4<sup>TH</sup> ANNUAL SPHI TECHNICAL & EXECUTIVE STEERING COMMITTEE MEETING, NODA HOTEL KUMASI, GHANA 6 - 10 OCTOBER 2013





## Achievements and Lessons Learned from PHASE I of Rooting out Hunger in Malawi

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## **Presentation outline**





> Background: challenges & opportunities

Research Frame Work on OFSP Intervention in Malawi

> Achievement: evidence base results

Lessons Learned & SWOT Analysis

## **Challenges in Malawi**





■Climate change –
 → maize is a staple food

Declining soil fertility example: finger millet



## **Challenges in Malawi**







# High population → small sized landholding per family



High levels of poverty, under-nutrition, stunted children and 59 %VAD under 5 years

### **OPPORTUNITIES IN MALAWI**



- Food diversification is in the core of Agriculture's policy
   The SUN 1000 Special Days initiative was launched in July 2011
- ➡ High population → hard working people → potential manpower and eager to learn and adopt technology



## **IN THIS PHASE I**

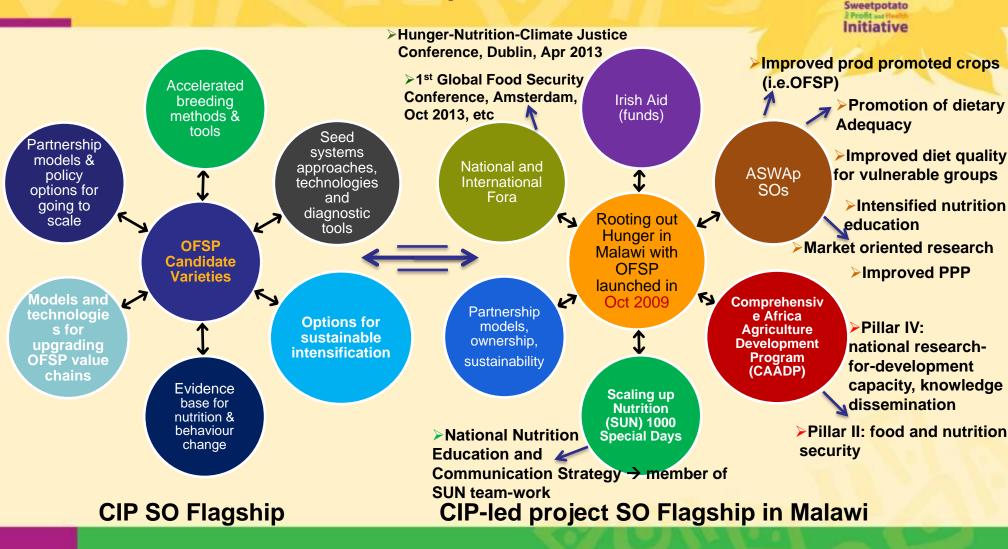


(July – Aug 2013)

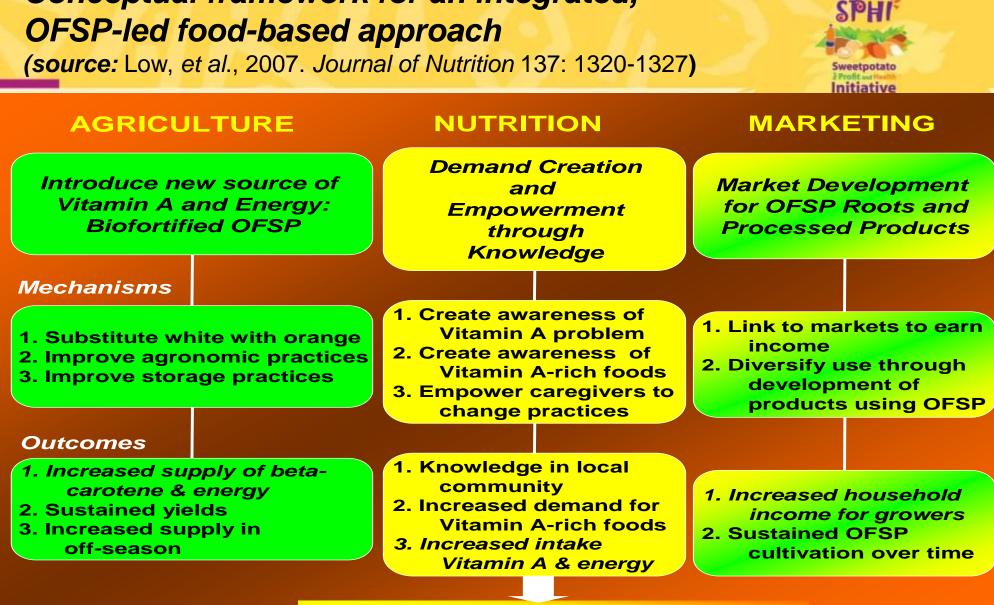
The overall objective of this 4.5-year project is to improve vitamin A and energy intake for at least 70,000 rural households with women and young children using OFSP-based approaches and to ensure that at least 20% of households growing OFSP earn at least US \$100 per year from OFSP sales and increase their average sweetpotato yields by 50%.

