Jumpstarting orange-fleshed sweetpotato in West Africa through diversified markets – the engine is up and running ...





Orange-Fleshed Sweetpotato in West Africa Unough Diversified Markets

Promouvoir la patate douce à chair orange en Afrique de l'Ouest à travers des marchés diversifiés Prepared by Erna Abidin, Kwabena Asare, Eric Dery, Justus Lotade, Koussao Some, Ibrahim Koara, Brian Kiger, Joseph Nchor, Issah Abukari, Kwabena Acheremu, Jude Njoku, Ted Carey

6th Sweetpotato for Profit and Health Initiative Meeting 29 September – 2 October 2015









Deputy Minister for MOFA & CIP-DG in Accra, March 2015

Overview



Introduction

Progress – Profit/Wealth and Health

Plan and prospective

Jumpstarting OFSP ... is a three-year pilot project for West Africa and funded by the Bill & Melinda Gates Foundation

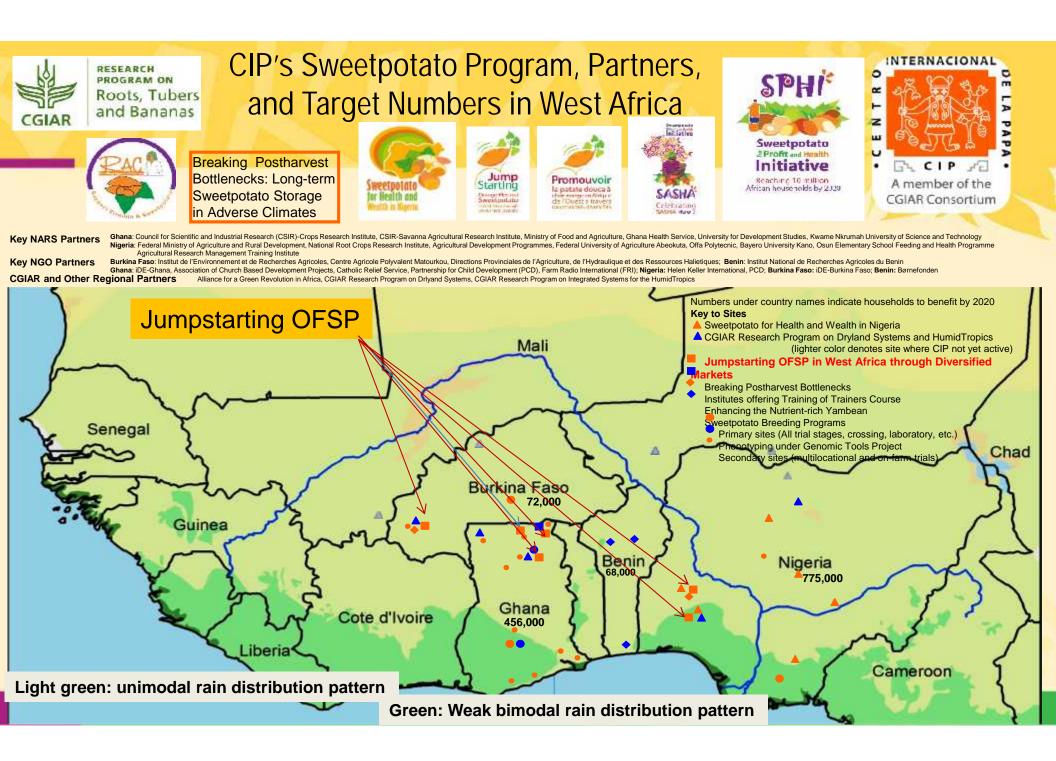


OUR VISION

Sustainable and inclusive market-driven approaches for orange-fleshed sweetpotato (OFSP) to increase incomes, and improve health through consumption of vitamin A rich OFSP, especially in women and children in Ghana, Nigeria and Burkina Faso.

PROJECT OUTCOMES

- 1. Formal and informal diversified OFSP market opportunities developed in pilot areas in Ghana, Nigeria, and Burkina Faso.
- 2. Viable QDPM seed system in target areas capable of expansion in response to increased demand.
- 3. Households, including women and children, in target areas have increased vitamin A consumption from OFSP.
- 4. Commercial sweetpotato planting material and OFSP producers, including women, increase income through participation in OFSP value chains.



