28 November 2022

Innovations Session N°11

 \bigcirc

INNOVATIONS **SERIES**

Promoting circular economy and reducing food losses and waste: **Successes by SMEs and entrepreneurs**







1.2 Billion



Agricultural Waste



Uganda. small holder farmers. cultivated

acre per season

• Facts about banana production in

- Top 10 Global producers of banana
- 75% of all farmers grow bananas, mostly
- About 1.8 million hectares of total land

- Approx. 30 tones of waste generated per

Plastic Pollution





<3% Recycling Rate

Biodegradable Packaging





40-50% More Expensive



\$0.14

per piece in Uganda





What we do

203875 2 2261

30480 KG 69197LB 2366 KG 5,161 LB



USDA

United States Department of Agriculture



Current Product Line

- Disposable Party Plates
- Fruit & Vegetable Trays

- Flexible Starch Inputs e.g. Cassava, Potato, Wheat
- Plant fiber sources e.g. sugarcane bagasse, banana

pseudo stem fiber, wheat bran.

• 100% home compostable product.





\$500 Million Opportunity (East Africa)

FcFr

• Fast food and retail sector

Fruit export sector







Cassava Starch

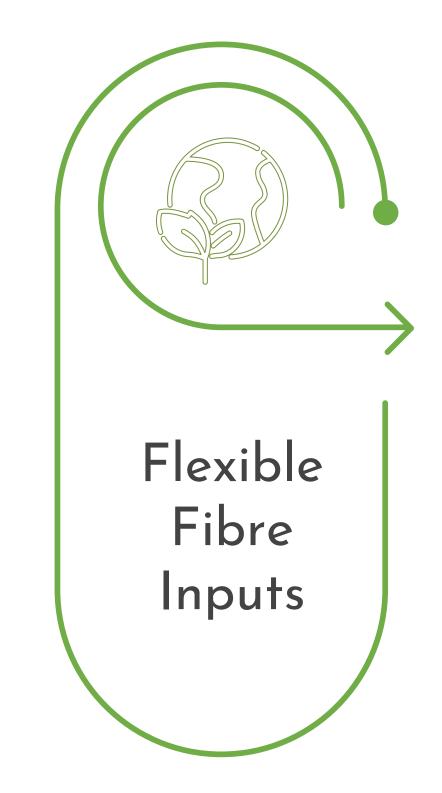
Banana Stems

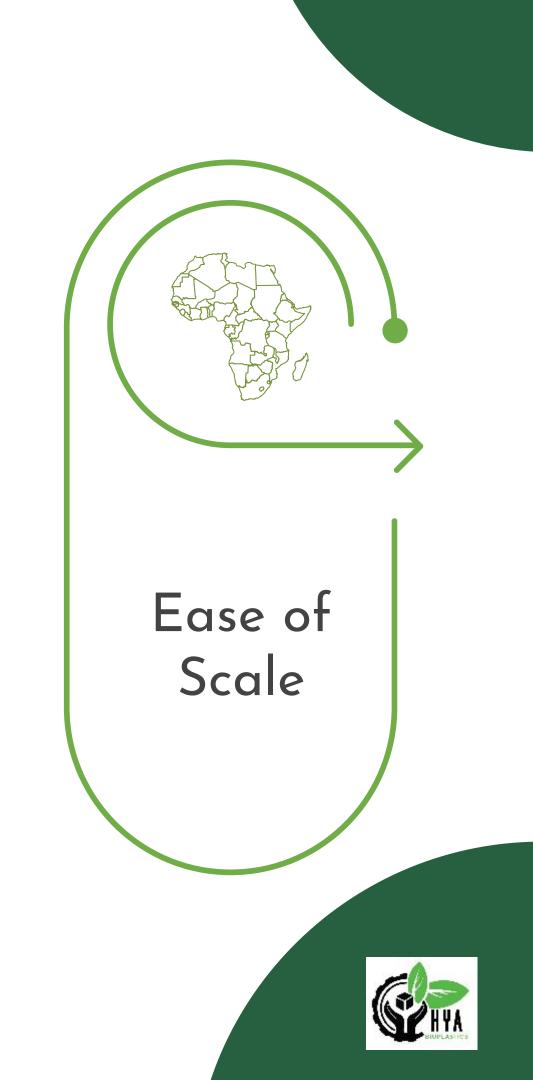
\$0.06* Per piece

Hya Packaging









Impact

Impact

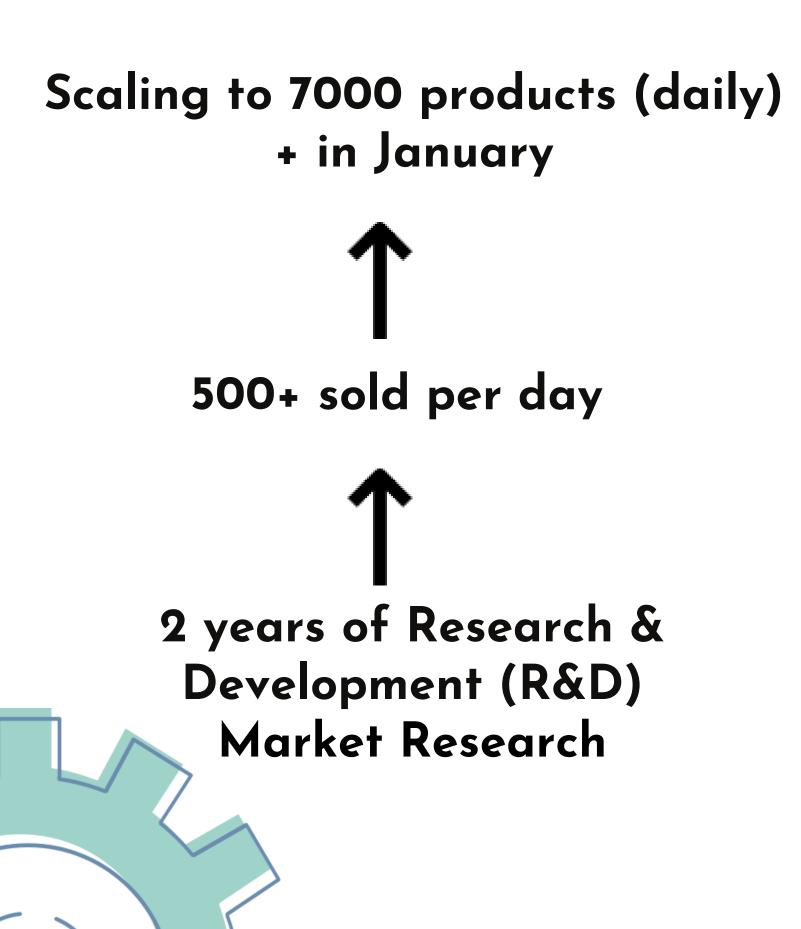
- Additional revenue stream for farmers through sourcing their fiber waste.
- 1:1 cost competitive replacement for Styrofoam based plastic.
- Short supply chain creating new jobs in the waste industry.

