



BIOFERTILIZER

September 2022



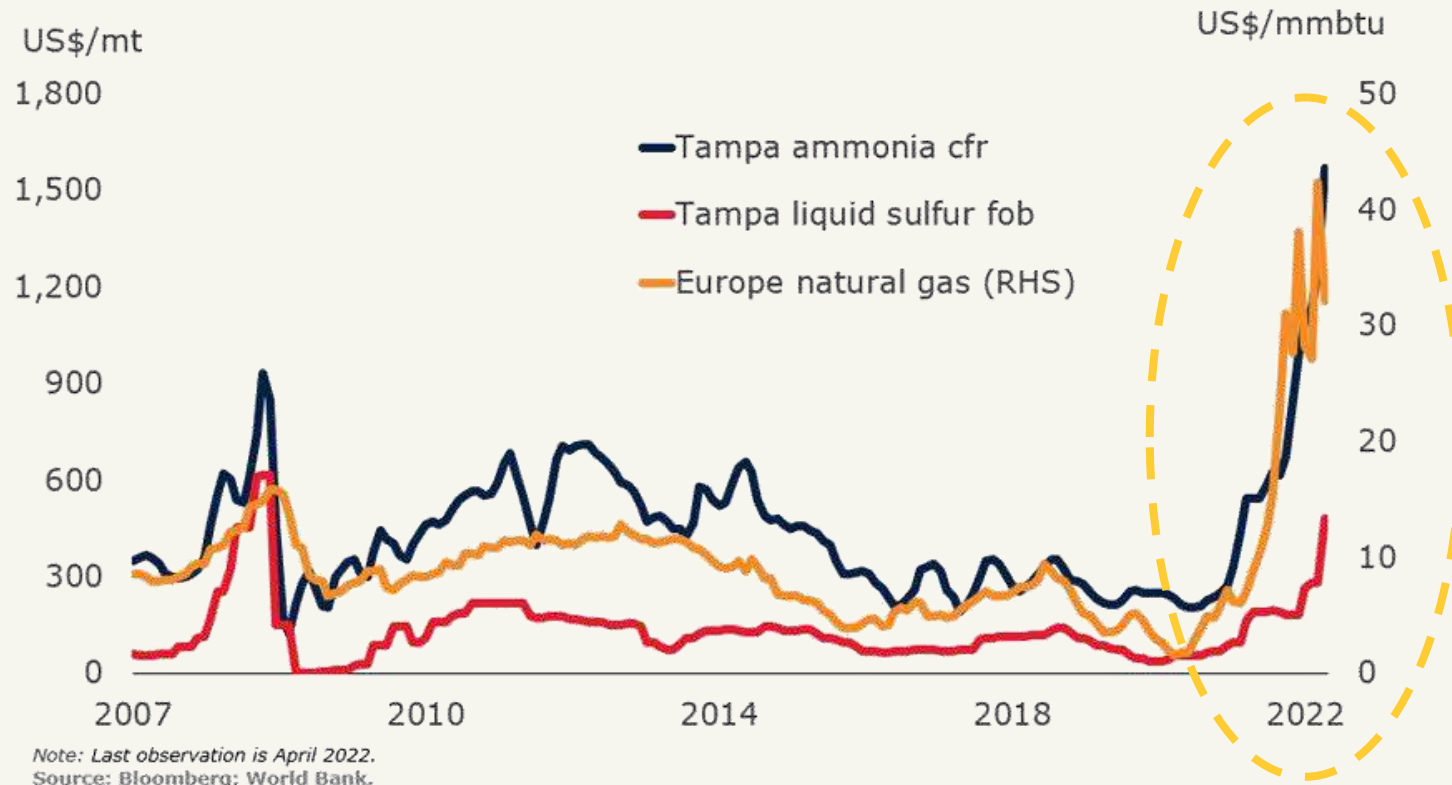


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THE PROBLEM

THE FERTILIZER BILL-SHOCK

Fertilizer input costs



Note: Last observation is April 2022.
Source: Bloomberg; World Bank.

