





INTEGRATING ORANGE IN ZAMBIA:

Farmer-to-farmer linkages to sustain access to a vitamin A rich food that earns income

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Integrating orange in Zambia: combating vitamin A deficiency and food insecurity through the effective use of orange-fleshed sweetpotato in eastern and central provinces

- Is a project, implemented by CIP in Zambia from 2011-2015
- Funded by USAID- Feed The Future initiative





Why the project

Vitamin A deficiency (VAD)
 is prevalent in Zambia
 which is at 54 percent in
 children under 5.

 Sweetpotato varieties traditionally grown and consumed in Zambia are white fleshed and lack beta carotene





GENERAL PURPOSE

- To contribute to increased frequency of intake of vitamin A rich foods, especially of women and children under 5
- To improve overall household food security and diet diversification through dissemination of OFSP
- ■To improve production, conservation, and utilization techniques linked to increased nutritional knowledge





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SPECIFIC OUTCOMES

- 15,000 households growing and consuming OFSP
 - 75% women, children
- Improved foundation "seed" management
 - Vine conservation
 - Decentralized multipliers
- Empowerment of women in rural households
- Establishment of active, knowledgeable sweetpotato community







Implementation: Identification of technologies and technology gaps

Varieties- Improved OFSP varieties

Agronomic- Improved production practices to increase yield

Seed systems- access to quality vines timely

Post-harvest handling and marketing

Packaging of selling vines

Processing and utilization

Implementation approach

Identification of working partners and roles























Working area



Variety development and release



In collaboration with ZARI

Variety evaluation trials and preference tastes



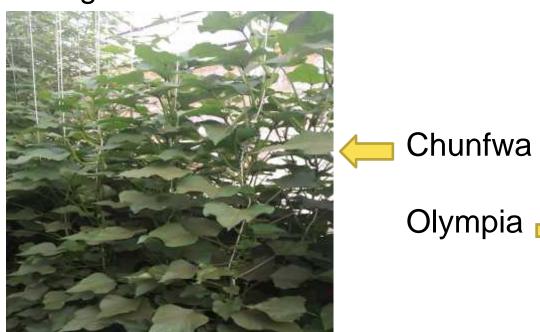
Released 4 varieties; yield range of 19 to 25t/ha



Vine dissemination

- To increase access to the improved orange fleshed sweetpotato varieties by farmers
- And ensure timely access to high quality 'seed'

Vines were sent for cleaning in Nairobi and Maputo; cleaned vines grown in a screen house at ZARI-Msekera







Vine multipliers

Identified within communities- villages/agricultural camps

Done in partnerships mainly MAL in each District

To multiply vines during the dry season under irrigation





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Specific activities included

Trainings of multipliers and partners on rapid multiplication, agronomic practices and disease management

Vine distribution from ZARI screen house to farmers and partners for nursery establishment

Some multipliers were facilitated with treadle pumps, bicycles, net tunnels, and sign posts

Facilitation of vine dissemination to beneficiaries







These farmers were also empowered to:

- Source vines intended for multiplication from ZARI
- Rapidly multiply vines for timeliness and quantity during the dry season, under irrigation
- Commercialize vine production and circulation through promotions to create demand for vines and root



Bundling and packaging of vines







A bundle is 5 Zambia (K5.00)

Achievement...