CIP IS WORKING IN PARTNERSHIP:

> IMPLEMENTING PARTNERS:

NGOs: ACDEP, iDE Ghana and Burkina Faso, ESOKO Ghana and Burkina Faso Relevant Government Agencies: In Ghana: CSIR-SARI & CRI, MOFA, MOFA-WIAD, Ghana Health Service, University for Development Studies

In Burkina Faso: INERA, Min of Agriculture In Nigeria: National Root Crop Research Institute (NRCRI), O-MEALS, State Agricultural Extension (ADP)

- PLANNING in Ghana: School Feeding Program
- JOINT PROGRAM PARTNERS: MEDA, TRAX-Ghana, SNV, World Vision International, Partnership for Child Development (PCD), Farm Radio International, HKI, CRS









We developed an "Actor-center theory of change/Impact pathway"

Actor-level outcomes

ODPM seed systems

Increased

income

through

diversified

markets

Released OFSP varieties, advanced materials from breeding programs, and other commercially important varieties will be cleaned up using thermotherapy and indexing procedures. Experiments to evaluate various methods of

- planting material maintenance and multiplication will be evaluated on-station and on-tarm.
- QDPM system to be viable, it will need to be managed at the local level. Identify/establish commercial seed producers of various sizes.

Farmers: Increased OFSP production.

Reduced post-harvest losses, Increased incomes, Assess diversified food/dishes by women, Formalized MOU w/institutional actorsserving as market outlet famers.

Seed producers/farmer groups. Strong link between breeding and seed system provision of desired varieties to farmers.

Ghana Health Services: Increase in VitA w/food, Build capacity of health personnel at service delivery points, Build capacity of community based volunteers on OFSP, especially with pregnant women.

Structured Market Buyers: Purchase use of OFSP to feed students and prisoners for nutritional benefit, What will actor need to make project successful, Arrange for funding in advance, Do analysis of business considering cost of OFSP.

Awareness/Advocacy/FRI: Awareness creation and sensitisation. Increase in production of OFSP, Increase in consumption of OFSP, Access to diversified market and Increased Income, Improved nutritional status especially for VitA, Expect to see and increase in product and consumption of product after advertising, increase infamily income and improved nutrition of consumers of the product.

Processors: High demand for Sweetpotato based products. This means processing of Sweetpotato based products, e.g. washing and bagging of potatoes, also processed potatoes.

Market Access Actors: Income for the seller. Have to be convinced that there is a demand for OFSP

Outcome 1: Formal and informal diversified OFSP market opportunities developed in pilot areas in Ghane, Nigeria, and Burkina Faso.

> Outcome 2: Viable QDPM seed system in target areas capableof expansion in responseto increased demand

> Outcome 3: Households. including women and children, in target areas have increased vitamin A consumption trom UFSP.

Uutcome 4: Commercial sweetpotato planting material and OFSP producers, including women. increase income through participation in **OFSP** value chains.

External Factors:

Household

Literacy Language barriers

OFSP to increase incomes and

Sustainable and inclusive market-driven approaches for

Wision!

Faso

address Vit.A deficiencies especially in women and children in

Ghana, Nigeria and Burkina

Gander

dynamic.

Absolute pey

Means to

inwest. External Environment

Appropriate incentives

Governmen health hudgets

Infrastructur e and service providers

Weather and climate

Regulatory conconcol

Conflicts

Disease and epidemics

Unstable power supply

awareness creation materials for marketers to use with customers. Appropriate and economically feasible OFSP

At least 4 potential OFSP market opportunities.

Develop and deploy market promotional

products and recipes will be developed in Ghana Organize seed and root FGs.

With partners trained in adult learning and group organizational skills, we will conduct a series of 6 training exercises to address major aspects of sweetpotato production, marketing, and utilization.