 $\rightarrow$ To date: we are finalizing the fourth year of project implementation  $\rightarrow$  We have done: Baseline survey (published) and Endline survey

#### Strategic Objective flagship (at center) and linked products



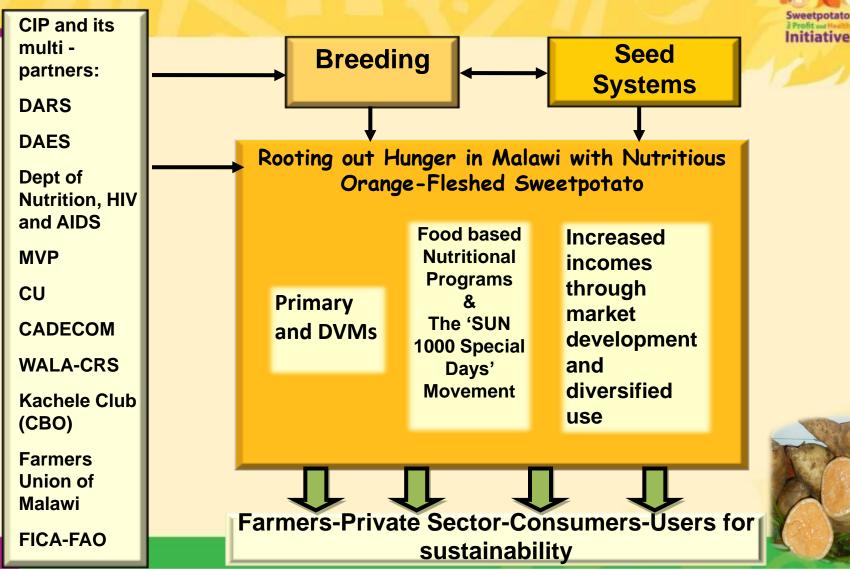
SPHI



Conceptual framework for an integrated,

**Increased Serum Retinol Levels** 

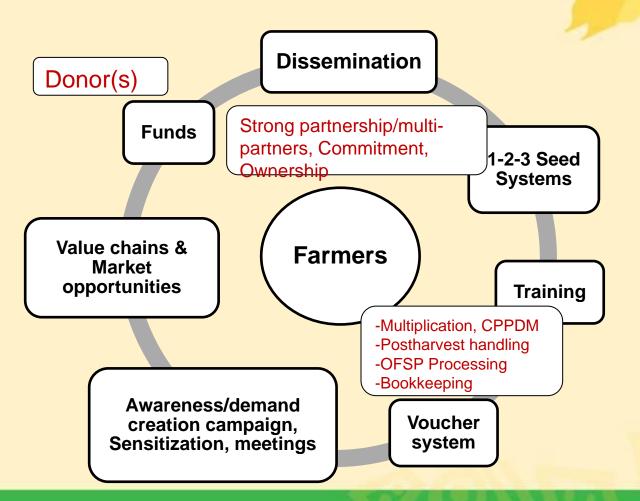
#### CIP working with partners and Irish Aid a founding partner in SPHI



SPHI

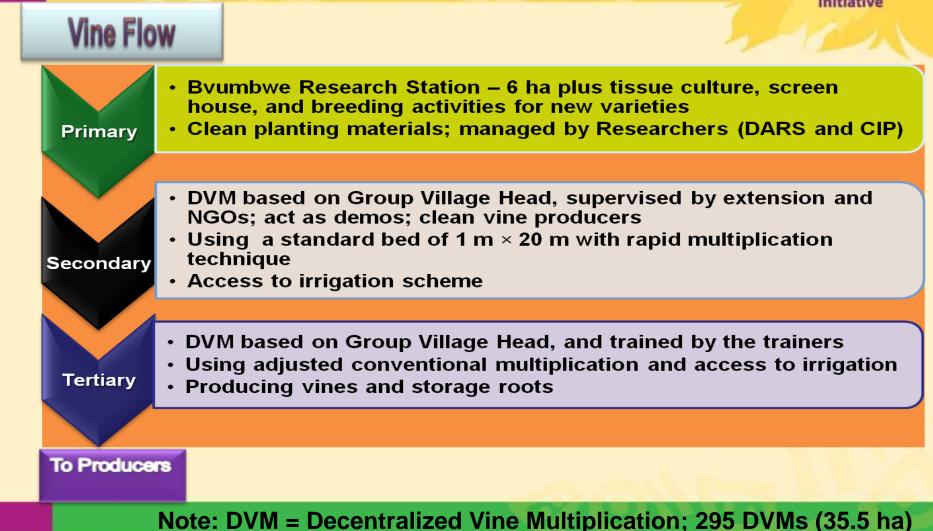
#### Integrated Components Strengthening the OFSP Seed Systems for Sustainability



