



Cassava seed systems: Africa update

Erik Delaquis & Roosevelt Escobar
February 14, 2023

Update on African Cassava Seed Systems work

- SeedEqual WP3
- PROVISSA (Programme for Seed System Innovation for Vegetatively-propagated crops in Africa)
- Rapid multiplication tunnel implementation

Rationale for PROSSIVA

✓ VPC SEED SYSTEMS ARE UNDERINVESTED

- TECHNICAL WEAKNESSES (*VEGETATIVE NATURE OF PROPAGATION; BULKY & PERISHABLE PLANTING MATERIAL; LOW SEED MULTIPLICATION RATES; DISEASE/PEST SPREAD FROM PROPAGATION OF INFESTED MATERIAL*)
- PREDOMINANTLY INFORMAL
- POORLY ORGANIZED, WEAK COMMERCIALIZATION

✓ COMMONALITIES FACILITATE CROSS-CROP LEARNING

✓ LEGACY OF SINGLE-CROP BMGF INVESTMENTS



WWW.CGIAR.ORG

BASICS-II



RAPID Banana



PROSSIVA

Background of PROSSIVA



Consolidation of ongoing single crop RTB seed systems investments



BASICS - II



RAPID Banana

Initial Request from BMGF for integrated Proposal
March 2021

Concept Note drafted
April 2021

Stakeholder Consultation
December 2021

Concept Note Submitted
February 2022

IITA invited to submit full proposal
April 2022

Proposal Approved by BMGF
October 2022

Africa Centre of Innovation for VPC Seed Systems (ACI-VSS)

Building Systems, Delivering Volumes. Directly Scaling, Africa-wide



Programme for Seed System Innovation for Vegetatively-propagated crops in Africa (PROSSIVA)

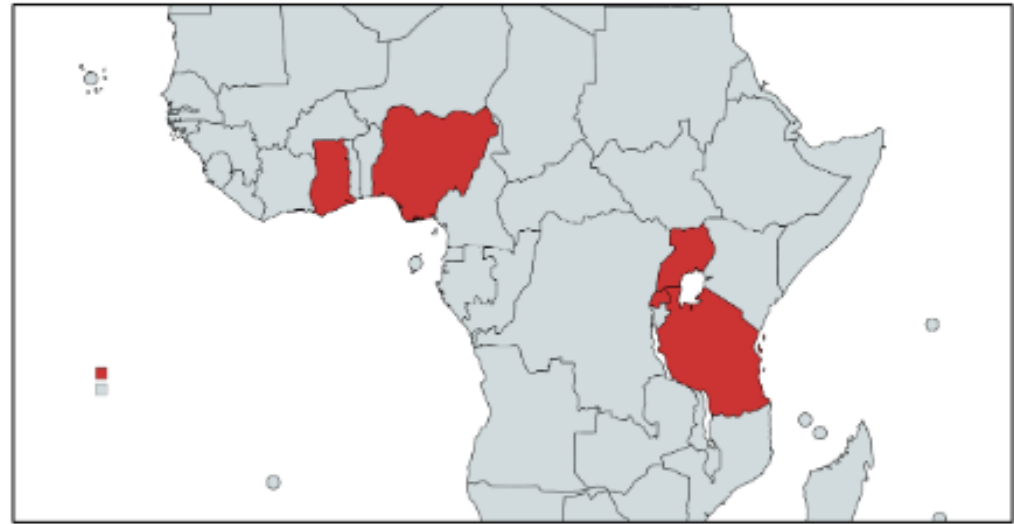
Research/innovation Focus, Tackling Bottlenecks, Improving Efficiency



***PROSSIVA AIMS TO ENHANCE
THE EFFICIENCY, PRODUCTIVITY
AND PROFITABILITY OF VPC
SEED SYSTEMS IN TARGET
COUNTRIES OF AFRICA
THROUGH CONDUCTING
RESEARCH AND DELIVERING
INNOVATIONS THAT WILL
OVERCOME SEED SYSTEM
BOTTLENECKS***

*PROSSIVA will actively engage with public
and private sector scaling partners to
facilitate uptake of innovations*

WWW.CGIAR.ORG



Ghana, Nigeria, Rwanda, Uganda, Tanzania

Scaling Partners

*AGRA, AU, ASARECA, CARDESA, CORAF
FARA, NARIs, Seed Equal, Regulators, TAAT
Investors, Governments....*



