CGIAR

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International Institute of

Commodities

Tropical Agriculture (IITA) Dr Rousseau DJOUAKA

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.

		Commodifies
This technology is <u>validated</u> .		Vegetable crop
Inclusion assessment	Climate impact	Sustainable Development Goals 2 ratio 3 color HALIF 2 ratio 3 color HALIF ()
 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. 	Categories Production, Inputs, Fertilizer
 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. 		Black Soldier Fly Larvae (BSFL) proteins for low cost Fish feeds See all 1 technologies online Tested/adopted in Tested & adopted Adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted Tested & adopted
Cost: \$ 3 USD Per 50kg bag Pr National phase application		Where it can be used This technology can be used in the colored agroecological zones.
		Target groups



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