



The Virtuous Circle of Biological Agriculture

Comprehensive Natural Solutions for High-Yield, Zero-Toxicity Crop Management

Growing-Up International Corp.



THE AGRICULTURAL OPERATING SYSTEM

Programming exponential yield and systemic plant immunity through chain-reaction biotechnology.

The Market Imperative: Shifting Paradigms in Global Agriculture

The Chemical Dead End

Global agriculture is facing a crisis.

Global agriculture is facing a crisis.

Regulatory bans on high-risk chemicals (Glyphosate, Paraquat) are accelerating.

Traditional agrochemicals are causing severe efficacy resistance, soil depletion, and dangerous residue accumulation.

The Biological Future

Growing-Up delivers a **'One-Stop Unique Organic Biological Agriculture'** system.

These **non-toxic, broad-spectrum** natural solutions bypass complex pesticide registration, eliminate pest resistance, and actively restore the soil ecosystem while multiplying crop yields.



Pioneers in Natural Biotechnology & Manufacturing

NATURE IS THE BEST TECHNOLOGY

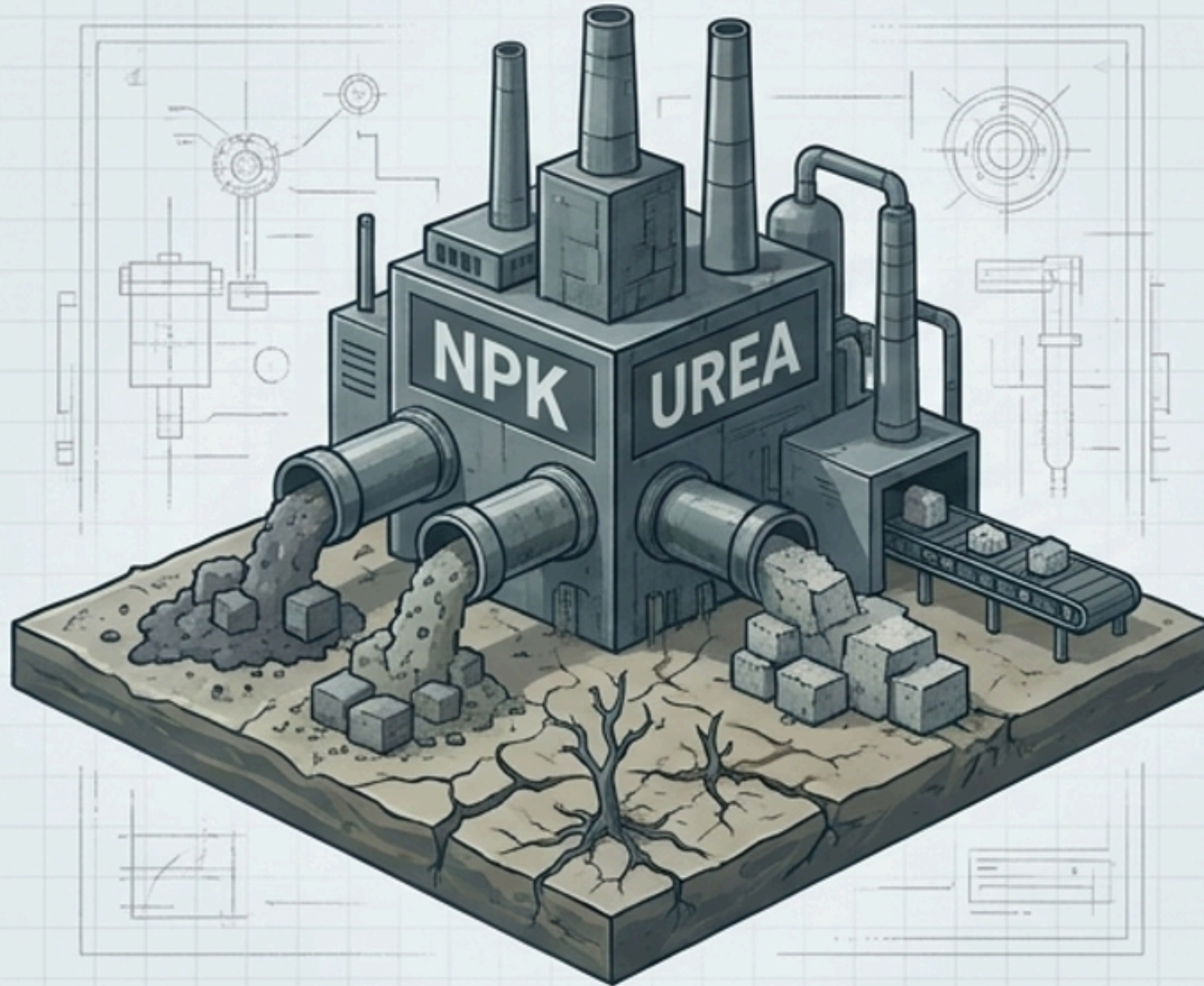


A Complete Ecosystem of Natural Plant Protection



