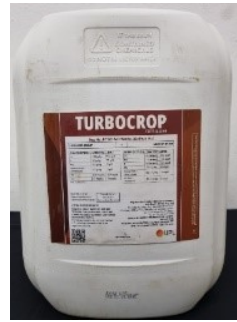


Turbocrop Field crop plant establishment biostimulant

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 Ltd.
Florent Clair

Commodities

Wheat, Maize, Groundnut, Common bean,
Other commodity

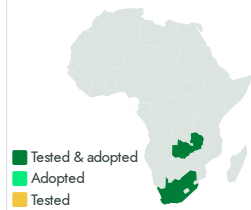
Sustainable Development Goals



Categories

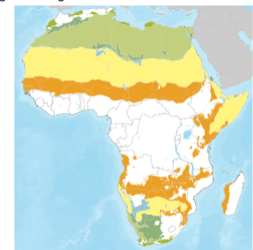
Production, Inputs, Fertilizer

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 **pre-validated**.

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:

- Producing Turbocrop technology addresses the urgent need for improved crop yields, nutrient absorption, and sustainable agriculture.
- Collaboration with the technology provider is necessary to secure the required license for production.
- Identifying reliable suppliers for raw materials is crucial for efficient production.
- The potential customer base includes wholesale distributors, development projects, government agencies, and NGOs.
- Forming strong partnerships with wholesale distributor networks is vital for business success.

For Users:

- Using this technology offers a safer and more environmentally sustainable alternative to traditional farming practices.
- Consider delivery expenses and possible import duties, as the technology is available in South Africa.
- The technology is priced at 10-20 USD per hectare for cost estimation.
- Engaging in partnerships with agricultural development institutes, fertilizer suppliers, and agricultural service companies can enhance outcomes and facilitate distribution.

Gender assessment

Climate impact



Turbocrop

<https://e-catalogs.taatafrica.org/com/technologies/turbocrop-field-crop-plant-establishment-biostimulant>

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