10 May 2023



INNOVATIONS SERIES





NGWALA INVENTIONS





Making organic farming more profitable to African farmers

MISSION AND VISION

Mission:

To become regional producer and distribute the leading tor of organic pesticides and fertilizer through an innovative digital deliver systems that support rural farmers

Vision:

Organic agriculture in Africa is costeffective and sustainable –facilitating agricultural solutions to hunger, poverty, climate, environment and health



PROBLEM

• Highly variable international prices, and poor infrastructure adds to pesticides & fertilizer, distribution, and marketing costs. In Developing Countries 1 ton is sold at \$1028, compared with \$427 in the United States (FAO 2022) leading to high crop production cost and loss of potential yields by 50%.



■ But even if the expensive chemical pesticides and fertilizer are used leads to chemical exposure of pesticides & fertilizer directly or through poor disposed empty pesticides containers leading to 385 Million acute poisoning and 200,000 annual deaths globally (UNEP,2021)



SOLUTION / PRODUCT

Solar Powered Mobile Money Digital Organic Pesticides and Fertilizer Dispensing System

- Easy access for local farmers
- Access to credit via mobile payment
- Farmers pay for exact quantities and refill containers for <u>zero waste</u>
- Mobile App allows farmers to track expenditures, quantities, and impact
- Scan the crop and determine the pest and disease
- Scan the soil to determine the nutrients deficiency
- Allow farmers to charge their mobile phones on farm



CUSTOMERS

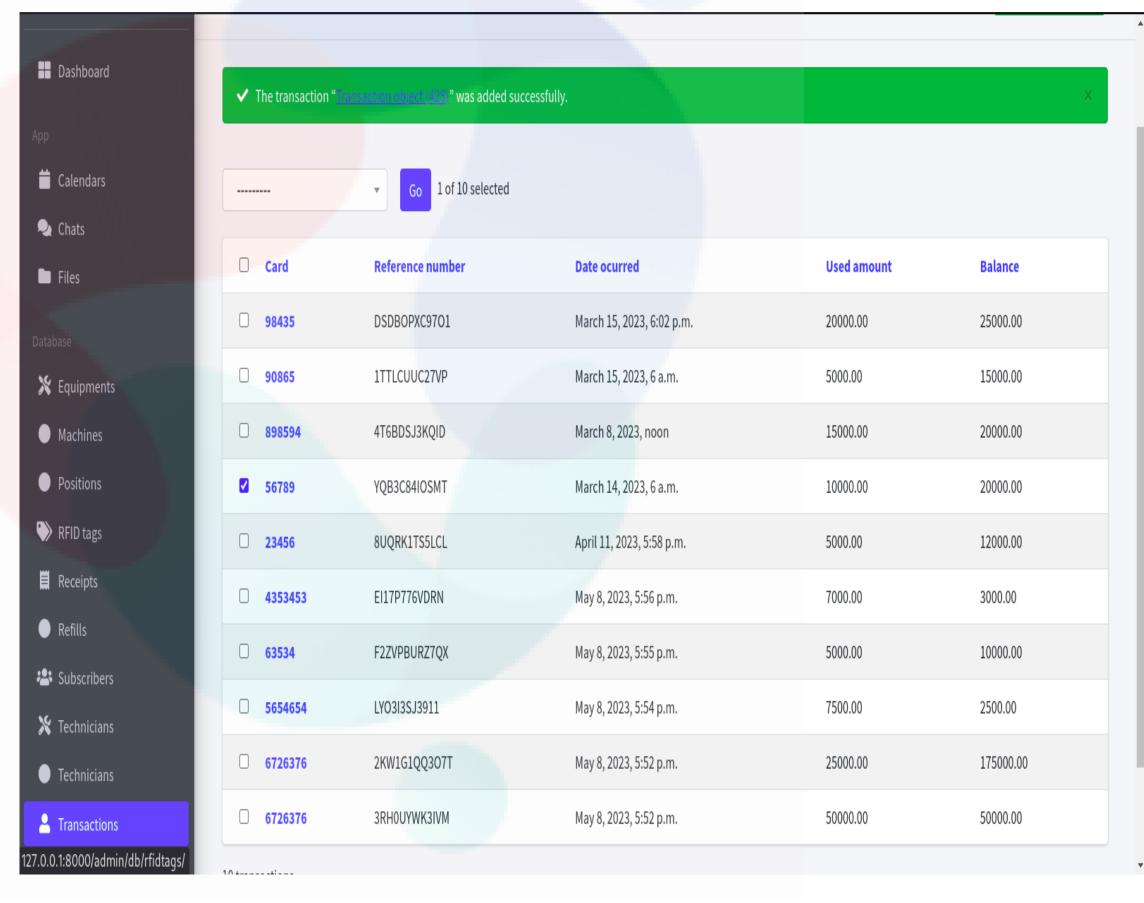
Smallholder farmers aged 18 to 50 years living in rural Africa



BUSINESS MODEL

 BC = Sell 7USD per litre directly to small holder farmers which is 2 USD less than competitors

■ BB = Collects 10% commission per litre of organic pesticides and fertilizer



ACHIEVEMENT

- Working with 200,000 + smallholder farmers
- Made average monthly revenue of \$10,000
- Operating in East Africa (Tanzania and Rwanda)
- Partnership with UNDP currently
- Created more than 120 employment
- Awards from:- Conservation Finance Alliance, Milken Motsepe Foundation,
 Ministry of Foreign Affair in Egypt collaborated with UNFCCC, World Bank

THANK YOU FOR LISTENING