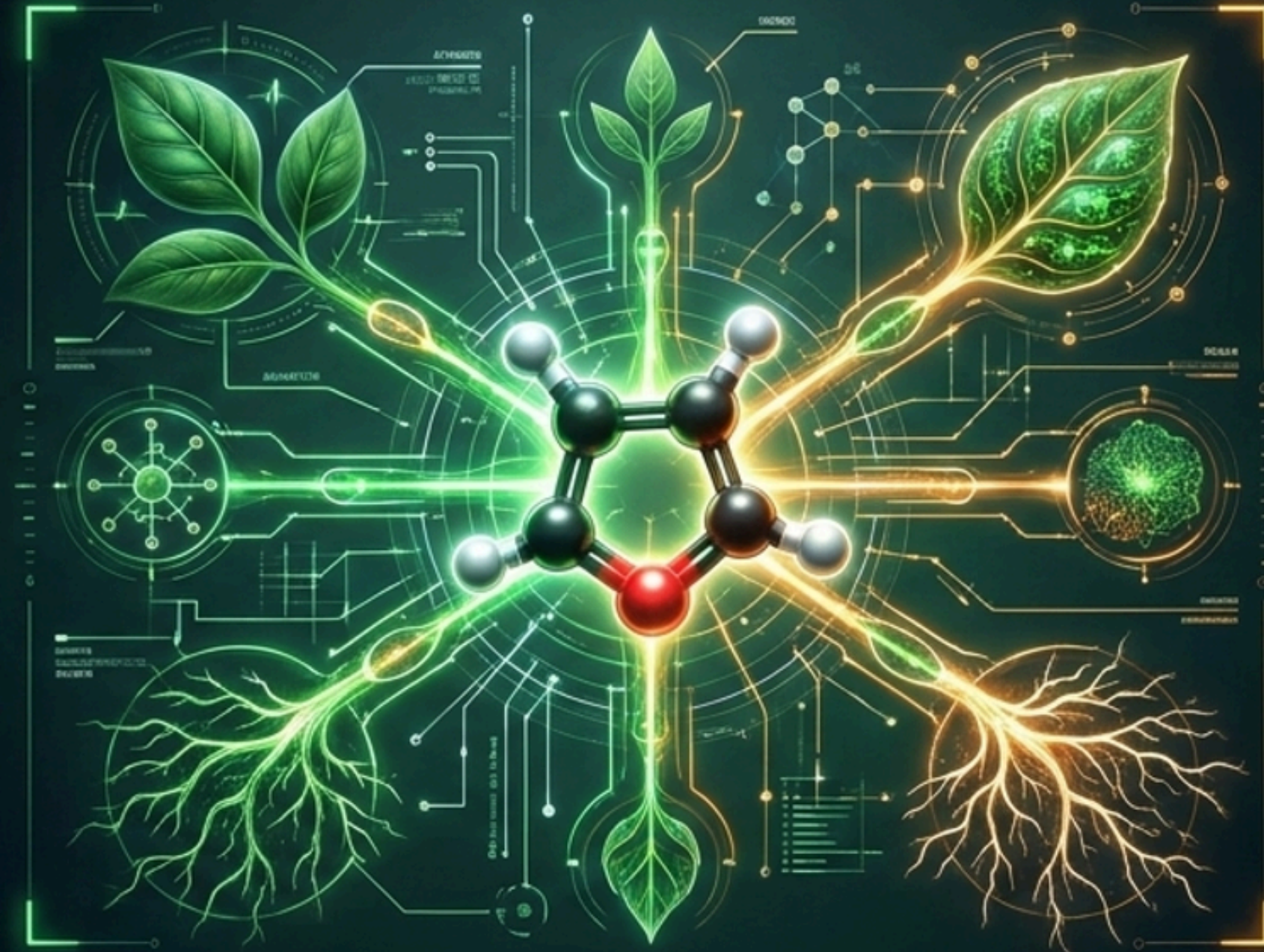
STANDARD FERTILIZERS PROVIDE THE HARDWARE. **GPL-37** PROVIDES THE SOFTWARE.

THE OLD PARADIGM - FUEL



Traditional NPK and Urea act as blunt instruments. Plants absorb only 3% to 15% of these inputs on their own, leading to massive waste, soil degradation, and plateaued yields.

THE NEW PARADIGM - THE DECODER



GPL-37 (Item #HS-8605) is the global first complex organic fertilizer made from 75% natural vegetable extracts. It functions as the "decoder for plants," unlocking robust growth by regulating specific plant genes and activating biological networks.

GPL-37: The Commander-in-Chief of Plant Nutrition

Core Concept

GPL-37 is the world's first unique complex organic fertilizer and biostimulant, formulated from 75% natural vegetable extracts.

Data Point 1: Absorption

Increases overall nutrient uptake by a massive 39% to 52%, acting as a guide for all other fertilizers (including NPK and Urea) to multiply their efficacy.

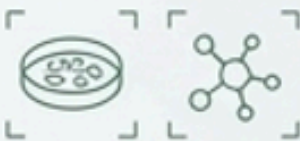
Data Point 2: ROI

Unbeatable economic value. The unit cost is lower than US\$3.00/Ha per dose, driving overall yield increases ranging from 20% to 200%.