CHPS staff trained on using the counseling Increased

will be assessed

vitamin A intake

Develop and produce adequate quantities of locally appropriate training materials.

materials and integration of these materials in to the newly initiated nutrition-counseling program of Ghana Health Service, targeting pregnant women, infants, and young children.

Levels of subsidy for vine distribution to pregnant women will be fully, partially, or not subsidized in order to evaluate consumer willingness to pay for OFSP planting material, and to help guide future strategies for OFSP dissemination to vulnerable populations.

OFSP is good for programt women and children Sellecc need to

> be educated and sware of OFSP

anderstand benefits of OFSP Southand markets can

Assumptione

Good termer

sensitization

Appropriate

Good rainfall

providing good

knowledgeable

to mining

patterns

Decudera

varieties

GHS staff

about UHSP

Structured

prepare UH5#

Structured

buy OFSP

Adequate

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the nutritional

velues of **OFSP**

Anna curcas ul

the VitA issue

Awareness that

training.

markets can

markete

Actor-outcome matrix: Ghana, Burkina Faso and Nigeria ACTORS/PARTNERS OUTCOMES

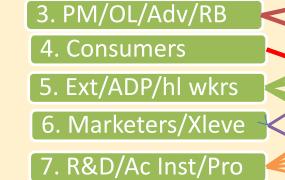
1. Institutional and other diversified market opportunities for OFSP developed in project pilot areas in Nigeria.

Sweetpotato

2. Commercial seed system functioning in target areas and capable of expanding in response to increased demand.

3. Most at-risk households and individuals in target areas have increased vitamin A intakes.

4. Commercial sweetpotato seed and root farmers are benefitting from participation in OFSP value chains.



1. Farmrs/dvm/FA

2.Inpt/Ir deal/lab/T

8. Inv/Fund/donor

9. Ad/socio-mkt

10. FBO,CBO

11. Processors

KEYWORDS - ACTORS/PARTNERS FROM ACTOR OUTCOMES MATRIX

- 1. Farmers, decentralized vine multipliers, farm associations
- 2. Transporters, Input dealers/Irrigation equipment dealers/labor

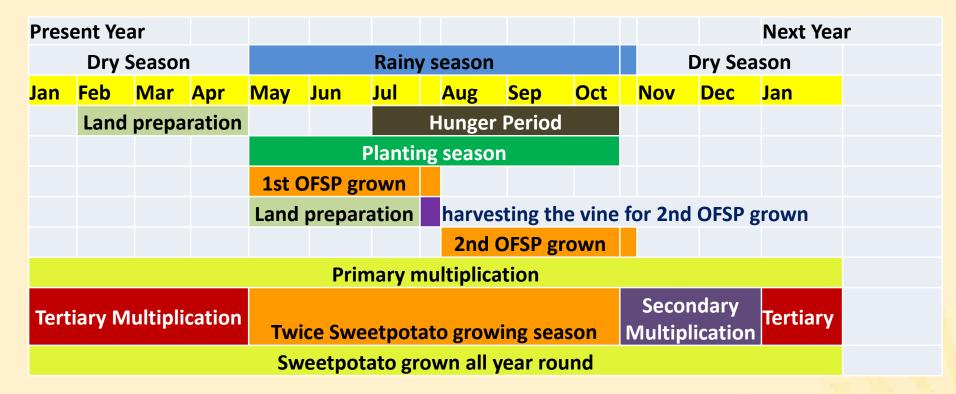
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- 3. Policy Makers, opinion leaders, advocacy, regulatory bodies, relevant ministries
- 4. Consumers, school community
- 5. Extension/Agricultural Development Program/Health workers
- 6. Marketers/Multilevel
- 7. Researchers, academic institutions, professionals
- 8. Investors/Fund providers/international donors, organized private sector
- 9. Advertisement/media/social marketers
- 10.Faith Based Organizations (FBO), Community-Base Organizations (CBO), NGOs
- **11.Processors**

