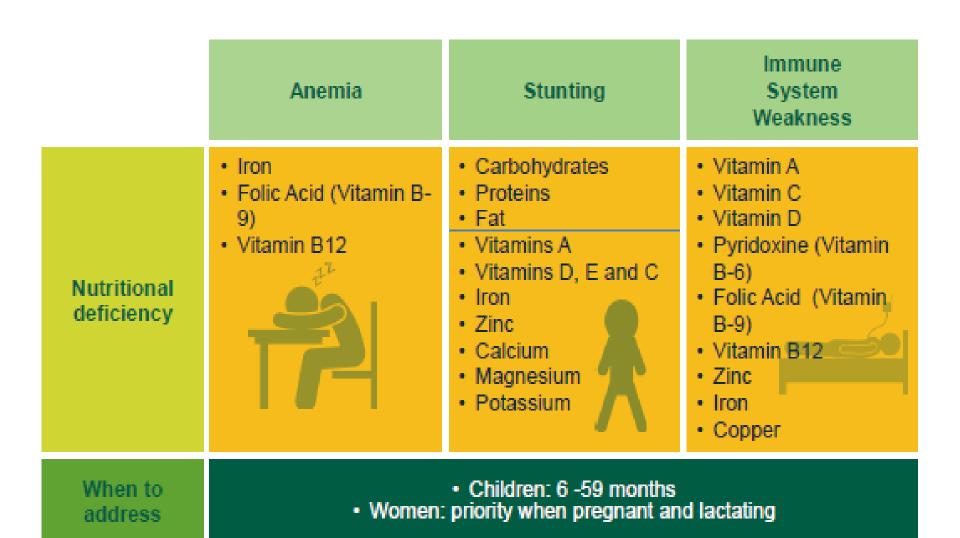






### **Guidelines on nutritional status**

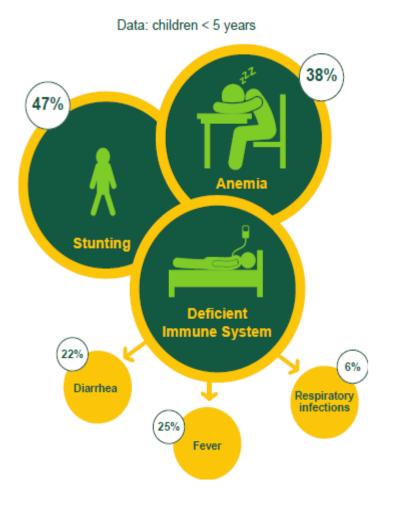
#### NUTRITIONAL DEFICIENCIES CAUSE ANEMIA, STUNTING AND IMMUNE SYSTEM DISORDERS



#### RWANDA IS ON ITS WAY TO MEET NUTRITION TARGETS,



#### The reality in 2010



# THE FORTIFICATION PROGRAM WILL ADDRESS MANY OF THESE DEFICIENCIES





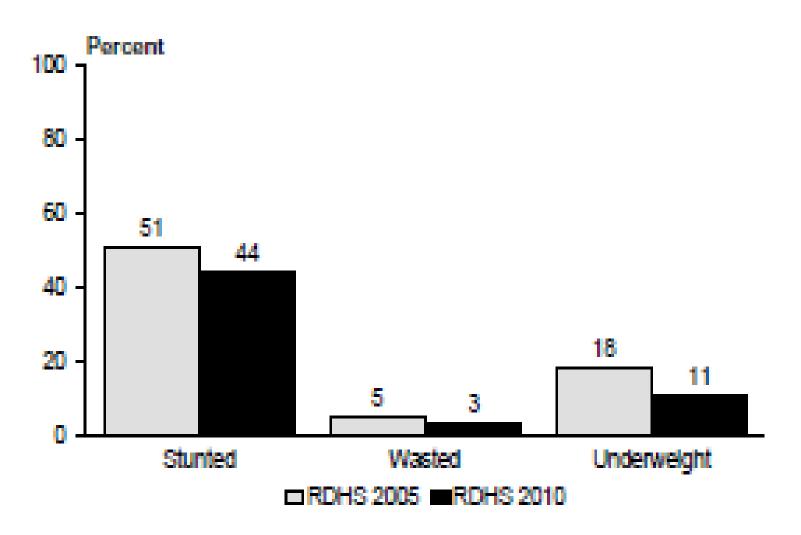


Folic Acid Vitamin B12 Proteins
Vitamin A
Iron, Zinc

Vitamin A
Pyridoxine
Folic Acid
Vitamin B12
Iron, Zinc

Rwanda Nutrition Data			
Population (2012)	11.7 Million		
Population under 5 years of age (0-59 months, 2012)	1.9 Million		
	20059	2010 <sup>8</sup>	
Prevalence of stunting among children under 5 (0-59 months)	51%	44%	
Prevalence of underweight among children under 5 (0-59 months)		11%	
Prevalence of wasting among children under 5 (0-59 months)		3%	
Prevalence of anemia among children aged 6-59 months		38%	
Prevalence of anemia among women of reproductive age (15-49 years)		17%	
Prevalence of thinness among women of reproductive age (15-49 years)		7%	
Prevalence of children aged 0-5 months exclusively breastfed	88%	85%	
Prevalence of breastfed children aged 6-23 months receiving a minimum acceptable diet	16%	17%	