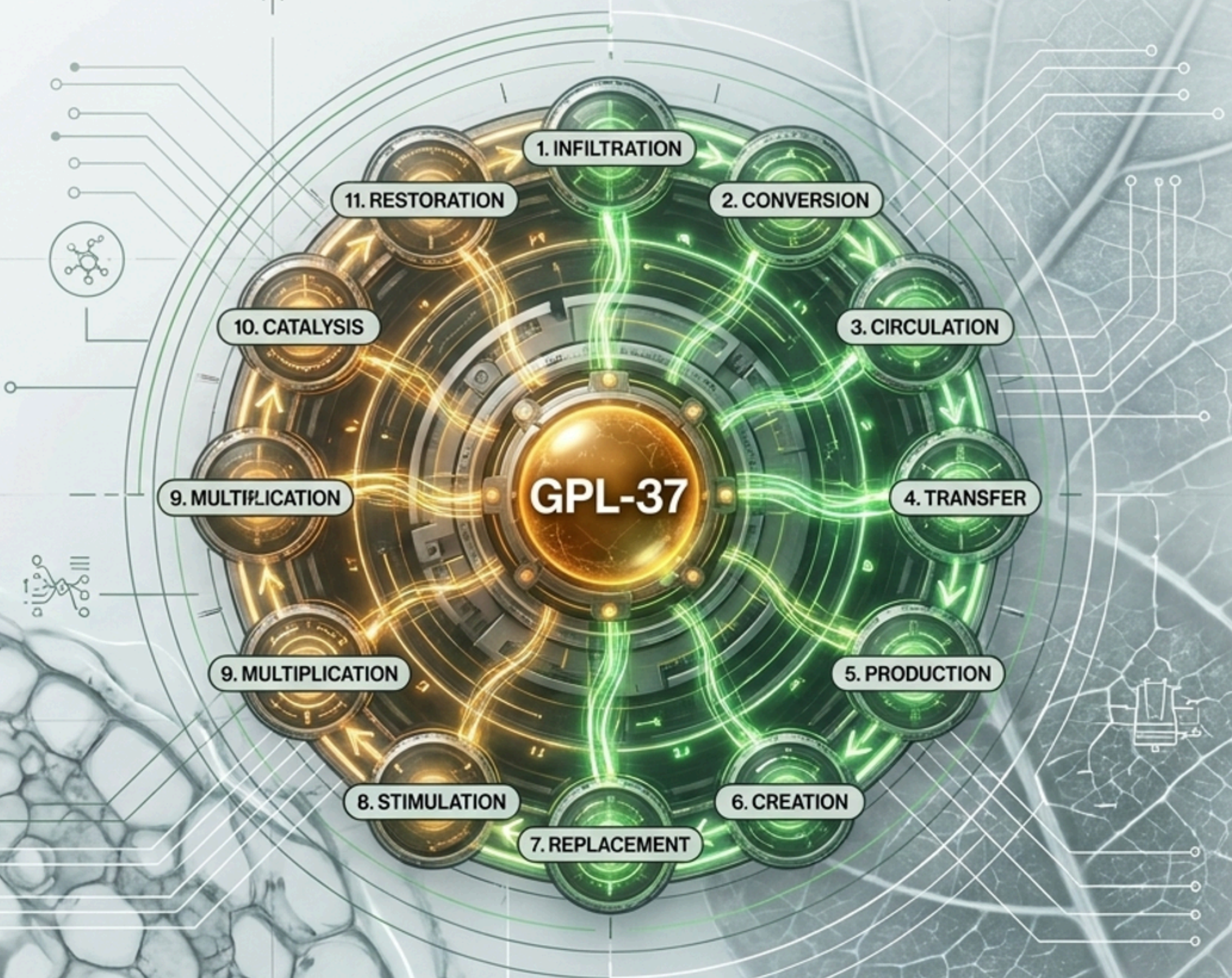
THE 11-PHASE CHAIN REACTION ENGINE

GPL-37 initiates a continuous, compounding biological loop within the plant, utilizing trace polyamines and hormone-like vegetable extracts.



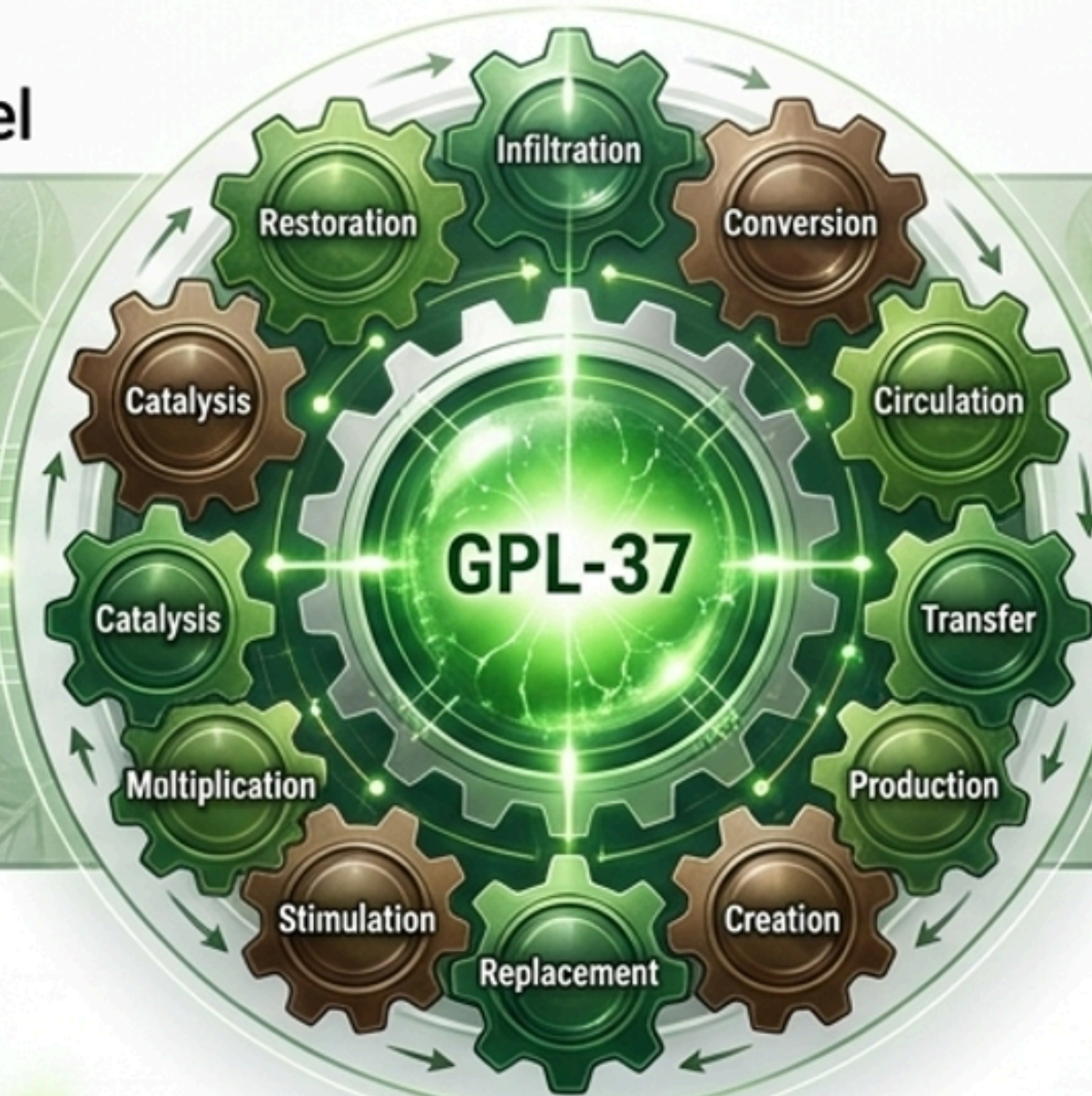
Composition Baseline

Organic Matter 21.3%
N (2.7%)
P (3ppm)
K (14ppm)
MgO (13ppm)
Ca (290ppm)
plus biological actives
below 10^{-5} - 10^{-10} .



