

Mama SASHA Project Western Kenya Progress Update

7-10<sup>th</sup> October 2013

4<sup>th</sup> SPHI Meeting, Kumasi, Ghana

**Dr. Frederick Grant** 

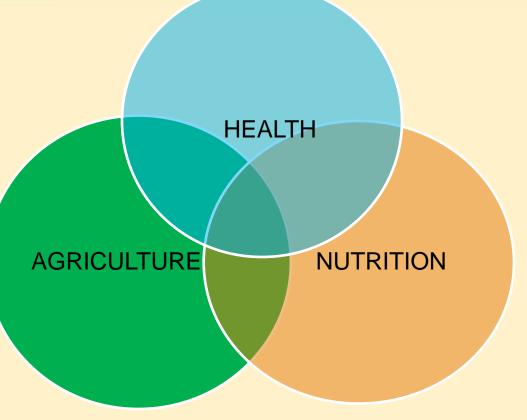
SASHA

**Sweetpotato** Action for Security and **Health** in **Africa** 



#### Background: Introduction





#### **Target group**

Pregnant women

#### **Key actors**

- CHW's/CHEW's
- Vine multipliers/AEO's
- ANC nurses/DNO's
- Provincial administration

# Background: Goal & Objectives

Sweetpotato Action for Security and Health in Africa

Goal: To assess the cost effectiveness of integrating OFSP into an existing health service delivery program\* to improve the health status of pregnant women and the nutritional status of children up to two years in selected districts(counties) of Western Kenya



 Objective 1: Strengthen the utilization of IEC materials at both the health facility and community levels to support OFSP production and consumption



Objective 2: Improve the evidence base of the health impacts on infants and their mothers and the use of health services by pregnant women

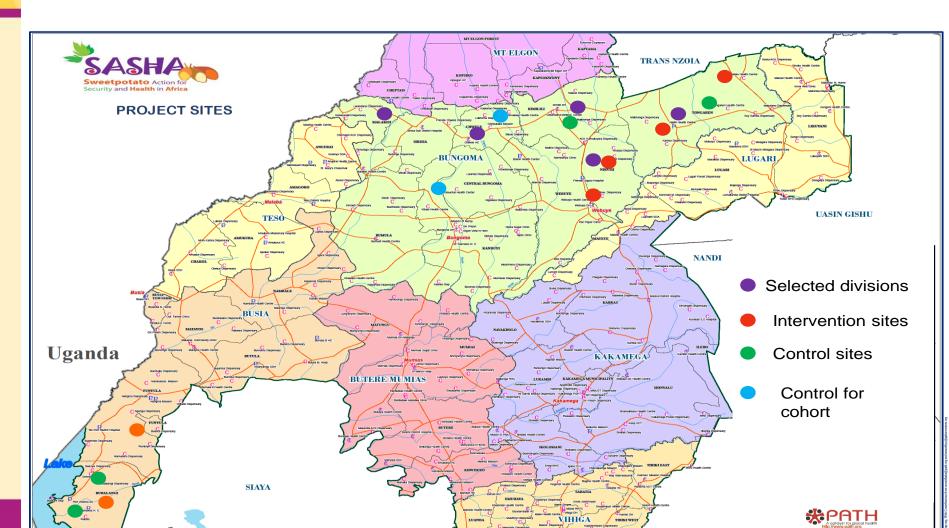


 Objective 3: Assess the costs and benefits of linking an integrated OFSP agricultural-nutritional intervention to a health service delivery system serving pregnant women

