

NextBioFeed Platform

Industrial Technology for Producing
Producing Premium Bioprotein
(Gaprin) from Natural Gas

Transforming low-cost, abundant natural gas into high-value global food security via proprietary, non-foaming microbial synthesis.



The Global Protein Deficit

Population Surge

Global population reaching 9.7–9.9 Billion by 2050, requiring a **+75% increase in protein demand**.

The Resource Squeeze

Current agricultural models are hitting their absolute limits in terms of arable land and freshwater.

The Vulnerability of Traditional Supply



The global food system requires a sustainable alternative that is completely independent

The Ultimate Feed Alternative: Product Profile (Gaprin)



Comparison Matrix

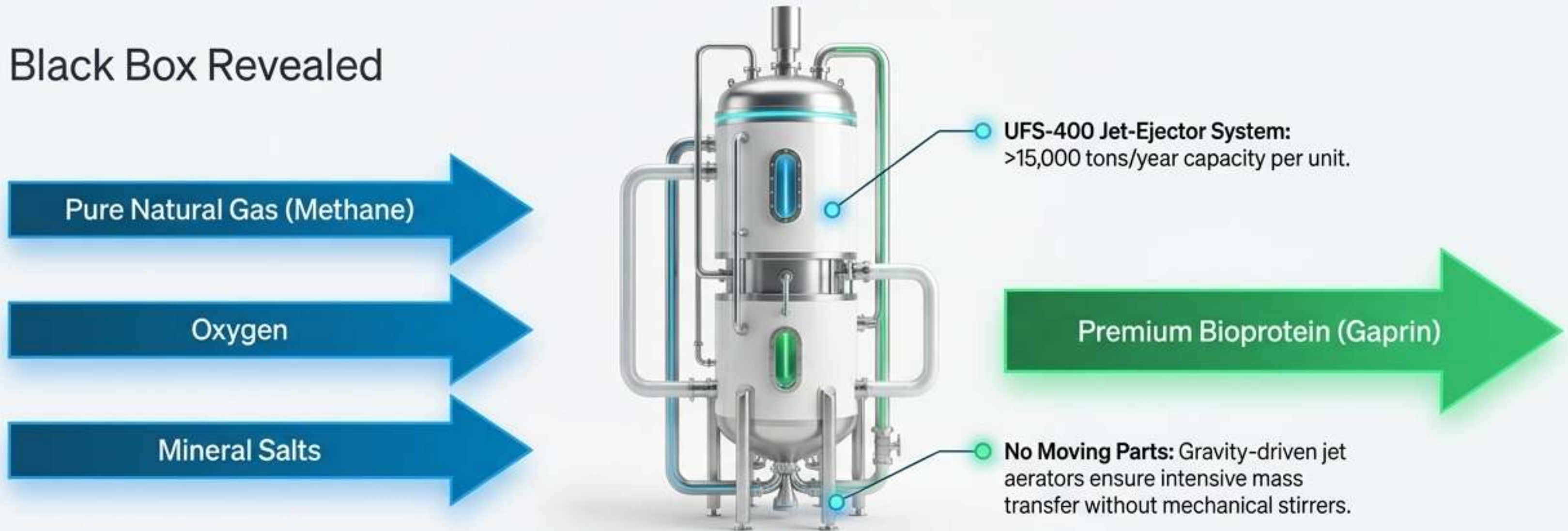
Metric	NextBioFeed Gaprin	Fishmeal	Soybean Meal
Crude Protein	70.0% – 80.5%	64% – 65%	45% – 50%
Digestibility	84% – 95%	85% – 90%	75% – 80%
Shelf Life	> 3 Years (No degradation)	6 – 12 Months	6 – 12 Months
Resource Dependency	Zero (Gas-based)	High (Oceans)	Extreme (Arable Land/Water)

Key Differentiators

- Ideal amino acid profile (rich in lysine, methionine, tryptophan)
- Naturally rich in Vitamin B12
- 100% natural, non-GMO, and free from antibiotics or hormones

The Biological Engine: Proprietary Strain & Scalable Infrastructure

Black Box Revealed



The Secret Sauce: Strain G2026

- ✓ **Thermotolerant:** Operates at 43-45 °C, drastically cutting cooling costs.
- ✓ **Zero Foam:** Non-foaming strain eliminates the need for chemical defoamers.
- ✓ **High Efficiency:** Record high 59.0% carbon-to-biomass conversion rate.