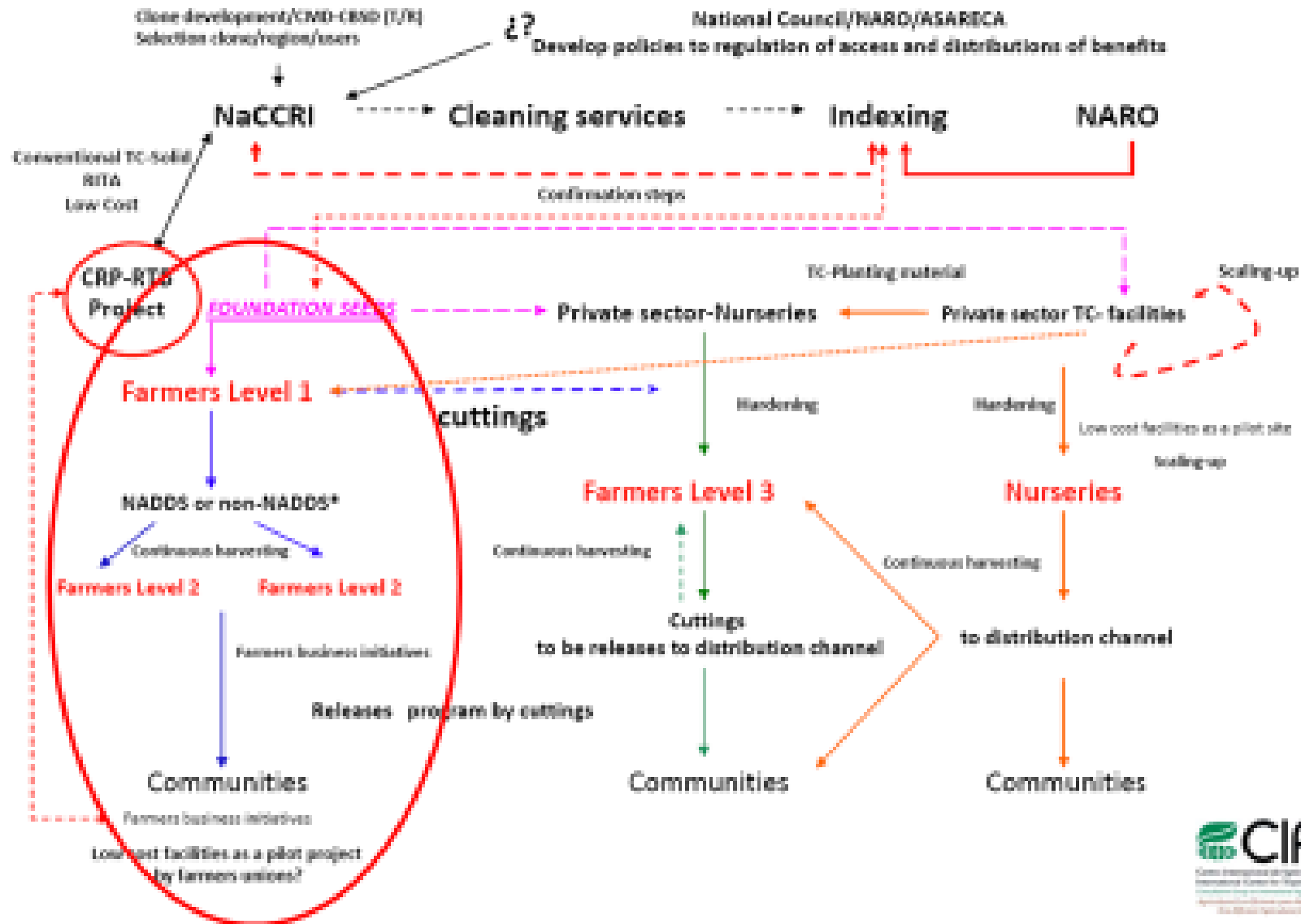
PROSSIVA overview

- 18M project budget for 5 crops
- >25 implementing partners
- 5 years (2 for cassava: use cross-cutting)

