

Turbocrop: Field crop plant establishment biostimulant

Specialized biostimulant for root development and vegetative growth on field crops

Turbocrop is a specialized biostimulant product designed to enhance the development of roots and promote vegetative growth in crops. It is specifically formulated to improve plants' ability to withstand and cope with abiotic stress factors, such as extreme temperatures, drought, or nutrient deficiencies.



UPL
Florent Clair

Commodities

Wheat, Maize, Groundnut, Common bean,
Other commodity

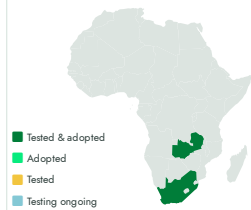
Sustainable Development Goals



Categories

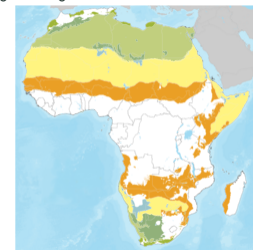
Production, Inputs, Fertilizer

Tested/adopted in



Where it can be used

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



Target groups

Farmers

✓ This technology is **validated**.

9/9



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

Cost: \$\$\$ **10 - 20 USD**

Fertilizer cost

460 Kg/ha

Yield increase

170 USD/ha

Benefit on maize in South Africa



Patent granted

Problem

- Imbalances in soil nutrients hinder optimal plant growth and productivity.
- Factors constrain the potential size and structure of plants, impacting overall yield.
- Restrictions in root development impede nutrient uptake, affecting plant health and productivity.
- Inefficiencies in nutrient absorption and utilization by plants result in suboptimal growth.
- Various factors contribute to limitations in crop yields, affecting agricultural productivity and food security.

Solution

- Stimulates root hair formation for enhanced nutrient absorption.
- Promotes stem elongation and leaf growth, particularly during tillering.
- Provides a balanced blend of essential nutrients for optimal crop growth.
- Improves nutrient utilization efficiency for better plant performance.
- Offers a holistic approach to plant growth, addressing root development, stem elongation, leaf formation, and nutrient optimization.

Key points to design your business plan

For Manufacturers:

Turbocrop technology supports higher yields and sustainable farming. Production requires a license from the provider and reliable raw material sourcing. Key clients include distributors, development projects, governments, and NGOs. Success depends on strong wholesale distribution partnerships.

For Users:

Turbocrop offers a safer, eco-friendly alternative to traditional farming. It is priced at USD10–20 per hectare and available from South Africa, so factor in delivery and import costs. Collaborating with development institutes and agri-service providers can improve access and impact.

Inclusion assessment



Climate impact



Turbocrop

<https://taat.africa/tvh>

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