

SCALING SWEETPOTATO TRIPLE S PLUS: gender responsive options for quality planting material, higher yields and extended shelf life for storage roots Ethiopia, Ghana

MARGARET McEWAN, CIP-SSA, RTB, on behalf of the team



Three Scaling Fund awards

- Broadening the scaling of BXW management in East and Central Africa (DRC, Rwanda, Uganda)
- Scaling the transformation of wet cassava peels into high quality animal feed ingredients (Nigeria)
- Scaling Triple S (root based seed technology) PLUS Ghana, Ethiopia......
 - 81,000 reached with Triple S by 2018 -2019 with 10% uptake; \$700,000







Clockwise: What is BXW? Transformation of Wet Cassava Peels; and Triple S basin with sprouted roots

INTRODUCING THE "TRIPLE S PLUS" TEAM

Scaling partners: BoANRD, MEDA, RING, and potentially NGOs with large **Ag/Nut programmes**



Frezer Asfaw: CIP **Ethiopia**, MEL



Erna Abidin: CIP Ghana. Management



Sam Namanda: CIP Uganda, **Regional Cross-country** technical support



Mihiretu Cherinet: Scaling **Champion CIP Ethiopia**



Tom van Mourik: CIP Ghana, Participatory Research & Communication



Triple S PLUS & scaling process

Srini Rajendran: CIP SSA, Cost Benefit Analyis of

Suleman Issahag, Scaling Champion, CIP Ghana



Sarah Mayanja, Gender Specialist, CIP Uganda



Margaret McEwan: CIP SSA, **Partnering & institutional** arrangements for scaling

CHALLENGES

- Women and resource poor households lack timely access to quality sweetpotato planting material
- Acute in areas with extended dry season & unpredictable rainfall patterns
- **Decreasing land holding size**: imperative to intensify and increase productivity
- Limited shelf-life of storage roots: limited consumption period; inability to take advantage of peak market prices
- Unavailability of and limited access to nutritious foods in the dry season



Drying sweetpotato plants in mid January at Mirababaya, SNNPR, Ethiopia. Photo credit: M. Cherinet

VIABILITY

- Farmer managed seed practice:
 - low cost, inputs locally available
- Adaptable to different contexts (e.g. length of dry season) & varieties:
 - options for gender based preferences
 - reduces labour & water requirement for multiplication
 - reduces exposure to pests & diseases
- Triple S: 40-50 small-medium size roots can produce quality cuttings to plant 100 x 36 m² ~ 5.5 tons sweetpotato roots. 100g/day of OFSP provides RDA of provitamin A for a child under 5 years.

Root production from Triple S planting material:

 91% gross margin for every US\$1 invested compared to 77% using the conventional approach.



Sweetpotato vines after 45 days in root bed, SNNPR, Ethiopia. Photo credit: M. Cherinet

The "PLUS" TECHNOLOGIES

• Agronomic practices:

- improve quality of roots for sprouting & storage; and productivity and sorting/selection of roots
- Gender responsive choices:
 - principle of sand storage used for sprouting &/or extending shelf life of storage roots

Training materials for GAPs (top); Preparation of Stepped Pit (I) and Sand Box (r), Navrongo, Ghana. Photo credit: P.

Abidin

stepped pits & sand boxes







FROM KNOWLEDGE TO UPTAKE

Gender responsive communication materials & approach

- Trainers' manual, flip charts and farmer handouts
- Use and test three promotion intensities to disseminate the Triple S PLUS technology at scale
 - Direct participatory adaptation and demonstration
 - Farmer training videos (ZIZO, community video)
 - Community radio at scale



Materials credit: Stathers, Namanda et al., NRI, 2017

SWEETPOTATO TRIPLE S

TRAINING CHARTS









Participatory video production (r) and used for discussion with women (l). Senegal. Photo credit: T. v. Mourik

Triple S – resources - Guide for Trainers



- Designed around a framework of 4 training sessions to fit the crop cycle
- Contains outline plans for each Triple S training sessions
- Step-by-step instructions on how to set-up a Triple S system
- Detailed discussion of why, when and how each step is done
- Visual illustrations of each stage
- Use together with the Triple S training flip charts and farmer handouts

Training Flipcharts



Farmers' Handouts



Graphic representation of levels of exposure





Credit: Schut, M. (RTB 5.4); Adapted by M.McEwan

Identifying potential spillover countries & organizations

- Sam Namanda "the father of Triple S" regional technical backstopping and support role
- Triple S training resource set
 - Distribution (English): Ethiopia, Uganda, Kenya, Tanzania, Mozambique, Nigeria, Ghana, Burkina Faso
 - **Translation:** Amharic, SNNPR languages; N. Ghana languages; Portuguese, French? Kiswahili?
- Advocacy videos & video based extension
- Use Readiness for Scaling Tool to assess additional components required to start scaling Triple S in additional countries and with new scaling partners



Farmer leader of Triple S FRG, SNNPR, Ethiopia. Photo credit: M.Cherinet



RESEARCH PROGRAM ON **Roots**, **Tubers** and Bananas





Proposal development was undertaken as part of the CGIAR Research Program on Roots, Tubers and Bananas (RTB). Funding support for this was provided by: SASHA and USAID.

Acknowledgements CIP, RTB, CRS, HKI, NRI, USAID, Irish Aid, SASHA, EU

Thank you

