28 November 2022

Innovations Session N°11

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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

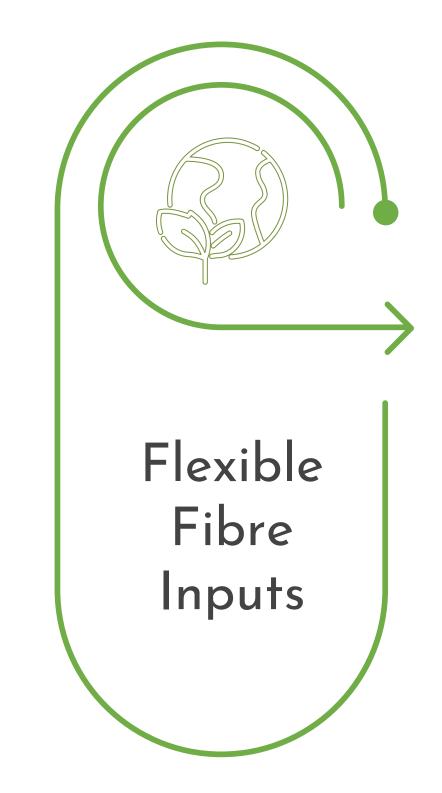
Banana Stems

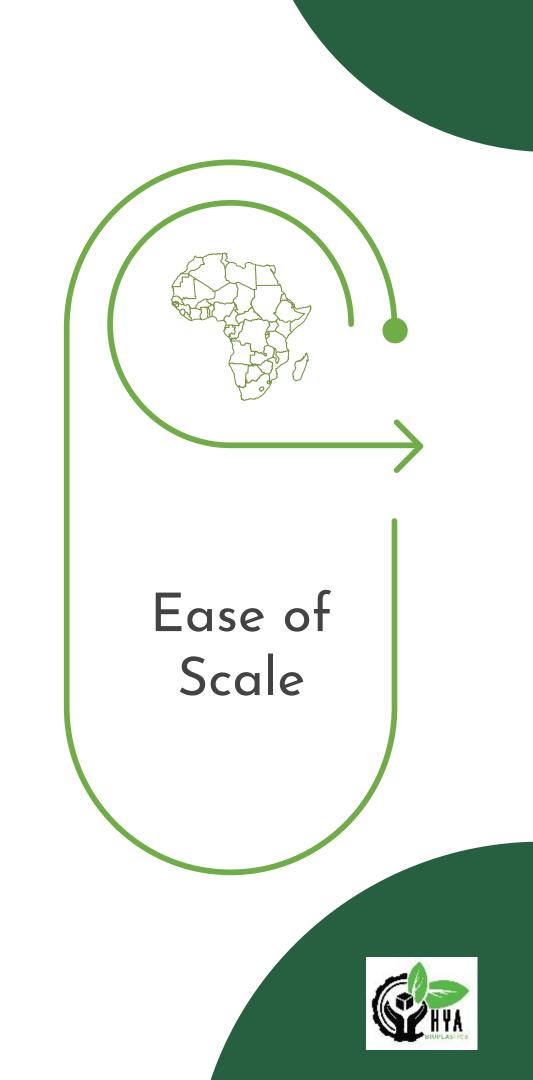
\$0.06* Per piece

Hya Packaging









Impact

Impact

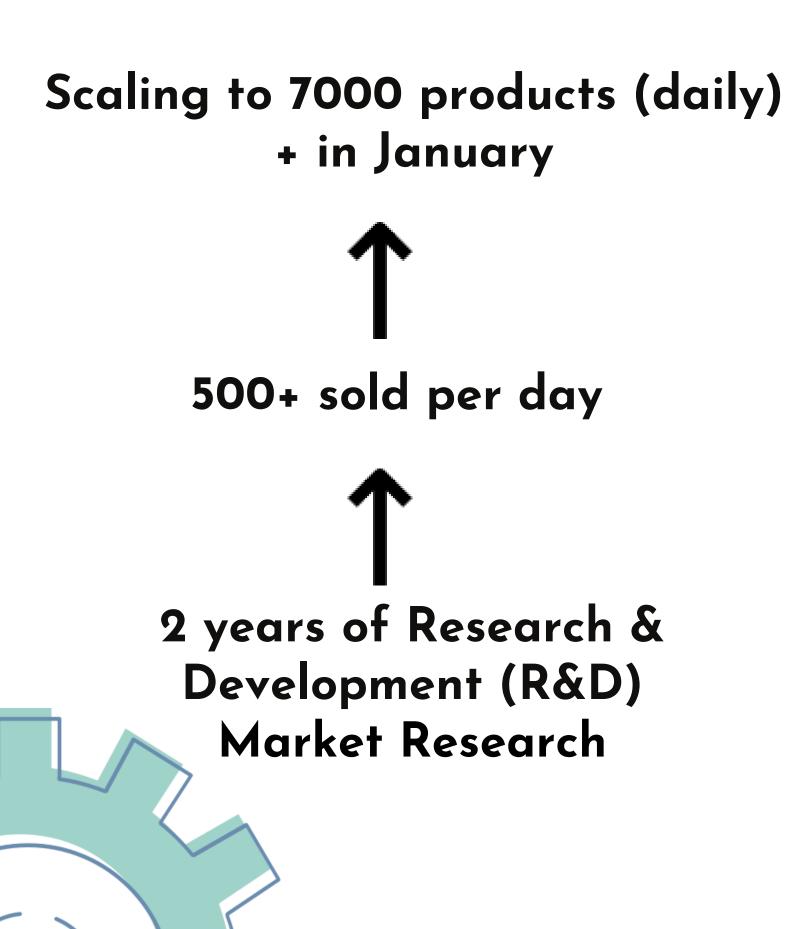
- Additional revenue stream for farmers through sourcing their fiber waste.
- 1:1 cost competitive replacement for Styrofoam based plastic.
- Short supply chain creating new jobs in the waste industry.

