

# Seed Equal – RTB Tools4SeedSystem Scalar Secretar for Sec

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#### TOOLS4SEEDSYSTEMS:

WORKING TOWARDS RESILIENCE THROUGH ROOT, TUBER AND BANANA CROPS IN HUMANITARIAN SETTINGS.

Virtual training: 23 and 25 May 2023

# CGIAR Genetic Innovation Initiatives: working tightly together, with partners, for broad-based impact





SIX CLOSELY INTEGRATED INITIATIVES

CO-DELIVERED WITH PARTNERS

WORKING ACROSS CGIAR'S THREE ACTION AREAS

TO ACHIEVE SYSTEMS CHANGE IN FIVE IMPACT AREAS



Nutrition, Health & Food Security



Poverty Reduction, Livelihoods & Jobs



Gender Equality, Youth & Social Inclusion



Climate Adaptation & Mitigation



Environmental Health & Biodiversity

- Conserving accessions from 900 crop species
- 150 breeding programs across 16 crops
- 137 countries with 1000 partners



### **Seed Equal**



# Accelerate varietal turnover, quality seed use, and the realization of genetic gains in farmers' fields.

- Modernization of CGIAR's role in seed system development, particularly seed delivery
- Reducing the average varietal age
- Ensuring that breeding innovations reach the most disadvantaged

#### Builds on wide consultation since 2020

- CGIAR Seed System Community of Excellence
- CtEH Seeds Delivery Group Whitepaper (comparative advantage of the One CGIAR)
- One CGIAR- NARES- SRO Aide Memoir (June 2022)





## **Seed Equal Work Packages**



1. Advancing Cereal Seed Systems

4. Tools to manage and monitor variety advancement and adoption

2. Advancing Grain Legume SeedSystems

5. Evidence base for better seed policies

3. Scaling the Delivery of Vegetatively Propagated Crop (VPC) Seed

6. Strategies for last-mile delivery to disadvantaged groups, including women and youth

Seed Equal does not work on under-utilized crops, in situ conservation (and landraces): Nature + (RAFS)

# WP1-3: Characterization, training, production research, advancement and hand-over of new varieties

Crop- archetype specific work and training on:

- Sustainable Early Generation Seed (EGS) production protocols and business models.
   NARS/ seed units/ foundation seed Cos. capacity building
- More effective germplasm exchange networks and expanded on-farm testing of candidate varieties.
- Research on seed demand creation and risk perception (inc. value-pricing)
- Seeds production research and lowering the cost and risk of seed production
- Seed Tracker; Seed Cast, RTB Seeds Toolbox, SAH; TIBS micro-prop; rooted apical cuttings; de-tasseling techniques



### For emergency, SE could provide technical assistance and support on:

- choosing well-adapted and resilient varieties that are **fit-for-purpose** in a particular emergency context;
- rapid **seed production and multiplication systems**, technologies, and tools to make seed quickly available in emergency situations;
- rapid testing and tracing strategies for seed quality assurance and the prevention of inferior planting materials being supplied in emergency situations;
- sanitary and phytosanitary support to ensure disease and pest-free material is supplied;
- rapid scale-up models for credible/legitimate seed producers (including commercial, parastatal, and farmer-based producers) operating in emergency contexts;
- seed distribution models that appropriately leverage the participation of market actors public service providers, relief agencies, farmer-based organizations among others.

SE could strengthen design and implementation of policy and practice in seed emergency assistance through:

- proper diagnosis of the problems faced in different emergency contexts,
- appropriate responses to the problem (e.g., direct seed distribution; seed voucher; cash transfers; market and price interventions; seed production subsidies; social protection programs; multisectoral programs; or combinations of these response options),
- rigorous evidence base on effective approaches to seed emergency assistance
  - developing tools—including digital tools—to provide a rapid, near real-time understanding the effects of seed emergency assistance
  - conducting better analysis to understand the pathways through which seed emergency assistance affects outcomes of interest such as crop productivity, household livelihoods, and individual welfare



Functioning seed systems and seed-embedded technology will help drive adoption of improved varieties to build inclusion, future resilience and close yield gaps for smallholder farmers

**Thank You!** 