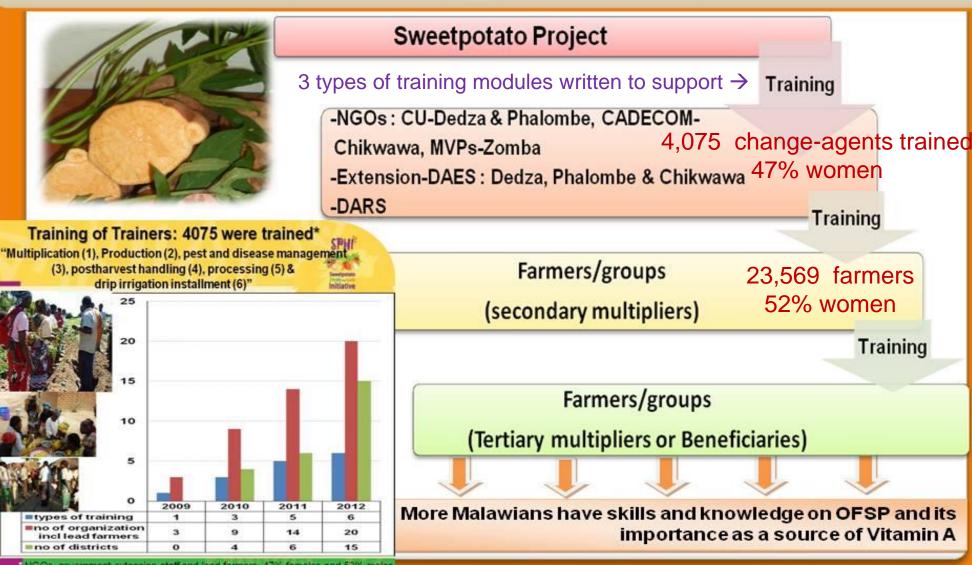


#### A defined 1-2-3 (primary, secondary, tertiary) Sweetpotato Seed System





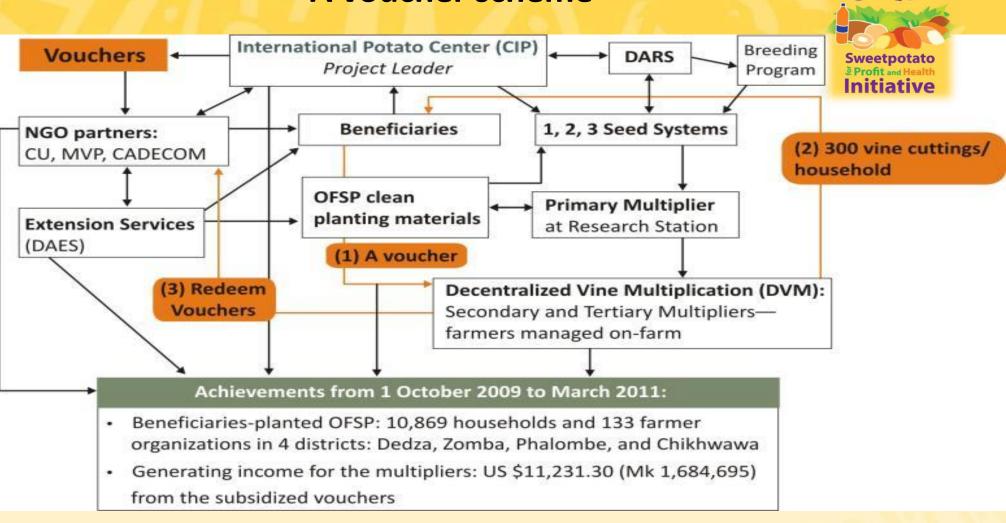
## **Training Scheme**



VGOs, government extension staff and lead farmers, 47% females and 53% males

Supporting: 2 PhD and 1 MSc candidates

#### A voucher scheme



DVMs earned USD 75,104 after 3 years: USD 46,482 from subsidized vouchers and USD 28,622 from NGOs, USAID, and a few individual farmers

## Awareness Campaign/Sensitization on Food diversification from OFSP







The trained farmers have done their assessment of selling the OFSP products during the Agriculture's Show (taken in Jul and Aug 2012) – the demand was high!





