Tools4SeedSystems: building a better seed future - together

JORGE ANDRADE-PIEDRA
Roots, tubers and bananas program

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

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

- Genetic complexity (> grains)
- Vegetative propagation, similar seed systems
- Perishability, bulkiness and post harvest/value chain options
Seed systems: Knowledge gaps hold back progress

4 major gaps
• Identifying effective seed delivery pathways
• Ensuring seed health and stopping the spread of disease
• Capturing the demand characteristics of different types of farmers
• Effective policies & regulation

17 countries
50+ researchers
The Tool Box

Replicable, open-source, and backed by science.

https://tools4seedsystems.org/

- Description sheet
- User guide
- Case study
- Tool validation
- Peer-reviewed publication
- Technical support available
Identifying effective seed pathways

Gap:

Effective seed distribution pathways for sweetpotato in Uganda

Strategies for deployment of disease resistant, clean seed material to combat a viral disease in southeast Asia

Tools:

- Seed Tracker
- Impact network analysis (INA)
- Seed tracing

Photo credit: CIAT

Photo credit: Paul Rachkara
Designing a new potato seed system in the Republic of Georgia to protect seed health

Clean seed replacement strategies for sweetpotato in Tanzania

Photos: K. Ogero

Photo: R. Mdivani

Tools:
- Seed Tracker
- Impact network analysis (INA)
- Integrated seed health approaches and models
Major donors

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