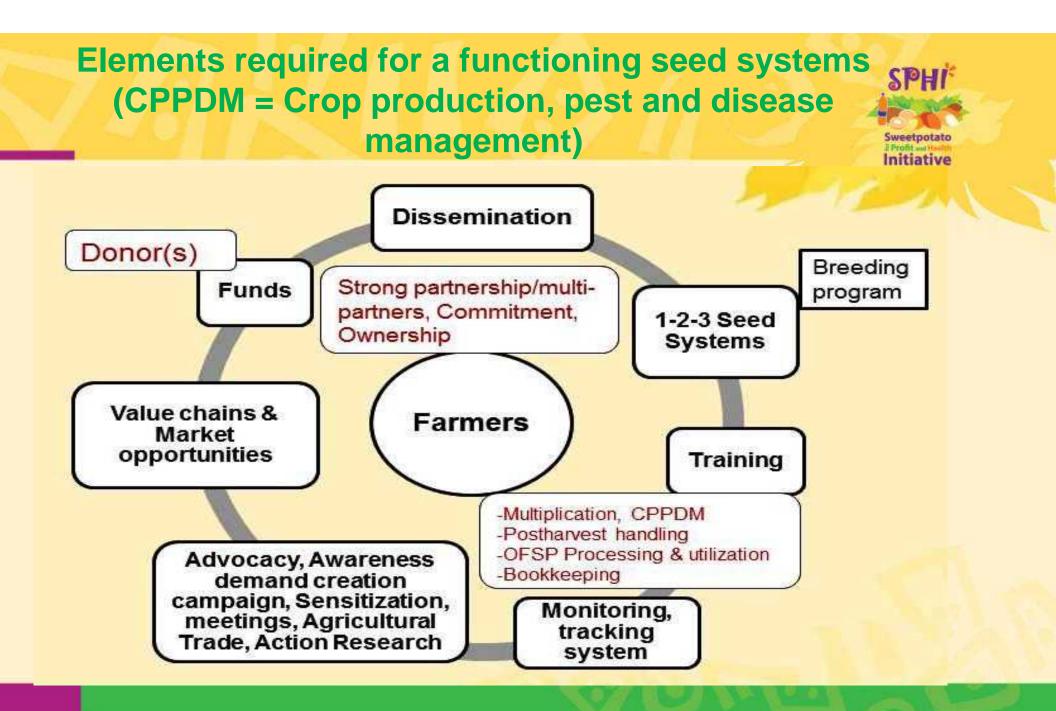
HOW TO IMPLEMENT OUR PROJECT – We have prepared ...

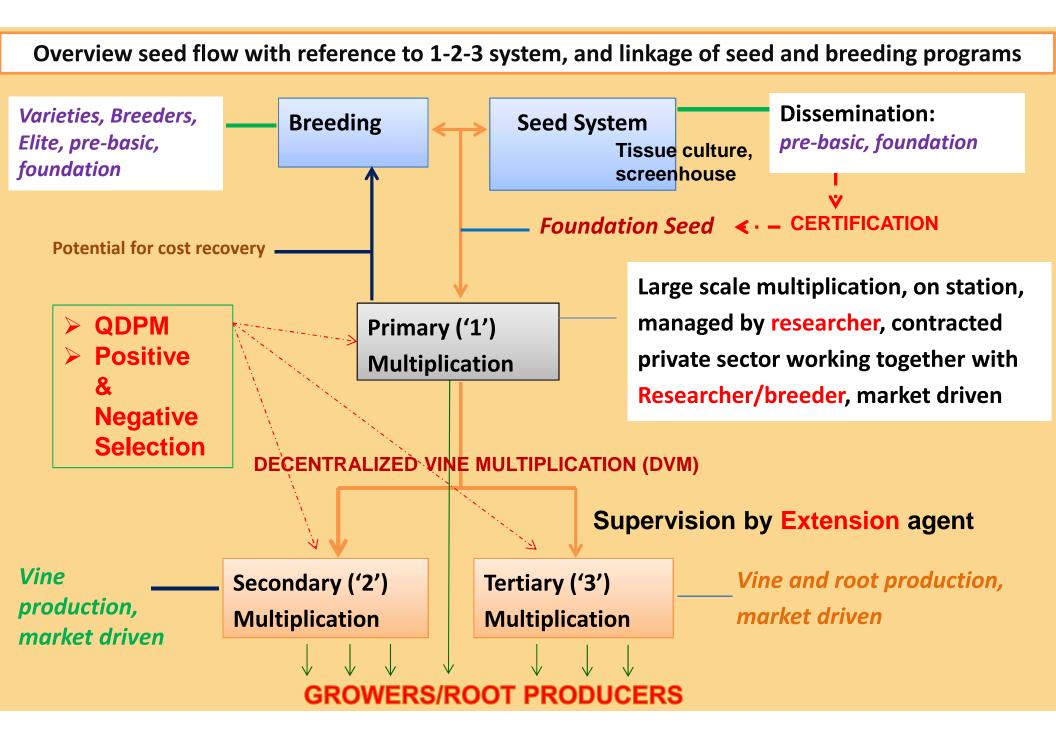
The Sweetpotato Crop calendar in West Africa Base on the uni-modal rainfall distribution pattern

