



aminocore newsletter

FERTILIZER EFFICIENCY EDITION



Dear Partners,

Input costs are no longer just rising, they are unpredictable. Energy volatility, geopolitical tensions, and supply chain disruptions are reshaping fertilizer markets globally. At the same time, regulatory pressure is limiting how nutrients can be applied.

As a result, the key question has changed:
Not how much fertilizer to apply, but how efficiently it is used.
At Aminocore, we focus on this exact challenge.

In today's environment, efficiency is no longer optional; it is the only controllable variable, and that is why our objective is clear:

Enable more output from the same input.

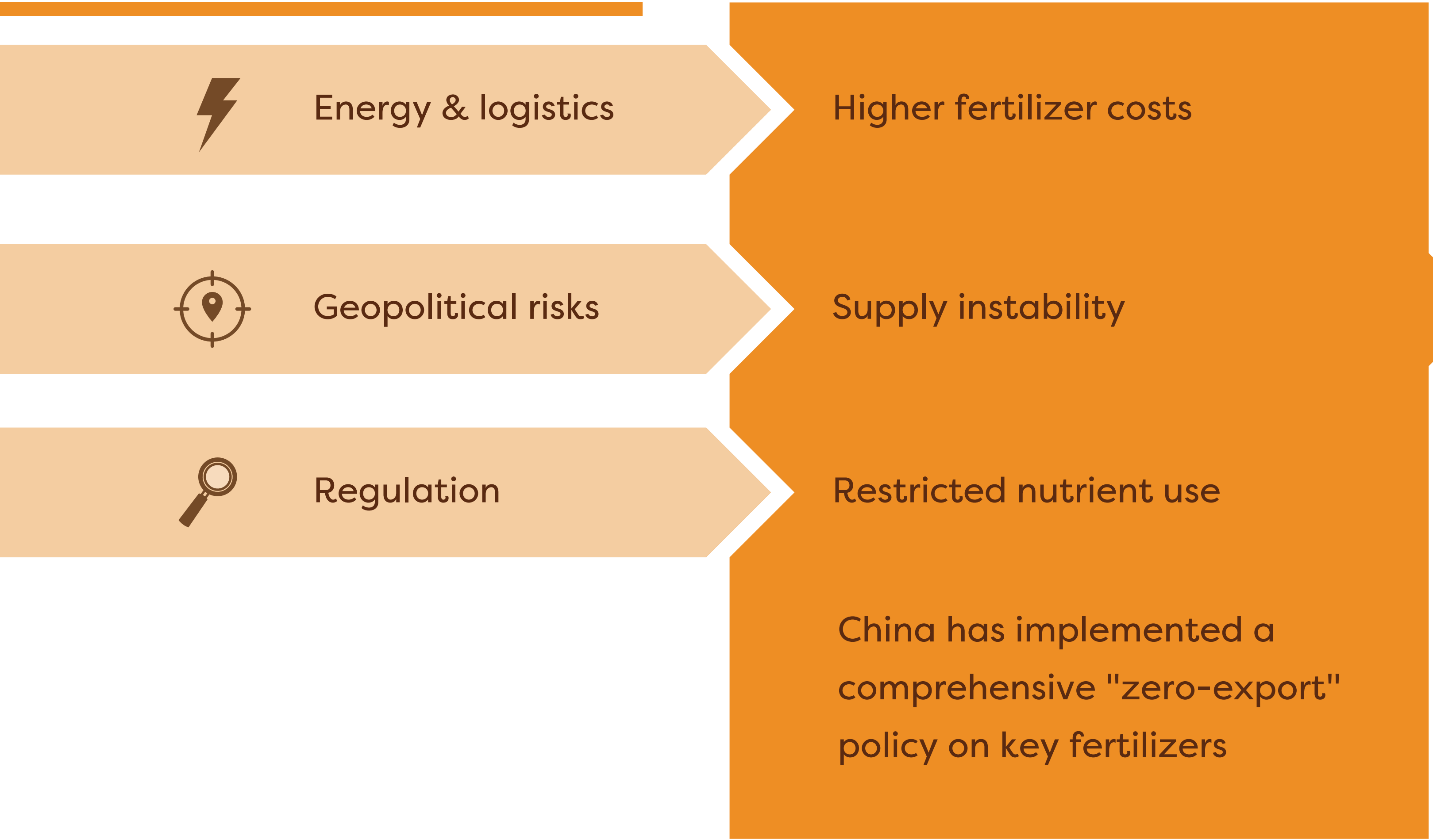
In this edition, we share how Aminocore technology improves nutrient efficiency, enhances crop performance, and delivers measurable economic return.



