

ABC Grower: Biomineralization of weeds for soil improvement

Solar-Powered, Cost-Effective, and Ecologically Smart BioFertilizer for Thriving Crops and Sustainable Agriculture

ABC Grower is a biotechnology that extracts nutrients from weeds using positive microorganisms (EM). These nutrients are formulated to enhance crop growth, tailored for tropical soils. Powered by solar energy, it reduces fertilizer production time from 60 to 14 days, lowers costs by 10 to 20 times, and adds economic value to weeds for farmers.



ABC GROWER
BIOFERTILIZER

SOCIETE DE DEVELOPPEMENT DE L'AGRICULTURE DURABLE (SDAD SARL)
Bienvenu Chabi ADJE



This technology is **pre-validated**.

9-8



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

Cost: \$\$\$ **8 USD**

Initial cost

ROI: \$\$\$ **20 %**

Benefit

1,500 USD

40 %

15 Years



Production Kit purchase

Benefit for the kit purchase

Lifespan

Patent granted

Problem

- Climate change accelerates land degradation, threatening agricultural productivity and food security.
- Farmers using chemical inputs face poverty and environmental risks from heavy metal accumulation.
- Low adoption of compost in organic farming is due to lengthy production time, high water and labor requirements, and logistical challenges, including high costs and quantity demands.

Solution

- Cost Reduction: Significantly lower fertilization costs alleviate financial burdens for farmers.
- Improved Efficiency: Precise biofertilizer formulation enhances agronomic efficiency, surpassing conventional methods.
- Solar Energy: Solar energy reduces organic fertilizer production time from 60 to 14 days, simplifying production.
- Economic Valorization: Weeds in fields gain economic value, benefiting farmers economically.

Key points to design your business plan

This technology is beneficial for three main groups: manufacturers, resellers, and end users:

- Manufacturers: Producing ABC Grower technology offers a sustainable, cost-effective solution, positioning them as leaders in eco-friendly agriculture. Efficient transportation and storage are crucial.
- Resellers: Selling ABC Grower fosters engagement and aids in food security and poverty reduction. Efficient logistics are vital for success.
- Users: ABC Grower enhances productivity and sustainability. Collaboration with sellers is key, with profits estimated at USD 8 per unit.

Commodities

All Crops

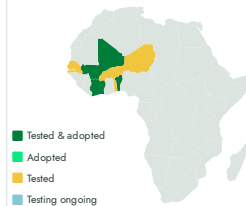
Sustainable Development Goals



Categories

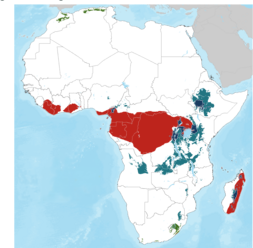
Production, Inputs, Fertilizer

Tested/adopted in



Where it can be used

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



Target groups

Farmers, Sellers

Gender assessment



Climate impact



ABC Grower

<https://taat.africa/hgb>

Last updated on 1 April 2025, printed on 15 May 2025

Enquiries e-catalogs@taat.africa