

# Lessons learned Scaling-up Biofortified Crops



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# HarvestPlus Uganda

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**Goal:** Reducing **micronutrient malnutrition** and improve dietary intakes of vitamin A and iron for 315,000Hhs in 25 districts in Uganda by 2016.

DDBC - 225,000

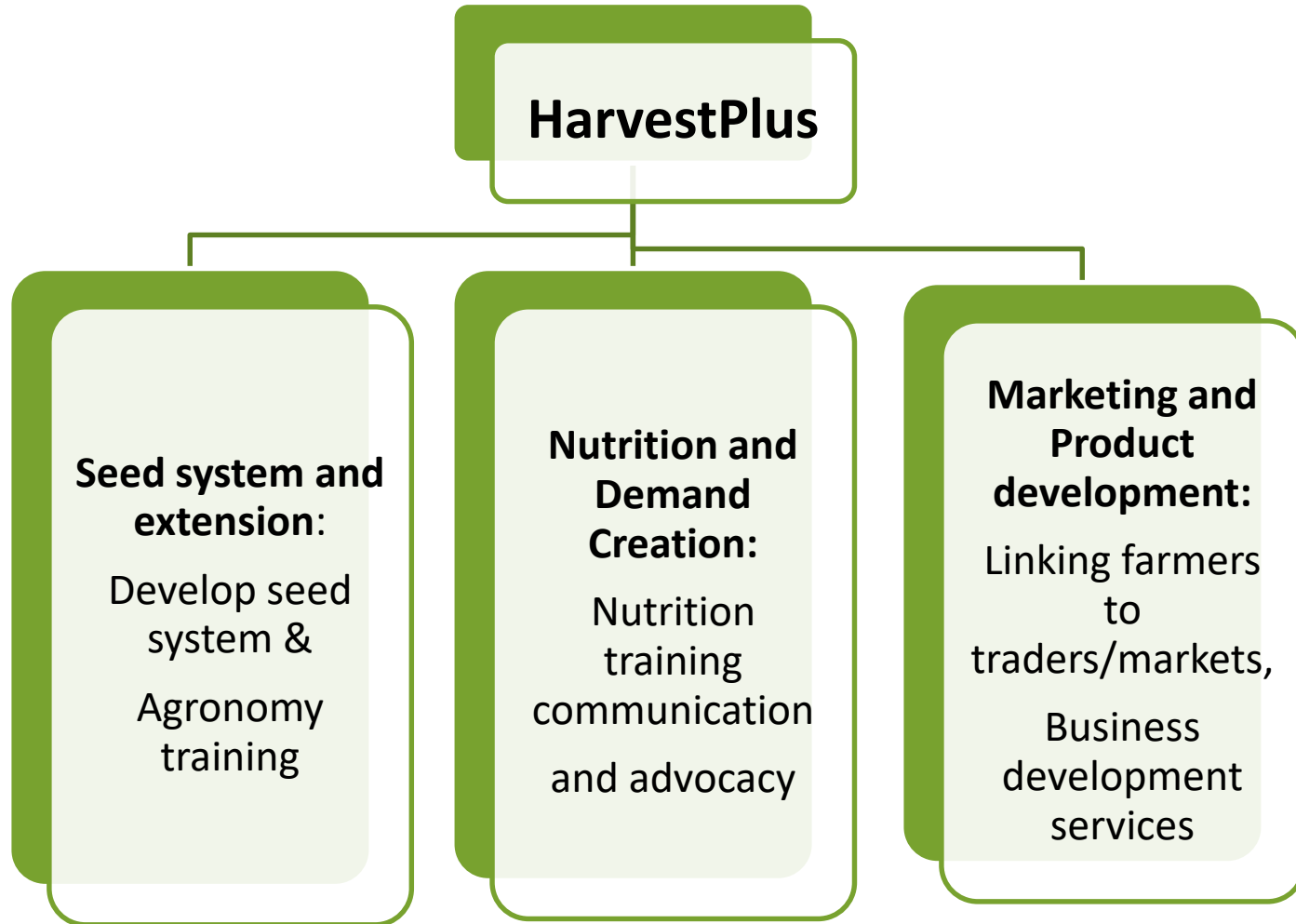
BOOST - 90,000

**Purpose:** Increasing **production & consumption** of Orange Sweet Potatoes (OSP) and High iron beans.



# Integrated approach

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# Developed a clean seed system

- Increase access of clean seed
- Increased yield (up to 5x)
- Increased adoption & led to
- Development of protocols