The Science of Multiplication: Chain Reactions & Gene Regulation

Activation Wheel



Targeted Gene Regulation



Targeted Gene Regulation:

GPL-37 uniquely regulates specific plant genes to control harvest timing.



Early Ripening:

Continuous application prior to bud differentiation forces earlier, premium-market maturity.

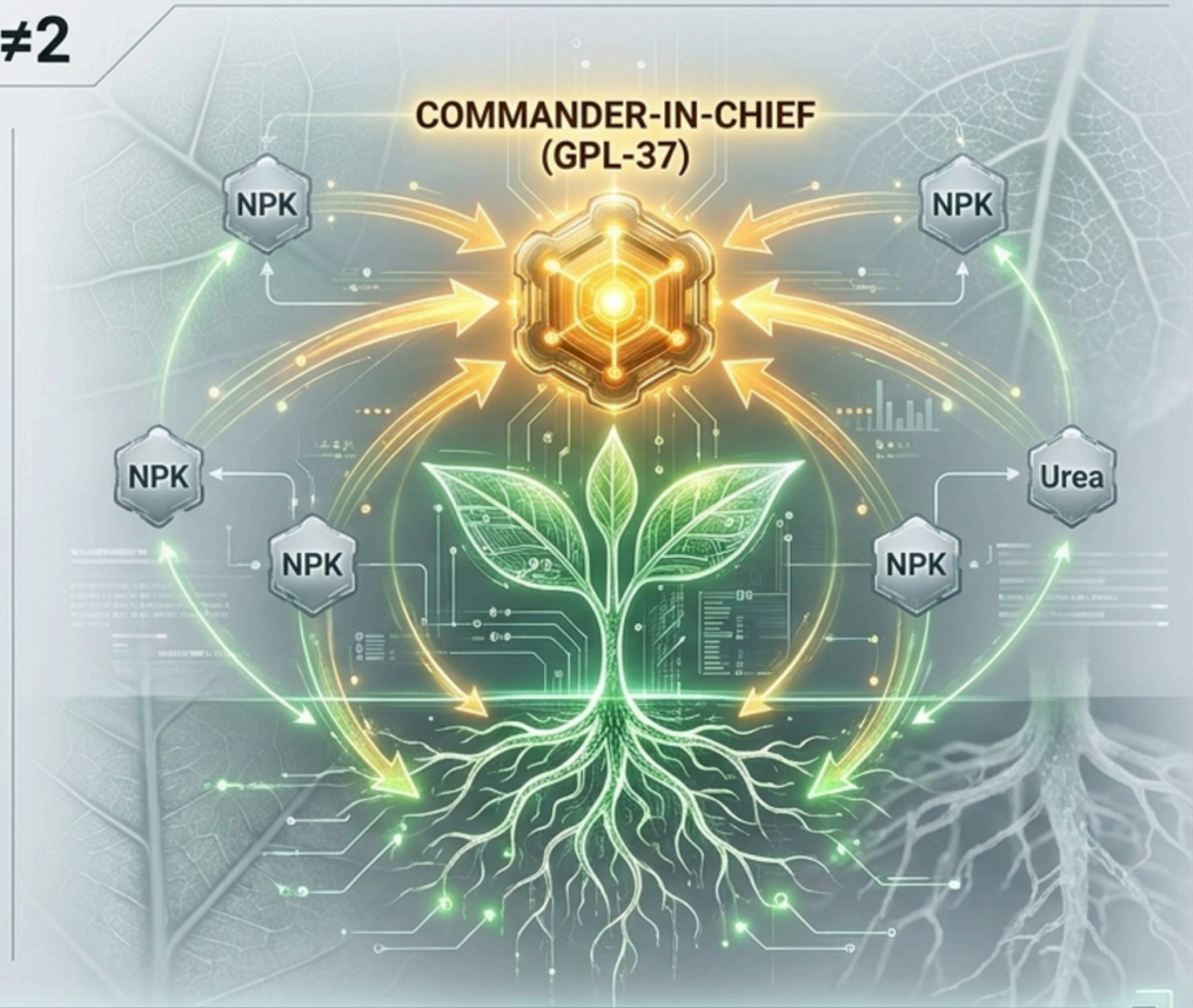
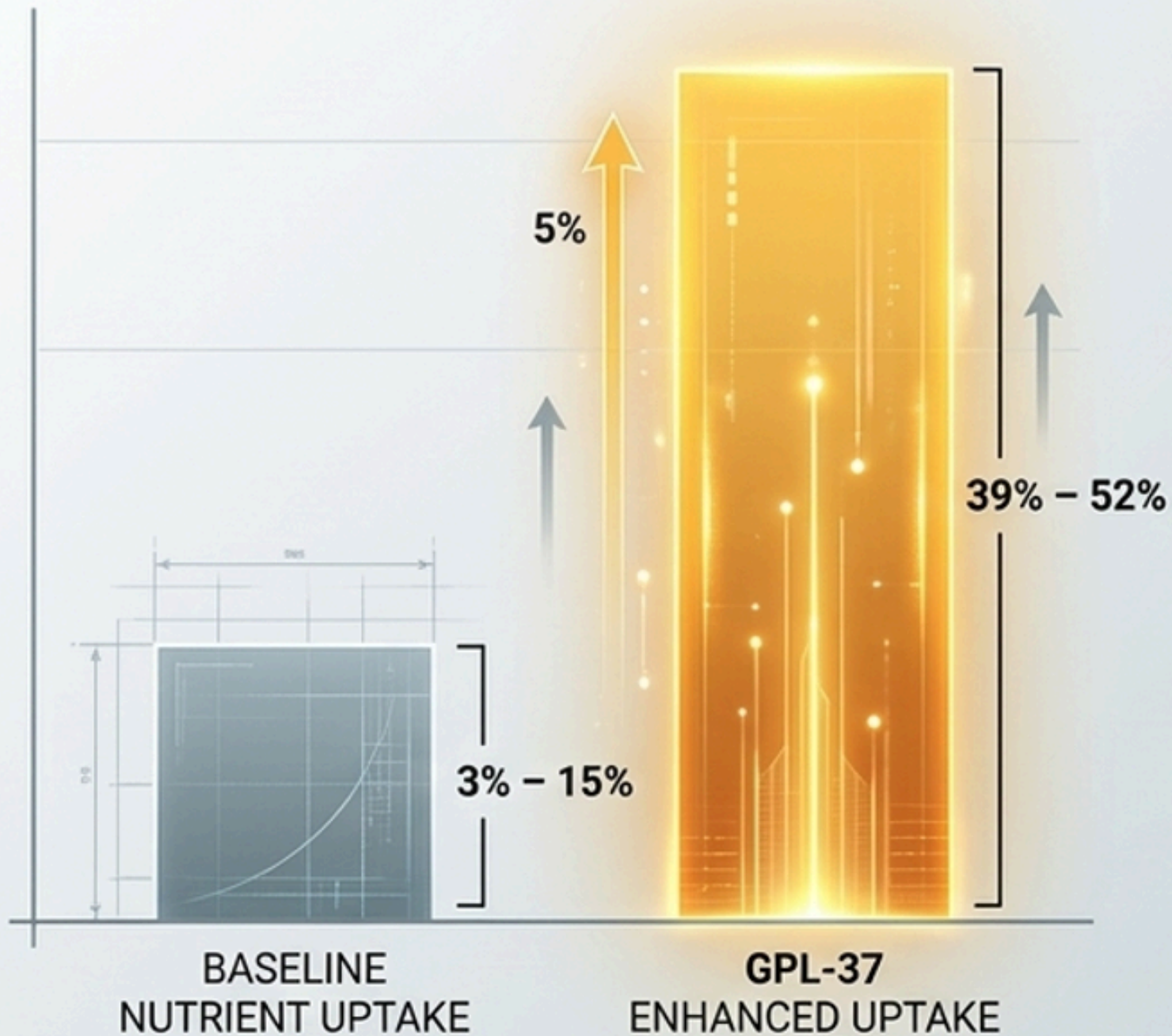