Links to small holder farmers

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

What next for us?

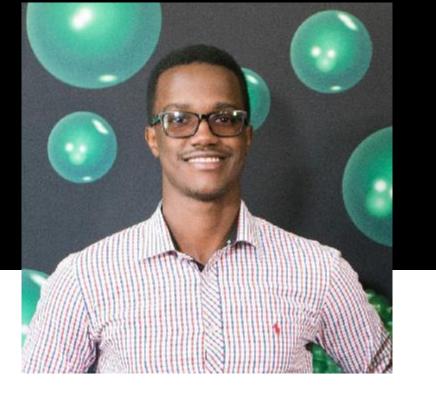






- Pilot partnerships : Pilot our containerized manufacturing units in • different geographical locations
- Market partnerships : Fruit exporters who want to switch from • Styrofoam trays to biodegradable packaging.
- Grant opportunities: Co-application for grants to pilot our technology in •

new area.







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Team Lead,

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- FMR. RESEARCH
 - ASSISTANT, USDA

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Head of Sales

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- Design Consultant,
 - MOTIV

Musumba Emmanuel

- Head of Product
 - Design

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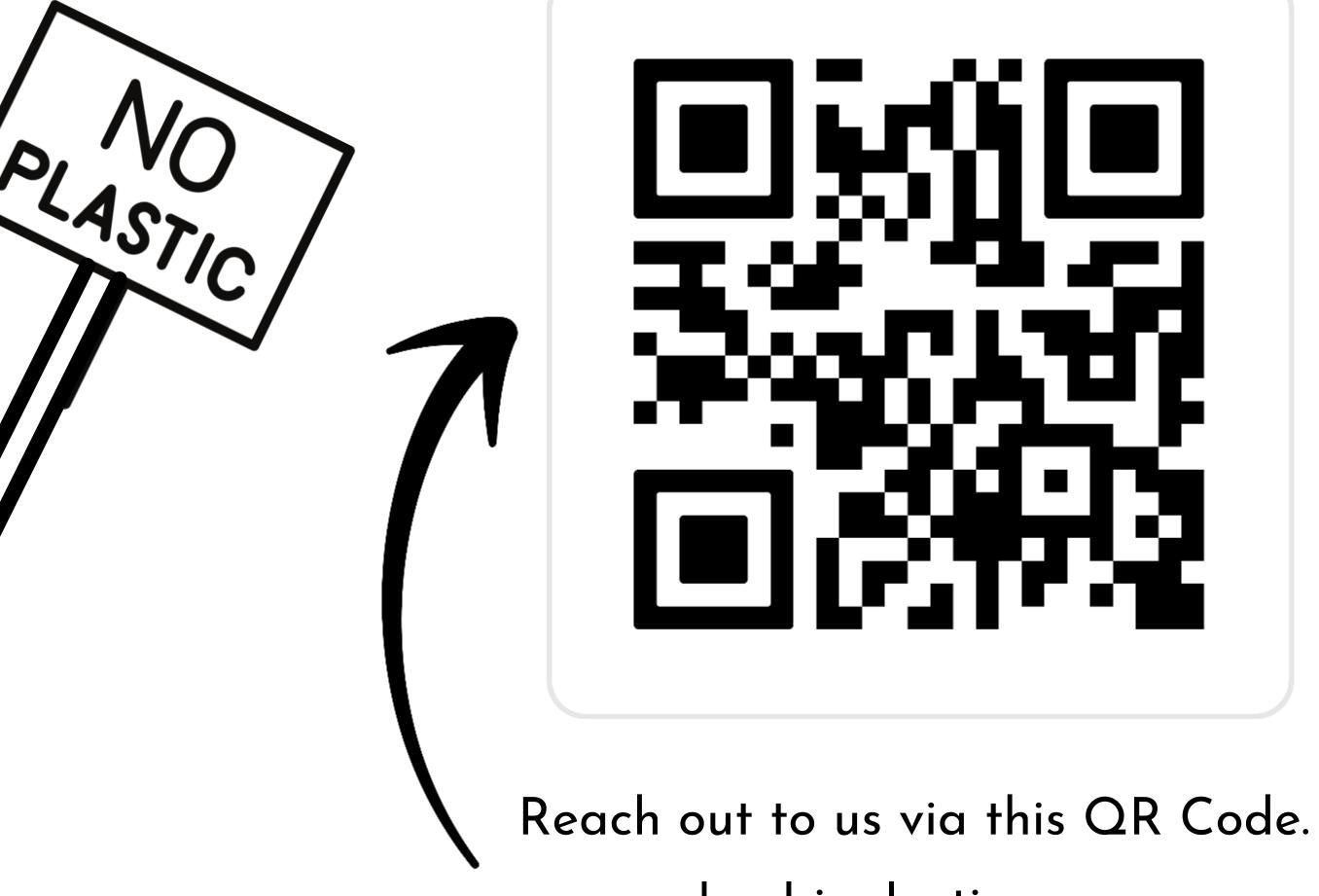


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hyabioplastics.com









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Thank you