THE PRICE OF GLOBAL CHAOS



Natural gas
price surge



Supply
chain challenges



Transportation
costs



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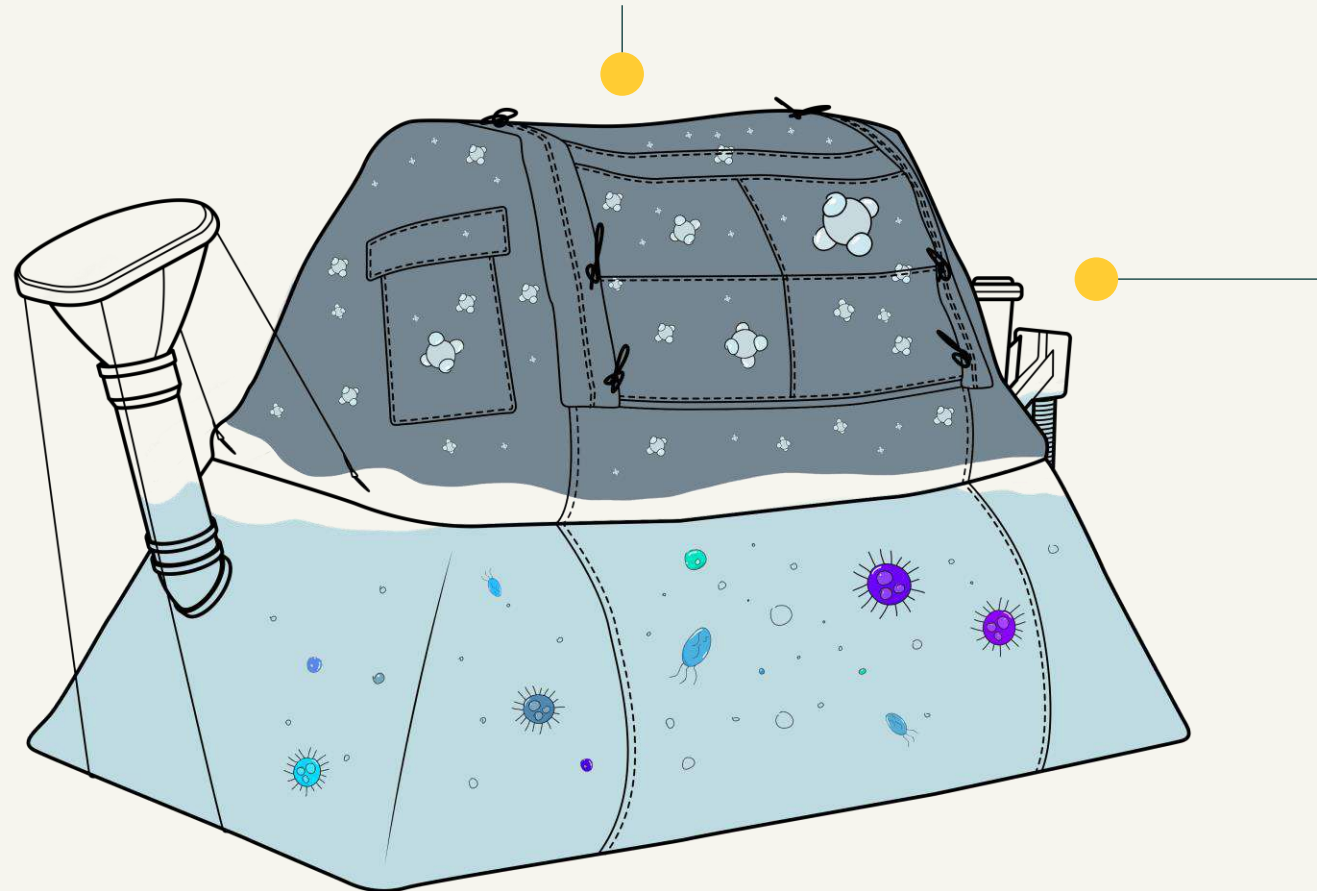
THE SOLUTION