Unprecedented Unit Economics & Plant ROI

Unit Economics (Per Ton)



Macro Model (120,000 tons/year Plant)



CAPEX: **\$200M**

Annual Revenue: **\$150M**

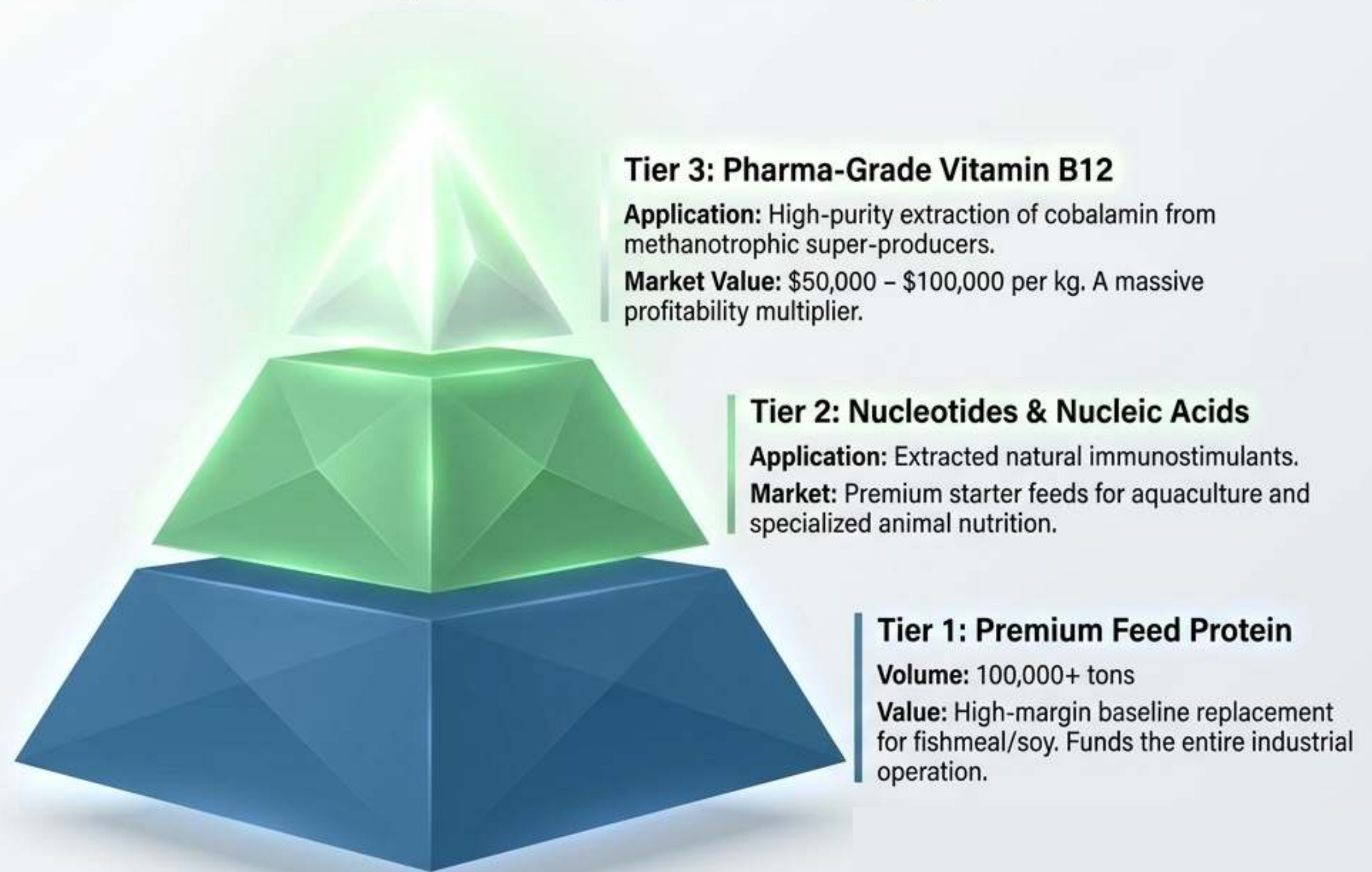
EBITDA: **\$90M**

IRR: **34.1%**

Payback Period: **3.6 to 5 Years**

A mathematical inevitability—insulating food production from commodity price volatility while delivering software-like margins in heavy industry

Beyond Feed: The Biorefinery & Deep Processing Multiplier



Strategic Engagement & Business Model

1. Turnkey EPCM

Full engineering, procurement, construction, and management of large-scale bioprotein plants.

2. Technology Transfer

Integration of our proprietary biological platform into existing or planned industrial infrastructure.

3. Strain Licensing

Licensing of the G2026 non-foaming, thermotolerant strain and fermentation protocols.

4. Joint Ventures

Strategic co-investment combining our IP with regional capital and gas resources.

MENA Region

Perfect synergy: monetizing domestic gas while utilizing thermotolerant strains to reduce cooling costs in arid climates. Solves local food security mandates.

Southeast Asia

High aquaculture demand requiring sustainable, scalable fishmeal replacement.

Official Contacts

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