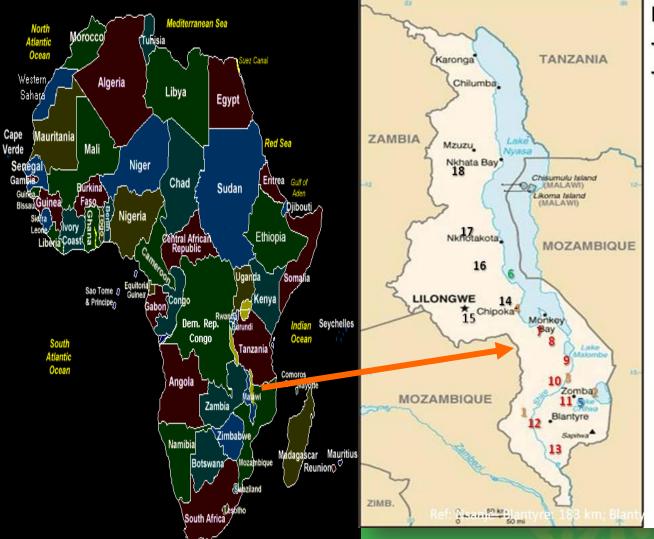
#### Promotion of Intercropping OFSP + maize & OFSP + soybeans



SPHI

- It strongly supports crop diversification as the core of Malawi's agriculture policy
- It uses the land in an effective way where cultivated land is scarce due to the dense population in Malawi
- It potentially gives opportunities to farmers for food security, nutrition and household income generation

### **ACHIEVEMENT: EVIDENCE BASE RESULTS**



Indication of Adoption of Zondeni: -expansion of the areas -having more IPs

Implementing Partners and project area since Oct 2009 **Chikhwawa under Cadecom** Phalombe under CU 3. Zomba under MVP Dedza under CU 4. Implementing Partner and project area since Jan 2011 Mulanje under CU 5. Implementing Partner and project area since Sep 2011 Salima under Kachele Club (farmers club) 6. Implementing Partners and project area since Nov 2011 **Balaka under WALA** 7. Machinga under WALA 8. Zomba under WALA 9. 10. Chiradzulu under WALA 11. Thyolo under WALA 12. Chikhwawa under WALA 13. Nsanje under WALA Implementing Partners and project area since Jan 2012 14. Dedza under FUM

15. Lilongwe under FUM

16. Dowa under FUM

17. Kasungu under FICA-FAO

18. Mzimba under FICA-FAO

Numbers of Beneficiaries Receiving OFSP vines through Subsidized Vouchers during the 2010/2011, 2011/2012 and 2012/2013 Rainy Seasons and Target of 2012/2013



	District	2010/11 rainy season (Y1)			2011/12 rainy season (Y2)			2012/13 rainy season (Y3)		Targetfor 2013/2014
Partner		No.of hh	Area (ha)	Yield (tha¹)	No. of hh	Area (ha)	Yield (t/ha¹)	No. of hh	Area (ha)	rainy season (Y4)
Concern Universal	Dedza	4,733	32.0	16	3,000	20.3	15	3,500	23.6	1800
Concern Universal	Phalombe	859	5.8	20	3,235	21.8	18	1	47.6	1800
Concern Universal	Mulanje	NA	NA	NA	3,492	23.6	18	7,053		1800
Concern Universal	Balaka	NA	NA	NA	80	9.3	12	1,000	6.8	NA
Millennium Village	Zomba	3,250	21.9	18	8,000	54	18	8,000	54	1800
CADECOM	Chikhwawa	2,126	13.7	18	6,208	41.9	13	7,500	50.6	1800
Total	6 districts	10,968*	73.4	18	24,015†	170.9	16	27,053	182.6	9,000

\*<mark>51% females</mark> and 49% males; <mark>\*63% females</mark> and 37% males. In 2011/2012 an additional 34,405 HHs through local government, other NGOs, and USAID Mobi+lise project and farmers. From Joint program partners: 4606 HH in 2012/2013 Rainy season (58% women). Thus, a total of 101,047 HH beneficiaries have grown OFSP.