THE HOMEBIOGAS FARMING SYSTEM

Waste IN

Gas OUT

Fertilizer OUT



An innovative eco solution that turns organic waste into Biofertilizer and cooking gas

THE BENEFITS



REDUCE COSTS

Complementary, cost-effective solution to chemical fertilizer



INCREASE YIELD

Improves water and nutrient consumption efficiency for healthier, stronger plants



IMPROVE FERTILIZATION EFFICIENCY

Powerful biostimulator for soil enrichment and better plant growth



EASY INTEGRATION

Integrates easily into existing irrigation systems



DECREASE PESTICIDE AND FUNGICIDE USE

Strengthens crops and soil to resist pest and fungus contamination



ENHANCE FARMER RESILIENCE

Enables independent production of endless free biofertilizer to balance chemical fertilizer cost surge and shortage

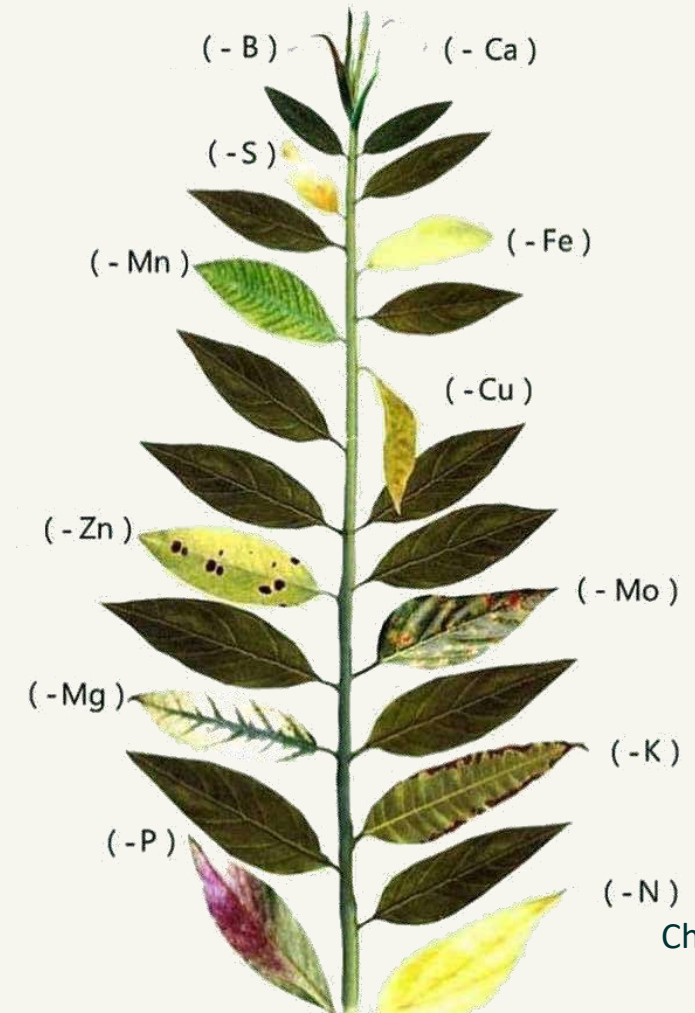


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THE BIO ADVANTAGE

PLANTS TOO ARE ALSO ONLY AS STRONG AS THEIR WEAKEST LINK

- For crops to reach full potential, all macro and micronutrients must be present
- If **ANY** essential nutrient is in deficient, the plant will never reach its full yield potential, even if **All** other nutrients are in abundance.
- Biofertilizer provides the additional essential nutrient, which are mostly not provided by the farmer.



BIO-VALUE FOR THE PLANT

Biofertilizer provides nutrients and minerals to the entire plant, helping cultivate healthier crops.