## Trends in nutrition status of children under 5years



# Food intake averages

- Starchy foods
- Pulses
- Vegetables
- Oils
- Sugar
- Milk and milk products
- Fruits
- Meat.
- Note: Diet in Rwanda is mainly based on starches and pulses, very little meat and fuits, poultry, milk and milk products are mainly consumed in every household.

# Consequences for nutrient deficiencies after fortification

- Expected to reduce above mentioned diseases
- Improvement of nutritional status!
- 2014 fortification was adopted with a decree
- Need of nutrition survey!

# Overview on national food intervention programmes

RWANDAN GOVERNMENT HAS ENGAGED IN SUPPORT OF FORTIFIED FOOD HOPES & EXPECTATIONS Governmental agencies buying fortified products 5<sup>th</sup> Aug: Standards only adopted by the Standards for Cabinet (non)fortified flours East African Minister of Health strictly enforced Community develops requests Decree on. draft Standards governmental mandatory National Fortification agencies to buy fortification of flour Alliance adopts logo fortified food only adopted 2013 2011 / 2012 2014

#### NOW PRODUCTS ARE BEING BOUGHT IN SMALL VILLAGES



Kirehe, Eastern Province, a father of 5 children bought 25Kg fortified flour for his family ..

Worth a celebration!

# Overview on national food intervention programmes

- 1. Organizations that help in food programmes
- . USAID
- . CAAD: Comprehensive Africa Agricultural Development
- . WFP
- . UNICEF,
- . FAO, etc.
- 2. Fortified products
- Maize meal
- Vegetable edible oil: Vit A
- Salt (import fortified salt): Iodine,
- 3. **Performance of these programmes:** good to improve nutrition status in Rwanda.
- 4. **Goals:** improving nutrition status of children under 5 years and pregnant mothers

# Are fortifying?

- Yes, some products.
- Fortified products
- Maize meal
- Vegetable edible oil: Vit A
- Salt (import fortified salt): Iodine.
- Infant foods (porridge): SOSOMA Industries
- . Industries: MINIMEX (144MT/ day),
- . Biofortification.
- . Marketing and communication: The Government and industry have taken initiative to sensitize schools, prisons, hospitals, police, army to use fortified foods.
- . Important fortificants: Iron (NaFeEDTA) and vit A.

#### THE PRODUCTS ARE THERE



Micronutrient	Chemical form	Amount of micro nutrient added to maize flour, mg/kg
Vitamin A - Retinol	Dry vitamin A palmitate 250 n.s	1
Vitamin B-1	Thiamine mononitrate	4.5
Vitamin B-2	Riboflavin	3
Vitamin B-3	Nicotinamide	25
Vitamin B-6	Pyridoxine hydrochloride	5
Vitamin B-9	Folic Acid	1
Vitamin B-12	Vitamin B12 - 0.1% WS	0.015
Iron	NaFeEDTA	20
Zinc	Zinc oxide	40

- Meeting East
   African and
   Rwandan
   mandatory standard
- Largely meeting the needs of young children
- Distributed across the country
- At a fair price

## MINIMEX- maize meal fortification





# Challenges

- Low consumer awareness about food fortification and its benefits. Most of time they ask:
- 1. Is it safe?
- 2. What are side effects?
- 3. Does the taste change?
- 4. Where does premix come from?
- 5. What is the price?
- Government labs (RBS) are not equipped to test micronutrients!
- Increase the price: 3%
- Fortified is not mandatory!

## **Constraints**

- Premix availability and affordability
- Many small uncontrolled mills.
- Consumer acceptability.

# You are not fortifying?

- Yes, for some foods!
- Foods: cassava flour, sugar (?), sorghum flour, peanut flour, fish flour.
- Highly consumed.
- Challenges: awareness for processors and consumers, price, premix availability, etc.
- **Constraints:** processing facilities, test for micronutrients, standards, etc.

# Conclusion

- RAISE CONSUMER AWARENESS.
- ACTIVATE THE LOCAL MILLERS PARTICIPATION IN FORTIFICATION.
- RWANDA VERY MUCH COMMITTED IN FOOD FORTIFICATION!
- ALL STAKEHOLDERS INVOLVED ARE WILLING TO APPLY FOOD FORTIFICATIONS.
- GOOD GOVERNEMENCE INVLOVE SENSITIZING THAN IMPOSING!

# THANK YOU! Murakoze!