Delayed Ripening:

Application on ripening fruit extends the harvest period, allowing crops like beans and melons to increase harvest frequency by 5 to 7 times.

THE SYNERGY EQUATION: 1+1≠2

NUTRIENT UPTAKE COMPARISON



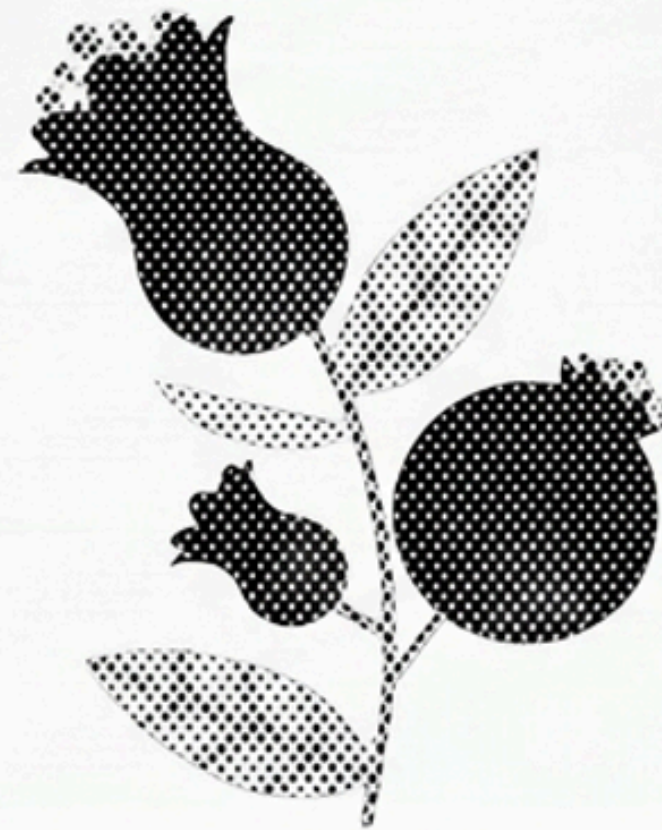
GPL-37 acts as the **“Commander-in-Chief”** in plant nutrition circles. It is a guider that marshals all other nutrient factors and fertilizers (including farmer-supplied NPK/Urea). It leads and supports all surrounding nutrients to join the chain reaction, multiplying their native efficacy.

Precision Lifecycle Fertilizers & Custom B2B Solutions



Link-ROOT

Designed specifically for the early phase. Drives aggressive rooting, germination promotion, and rapid cell division.



Link-FLORA

Designed for vegetative and structural growth. Actively enlarges the leaf surface area, thickens stems, and increases absolute fruit size.



Link-N.N.

Designed for reproductive success. Optimizes bud differentiation and drastically improves the fruit setting rate.

Technical Grade (TG) Availability: All microbial metabolite by-products are available as raw Technical Grade materials (Link-ROOT TG, Link-FLORA TG, Link-N.N. TG) for custom formulation and private-label manufacturing.

The Golden Triangle: An Unbreakable Biological Shield

The **LinkNoPests-PLUS** microbe-friendly farming method does not rely on toxic chemicals. Instead, it deploys three natural materials that lock together to create a comprehensive **physical, biological, and structural defense against pests and diseases**.