Sweetpotato can be grown in all year round



Based on FEWSNET Calendar in Nigeria







PRIMARY MULTIPLICATION

Nyankpala, SARI in Ghana

SECONDARY AND TERTIARY MULTIPLICATION





Commercial Multiplier – Burkina Faso

DVM with drip irrigation – Burkina Faso¹³

SECONDARY AND TERTIARY MULTIPLICATION

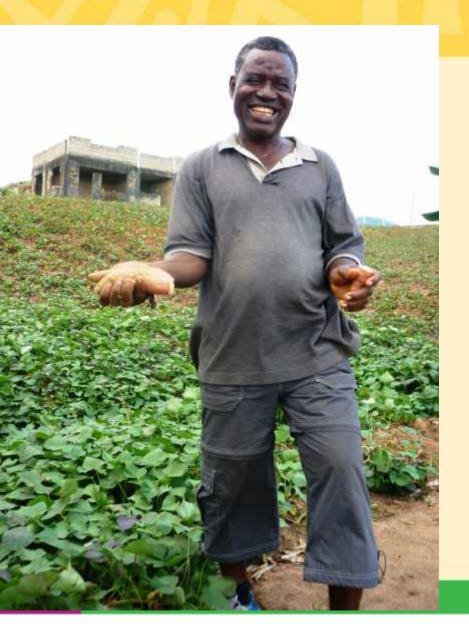


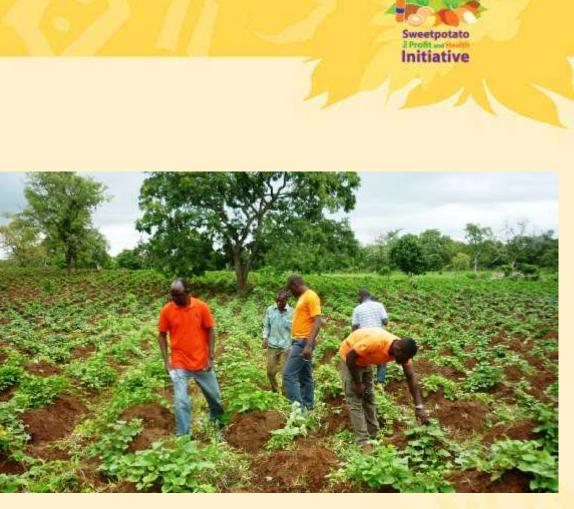


Commercial vegetable growers become seed & root production business people – Ghana and Nigeria

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Medium-scale commercial root producers





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Left: Ghana and above: Burkina Faso

DONOR EXPOSURE TO PROJECT ACTIVITIES







Kofi Annan, Nane Annan, Regional Ministers



ADVOCACY SPHI **HIGH LEVEL** Sweetpotato Initiative

Above: Vice President of Ghana

Left: Kofi Annan and Nane Annan Forum -Deputy Ministers for Agriculture & Northern Region of Ghana