- Better absorption of nutrients
- Stronger root structure
- Healthier and tastier crops
- Increased yield



BIO-VALUE FOR THE SOIL

- **Biofertilizer contains a wide range of macronutrients, micronutrients, microorganisms, bio-stimulates, and dissolved organic carbon (DOC) that enrich the soil.**
- Healthier soil structure
- Humidity retention (soil moisture)
- Nutrient retention
- Healthy bio-flora



BIO-VALUE FOR THE FARMER

- **Biofertilizer supplements chemical fertilizers, reducing costs, increasing resilience, and improving output.**
- Less nutrient leaching
- Better chemical nutrient absorption
- Reduces flies, insects, and maggots



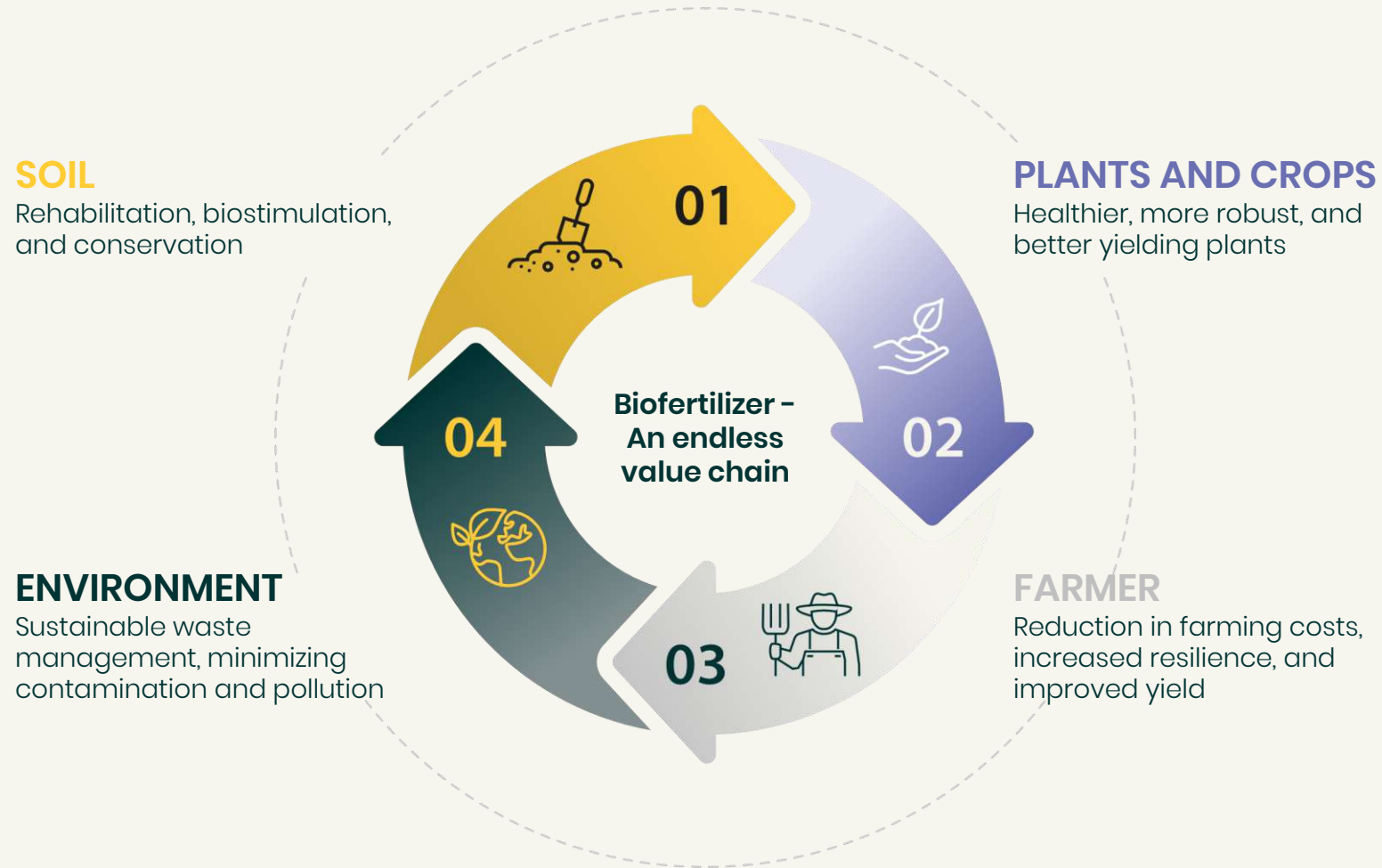
BIO-VALUE FOR THE ENVIRONMENT

Biofertilizer provides a sustainable waste management solution that minimizes contamination and pollution.

- Soil, water and air contamination prevention
- Algae bloom prevention
- Food shortage management
- Animal feed supplement
- Low-carbon economy enablement



AN ENDLESS VALUE CHAIN



A large, bold white number '4' is centered on a yellow, textured, brush-stroke-like background that tapers to the right.

FERTIGATION METHODS

Apply to the soil with tractor



PUMP/BACKPACK



Drip irrigation



PUMP/BACKPACK



Compost



Soil pre-treatment



Compost



Surface fertigation



Cannon sprinkler





6 THE NUMBERS

Let's look at the numbers – Fast ROI

BIOFERTILIZER

