







CONTEXT

250 Million Tons Of Bagasse Produced Worldwide

Little To No Use Of Fertilizers By Farmers

Ghana produces only **64%** of required sugarcane raw harvest for its sugar processing factories, which have collapsed.

750,000 tons of bagasse produced in Ghana

2,400 kg Of CO2 emitted per hectare of cultivated sugarcane.

THE PROBLE

Deteriorating Environmental Conditions

Poor Air & Water
Quality in Farming
Communities.
Poor Soil Health &
Fertility due to
Improper
Application of
Inorganic Fertilizers

Low Standard of Living for Sugarcane Farmers

streams from
sugarcane supply and
demand.
Lack and Absence of
systemic
communication
channels between
farmers and the
market stakeholders

Low Accessibility of Needed Fertilizers

Inadequate number of licensed fertilizer agents.

Relatively expensive imported fertilizer deters farmers, as there are no locally made alternatives



LOW CROP YIELD

WHY?

Low Access To Fertilizer



CATERING FOR THE NEEDS OF



700 Fertilizer Agents

200,000 rural sugarcane farmers

VALUABLE RESOURCE LOST

BAGASSE BEING BURNT IN BULK

A LINEAR ECONOMY CREATING WASTE AND CAUSING GHG EMISSIONS



INACCESSIBLE MARKET

WHY?

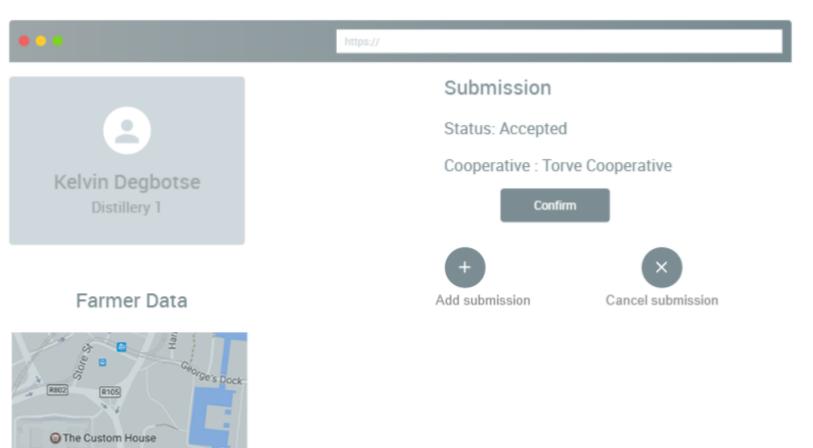
 Poorly Structured Communication Lines Between Farmers and Stakeholders in the Market

PROPOSED SOLUTION

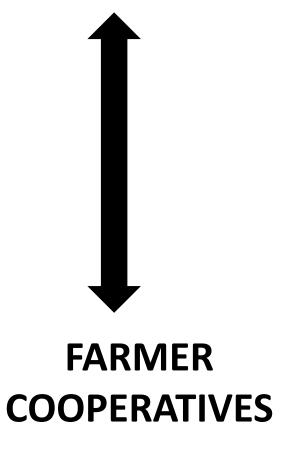
 An effective web platform that connects farmer cooperatives with market retail and wholesale agents.

RESCUING FOOD...

