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

High-quality seeds to support farmers.



Multifunctional Community Seed Banks are farmer-managed organizations that conserve local crop diversity, ensure access to quality seeds, and promote knowledge sharing through collective seed management, regeneration, and distribution. They also strengthen community participation and women's leadership.

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 and food insecurity:** Vulnerable communities face difficulties maintaining access to seeds during and after crises.
- **Agrobiodiversity loss:** Local crop varieties and associated traditional knowledge are at risk of disappearing.
- **Limited community capacity:** Farmers need locally managed systems and stronger networks to conserve and sustainably use plant genetic resources.

Solution

- **Build resilient seed systems:** Supports farmer-managed seed banks to improve seed security and preserve local crop diversity.
- **Strengthen local capacity:** Promotes seed management skills, regular seed regeneration, and inclusive community governance.
- **Promote sustainable conservation:** Connects farmers, researchers, and extension agents to support the conservation and sustainable use of plant genetic resources.

Key points to design your program

Multifunctional Community Seed Banks support development programs by strengthening community-managed seed systems, conserving agricultural biodiversity, and improving access to diverse and locally adapted crop varieties.

- **Seed and food security:** Strengthens community access to preferred crop varieties and contributes to seed, food, and nutrition security through local seed conservation and exchange.
- **Climate resilience and biodiversity conservation:** Supports the conservation and sustainable use of agrobiodiversity while improving farmers' access to diverse, locally adapted crops and related management knowledge.
- **Inclusive and sustainable rural development:** Promotes community participation, women's leadership, youth engagement, knowledge exchange, and opportunities for value addition to strengthen community seed bank sustainability.

IP

Open source / open access

See details ›

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Commodities

Maize, beans, Sweet Potato, Amaranth, Soybean, Cassava, Bananas & plantains, Rice, Okra, Sesame, Wheat, Sorghum/Millet, Coffee, Potato, Tomato, Pepper
+ 10 more

Sustainable Development Goals



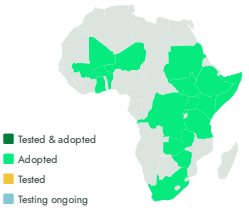
Categories

Production, Pre-production, Practices, Seed system

Best used with

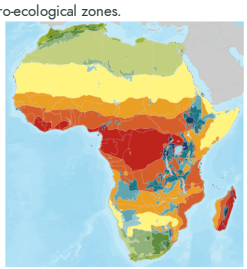
Hermetic Bags for Safe Storage of grain
See all 1 technologies online

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,