- CIAT 140k
 - Roosevelt Escobar
 - Erik Delaquis
- CIAT contribution:
 - Construction and operations manuals for rapid multiplication tunnels
 - Accumulate feedback on performance & challenges in African contexts
 - Training exchange
 - Maintain interactions through SeedEqual & BMGF in VPC seed system area



Putative Cassava Seed System to be consider in Uganda



Proposal of REScoBar to implement a CSS in Uganda on 2022 by Uganda

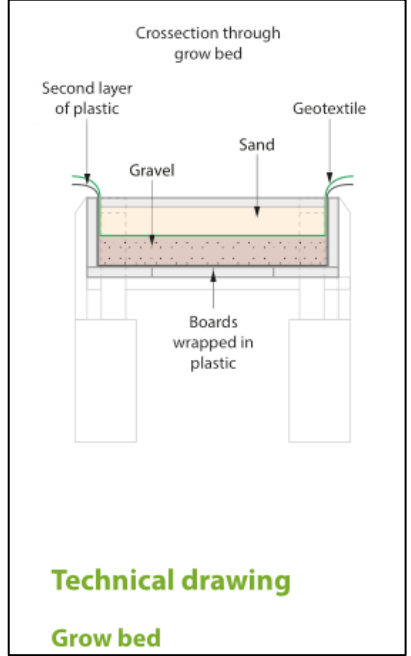
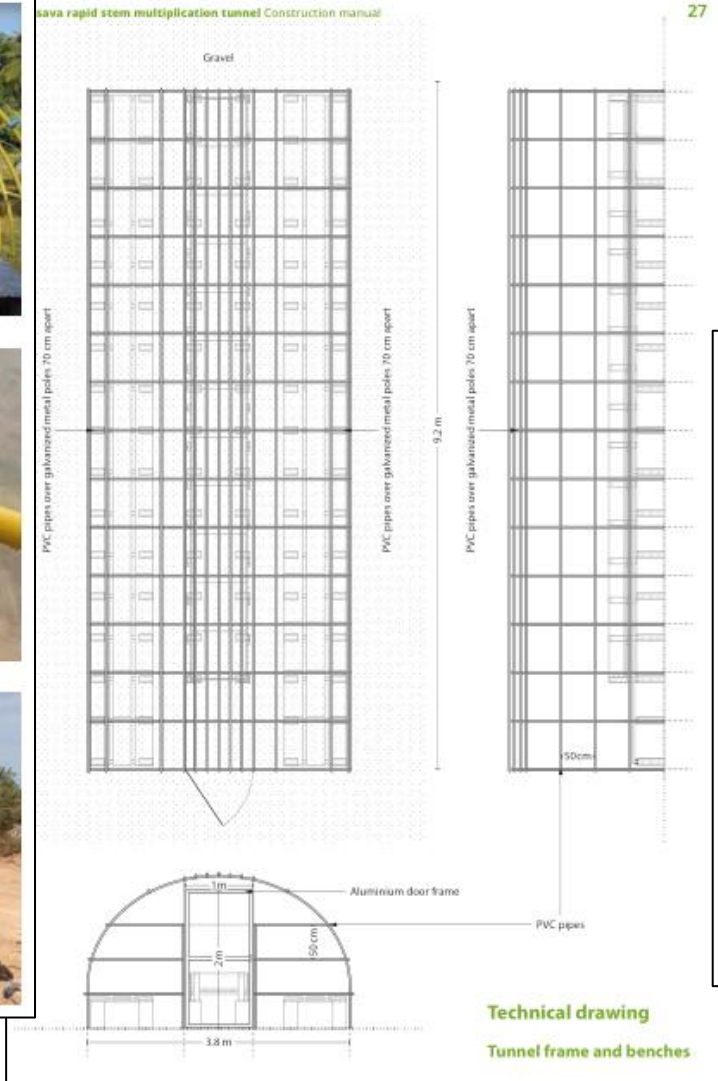
Tunnel construction manual



ການສ້າງເຮືອນອຸໂມງ (ເພື່ອຂະຫຍາຍລຳມັນຕົ້ນແບບໂງ່ ດູນິການສ້າງເຮືອນອຸໂມງ) 19

ໃນຮູບແມ່ນຂະໜາດຂອງໂຄງຫຼັງຄາທີ່ເຮັດແລ້ວ. ເຂົ້າຢູ່ສິ້ນທີ່ຂອງ PVC ແມ່ນໄຊ້ຂັດກັບເຮັດໃຫ້ໂຄງຄົດເຂົ້າກັນດີ.

