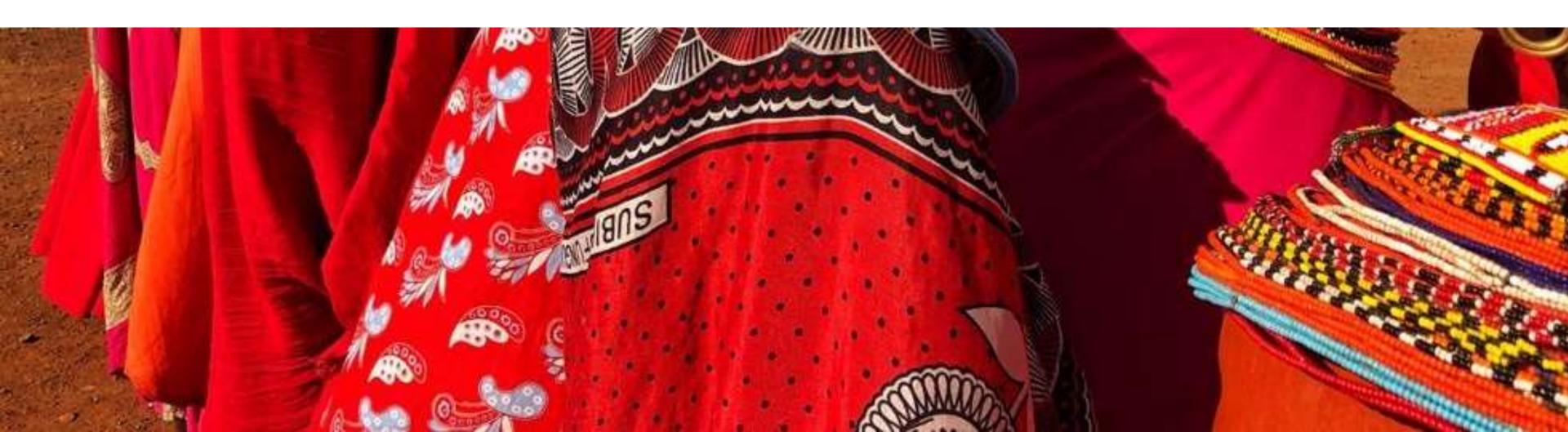
## PROJECT BARIDI

Solar powered cooling in East Africa's Livestock value chain



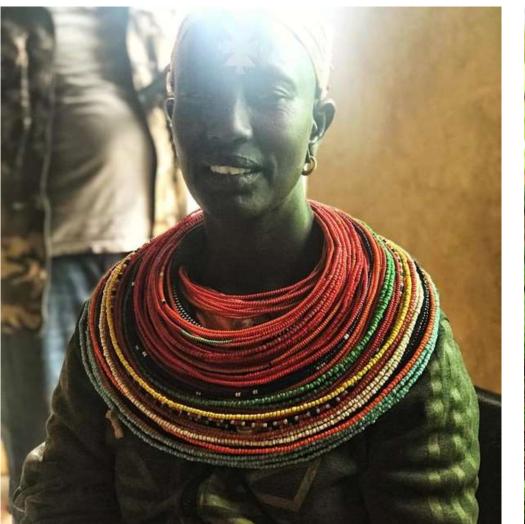


Maasa



Mara









### Neglected Livestock Value-Chain across East Africa

- 42% of Livelihoods in Kenya rely on pastoralism
- 30% post-slaughter meat loss is felt economically







## Prototype

- 1kWp PV nano-grid
- Connects 16 rural consumers to off-grid electrification





# VISION

Service 200,000 African consumers within the next 7 years with over 5MW worth of solar energy capacity

Biggest Learning 2019

# Extremely Low Return on Investment

PAY-BACK PERIODS OF 20-25 YEARS IS <u>NOT</u>
VIABLE TO A LOCAL STARTUP...



## PASTORALIST 320,000 MT produced per year



## PROJECT BARIDI











END-231,200 MT gone umed per year

# Solar powered Chillers







5kWp Stand-alone PV

20ft Cold Store Facility

Livestock value-chain

### COMMERCIAL CONSUMERS







#### **Urban Meat Vendors**

Nairobi Case Study Site: BURMA MARKET

### **Trade Volume**

2400 carcasses per week with an average of 100kg per beast.