The cost of dissemination was Euro 10 (US\$ 13) per HH, this low cost is due to multi-partnership approach



## **LESSONS LEARNED FROM PHASE I**

Actions for strategic objective implementation of using OFSP for food and nutrition security						
in Malawi		Phase	Phase II			
100		(1 <sup>st</sup> Oct '09 - 30 <sup>th</sup>	(1 <sup>st</sup> May '14 – 30 <sup>th</sup> Apr'18)			
		Year 1 – 2	Year 3 – End of Phase I	Multi-years (4 years)		
Scale of impact		More than 10,000 HHs reached	More than 70,000 HHs reached	HHs reached between 100,000 and 200,000		
	Strategic	Elaboration	Coordination	Transformation		
CIP's roles	Leader	Identified demand; use of a	Coordinated new	Transfer responsibility and		
	ship	subsidized voucher scheme;	programs from the	enable leadership by national		
		lessons learnt to design the	lessons learnt in SSA	partners; link up diverse		
		next strategic objectives;	and Global programs;	initiatives; facilitate cross-sector		
		project design to be aligned	promoted OFSP	innovative training and		
		with agriculture's policies, i.e. food and nutrition security; and	integration into national programs, investment	development; link countries to regional and global networks for		
		multi- partnership.	plans, government	the cross-sector partners.		
		india parateronip.	policies: ASWAp and	and cross sector paraners.		
			SUN 1000 Special Days			
	Research	Formative: proof-of-concept	Supportive: build strong	Strategic: assess scaling-up		
		research on food and nutrition diversification; on-farm demo	evidence base; strengthen national	process; strategic research on key bottlenecks and new		
		trials; 3 tiers seed systems fit	research programs,	opportunities for expanding		
		sweetpotato growing calendar,	partnership, linking to	impact on value chains and		
		awareness campaign on OFSP;	diversified value chains	poverty alleviation.		
		value chains & market	and market			

#### **Partnership roles Across the CIP's roles**



Implementation point	CIP's roles	Partners' roles
Year 1 and 2 (1 <sup>st</sup> Oct '09 – 31 <sup>st</sup> Oct '11)	-Elaboration -Formative research	Participation in technology development and proof-of-concept research; pilot interventions; organizing policy and stakeholder fora
Year 3 to End of Phase I (1 <sup>st</sup> Nov '11 – 30 <sup>th</sup> Apr'14)	-Coordination -Supportive research	Dissemination and adaptation of technologies and delivery approaches; evidence building through operational research; training; advocacy
Phase II (1 <sup>st</sup> May'14 – 30 <sup>th</sup> Apr'18)	-Transformation -Strategic research	Provide programmatic leadership; capacity strengthening; policy dialogue; strategic investments

#### SWOT ANALYSIS ON OFSP INTERVENTION IN MALAWI



	Strengths		Weaknesses		Opportunities	Threat ????
•	Availability of OFSP	•	Lack of sweetpotato value chain	•	Current policies: ASWAP, SUN	It might be with
	improved varieties		analysis and its cost effective		promoting the crop to combat	Other his fortified
•	Improved technologies- of		technologies not well		malnutrition and food insecurity	<ul> <li>Other bio-fortified</li> </ul>
	vine multiplication,		documented	•	Urban consumption of OFSP could	crops like yellow
	production, and storage	•	Lack of a market feasibility study		be increased with more sensitization	cassava, yellow
•	Strong partnership		for vine production (large scale)	•	Sweetpotato is grown by many	maize, etc
•	High interest among		and OFSP products		farmers	Fortified sugar
	Relevant government	•	In adequate knowledge on	•	Current policies and budget	_
	agencies (i.e. DARS, DAES,		consumer preference for		promoting growth of agro enterprises	
	DNHA), International and		sweetpotato consumption in	•	Potential wheat substitution for	
	local NGOs, Donor(s),		urban areas		OFSP flour could reduce cost of	
	private sector, farmers	•	'No' processors of sweetpotato		production of bread in bakeries	
•	Multi disciplinary team-		products using raw materials	•	Existence of school feeding	
	Scientists, Technicians,		from farmers		programme by FAO & WFP may	
	Socio-economists, Market	•	No assessment done on farmer		create market for roots	
	Specialist, Trained field staff		capacity for producing 'puree'	•	Project integration with regional	
	(Partners)		and its use in the industry		project SPHI/SASHA through its	
•	Facilities for clean seed-	•	No specific research on gender		existing platforms for learning from	
	Tissue culture lab/ Screen				other projects within the region	
	house and DVMs in 15				a south the second	

distrricts in 3 regions

## Acknowledgement





IRISH AID,
Malawi Government,
Implementing Partners
Farmers

For support toward promoting OFSP development & promotion in Malawi

Thank you very much for your attention!

www.sweetpotatoknowledge.org