Node 2: Link-Algae
(Diatomaceous Earth)



Node 1: LinkNoPests-PLUS
(Broad-Spectrum Protectant)



Node 3: Link-Chitosan
(High-Density Glycosome Chitosan)



The Synergy:

Eliminates moths, mites, aphids, whiteflies, and pathogens without harming the plant or generating chemical resistance. Meets USA EPA Exempt pesticide registration standards.

THE PLANT ANTIVIRUS: LinkNoPests-PLUS

Non-Toxic, Broad-Spectrum Protection (Item #GU-10801)



COMPOSITION

Soybean oil (65%),
Fatty acid salts (23%),
Potassium salts (7%),
Edible alcohol (5%).

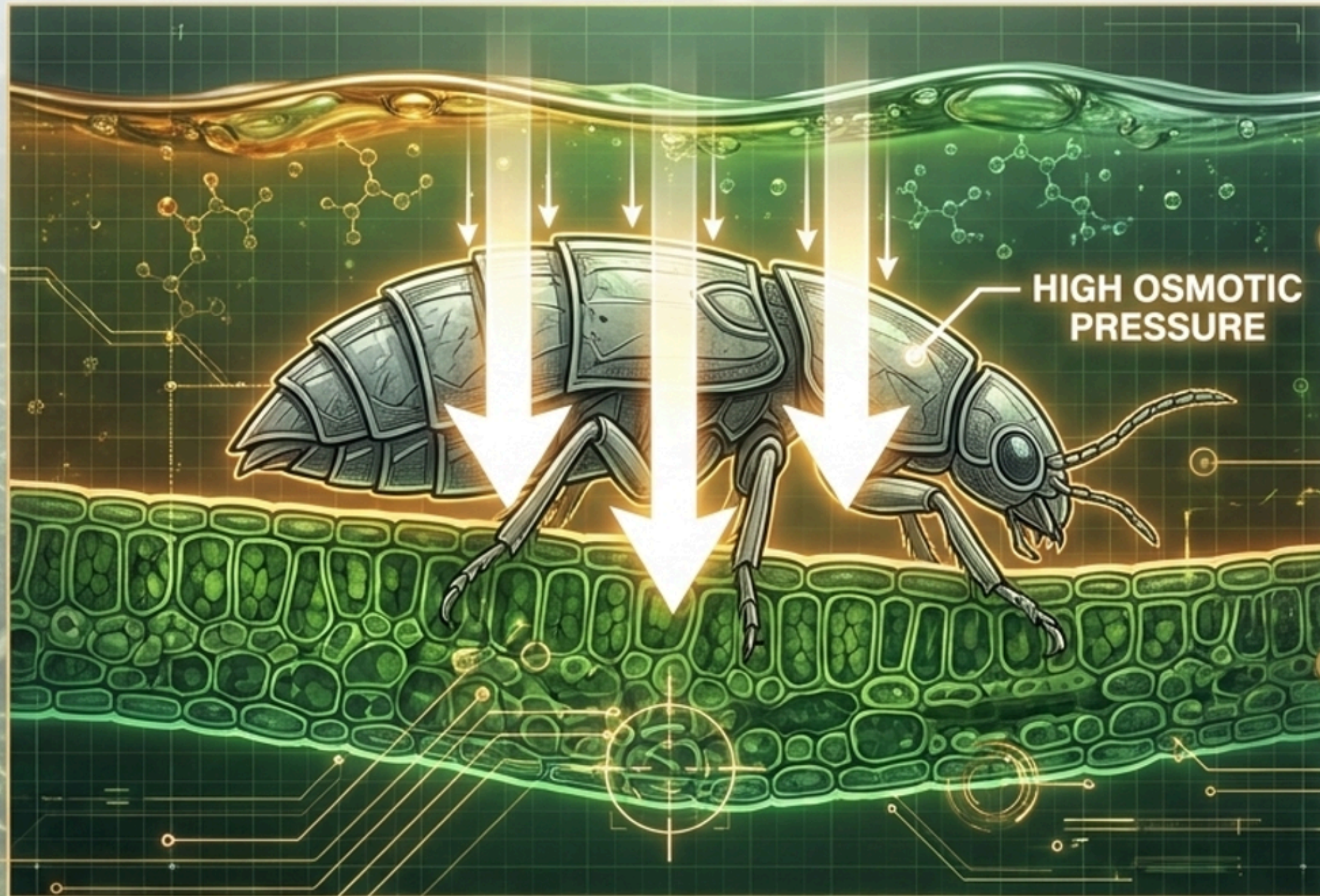
CERTIFICATION

Exempt from standard
pesticide registration
(BAPHIQ Permit No. 000001).

FUNCTION

3-in-1 system.
Pest Control + Plant Vaccine +
Growth Promoter.

PHYSICAL TERMINATION VIA OSMOTIC SUFFOCATION



NO EFFICACY RESISTANCE

Unlike chemical pesticides that pests adapt to, high osmotic pressure forces the fatty acid salts to physically penetrate the worm body.

THE RESULT

Causes the insect to suffocate and die without leaving toxic residues.

BROAD SCOPE

Eliminates mites, aphids, scale insects, whiteflies, red spiders, and thrips across vegetables, fruit trees, and cash crops.

THE FRIENDLY GOLDEN TRIANGLE

LinkNoPests-PLUS:
Broad-spectrum touch
kill, repel, and suffocate.



Link-Algae:
Probiotics that restore
soil life and produce plant
tannic acids.



SYSTEMIC IMMUNITY:
Together, this three-in-one
microbial farming method acts as a
Plant Vaccine, inducing antibacterial
properties and restoring the farming
ecosystem to a virtuous circle.



Link-Chitosan:
Bacteriostatic effects
combined with extreme
cold-weather resistance.

Dissecting the Defense Mechanisms



LinkNoPests-PLUS

Utilizes extreme osmotic pressure. Rapidly penetrates the insect body to induce suffocation. Synergizes with Link-Algae to trigger the plant's natural production of tannic acid—a crucial defensive trace element.



