BEYOND FORTIFICATION OF CENTRALLY PROCESSED MAIZE:

Extending fortification technology and effective monitoring to small and medium scale millers
The Problem

- Two and a half billion people in the world are micronutrient malnourished.

- Over one-third (approximately one billion people) do not have access to centrally processed foods.

- These populations are the most vulnerable and in the greatest need of strategies to combat micronutrient malnutrition.

*Global Prevalence of Micronutrient Deficiencies*
Who Are We?

- Sanku is a socially driven, invention-based initiative of Project Healthy Children (a US based NGO providing large-scale fortification TA).
- Designed to fill the gap among those not accessing centrally processed foods.
- Works closely with village millers, NGOs and governments.
- Equips at-risk communities with fortification technology and nutrient premix.
- Working to overcome the barriers to small-scale fortification monitoring.
Prior attempts fell short in terms of:

- Scalable automated technology solution
- Sustainable business model to support millers
- Effective monitoring mechanism
Technology Solution

- Quality control is insured through complete data capture of the milling process.
- This allows real time access to data.
- Able to monitor:
  - Miller compliance rate
  - Stock versus production
  - Over/under fortification
  - How much reach is affective reach
- Minimizes ongoing monitoring costs by avoiding need for regular inspector visits.
- Click [link](#) to view Sanku Dosifier video
Monitoring Data

- LED on rear of dosifier displays weight reading and data.

- By the push of a button, 5 **DAILY REPORT** items for the current day are obtained by the miller.
  - 1) **DEVICE ID**
  - 2) **TODAYS DATE**
  - 3) **ACTIVE HOURS & MINUTES**
  - 4) **GRAIN LOSS IN METRIC TONS**
  - 5) **PREMIX DISPENSED IN KILOGRAMS**

- Stored **CUMULATIVE REPORT**.

- Internal real-time clock.
Current program

- Working with USAID and Tanzania Food and Drug Authority.

- 8 devices are installed throughout 3 regions:
  - Morogoro
  - Dodoma
  - Manyara

- 11 Regions reached in total.

- Exporting to 6 countries.
Monitor’s data report from November 2014.

Representing 8 mills.

Produced 756MT of fortified flour in 6 month

Reaching 25,000 people per day
21 African nations have mandatory fortification.

Sanku has had inquiries from over 20 organizations.

Future cellular capabilities for sending data:
- Automatically relay logged data directly to the internet via GSM or Wi-Fi.
- Will assist in distribution models for premix.
- Allow for a national mapping tool for rural flour production and consumption.
- Specifically design standards based on targeted regional differences in consumption.

“No village too remote.”
Business Model Solution

- Sanku and financer/donor provide the device at very little to no cost to the end user.

- In return, the miller purchases premix through our Sanku partnership program.

- The investment of the device is recovered over time through the sales of premix.
Recognitions

- 2013 Grand Prize winner in the Ashoka Changemaker’s Nutrients for All competition.
- After 3 years of rigorous testing, in 2014, the Global Alliance for Improved Nutrition (GAIN) officially approved and recommended the use of the Sanku Dosifier for small and medium scale applications.

- Fortified flour results fall within the +/- 10% coefficient of variation (CoV) range, which is the universally accepted industry standard.

2013 Award Finalist
Sanku’s Goal

- 200 million people by the year 2020

www.sanku.com