## **Economic Impact**

30% of meat rot avoided Annual equivalent of Ksh. 83m

# RISKY DECISION...



**UNEXPLORED MARKET: LIVESTOCK VALUE-CHAIN** 



HIGH CAPEX - EUR 50,000 per unit



COMPLEXITY OF SOLAR & THERMAL ENGINEERING

# REVENUE







10ksh/kg per day [strictly MPesa]

800kg capacityx10ksh

8,000ksh daily revenue

Ksh. 2.9m Annual Gross

2.3 yrs Break Even [CAPEX ÷/ revenue]



## MEET THE TEAM



TRACY KIMATHI Lead Developer



HILLARY CHESEBE Lead Engineer

TBA Finance Manager



ALISTAIR MURRAY
Board Advisor

### PROJECT PARTNERS

**Legal Associate Partner** 

TLO LAW ASSOCIATES



**Consumer Engagement Partner** 

WINGS OF EMPOWERING PASTORALISTS (Ke)



**Solar Engineering Partner** 

**KNIGHTS ENERGY** 



**Cooling Engineering Partner** 

ACCENT COOLING



**Developing Partner** 

TREE\_SEA.MALS



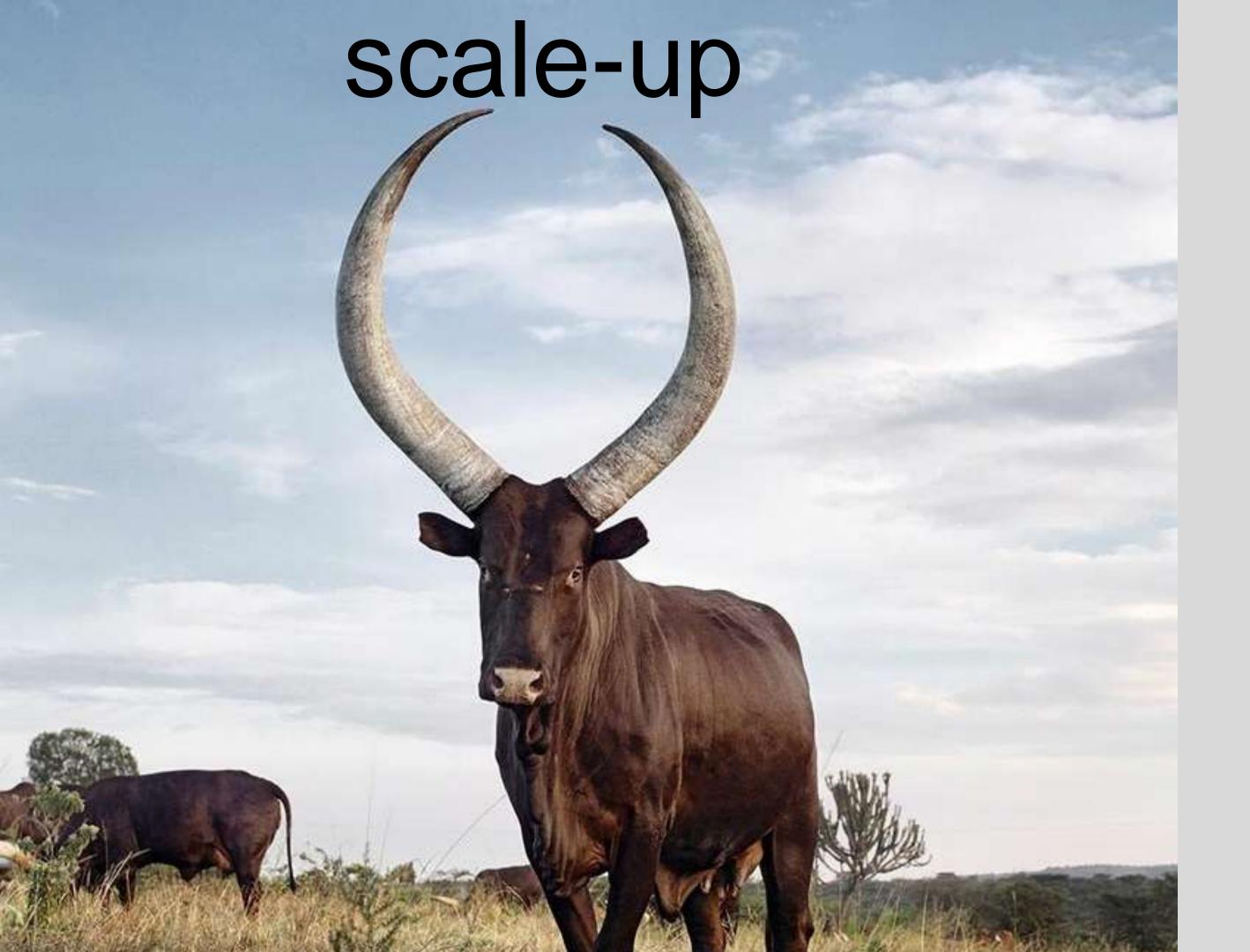
**Scale-Up & Replication Partner** 

VIENGA



## funds raised

Project Baridi has engaged a € 295,000 seed round from 5 local & international investor groups each in varying post-conceptual stages





UNIT 1: JULY 2021 Urban meat market Burma, Narobi

UNIT 2: APR 2022 Urban meat market Kiamaiko , Nairobi

UNIT 3: DEC 2022 Peri-Urban meat market Kiserian , Kajiado

### PROJECT BARIDI

#### SHEEP & GOATS



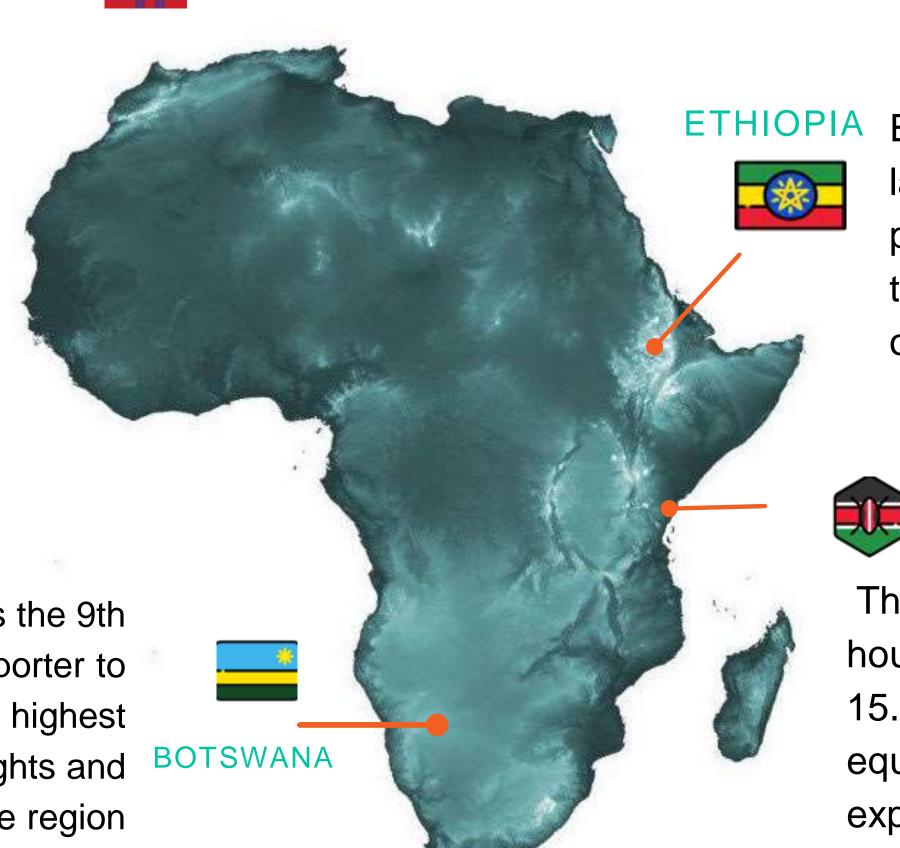
CATTLE



**CHICKEN** 



Botswana is the 9th largest beef exporter to the EU with the highest carcass weights and quality within the region

