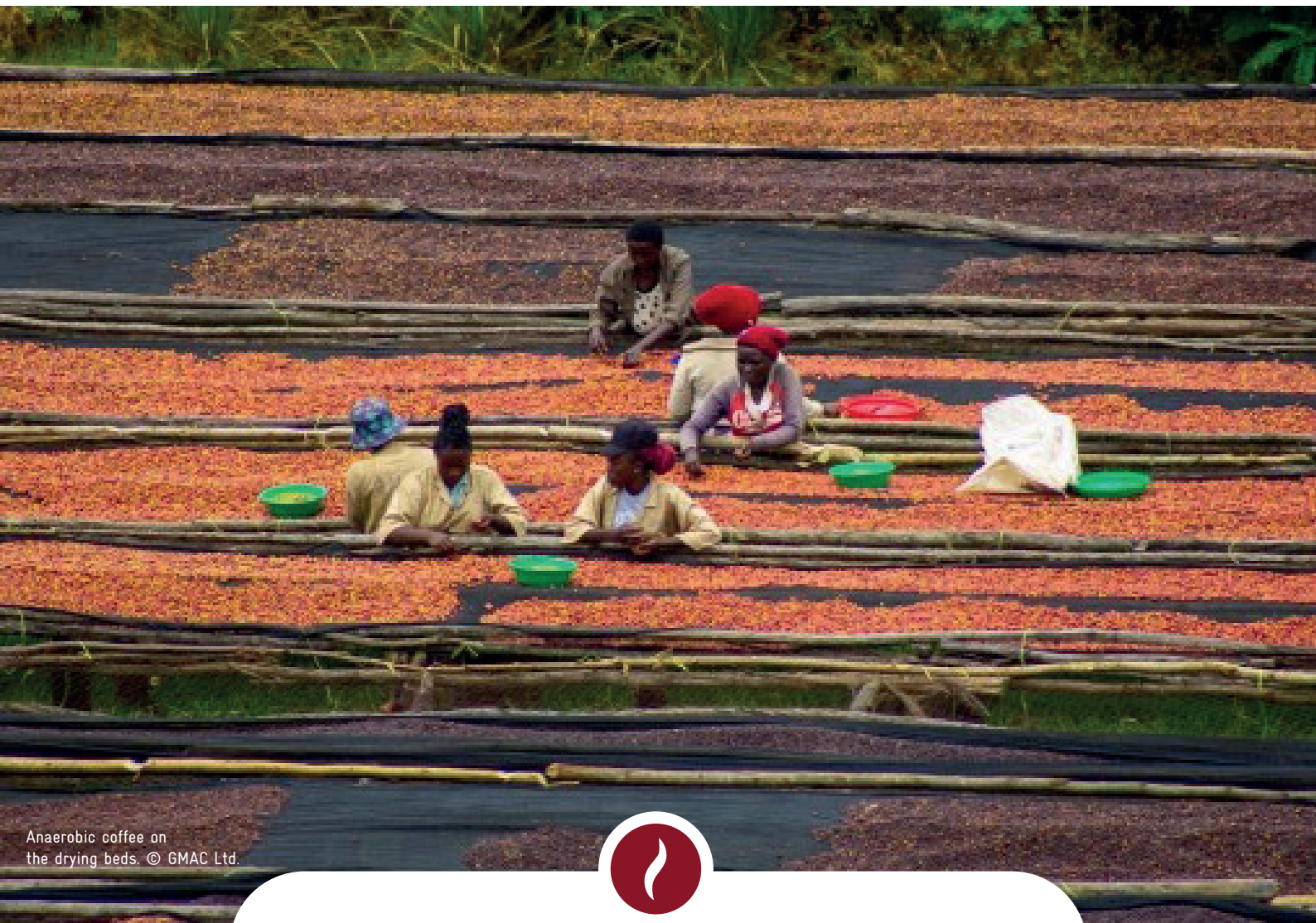


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Anaerobic coffee on
the drying beds. © GMAC Ltd.



COFFEE INNOVATION

Launch of Anaerobic and Carbonic Macerated Coffee

Reducing disposal of coffee pulps and
reducing water used to process washed coffee

🔥 CHALLENGE

Traditional coffee washing methods can impose a significant environmental cost, mainly due to high water usage and the creation of pulp waste. Farmers wish to produce higher quality coffee with better profit margins, but often lack knowledge of how to do so.

INNOVATION

Shifting from washed coffee to anaerobic carbonated maceration coffee can reduce coffee pulp waste and water usage, which promotes sustainable processing practices. This process also produces new high-quality coffee that can be sold at a premium, increasing revenue for farmers.

🔥 COMPANY DESCRIPTION

Green Mountain Arabica Coffee Ltd (GMAC) is the leading arabica production and processing company located in Rwanda.

KEY COMPANY STATS

NUMBER OF PRODUCER PARTNERS

1,200

NUMBER OF STAFF

11

🔥 COST

COSTS

Main investment is equipment and training

EFFECTS ON REVENUE

The coffee can now be sold at a premium, increasing revenue

🔥 PREPARATION

TIMELINE

Four to five months

MATERIALS AND EQUIPMENT

Fermentation tanks, drying tables, plastic sheeting, table nets, farm equipment and tubes

STAFFING REQUIREMENTS

60

🔥 LESSONS LEARNED

CHALLENGES

Picking ripe coffee becomes critical when using these processing techniques.

TAKEAWAYS

To save costs, an old building was used to house the new equipment, rather than building a new structure.

As a result of Anaerobic and Carbonic
Macerated Coffee with Green Mountain Arabica Coffee Ltd:



Drying process nearly complete for anaerobic coffee. © GMAC Ltd.



300 COFFEE FARMERS

were trained in more sustainable coffee processing procedures



35.5 METRIC TONS

of cherry pulps were not sent in the environment because of shifting from washed coffee to anaerobic carbonated maceration coffee



1,725 CUBIC METERS

of water were saved from being used in the process of washed coffee



A HIGHER COFFEE QUALITY

has been produced, allowing the product to be sold at higher prices and increasing farmer revenue



231,000 KG

of coffee was collected and 25 metric tonnes exportable green was produced

IMPLEMENTATION: GREEN MOUNTAIN ARABICA COFFEE LTD. (RWANDA)

STEP

1

Build a facility that can host processing equipment

STEP

2

Train people to conduct the processing and operate equipment at a professional processing facility

STEP

3

Train farmers on coffee cherry quality and harvesting

STEP

4

Establish payment terms with farmers



Training of farmers on Good Agricultural Practices. © GMAC Ltd.

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MISSION: The Fund's objective is to increase the profitability of smallholder coffee farmers, and foster greater, more equitable value distribution along the supply chain through promoting innovative farming systems, transparent and inclusive business models, and access to new markets.

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