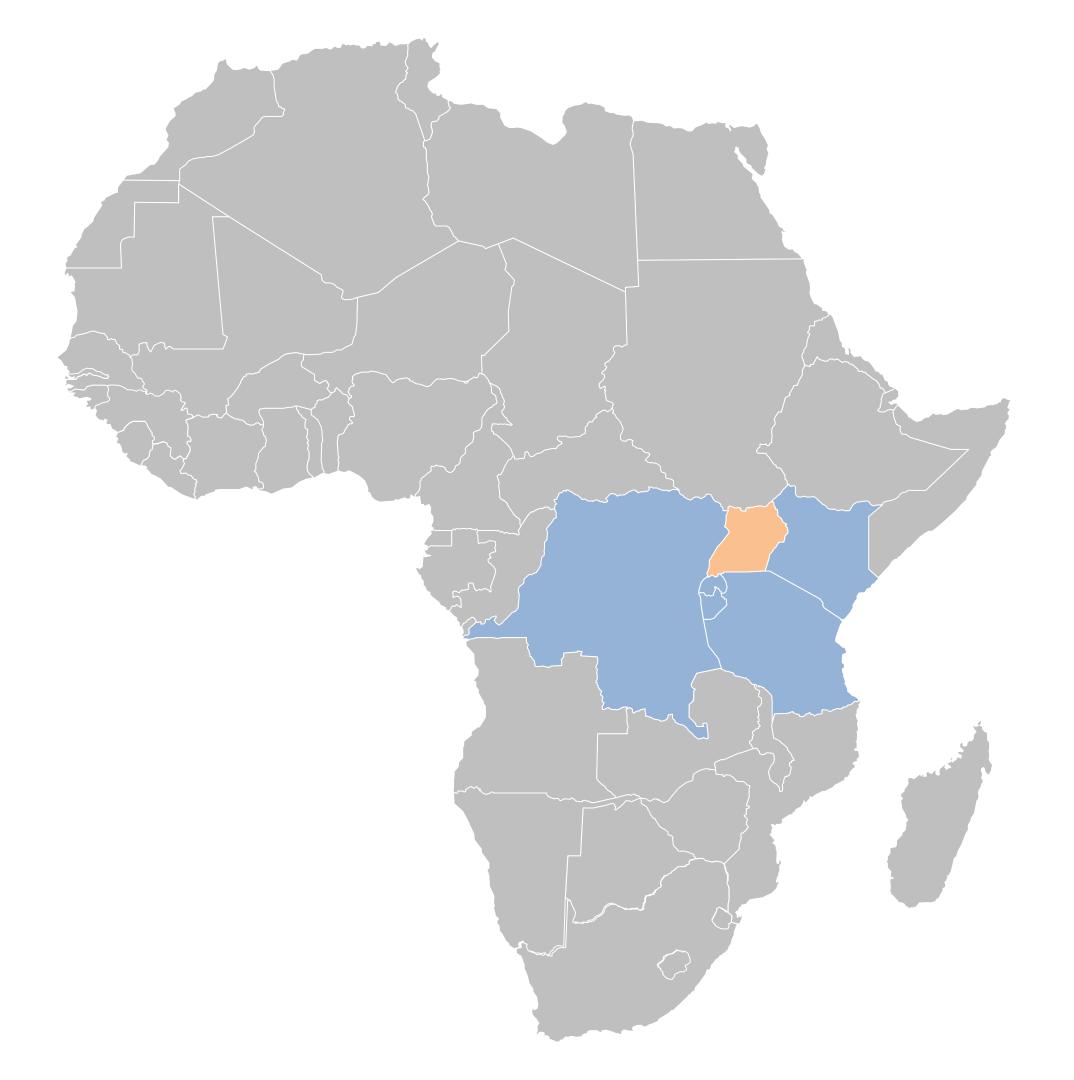
Links to small holder farmers

- Purchase discarded pseudo stems from banana farmers.(\$2 per stem)
- Provide an additional revenue stream.

What next for us?

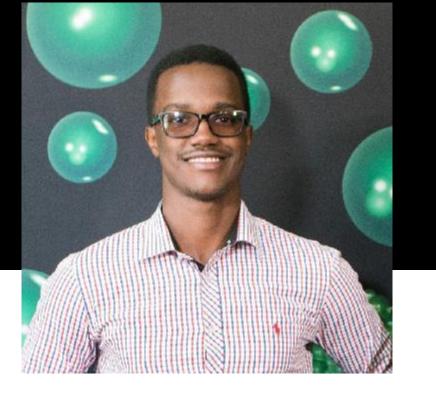






- Pilot partnerships : Pilot our containerized manufacturing units in • different geographical locations
- Market partnerships : Fruit exporters who want to switch from • Styrofoam trays to biodegradable packaging.
- Grant opportunities: Co-application for grants to pilot our technology in •

new area.







Musinguzi Mark

Team Lead,

•

- Mechanical Engineer
- FMR. RESEARCH
 - ASSISTANT, USDA

Kwizera Pike

Head of Sales

•

- Design Consultant,
 - MOTIV

Musumba Emmanuel

- Head of Product
 - Design

•

•

- Design Consultant,
 - MOTIV



Ssekimpi Dennis

- Head of Operations &
 Finances
 - Msc. Civil& Environmental

Engineering

•



hyabioplastics.com









10-



The PAFO-COLEACP Innovations Series focuses on innovations and successes of African farmerled businesses and SMEs. These activities are supported by the Fit For Market SPS programme, implemented by COLEACP within the Framework of Development Cooperation between the Organisation of African, Caribbean and Pacific States (OACPS) and the European Union.





Thank you