# Evaluating Multilateral System (MLS) (gene bank) material for climate change adaptation using participatory methods with farmers and breeders

**Project Title:** P66 - Global policy support for biologically diverse, climate resilient agriculture

**Description of the innovation:** Three gene banks of Kenya, Uganda and Tanzania have shared over 400 accessions of beans, finger millet and sorghum using SMTAs. These materials are being evaluated by farmers and breeders using a combination of on-station trials (mother trials) to select elite lines for climate related traits and crowd sourcing trials to select farmer preferred varieties engaging 1000 farmers in four sites (baby trials). 23 sorghum and 20 bean varieties have been pre-selected in Uganda.

**New Innovation:** No

**Stage of innovation:** Stage 1: discovery/proof of concept (PC - end of research phase)

**Innovation type:** Research and Communication Methodologies and Tools

**Geographic Scope:** Regional

**Number of individual improved lines/varieties:** <Not Applicable>

**Region:**

- Eastern Africa

**Description of Stage reached:** The trials have been completed in one site -Hoima Uganda. In Hombolo & Singida In Tanzania the trials are at the second stage while in Kenya, the trials have been launched in March 2019.

**Name of lead organization/entity to take innovation to this stage:** Bioversity (Alliance) - Alliance of Bioversity and CIAT - Headquarter (Bioversity International)

**Names of top five contributing organizations/entities to this stage:**

- NARO - National Agricultural Research Organisation (Uganda)
- TPRI - Tropical Pesticides Research Institute
- GeRRI - Genetic Resources Research Institute

**Milestones:** No milestones associated

**Sub-IDOs:**

**Contributing Centers/PPA partners:**

**Evidence link:** https://tinyurl.com/yxqyha4b

**Deliverables associated:**

- D8561 - Options for national governments to support smallholder farmer seed systems: The cases of Kenya, Tanzania, and Uganda. (https://tinyurl.com/y56uxjj9)

**Contributing CRPs/Platforms:**

- CCAFS - Climate Change, Agriculture and Food Security