

# World Food Programme Innovative Nutrition Products Field Level Experiences



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# Micro Nutrient Powders (MNP)

- ❑ White, tasteless powder, packed with vital minerals and vitamins;
- ❑ One dose (1 g) per person, per day contains one full RNI of vitamins and minerals;
- ❑ Used for different types of programmes e.g. school meals or WFP's general food rations;
- ❑ WFP partnering with DSM to develop sprinkles for many cultural contexts;
- ❑ MixMe™ & Sprinkles™ distributed in Kenya and Bangladesh.



# MixMe™ : Kenya

## Background

- Pilot in Kakuma Refugee Camp
- Feb 2009- March 2010
- Joint initiative: WFP, UNHRC, Kenya Medical Research Institute and John Hopkins University
- Up to 62,000 refugees (fluctuates monthly)

## Objective

- Assess effectiveness of MNP in reducing anemia
- Assess feasibility of large scale distribution of MNP

## Findings

- Extensive sensitization needed
- Involvement of health partners – credibility
- End-line survey just completed; results not yet available

# Mix Me™: Bangladesh

## Background

- Cyclone Sidr in 2007-WFP Emergency programme
- MNP distribution initiated in August 2008
- Children ages 6-24 mths, pregnant & lactating women
- Target: approx. 100,000 children and 60,000 women
- 7 month ration

## Objective

- To meet the micronutrient needs of people affected by cyclone Sidr
- To reduce the prevalence and severity of anemia and other deficiencies

## Findings

- MNP well accepted
- 78% of children/60% of women consumed more than 75% of the distributed sachets
- MNP may reduce anemia if high compliance
- Future: target 20,000 recipients, 3 rounds of MNP distribution over 6 months
- Collaboration with World Bank & local schools

# Supplementary Food: Plumpy Doz

- ❑ Used for **prevention** or **treatment** of moderate malnutrition;
- ❑ Made of a mixed paste of peanuts, oil, sugar, milk powder, vitamins and minerals;
- ❑ One tub provides a weekly ration.

## Nutritional Value per 100g:

- ❑ Energy:534Kcal
- ❑ Protein: 12.7 g
- ❑ Fat 34.5 g



# Plumpy Doz: Burkina Faso

## Project Design

- Children aged 6-24 months (high food price response)
- Preventative
- About 20,000 girls and 20,000 boys
- Monthly ration of 4 pots (1.4 kg) at health centers
- Daily ration: 250 kcal

## Anecdotal results

- Positive
- Well accepted
- Easy to distribute
- Higher level of attendance at clinics
- Physical improvement in children

## Challenges

- Product not part of national Nutrition Protocol
- Expensive/imported
- Govt. preference for locally procured flour
- Formal study underway - to be completed end of March

# Supplementary Foods : Supplementary Plumpy

- ❑ **Curative** and **preventive** properties;
- ❑ Uses Soy;
- ❑ For children of age 6 months-5 yrs, with moderate malnutrition;
- ❑ Being piloted by WFP in Somalia and Ethiopia;



## **Nutritional Value:**

- ❑ Energy: 545 Kcal
- ❑ Protein: 13.6g
- ❑ Fat 35.7g

# Supplementary Plumpy: Ethiopia

## Background

- Joint Initiative: Govt of Ethiopia, WFP, Action Contre la Faim, and Uni. of Toronto
- June-Nov 2009
- Data on 3,000 children over 12 week period
- 4 districts in southern Ethiopia
- WFH/MUAC every 2 weeks

## Objective

- Compare recovery rates in moderately malnourished children (6 mth-5 yrs): CSB with vegetable oil vs. Supplementary Plumpy
- Many secondary objectives - food sharing, cost effectiveness, scaling up

## Findings

- Results Pending
- Less Intra-household sharing
- Food and Medicine

# Formulation and Preparation of RUFC-India

- ❑ Food packaged in 50 gram sachets
- ❑ Formulation:
  - ❑ Soybean oil (30%);
  - ❑ Fried Gram Flour (23%);
  - ❑ Sugar (12%);
  - ❑ Extruded Rice Flour (12%);
  - ❑ Extruded Soy Flour (12%);
  - ❑ Dry Skim Milk Powder (10%);
  - ❑ Soy Lecithin (1%);
  - ❑ Micronutrients (as per label)

# RUFC: Bihar, India

## Background

- 38 children
- Ages 6-24 months
- 21 consecutive days

## Objective

- Assess the sensory acceptability of RUFC by apparently healthy children and their mothers

## Findings

- Adherence to the program (1 drop out)
- Decrease in diarrhea and vomiting
- To be used in programs under controlled conditions
- Undertake efficacy study