\* APHIA plus

## Project areas





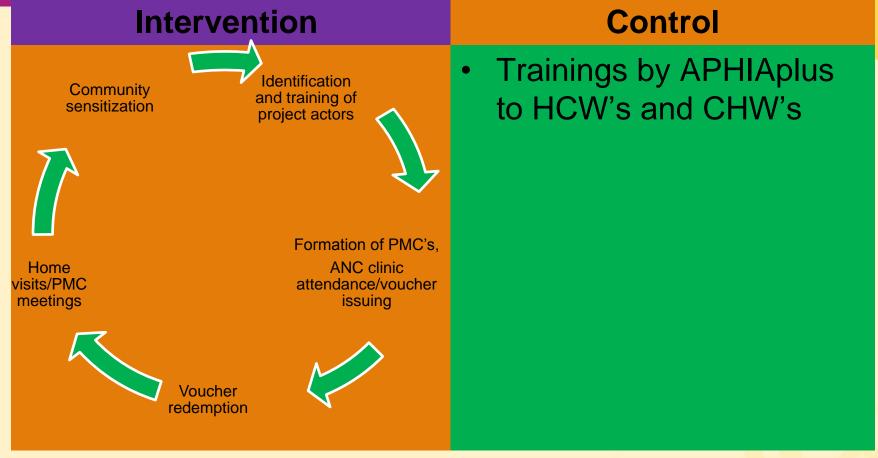
## Background: Partners



- CIP
- PATH
- ARDAP
- CREADIS
- KARI
- Ministry of Health
- Ministry of Agriculture
   With scientific inputs from
- Emory University
- University of Toronto
- University of Washington

## Implementation strategy





# Achievements: Women reached Sweetpotato Action for

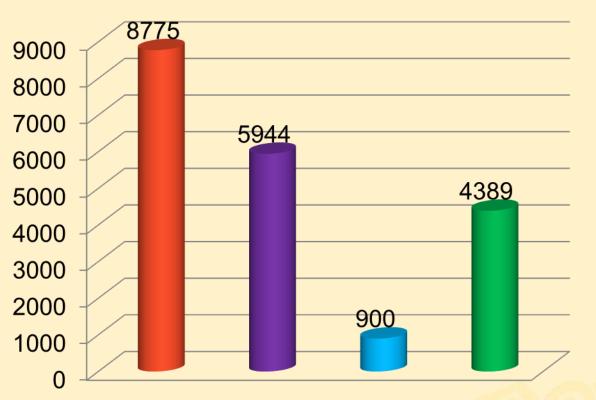
#### Since March 2011 – August 2013

- Reached over 5900 women through
  - Voucher issues
- 215 PMC/LMC formed
  - >1400 members
  - 25,141 attendances



# Achievements: Voucher issue vs. redemption

#### March 2011-August 2013



- Pairs vouchers issued
- Number women reached with vouchers
- Project target
- Pairs vouchers redeemed

# Achievements: Program Implementation IEC materials

- IEC materials designed and produced
  - 300 badges for program actors
  - 2000 healthy eating leaflets
  - 200 healthy eating posters











# Program Implementation Achievements Training and Coordination

SASHA Sweetpotato Action for

- Integrated Ag-Health refresher training for implementing agents
  - Ongoing refresher trainings
  - 191 staff participated
  - Male opinion leader training
- Quarterly partners' meetings
- Monthly feedback meetings
- Quarterly review meetings with men opinion leaders



## Farmer field days



- Facilitated Integration of agriculture and health during field days
- 7 field days conducted (2011 and 2012)
- Reached over 2400 people



### Demo plot establishment

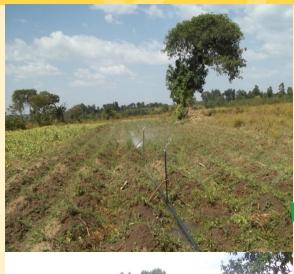
- Established 14 demo plots (size 320m²)
  - Impart agronomic lessons on OFSP to beneficiaries
  - Compare yields among varieties
  - Act as trial plots to assess performance of Kabode and Vita compared to local variety (Bungoma)
  - Findings presented at 9<sup>th</sup> APA meeting
    - Wamalwa and Grant, 2013.



# Irrigation equipment











# Partnership health check up SASHA

- Done to allow reflection on internal partnership processes, identify areas working well, and areas of concern
- Round 4 conducted and results discussed by partners
  - Reviewed the communication strategy developed in year 2 and updated in year 3

# Integrated gender into project activities







### Monitoring system established



- Data capture for Ag and health activities
  - Routinely (actors on the ground)
  - During monthly supervision visits (supervisors)
- Forms collection and centralization
  - During monthly supervision visits
  - During monthly feedback meetings
  - Sent monthly to the data manager / M&E Specialist
- Data entry: modules developed under CSPro
- Archiving: files for hard copies