ການເຮັດປະຕູທາງເຂົ້າ
ປະຕູທາງເຂົ້າແມ່ນນຳໃຊ້ເຫຼັກເສັ້ນ ແລະ ທໍ່ PVC ສ້າງໂຄງປະຕູຢູ່ທັງສອງດ້ານຂອງເຮືອນອຸໂມງ ເພື່ອເປັນບ່ອນເຂົ້າອອກ. ໃຊ້ເຫຼັກເສັ້ນ 2 ເສັ້ນເຮັດທັງສອງດ້ານຂອງຂອບປະຕູ ແລະ ເຮືອນດີໃສ່ກັບທີ່ຢູ່ດ້ານຂ້າງ ໂດຍ ໄຊ້ຂັດ 3 ຕາ ແລະ ຂໍຕັ້ງ.

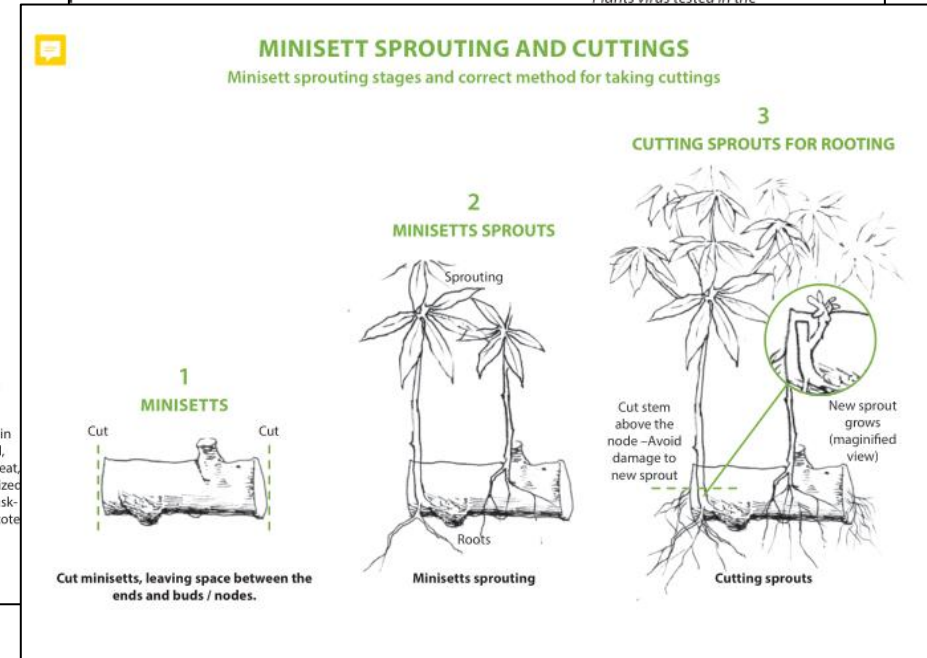
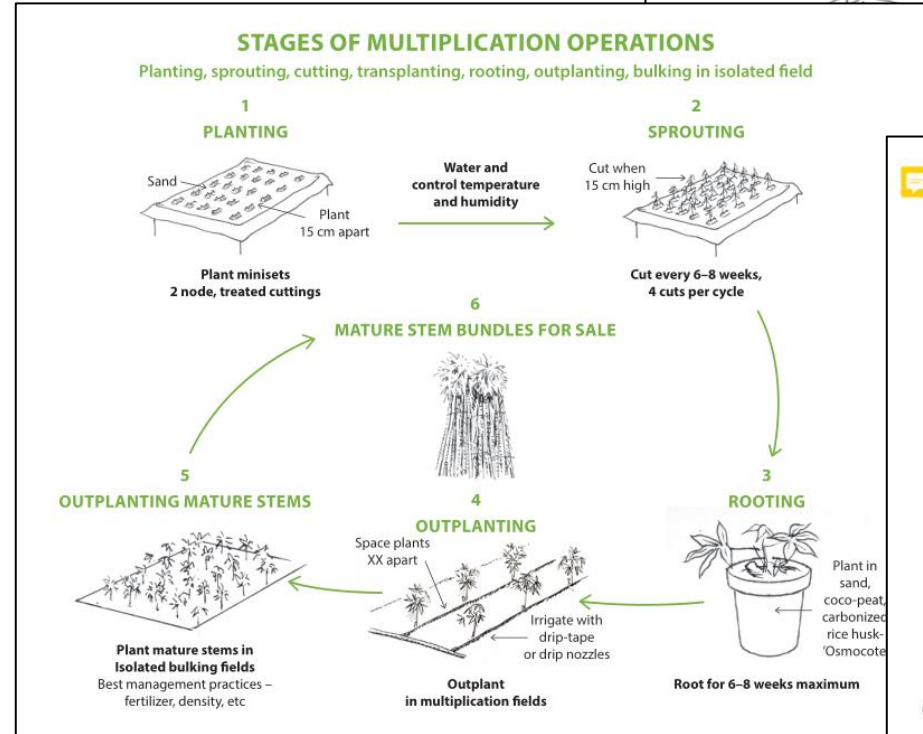
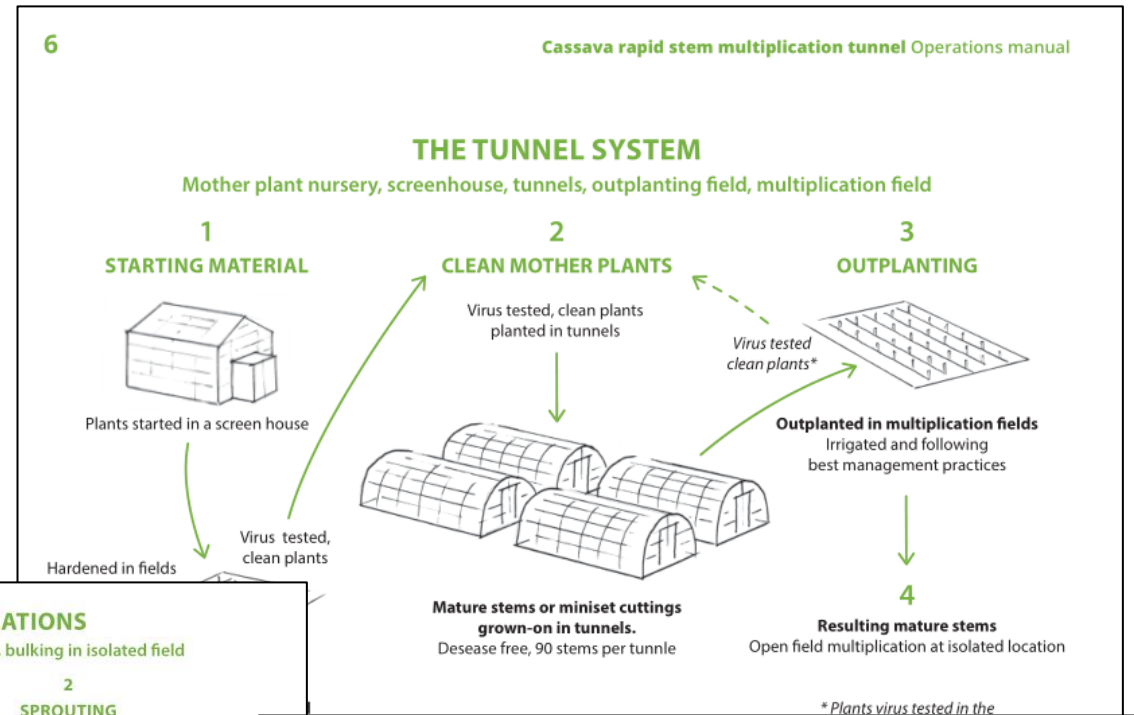


30pp., technically detailed

English, Lao, Khmer, Vietnamese versions

Tunnel operations manual

- Step-by-step
- Visual, intuitive
- Troubleshooting
- Video links
- Add French... Swahili?



What next?

- Revisiting the strategy & partnerships
- Goals for tunnel scaling
- Who currently has clones (with resistance behavior)
- Tolerance to CBB



Alliance



International Center for Tropical Agriculture
Since 1967 Science to cultivate change

Thank you!



Biodiversity International and the International Center for Tropical Agriculture (CIAT) are CGIAR Research Centers.
CGIAR is a global research partnership for a food-secure future.