Micro-  
propagation



Secondary  
multiplication



Tertiary  
multiplication







# Training multipliers and inspectors on protocol use



- Technical guidelines developed and pretested
- Vine multipliers and District inspectors trained on their use



# Improved feeding practices

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- Lead mother initiative: Trained a cadre of women to continually support and train caregivers to feed their children appropriately.
- Has resulted in increased % of children receiving minimum acceptable diet







# Increased Promotions and Advocacy



Drama



Exhibitions



Field days



# Radio - mini drama & real time monitoring

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Farm Radio International (FRI) – 2 cycles





# ICT for Agriculture

- Mobile Phones
  - Linking farmers to seed - Beep2Seed
  - real time consumer feedback (TRAC FM)

Which single crop would you suggest Florence to grow?

**NOTES for presenter - in English, please read through and translate. Make sure instructions are clear**

## Before the drama

Briefly recap on the previous episode and repeat the previous question and results of the poll  
91 % voted for Florence,  
9 % voted for Roland  
Now lets see if Roland is properly caring for his family..

mention that we will listen to a new episode where the story continues and that there will be a new poll question to which people can respond for FREE! This time, even a price will be given to some of the participants (airtime).

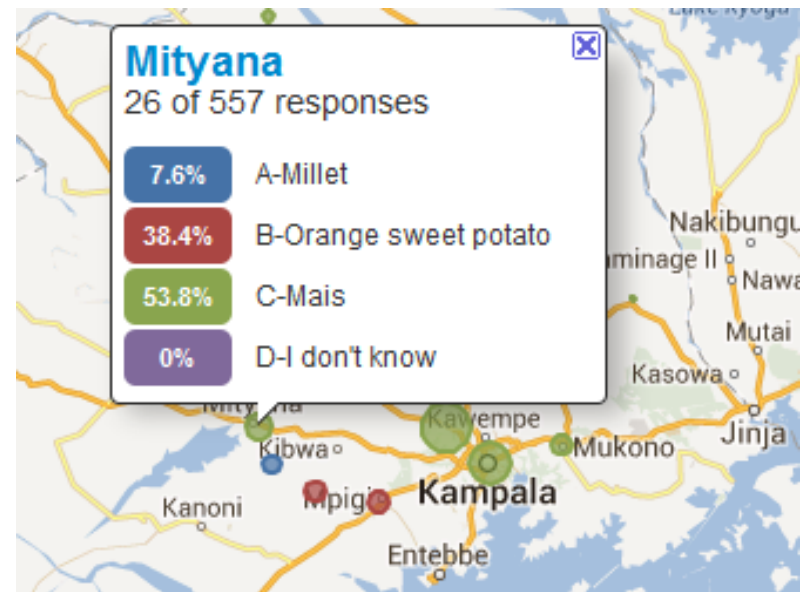
## AFTER THE EPISODE

Briefly discuss what happened during episode 2 especially going into the second part where it is suggested that Florence should provide a nutritious diet to her children. Bridge this to the following question:

### Question

Since Florence cannot buy all the necessary nutritious foods to provide a healthy meal (diet) for her children, which single crop would you suggest her to grow?

- A: Millet
- B: Orange sweet potato
- C: Mais
- D: I don't know





# Increased Utilization of OSP

- Increased processing to deal with surplus and small roots
- OSP flour taken up by bakeries and millers producing composite flour
- Working on developing products using puree with MUK







# Commercial farmers and traders

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**4000** commercial farmers reached

Increased outlets and institutional buying

**6000 MT**  
OSP roots sold







# Accomplishments of DDBC

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Indicator	Value
No of Hhs reached	407,791
No of children reached	205,006
No of new varieties (OSP) released	2
No of new management technologies rolled out (Triple S)	1
Number of new technical guidelines developed	1



# Research findings (Impact)

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Indicator	FG	Non-FG (Diffusion)
Farmers growing OSP in last 5 seasons	72%	36%
Farmers knowledgeable of Vitamin A	74%	59%
Children (6-23mos) receiving minimum acceptable diet	8.3% (Baseline)	24% (Endline)



## Lessons Learned

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- Use of clean vines has increased adoption and willingness to pay for vines
- Use of lead mothers has greatly increased consumption of biofortified crops
- Schools/institutions are good outlets and require reasonable quantities but payment procedures discourage farmers
- Demand for OSP flour by bakeries is quite high (5MT) but production is still low,
- Need to work out a mechanism of having consistent production through out the year





- This work has been made possible by the generous support of



**and our partners;**



# *Thank you*

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