# Improving the evidence base – evaluating impact, acceptability, feasibility and affordability

# Operations research (Round

 Conducted to assess the feasibility, acceptability and sustainability of project

#### **Dissemination of findings:**

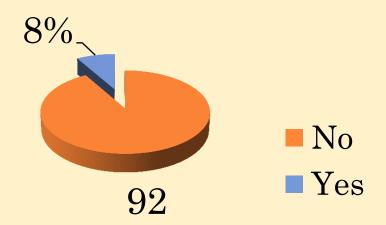
- Machira et al. IUNS/ICN2013: Granada, Spain.
  - Summary findings
    - Marked improvements in project strategy in the 2nd wave compared to the pilot
    - Male involvement is increased,
    - Training curricula have been strengthened and services are largely standardized
    - Evidence of integration of lessons learnt from the pilot into the 2<sup>nd</sup> wave of the project's implementation.



# Impact evaluation-Baseline survey SASHASweetpotato Action for

#### **Dissemination of findings**

- Perumal et al. BMC Pregnancy and Childbirth 2013, 13:146 <a href="http://www.biomedcentral.com/1471-2393/13/146">http://www.biomedcentral.com/1471-2393/13/146</a>
- Grant et al. IUNS/ICN2013: Granada, Spain.



Knowledge about OFSP at the baseline is low hence to track by the end of the intervention

 The prevalence of vitamin A deficiency (VAD), among the children 6-23 months was 18.3% & did not significantly differ by study site (Intervention: 18.4%

vs. Control: 18.2%

# Cohort Vitamin A study (COVA)



- Prospective study: Impact of Mama SASHA on diet, food security and nutritional status of mothers and their infants
  - Supplementary funding obtained May 2012
  - Early pregnancy, late pregnancy, 4 and 9 months postpartum
  - Infection adjusted vitamin A, iron, anemia
    - Breastmilk & plasma samples from pregnant & lactating women (not funded in original Mama SASHA component)
    - Plasma samples from infants

#### **Economic Evaluation**



- Conduct cost analysis to estimate the economic and financial costs of resources used to implement and scale up Mama SASHA intervention.
- Two methods to estimate resource use and costs:
  - Project expense reports
  - Microcosting techniques to capture shared resources by health workers, community health workers and vine multipliers (i.e. labor, agricultural supplies)
- Estimate total incremental costs, cost per beneficiary reached and cost shares for key inputs and activities.

#### Cost-effectiveness



Conduct cost-effectiveness analysis using multiple outcomes:

- Reduction in Vitamin A deficiency and sequelae associated with Vitamin A disability.
- Model the contribution of Vitamin A to overall morbidity and mortality to estimate Disability life-year adjusted (DALY) averted.
- Conduct additional CE analysis using other key program outcomes that have reliable measures of effectiveness, including anemia and antenatal care utilization.

## Upcoming surveys



#### Endline cross-sectional survey

- Nov- Dec 2013: HH enumeration and selection
- March May 2014: Data collection
  - Computer-based interviewer administered surveys & anthropometric measurements
    - ~300 pregnant women and 2400 mother-child dyads (blood sampling in children 6-23mo).

#### Food consumption survey for COVA

- Dietary intakes of mothers & their infants at 9 mo postpartum
- Nov 2013 April 2014.
  - ~250 mother-child (8-9mo) dyads

#### Lessons learned



- Refresher trainings important for strengthening coordination, implementation and retention of IEC messages by all actors
- Difficult to motivate individualized counseling
  - Group nutritional counseling more common as compared to individual counseling in spite of training & revision of counseling cards
- Continuous monitoring of control sites to avoid contamination
- Increased number of pregnant women who are accessing our facilities but are ineligible for voucher issuance since they originate from villages that do not fall within our clientele.

#### Lessons learned



- There is the need to motivate CHWs, through refresher trainings, increased remuneration or provision of T-shirts, since they are an essential component for the success of any project of such magnitude.
- Male involvement in Mama SASHA is important in increasing the uptake of the intervention by the project's target participants (pregnant and lactating women).
  - This is because access to land for planting the OFSP vines and decision to visit the ANC/PNC clinics are mostly possible with the concurrence of the male partner.

## Challenges



- Low voucher redemption early part the years due to prolonged dry spell.
- Increased labor costs for vine multipliers (maintenance of plots during dry spell)
- Increased work load for the project actors (ANC and Vine multipliers)



# Thank you!!

