Multifunctional community seed bank: Community-Based Seed Conservation and Management System

High-quality seeds to support farmers.



Alliance Bioversity-CIAT
Ronnie Vernooy

Multifunctional Community Seed Banks are farmer-managed organizations that conserve local crop diversity and ensure access to quality seeds. They store seeds and planting materials in community facilities, replenish stocks through seed regeneration, and distribute them through a lending system requiring farmers to return twice the quantity borrowed after harvest. Farmer committees oversee management and record all seed transactions.

This technology is pre-validated.

9·9 Scaling readiness: idea maturity 9/9; level of use9/9

Inclusion assessment 4 8 15

Climate impact 6

Problem

- **Seed security risks:** Crises and disasters can disrupt seed availability and threaten agricultural recovery.
- **Biodiversity loss:** The disappearance of local crop varieties undermines the conservation of valuable plant genetic resources.
- **Institutional gaps:** Communities need organized structures to conserve, regenerate, and manage their own seed resources.

Solution

- **Strengthen seed security:** Promotes community-managed seed banks to improve local access to quality seeds.
- **Conserve agrobiodiversity:** Supports the conservation and sustainable use of local crop varieties and associated knowledge.
- **Empower communities:** Builds local capacity for seed management through inclusive governance, farmer participation, and knowledge sharing.

Key points to design your project

Multifunctional Community Seed Banks support public agricultural programs by strengthening local seed systems, conserving agrobiodiversity, and improving farmers' access to preferred crop varieties through community-managed seed conservation and exchange.

- **Seed security and conservation:** Strengthens local seed availability and access to preferred crop varieties while conserving traditional crop diversity and related knowledge.
- **Climate resilience and agricultural biodiversity:** Improves farmers' access to diverse, locally adapted crops and strengthens their capacity to manage and conserve plant genetic resources.
- **Inclusive community development:** Promotes farmer participation, women's leadership, intergenerational knowledge exchange, and collective management of local seed resources.

IP

Open source / open access

See details ›

Commodities

Maize, beans, Sweet Potato, Amaranth, Soybean, Cassava, + 10 more

Sustainable Development Goals



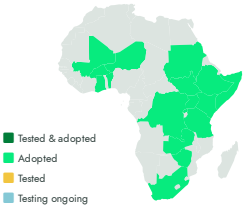
Categories

Production, Pre-production, Practices, Seed system

Best used with

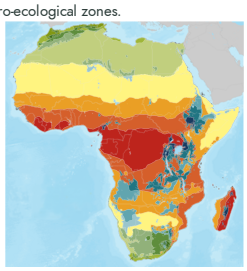
Hermetic Bags for Safe Storage of grain
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Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Breeders, Farmers, Seed companies,