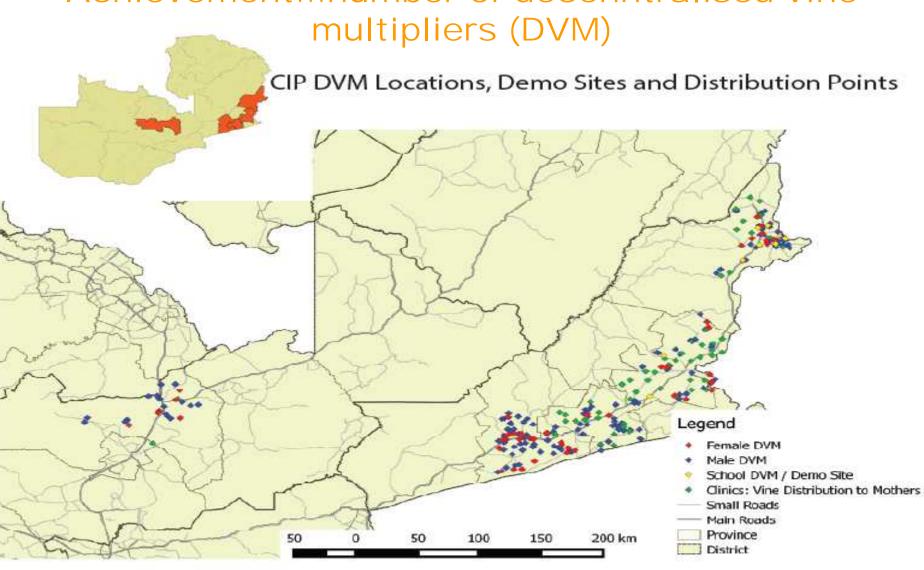
Generally, technical Information has been delivered to multipliers- gardens had trenches and fences around to deter animals, mulching nursery beds, and effectively using net tunnels





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Achievement...number of decenntralised vine



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Vine dissemination and sales

-CIP facilitated dissemination for CIP vine multipliers

	2012/13	2013/14	2014/15	Total
No. of new multipliers established	280	160	358	798
No. of continuing multipliers		160	78	238
No. of direct beneficiaries	1895	5296	10608	17802
% of beneficiaries who paid for planting materials	100	100	30	

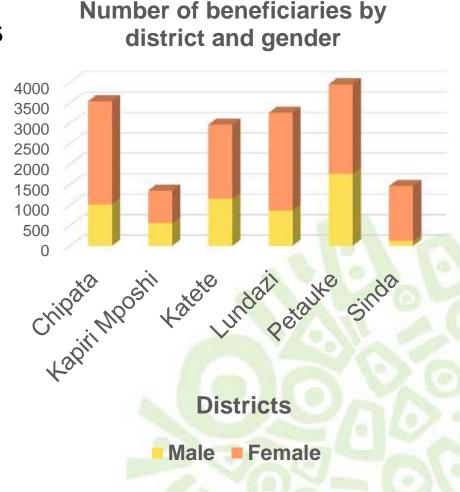
Use of vouchers, marketing promotions and loan repayment of equipment in 2014/15



Achievement- Beneficiary of OFSP vines

436 (97F, 328M) multipliers in 73 Agricultural Camps across six implementing districts of Eastern and Central Provinces

Project has surpassed its goals, directly reaching 17,802 households with improved orange-fleshed sweetpotato (OFSP) planting vines through CIP, partners and vine multipliers.





Sustainable? Vine sales promotion

VINE PROMOTION AT KATAMBALALA MARKET IN KATETE DISTRICT

Camp	Vine multiplier	Number of Bundles Sold	Amount in Kwacha
Chimtende	Eliward Banda	201	1005
Mphangwe	Chenekani Banda	60	300
Chilembwe	Yobe phiri	75	375
Chilembwe	Fiindani Banda	30	150
Kangwelema	Edward Mvula	10	50
Mphangwe	Estere Banda	50	250

Challenges



- Drying off of water sources for the multiplication due to the delayed onset of rainy season
- Non performance farmers
 Vines drying off before planting and some fields in weeds





Use of used sleeping nets for vine production in place of net tunnels made of screen cloth

Vines protected from livestock but not from disease transmitting insect pests as aphids



Grazing animals- the goat

Local laws not effective in some areas

Measures labour intensive, fencing, trenches and physical

guarding





Way forward

Farmers do make money from vines when empowered and this should be encouraged for sustainability



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Acknowledgements







