Motorized Planter and Fertilizer Applicator (Sénékéla): Mechanized Tillers, Planters and Fertilizer Applicators

Make farming easier with planting and fertilizing machines

The motorized planter and fertilizer micro-dose applicator, known as "Sénékéla", provides precise and fast placement of seeds and mineral inputs on prepared soils or ridges. This technology is designed to reduce the workload for millet and sorghum producers.

Sénékéla planter and micro-dose fertilizer applicator

ICRISAT
INTERNATIONAL CROPS RESEARCH
INSTITUTE FOR THE SEMI-ARID TROPICS

International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
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This technology is **TAAT1 validated**.

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

Gender assessment 👍 4

Climate impact 👍 5

Problem

- Preparing the land, planting seeds and adding fertilizer by hand are too hard for farmers.
- It's take a lot of time to do and farmers spend much of money on animals or services to help

Solution

- Mechanizing farm activities to reduce the physical strain on farmers and lower the costs associated with maintaining animals or hiring services.
- It enables timely and efficient field operations, leading to increased crop productivity and higher profits.

Key points to design your project

The adoption of Mechanized Tillers, Planters, and Fertilizer Applicators offers a promising solution to enhance agricultural efficiency and reduce labor-intensive tasks. To integrate this technology, consider:

- Building public-private partnerships, demonstrating benefits to farmers,
- Providing training and technical support, linking to credit facilities,
- Evaluating equipment needs and costs and collaborating with agricultural institutes or fleet managers for implementation.

1000 USD
Unit of Sénékéla

💡 IP
Open source / open access

Technology from

ProPAS

Commodities

Sorghum/Millet

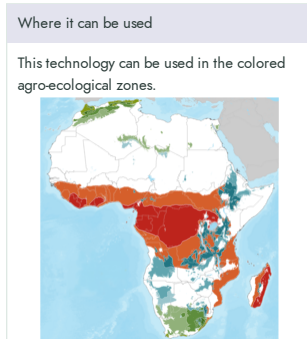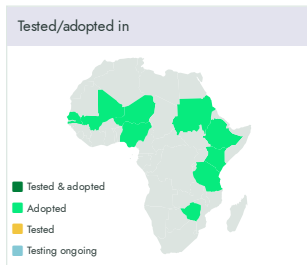**Sustainable Development Goals**

2 ZERO HUNGER

8 DECENT WORK AND ECONOMIC GROWTH

Categories

Production, Equipment, Land preparation

Best used with

- Precision Fertilizer Micro-Dosing for Millet and Sorghum Yield Enhancement ›

Tested/adopted in

- Tested & adopted
- Adopted
- Tested
- Testing ongoing

Where it can be used

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