

BSFF: Organic fertilizer for soil improvement

Low cost fertilizer for healthy and profitable agriculture for African farmers.

Frass is a nutrient-rich compost produced from black soldier fly larvae (BSFL) treatment of biodegradable waste. Commercially, it consists of BSFL faeces, substrate residues, exoskeletons, and a microbial population aiding fermentation.



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This technology is **pre-validated**.

Scaling readiness: idea maturity 8/9; level of use 7/9

Gender assessment

Climate impact

Problem

- Africa faces a lack of organic waste management solutions, leading to severe environmental threats.
- Soil fertility in smallholder farms is declining due to nutrient imbalances, where more nutrients are extracted than replenished, worsening food security.

Solution

- BSFF technology converts organic waste into nutrient-rich compost, reducing environmental contamination and improving soil fertility.
- It promotes sustainable agricultural practices by enhancing soil health.

Key points to design your project

To integrate the BSFF technology into your project:

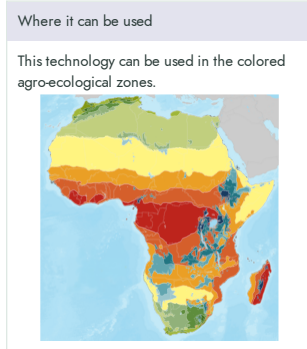
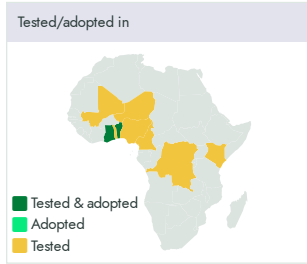
- **Educate Farmers:** Raise awareness among farmers about the benefits of using BSFF fertilizer for improving crop yields and soil health.
- **Promote Accessibility:** Ensure equitable access to BSFF products and financial support for local suppliers and smallholder farmers.
- **Calculate Fertilizer Needs:** Determine the required quantities of BSFF fertilizer, considering a recommended application rate of 10 tons per hectare for poor soils.

Cost: **\$\$\$ 3 USD**
Per 50kg bag

Commodities
Vegetable crop

Sustainable Development Goals

Categories
Pre-production, Inputs



Target groups
Farmers