- 20% reduction in chemical fertilizer costs
- Monthly chemical fertilizer cost: 500 USD

100 USD

saved monthly

GAS

- PLG/charcoal replacement
- Monthly expense: 20-25 USD

15 USD

saved monthly

\$115
saved monthly



\$1380
Annual ROI

*Numbers represent a single system greenhouse in Mexico

**Calculations are market-specific

*** ROI V Fertilizer calculations can be made through this [link](#)

A BAG FOR EVERY FARM

TYPE OF SYSTEM/ FEEDING TYPE	FOOD WASTE (FEEDING RATIO 1:1- FOOD WASTE:WATER)	ANIMAL MANURE (FEEDING RATIO 1:2 - ANIMAL MANURE:WATER)	FOOD WASTE AND SLURRY (ANIMAL MANURE AFTER DILUTION)	Yearly production
HBG 2	4 liter of food waste + 4 liters of water= 8 liters/day	16 liters of animal manure + 32 liters of water = 48 liters/day	54 liters/day	17,520 liters/year
HBG 4	12 liter of food waste + 12 liters of water= 24 liters/day	28 liters of animal manure + 56 liters of water = 84 liters/day	96 liters/day	30,660 liters/year
HBG 7	18 liter of food waste + 18 liters of water= 36 liters/day	43 liters of animal manure + 86 liters of water = 129 liters/day	147 liters	47,085 liters/year



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CASE STUDIES

LATAM – Ecuador – Milk Grower

- **Production size:** 14 cuts (up from 10)
- **Profit:** \$660 more per hectare
- **Money saved yearly on veterinary:** \$40 per cow

“Good for the pocket, for the animals, for the environment and for the pasture!”

