

Mechanized Threshing Operations

Efficient Threshing for Productive Farms

Mechanized Threshing Operations is equipment used to separate seeds or grains from harvested plants. It utilizes small petrol engines to process seeds and grains rapidly, offering a significant improvement in efficiency.



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This technology is **TAAT1 validated**.

8•8

 Scaling readiness: idea maturity 8/9; level of use 8/9

Inclusion assessment **4**

Climate impact **2** **3**

Problem

- Manual threshing methods are inefficient, requiring approximately four hours of work to recover 100 kg of seed.
- Reliance on manual labor for threshing may limit agricultural productivity and efficiency.
- Limited availability or access to multi-crop threshers may hinder the processing of diverse crops.

Solution

- Different types of crops can be processed based on the screen mesh used in the thresher.
- Mechanized threshing is labor-efficient, processing 150 to 500 kg of saleable product per hour, depending on the crop.
- Processing times vary based on the size of the seed, with smaller seeds being processed more rapidly.

Key points to design your program

Mechanized Threshing Operations can be integrated into crop value chain development, post-harvest management, agribusiness, women's economic empowerment, and youth employment programs to improve grain quality, reduce labor requirements and post-harvest losses, increase productivity, and strengthen farmer incomes. Its adoption contributes to SDGs 1, 2, 5, and 8.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to mechanized threshers and supporting services.
- Build partnerships with IMARA TECH, cooperatives, extension services, fabricators, equipment suppliers, and financial institutions.
- Train operators on machine operation, safety, maintenance, and post-harvest handling.
- Promote women's and youth participation in threshing services and related enterprises.
- Monitor labor savings, grain quality, post-harvest losses, farmer outreach, and income generation.

225 kg per hour
Maize processing

IP
No formal IP rights

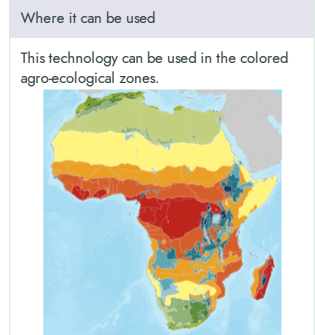
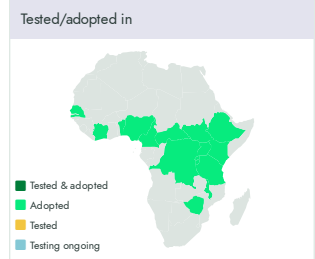
Technology from
PropAS

Commodities
Common bean

Sustainable Development Goals

Categories
Postharvest, Equipment, Post-harvest handling

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



Target groups



Mechanized Threshing Operations

https://taat.africa/uwo

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