Thanasis Kourdoumpalos
Technical Sales Director
Aminocore BV

The Challenge: Rising Cost, Reduced Margin

Market Insight

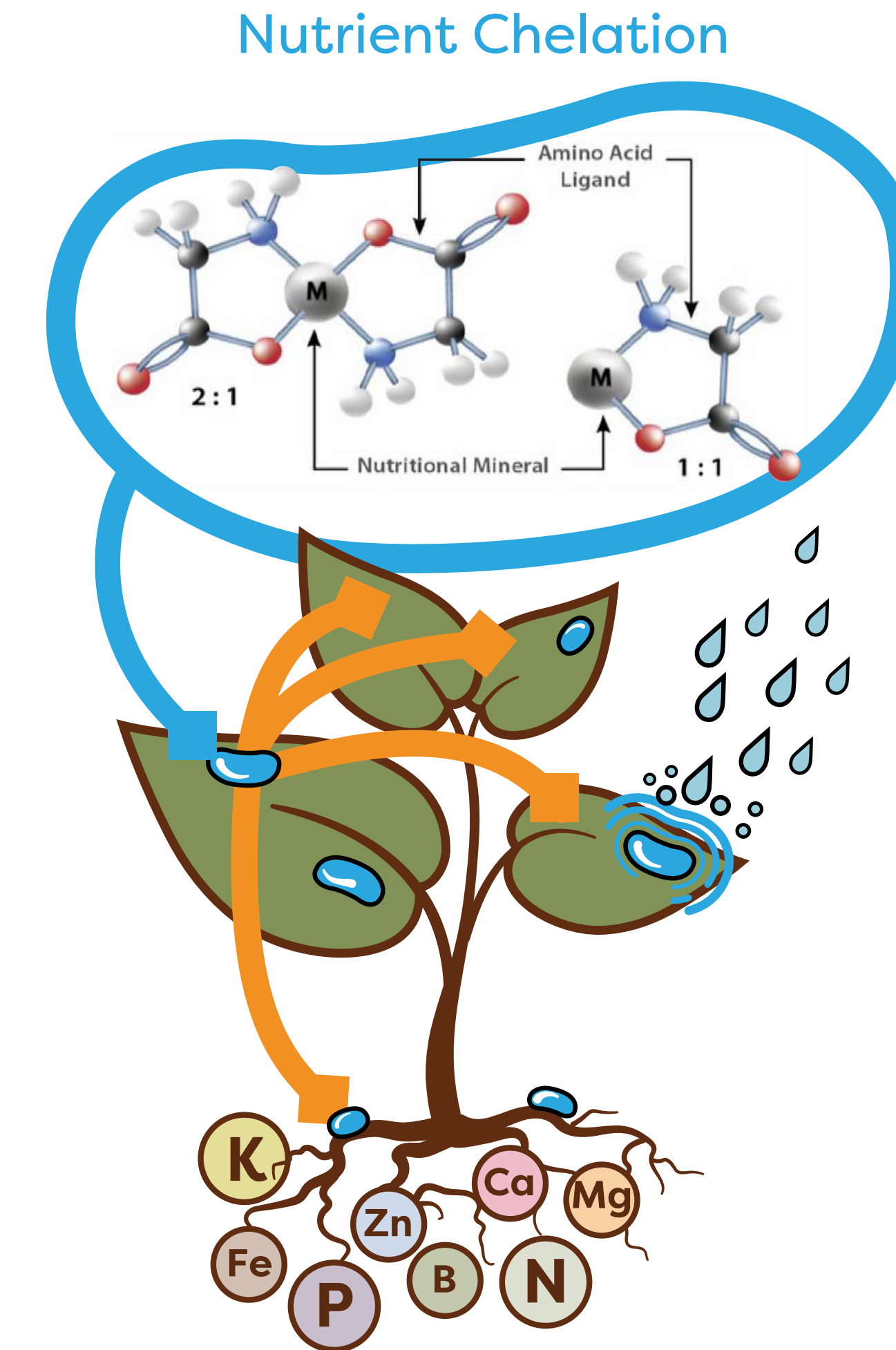


The Opportunity: Optimize without increased inputs

Goal:
Optimize current
fertilizer programs
to drive yields
with fewer
total inputs

Aminocore Technology Designed for Nutrient Efficiency

- Improves **nutrient availability** (chelation)
- Enhances **foliar and root uptake**
- Increases **nutrient mobility and translocation**
- Supports **plant metabolism and stress resilience**



Supreme Nutrient Chelating Effect

Outcome:
**More nutrients
reach target tissues,
faster and
more efficiently**

Formulation Value (B2B Focus)