Above: Deputy Governor for Osun State, Nigeria

Right: Traditional leaders for Kumbungu, Ghana

ADVOCACY



STATE AND LOCAL LEVEL

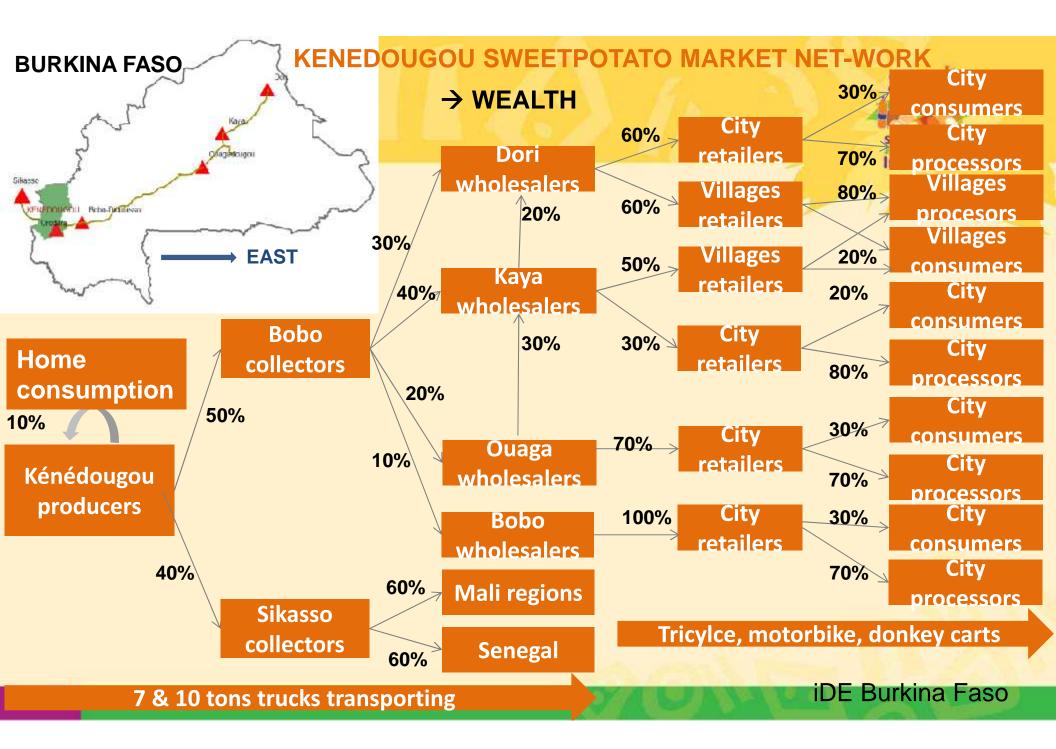


DVMs & ROOT PRODUCERS IN 2015 THROUGH JULY BURKINA FASO AND GHANA

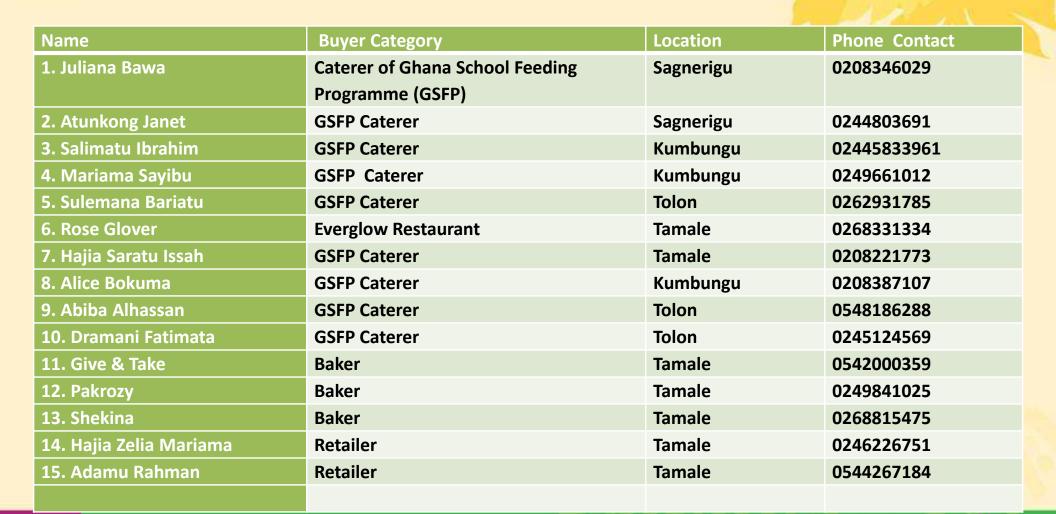


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Country	Location	DVM	% Female	% Male	End users (organizations)	Area of vines (ha)	# Root Producers
Burkina Faso (INERA)		97	14	86		16.3	8,650
	Kenedougou Province (Orodara)						
	Sokouraba	52	15	85	Commercial farmers, home- growers, etc.	2.6	
	Mahon	33	15	85	Commercial farmers, home- growers, etc.	1.7	
	Centre-Eastern Region	3	33	67	AGRA project	0.6	
	Eastern Region	7	14	66	НКІ	1.4	
	NAFASO Seed Company						
	Comoe Province (Niangoloko)	1	N/A	N/A	Ministry of Agriculture	5	
	Houet Province (Banzon)	1	N/A	N/A	Ministry of Agriculture	5	
Ghana (CRI/SARI)	North, Central and South Ghana	15	0	100	Commercial farmers, home- growers, etc.	8	4,589
Total		112				24.3	13,239 (27% women)



Potential Buyers identified to be linked to OFSP Producers (Northern Region, Ghana) - ACDEP



Sweetpotato Profit estimation

UPPER EAST, VOLTA, CENTRAL REGION- iDE Ghana, MOFA, GHS, UDS



- Identifying and contacting processors (yoghurt, juice, baker and food vendors)
- Identifying and building partnerships with supermarkets (e.g. Shoprite – already 1 month), Hotels (potential hotels: Best Western Hotel (Accra), Noda Hotel (Kumasi) and Modern City Hotel (Tamale))
- Ghana Health Service (GHS) related to the antenatal program
- University for Development Studies baker

ARE WE DOING SOMETHING ON HEALTH AND NUTRITION? YES!



AT GHANA HEALTH SERVICES

SPHI



- Training Master Facilitators in Nov 2014: 14 (43% women)