El Colonel

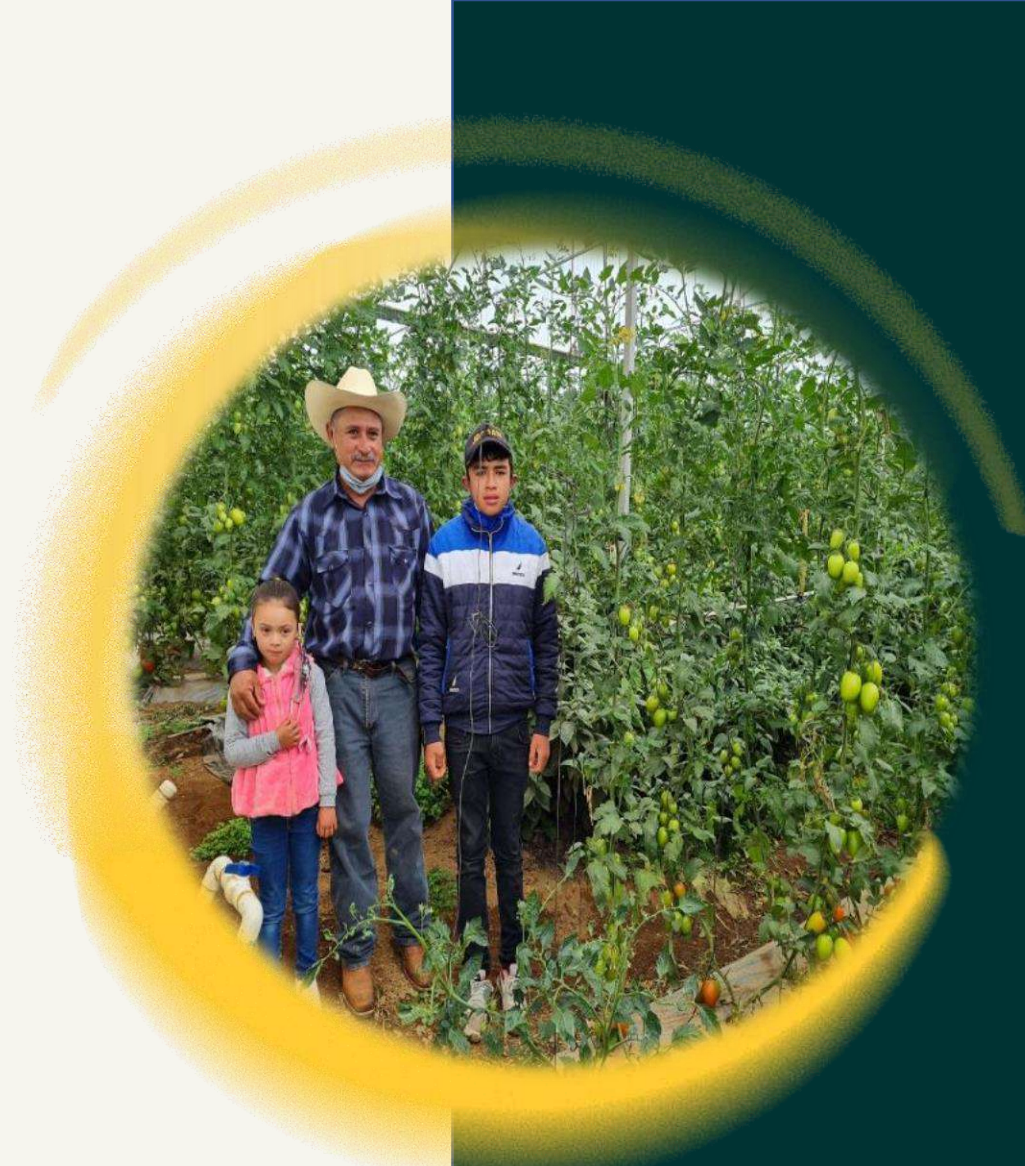


LATAM – Mexico – Tomato Grower

- **Money saved yearly on fertilizer:** \$1200
- **Money saved yearly on gas:** 100usd
- **Results:** 30% increase in production, AND... the products are bigger, healthier and tastier

“The system benefited me and my family very much!”

Noe Rico



Asia – Israel – from cucumber

- **Money saved yearly on gas:** \$1200
- **Money saved yearly on fertilizer:** \$1000

The Homebiogas system is very easy to use, and I am very satisfied!”

Edward



LATAM – Ecuador

Producing 150,000 Flowers Every Day

- This product helped the farm conduct sales in Europe, as it addresses the European Union's sustainable agriculture and production standards

“Better flowers, better earth, save money and good for the environment”

Andres Escandon





JOIN THOUSANDS OF FARMERS ACROSS THE GLOBE



Any questions?



TRANSFORMING YOUR WASTE INTO GROWTH.

Thank you!