SOLVING POST-HARVEST LOSS, AN INTEGRAL PART OF THE CIRCULAR ECONOMIC MODEL



MARKET





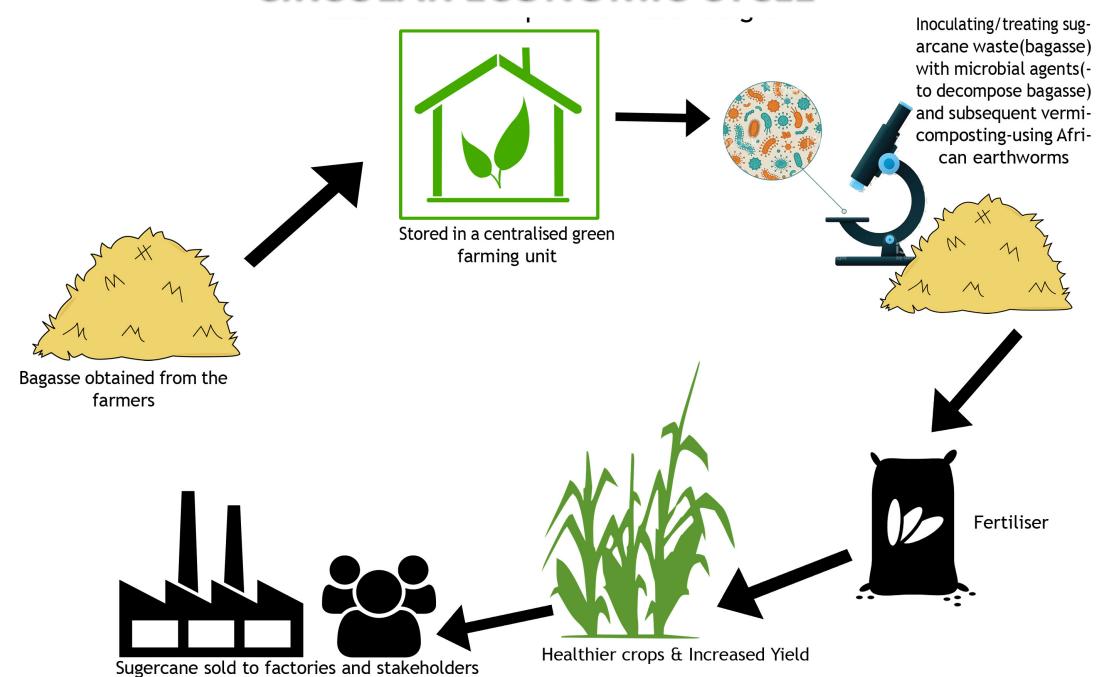
An Interactive Web Communications Platform

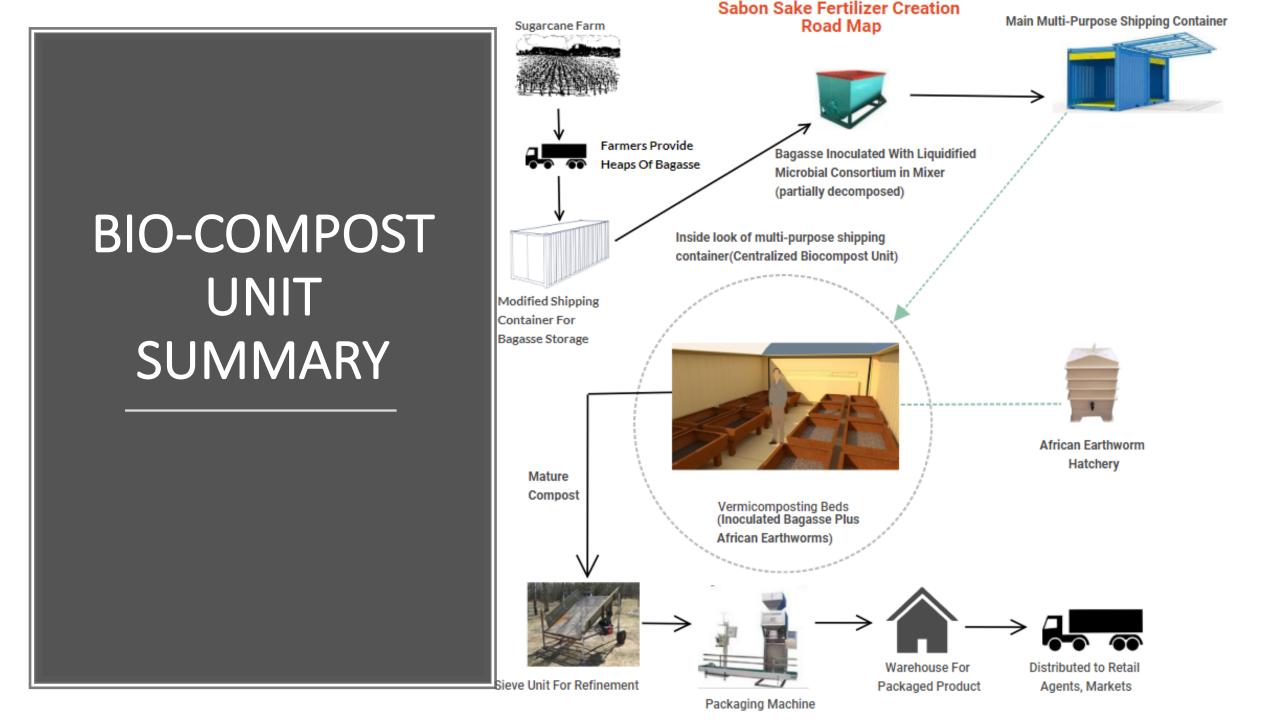
that tracks distillery requests, farmer cooperatives' status, and harvest statistics to facilitate effective and important connections among its users.