- Step down training and Community Health Services: 35 (40% women) in mid-Dec 2014
- Step down training is still going on: 34 centers
- Counseling including OFSP at the community level is also on-going (referred to both photos)

SCHOOL FEEDING PROGRAM Kwara and Osun States in NIGERIA through O'MEALS





No. Schools: 8 No. caterers: 60 No. kids: *4160 pupils*

Planning to scale up the numbers



ACTION RESEARCH



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RESEARCH THROUGH INTERNSHIP

- Gender prospects for an orange-fleshed sweetpotato development in Rural Northern Ghana–Jumpstarting OFSP project by Simone Tijdink – University of Amsterdam
- Willingness to pay for Orange-fleshed sweetpotato Jumpstarting OFSP by Chinonso Etumnu, University of California

RESEARCH THROUH NATIONAL AGRICULTURAL RESEARCH SERVICES

- Agronomic trials: fertilizer trials, i.e. inorganic- vs organic fertilizer, various organic fertilizers, etc.
- > Breeding demonstration trials
- Mother and baby trials for an on-fam advanced trial for varieties to be released

RESEARCH ON OFSP BREAD AND ITS SURVEY - UDS



RESULTS FROM THE VISITS OF THE ANNANS

AGRA PROJECT – led by Crop Research Institute and backstopped by CIP-led project Jumpstarting OFSP Ghana

Strategies for OFSP expansion and scaling intervention in Ghana

FUTURE – Jumpstarting year 3 areas of focus

- Strengthen seed system (QDPM) implementation
- Continuing learning from Ghana Health Service intervention
- Expanding and documenting formal and informal markets for fresh roots and processed products
- Solidify M+E systems
- Solidifying and expanding partnerships

THANK YOU VERY MUCH FOR YOUR ATTENTION!





ACKNOWLEDGEMENT

- The Bill & Melinda Gates Foundation
- Governments and farmers and marketers

From The West Africa Team