



RESEARCH
PROGRAM ON
Roots, Tubers
and Bananas



Welcome

RTB Seed System Toolbox Course
26, 28, 29 July 2021

Graham Thiele

Alliance



Welcome to
our webinar!

Roots, tubers and bananas program



**Banana
Plantain**



Cassava



Potato



Sweetpotato



Yam



Other R&T

Working globally to harness untapped potential of RTB crops to improve:

Food security, nutrition, income, climate change resilience and gender equity of smallholders.

Why Roots, Tubers & Bananas?

- Genetic complexity (> grains)
- Vegetative propagation, similar seed systems
- Perishability, bulkiness and post harvest/value chain options





RTB golden eggs:
contribution to One CGIAR
 Immensely proud of toolbox!



<https://tools4seedsystems.org/>

Seed system toolbox golden eggs page on RTB's website

<https://www.rtb.cgiar.org/seed-system-toolbox/>

Seed system toolbox

See our other golden eggs

Toolbox for Seed Systems of Roots, Tubers and Bananas

Purpose
Understand existing seed systems of vegetatively propagated crops, mainly potatoes, sweetpotatoes, cassava, yams, bananas, and assess and support the design of seed system interventions and improve their effectiveness.

Expected impact
Root, tuber and banana seed systems tend to be poorly developed and seed interventions to improve them have had limited success. This is a critical bottleneck for the farmers to access quality planting material of more nutritious, productive varieties, with the qualities that consumers demand, and adapted to changing climate scenarios. Better understanding of seed systems will improve the impact of the large investments made in crop breeding and boost farmer productivity with better quality seed, benefitting hundreds of millions of farmers and billions of consumers who depend on these crops.

Description of the toolbox
The toolbox brings together proven strategies and tools that work to successfully diagnose, plan and develop new vegetative seed systems. It includes 11 tools: (1) multi-stakeholder framework, (2) Impact network analysis, (3) Seed Tracker, (4) Integrated seed health approaches and models, (5) seed tracing, (6) small-N/exploratory case study, (7) four-square method, (8) means-end chains method, (9) experimental auctions, (10) seed regulatory framework analysis, and (11) sustainable early generation seed business analysis tool (SEGBAT). Although developed for root, tuber and banana crops, many elements of the toolbox are of broader relevance to other crops.

The entry points for using the tools can be visualized from the perspective of a seed value chain.



Examples of use
The toolbox has been validated in East and West Africa, Asia, and South America and has helped, among other things, to design a national plan for improving seed potato systems in Georgia, to understand the networks of cassava seed exchange and how to use these insights to prevent the spread of viruses in Asia, to explore farmer preferences and demand for banana planting materials, and to modernize seed quality assurance and certification schemes for cassava and yam in Nigeria and Tanzania.

Links to relevant documents and web pages

 [Toolbox website](#)

 [User guide to the toolbox for working with root, tuber and banana seed systems](#)

Contact person
Jorge Andrade-Pedra: jandrade@cgiar.org

Logos of Centers and partners

  

References

  

Partnerships and Capacity Building

Moving from research outcomes to development outcomes



Photo credit: K. Ogero.

- Capacity strengthening for partners using the toolbox to understand and improve seed systems
- Collaborating with other seed system networks, e.g., ISSDAfrica.org, SeedSystem.org
- Partners collaborating to add new tools to the toolbox



CONTEXT

<https://contextnet.com/>

Major donors



Foreign, Commonwealth
& Development Office



Australian Government
Australian Centre for
International Agricultural Research



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

BILL & MELINDA
GATES *foundation*



USAID
FROM THE AMERICAN PEOPLE

CGIAR Trust Fund contributors': <https://www.cgiar.org/funders/>



RESEARCH
PROGRAM ON
Roots, Tubers
and Bananas



**TOOL
BOX**

FOR WORKING WITH
ROOT, TUBER AND
BANANA SEED SYSTEMS

Thank you

Alliance