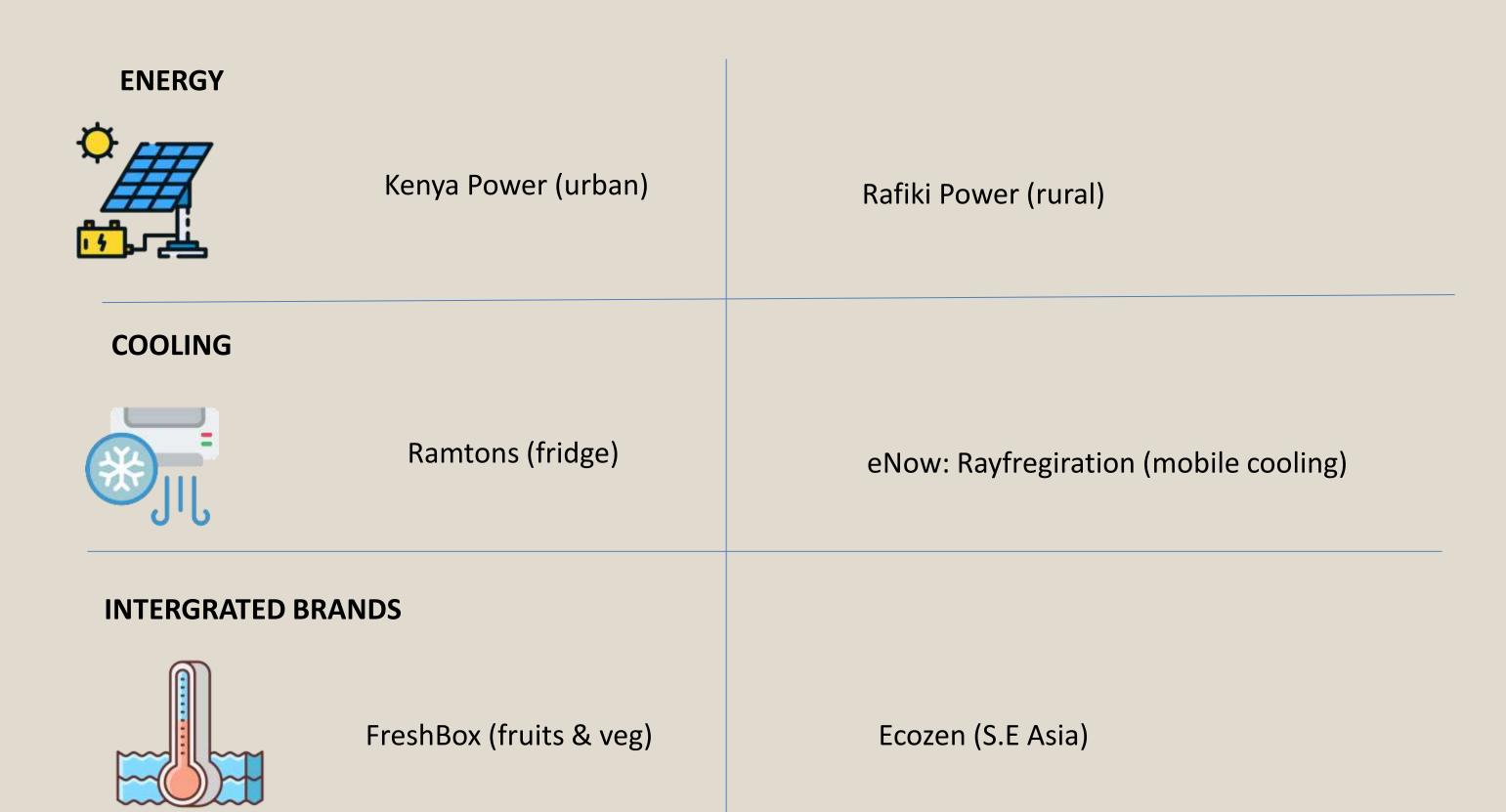


Ethiopia is the 10th largest livestock producer Globally and the Biggest exporter of Beef in Africa

### KENYA

The average Kenyan household consumes 15.81kg of beef per adult equivalent with an expenditure of Ksh. 17,784 annually

# Market Players



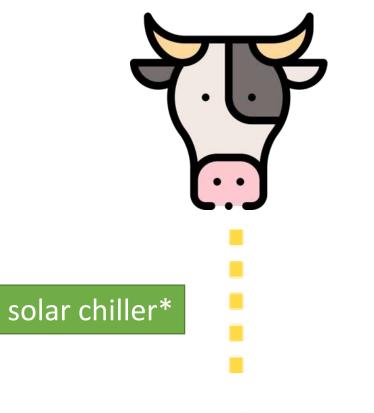


### Tree\_Sea.mals Ltd.

Solar powered Cold rooms

Tracy Kimathi, Founder

tracy@treeseamals.org



### **PASTORALIST**



#### **MEAT VENDOR**





**END-PLATE**