Link-Algae

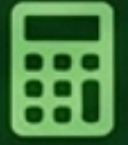
A highly porous diatomaceous earth structure. Acts as a physical matrix that traps the protective agent and fungi, while physically piercing the exoskeletons of pests.



Link-Chitosan

Features a glycosome structure 8x denser than ordinary chitosan. Forms a stable, breathable extended-release water-locking membrane. Blocks pest breeding, prevents water loss, and activates the plant's viral immune system against Fusarium and yellow leaf disease.

The Paradigm Shift: Chemical Toxicity vs. Biological Elimination

Criteria	Traditional Agrochemicals	Growing-Up Golden Triangle
Mechanism of Action	 Toxic neurological disruption.	 Physical suffocation, exoskeleton piercing, and structural membrane blocking.
Pest Resistance	 High (pests mutate and adapt rapidly).	 Zero (pests cannot develop resistance to physical suffocation or piercing).
Residue & Safety	 Heavy soil accumulation, toxic to humans, strict harvest intervals.	 Zero residue, unregulated, safe for immediate harvest, improves soil organic matter.
Total Cost of Operation	 Requires compounding multiple targeted products.	 Broad-spectrum, single-dosage formulation reduces total application cost by up to 100% compared to combined chemical regimens.

LinkNoWeed: The Ultimate Chemical Herbicide Alternative

An innovative natural defoliant and desiccant herbicide designed specifically to replace banned substances like Paraquat and Glyphosate.

BEFORE: Traditional Application



AFTER: LinkNoWeed Effect



Mechanism

Operates via intense osmotic diffusion. Rapidly extracts water from plant tissues, halts photosynthesis, and entirely destroys chlorophyll.

Performance Metrics

- Fast-acting: Rain-fast within 1 hour, visible effects in 2-3 days.
- Complete burn-down within 7 to 10 days.
- Zero soil accumulation; leaves no residue affecting subsequent crops.
- Exempted from residue tolerance limits (Use EPA/OPP Code: 073301).

THE AGRICULTURAL OPERATING SYSTEM MATRIX

TARGET FUNCTION	PRODUCT	DOSAGE	DILUTION	PROTOCOL NOTE
Soil Restoration	Link-SOIL	5L-10L /Ha	3000-4000x	Removes soil toxins; wait 3-5 days before planting.
Microbial Defense	Link-Bta	106gm/Acre	1500-2000x	Microbial insecticide against pathogens.
Root & Germination	Link-ROOT	80ml/Acre	2000-4000x	Applied early stage to root parts.
Cell Division & Fruit	Link-FLORA	130ml/Acre	1200-2400x	Applied to leaves and flowers for bud differentiation.
Fruit/Leaf Enlargement	Link-N.N.	80ml/Acre	2000x	Maximizes stem and fruit sizing.
Natural Herbicide	LinkNoWeed	3.2L/Acre	50x	Non-toxic weed management.

Standard Operating Procedure: The Complete Lifecycle Protocol

Phase 1: Tilling & Preparation

Deploy **Link-SOIL** (5-10L/Ha) 24 hours before sowing. Must be used alone to condition the soil and establish microbial baselines.

Phase 2: Vegetative Growth (6th Leaf)

Deploy **Link-ROOT** (25cc/100L) and **Link-FLORA** for rapid cell division and stem enlargement.

Phase 3: Pre-Blossom (1 Month to 7 Days Prior)

Shift to **Link-N.N.** to ensure bud differentiation and maximize the fruit setting rate.

Tilling

Seedling

Growth

Blossom

Fruiting

Phase 4: Continuous Protection (Any Phase)

▲ Deploy the Golden Triangle.

- ⚙ **Normal Protection:** Dilute 1:500, spray every 7-15 days.
- ⚙ **Active Infestation:** Dilute 1:250, spray every 3-7 days.

BOTANICAL BLUEPRINT: PHASE I (TILLING TO 6TH LEAF)

TILLING (PRE-PLANTING)



- APPLY LINK-SOIL (DILUTED 3000-4000X). SPRINKLING WATER MUST REACH 2-3CM DEEP.
NOTE: TAKES 2 HRS TO START AFFECTING SOIL, 3-5 DAYS TO COMPLETE TOXIC REMOVAL. MUST BE USED ALONE.

SEED STAGE



- SOAK SEEDS IN GPL-37 (33CC/100L).

NURSERY TO 6TH LEAF



- APPLY GPL-37 (25CC/100L).
- INTRODUCE LINK-BTA (50GM/100L) AND LINK-ROOT (50ML/100L) TO ESTABLISH MICROBIAL BASE AND ROOT MASS.

BOTANICAL BLUEPRINT: PHASE II (BLOSSOM TO MID-FRUIT)

**1 MONTH
BEFORE BLOSSOM**



APPLY GPL-37 (25CC)
+ LINK-FLORA (40-70ML).
**PROMOTES BUD
DIFFERENTIATION.**

**7 DAYS BEFORE &
AFTER BLOSSOM**



APPLY GPL-37 (25-33CC)
+ LINK-FLORA (50-67GM).
**MAXIMIZES FRUIT
SETTING RATE.**

**YOUNG FRUIT
TO MID-FRUIT**



SHIFT TO LINK-N.N. (50-80ML)
ALONGSIDE GPL-37 (25CC).
**ENLARGES FRUIT SIZE AND
IMPROVES COLORING/FLAVOR.**

! APPLICATION RULE: ACTIVE INGREDIENTS ARE ABSORBED THROUGH LEAF PORES.
NEVER SPRAY IN HOT, SUNNY CONDITIONS WHEN PORES ARE CLOSED. SPRAY IN COOL EVENINGS.

Verified Efficacy: Global Trial Data & Certifications



Germany

"RECHTS K 58 Trial" proving LinkNoWeed's complete parity and superiority against traditional Glyphosate applications.



