

**MicrobeBio®**

**MICROBEBIO  
REGENERATIVE  
BIO-INDUSTRIES &  
FOOD SECURITY  
INNOVATION HUB**



# VISION

This facility is more than a factory.

It is a living biological engine that restores soil, strengthens crops, nourishes animals, regenerates water ecosystems, and helps Caribbean nations become food-secure, climate-resilient, and export competitive.

We are building the next generation of agriculture:

- Soil that heals itself.
- Farms that require fewer chemicals.
- Animals raised with natural immunity and vitality.
- Aquaculture systems that grow without antibiotics or toxic water conditions.
- Food systems that honor the Earth and the communities who cultivate it.



# PROJECT OVERVIEW

ITEM	DETAILS
<i>Facility Type</i>	Microbial Biomanufacturing + Probiotic Feed Labs + Aquatic Microbial Hatchery + Soil & Water Diagnostic Laboratory
<i>Location</i>	Dominican Republic (with regional satellite distribution nodes)
<i>Annual Output</i>	36 MT high-performance biological products
<i>CAPEX</i>	USD \$15,725,000 (MicrobeBio sole investor)
<i>Estimated Net Profit Potential</i>	\$12.9M – \$27.5M per year
<i>ROI</i>	38% – 175% over 10 years (scaled market expansion)
<i>Payback Period</i>	1.8 – 2.9 years





# EXPANDED PRODUCT ECOSYSTEM

## 1. Regenerative Crop Microbial Solutions

Increase yield, flavor, brix, color, oil content, storage life, and stress resistance.

PRODUCT	FUNCTION
<i>X-Series® Rhizosphere Growth Consortia</i>	Root biomass, nutrient uptake, drought resilience
<i>BioDefense Bacillus–Trichoderma</i>	Suppresses fungal & bacterial plant diseases
<i>NemaShield™</i>	Controls root-knot & lesion nematodes
<i>SnailSafe™</i>	Controls snails & soft-bodied pests
<i>AMF Mycorrhizae Granular Blend</i>	Increases carbon storage & nutrient cycling

## 2. Livestock & Poultry Probiotic Microbial Nutrition

For cattle, poultry, goats, sheep, and feedlot operations.

### PRODUCT

*MicrobeBio ProFeed™*

*RumiBoost™ (Cattle & Goat)*

*PoultryGuard™*

### FUNCTION

Enhances gut flora, digestion, feed conversion ratio (FCR)

Stabilizes rumen microbiome; reduces methane emissions

Reduces coccidiosis, salmonella, stress & mortality

### Outcomes:

- *Faster weight gain*
- *Lower feed costs*
- *Stronger immune response*
- *Reduced antibiotic dependency*

### 3. Aquatic Ecosystem & Aquaculture Microbial Systems

For shrimp, tilapia, catfish, pangasius, trout, and marine cage farms.

#### PRODUCT

#### FUNCTION

*AquaPure™ Water Clarity Consortia*

Removes ammonia, nitrite, sludge & toxic biofilms

*ShrimpShield™ Vibrio Control Blend*

Reduces EMS / EHP / bacterial outbreaks

*HatcheryLife™ Pen Culture Microbial Starter*

Builds healthy microbial foundation for fry & larvae

#### Outcomes:

- *Higher survival rates*
- *Faster growth cycles*
- *Clearer, oxygen-rich water*
- *Reduced pond crash events*

# MicrobeBio

## ENVIRONMENTAL IMPACT

- Reduces dependence on chemical fertilizers & antibiotics
- Restores soil organic carbon & water-holding capacity
- Prevents river and reef pollution from runoff
- Protects national agriculture from climate and disease shocks
- Supports resilient rural communities and family-owned farms



# 10-YEAR ROI PROJECTION

The expansion into livestock & aquaculture markets increases recurring revenue and stabilizes margins during seasonal crop cycles.

YEAR	ESTIMATED NET PROFIT (USD M)	ROI (%)
1	13.5	85.9%
5	19.5	124.0%
10	27.5	174.9%

## GROWTH DRIVERS:

*Multi-sector product adoption (farming + livestock + aquaculture)*

*Subscription-based supply programs*

*Export to Caribbean & Latin American farming belts*

## 10-YEAR ROI CURVE:

*Download the ROI Projection Graph*

THIS INITIATIVE POSITIONS THE DOMINICAN REPUBLIC AS A REGIONAL BIOMANUFACTURING AND REGENERATIVE AGRICULTURE LEADER, SUPPLYING:

- FARMERS
- RANCHERS
- AQUACULTURE COOPERATIVES
- EXPORT GROWERS
- SUSTAINABILITY & CLIMATE ADAPTATION PROGRAMS

IT IS NOT JUST A PROJECT — IT IS THE FOUNDATION OF A NEW AGRICULTURAL IDENTITY ROOTED IN HEALTH, DIGNITY, AND ENVIRONMENTAL RENEWAL.





**MicrobeBio<sup>®</sup>**

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