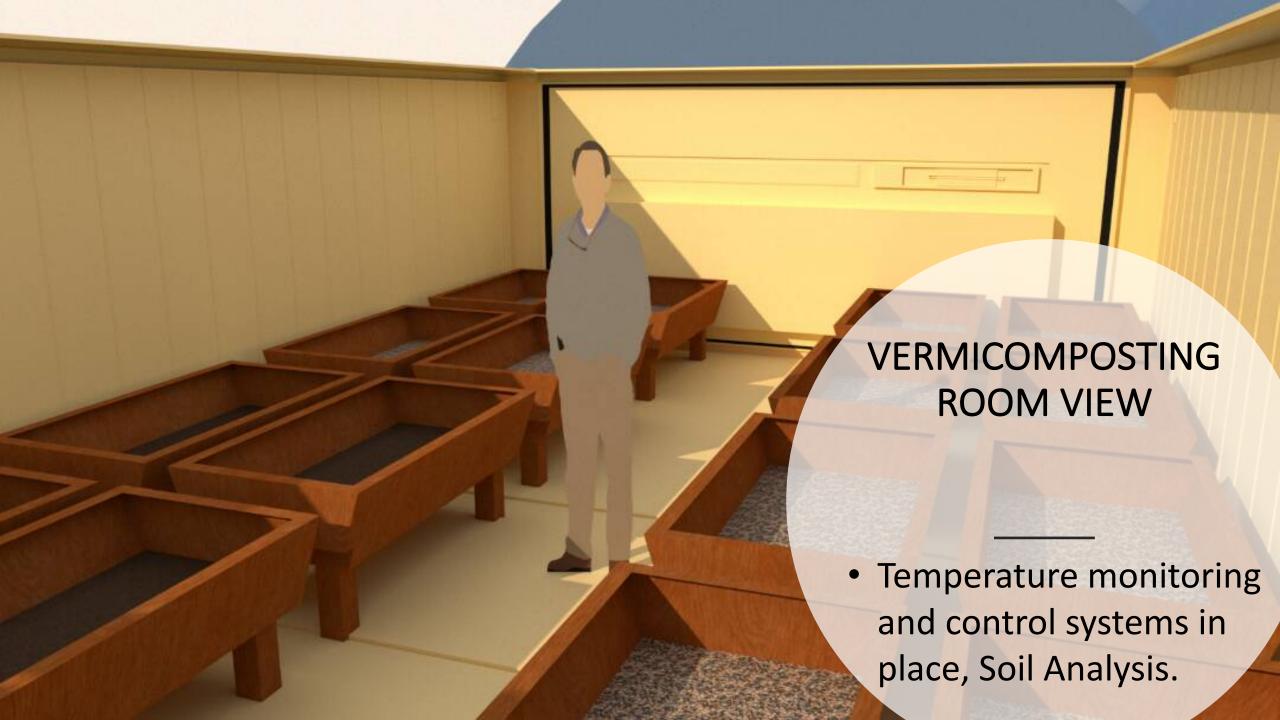


100% waste conversion to value, creating a more circular economy

CIRCULAR ECONOMIC CYCLE





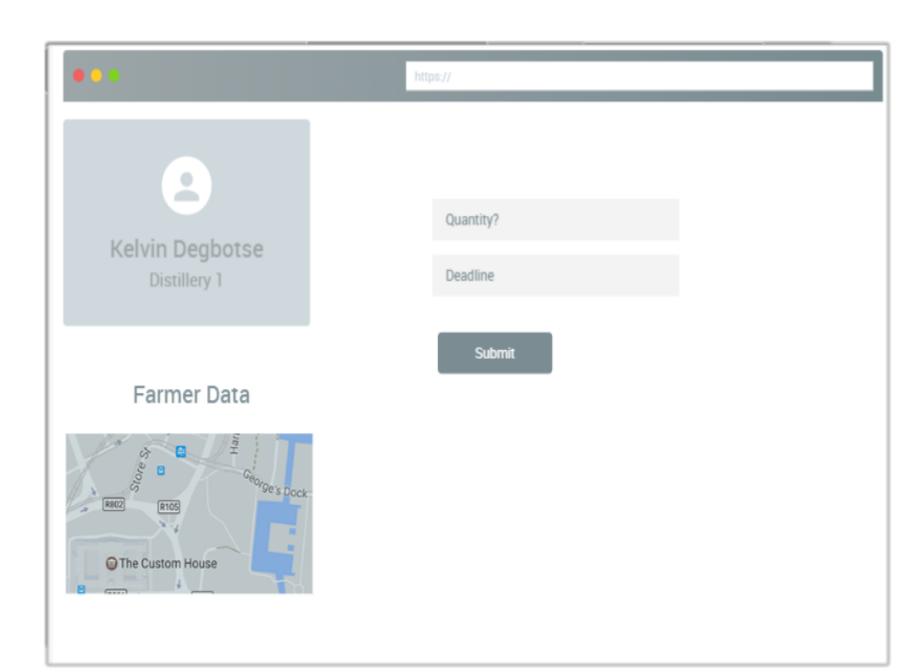


PROGRE SS SECURED LAND FOR OUR PILOT PROJECT FOR PROTOTYPE UNIT

3750 TONS OF BAGASSE ASSURED BY TORVE FARMERS' COOPERATIVE

CONCRETE AND PRODUCTIVE RELATIONSHIPS WITH SOIL RESEARCH PARTNERS & DISTILLERIES

System User Architectural Interface Overview





MATERIAL ANALYSIS

RETROFITTED
MULTI-PURPOSE
SHIPPING CONTAINER

WOODEN VERMICOMPOSTING BEDS





BAGASSE





MICROBIAL CONSORTIUM

ECO-FRIENDLY PACKAGING BAGS

(eco-friendly woven polypropylene packaging bags)



ECONOMIC ANALYSIS

\$154 per batch of MICROBIAL CONSORTIUM

Sellingyeat Propagted to use as inoculants for

15% lower than current (as incentivised strategy for prevention of more market standard for

imported fertilizer rogram For Fertilizer Productions Takes Faster Revenue Streams

\$5,855 as fixed expenses in start-up year on machinery & land Projected revenue of \$687,000 from sale of approx. 27,500 bags/yr

THE TEAM



OPUNABO ELI



AUDREY S-DARKO



EMMANUEL ASAMOAH



SASHA OFORI



KELVIN DEGBOTSE

Partners & Advisors

Climate innovation Center Ghana





OUR PARTNERS









MINISTRY OF BUSINESS DEVELOPMENT