Philippines

Large-scale LinkNoWeed commercial trials demonstrating total weed burn-down in sensitive onion crops without secondary contamination.



Vietnam

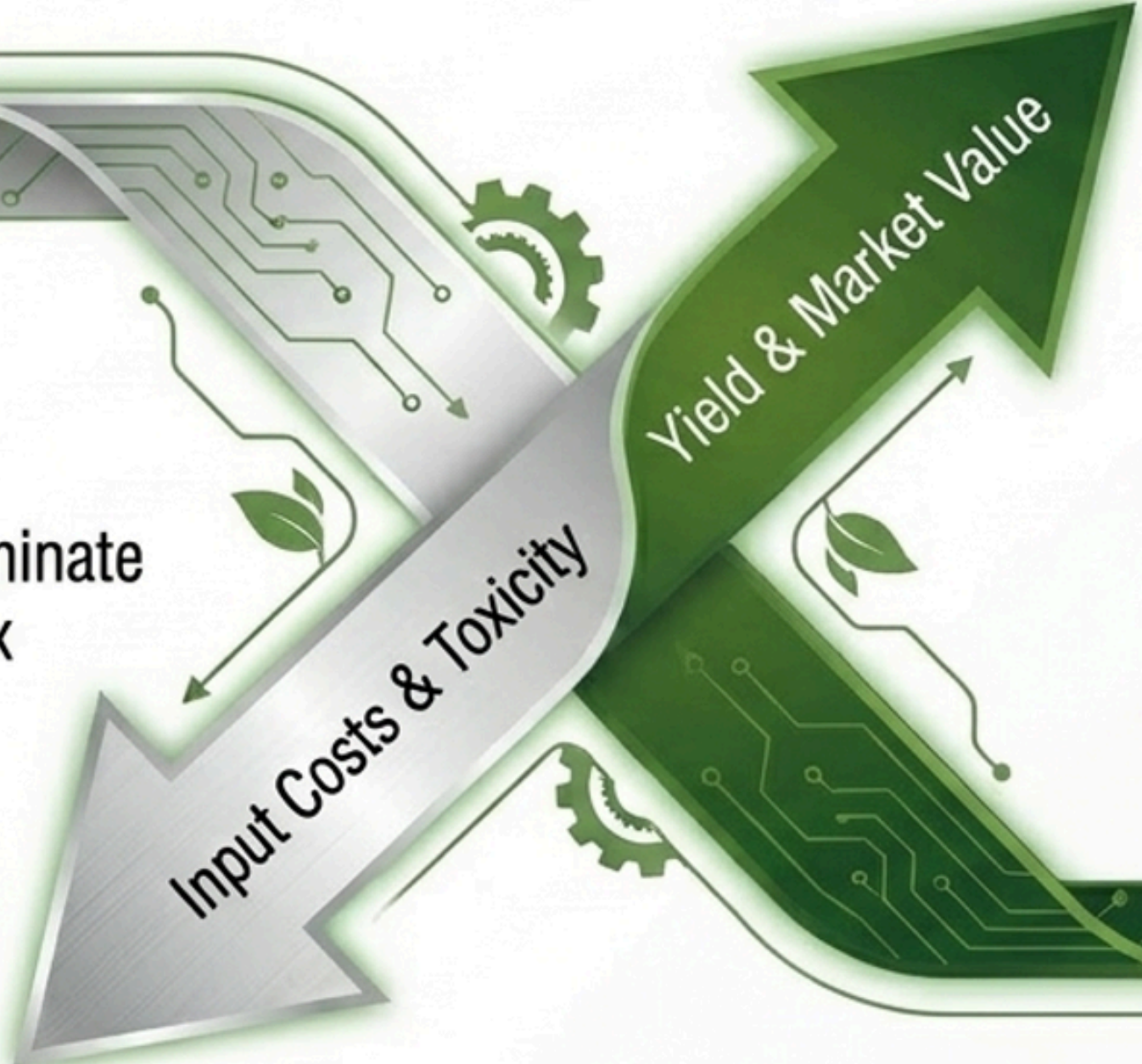
Nature GPL-37 condensed solution trials verifying massive systemic yield increases and harvest frequency multiplication.



Regulatory Status: All natural pesticide products meet USA EPA Exempt pesticide registration status, guaranteeing frictionless import and application.

The 1+1>2 Multiplier Effect: Unbeatable Economic Advantage

The Virtuous Circle: By transitioning to the complete Growing-Up ecosystem, agricultural enterprises break free from the downward spiral of chemical dependency.



Downward Costs: Farmers spend significantly less than traditional regimens. Broad-spectrum single dosages eliminate the need to purchase and mix multiple specialized insecticides and fungicides.

Input Costs & Toxicity

Yield & Market Value

Upward Revenue: Achieves 20% to 200% yield increases, vastly higher harvest frequencies, and unlocks premium market pricing for verified zero-residue, organic-grade crops.

UNBEATABLE VALUE AND INNOVATION



*"Evidence is better than theory.
Your actual testing will verify
its efficacy."*

1 THE INVESTMENT

< \$3.00 USD / HECTARE

per dosage of GPL-37. Replaces up to 50% of required compound chemical fertilizers.

2 THE RETURN

20% TO +200% YIELD

Matures crops earlier, extends the harvest period, and allows for high-altitude flavor profiles at low altitudes.

3 GLOBAL VALIDATION

- Verified 200%+ increases in Pakistan (Lemon Trees)
- Extensive testing in sugarcane, soybeans, and tomatoes across Bolivia, Ecuador, Spain, and Taiwan.



Grow in a Better Tomorrow

Summary Statement: Growing-Up International Corp. delivers a flawless combination of agricultural management—an efficient, completely non-toxic world where humanity eats safer, and farms yield more.

Call to Action: We are actively seeking exclusive global importers, visionary agricultural distributors, and enterprise partners to lead the non-toxic revolution in their regional markets.

Contact Prompt: Join our mission. The first mover in the biological shift will dominate the future of agriculture.