Upgrade formulations without increasing nutrient load

Aminocore offers a functional raw material
for advanced fertilizers



Compatible with liquid
fertilizers, WSF, specialty blends

Suitable for biological and
microbial systems

Effective at low inclusion rates
(0,5–5%)

Delivers:

Improved nutrient stability

Higher uptake efficiency

Enhanced product performance

Proven impact

ROI – Return On Investment:

+10–30% efficiency = direct margin improvement per hectare

+30%

Nutrient uptake

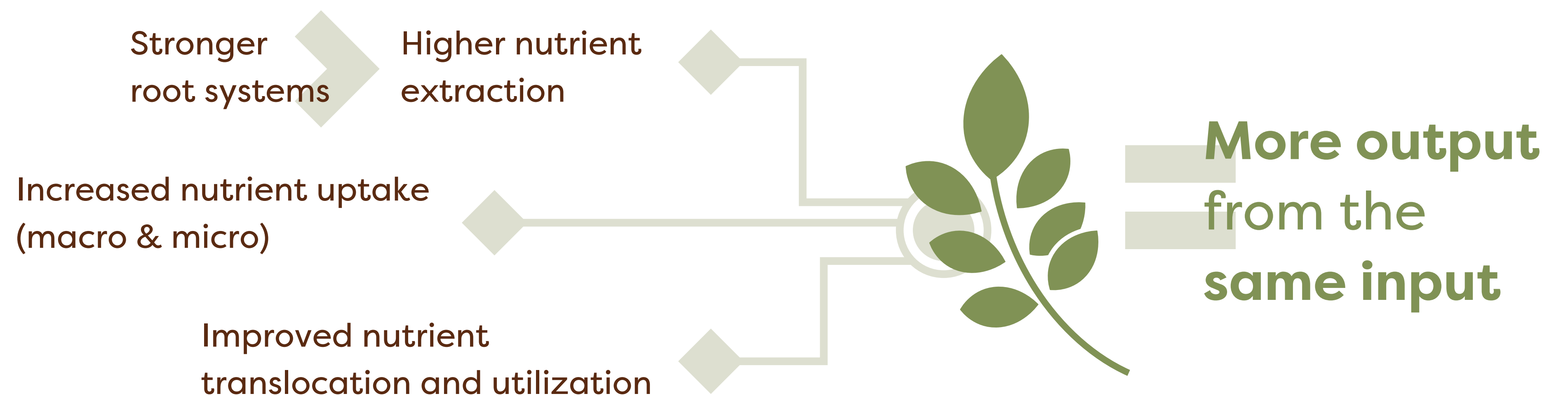
+19%

Yield

+81%

Root biomass

What Happens in the Plant



Improved macro- & micro-nutrient uptake, translocation and usage with only 100-300ml/ha

In collaboration with Sao Paulo State University Brazil



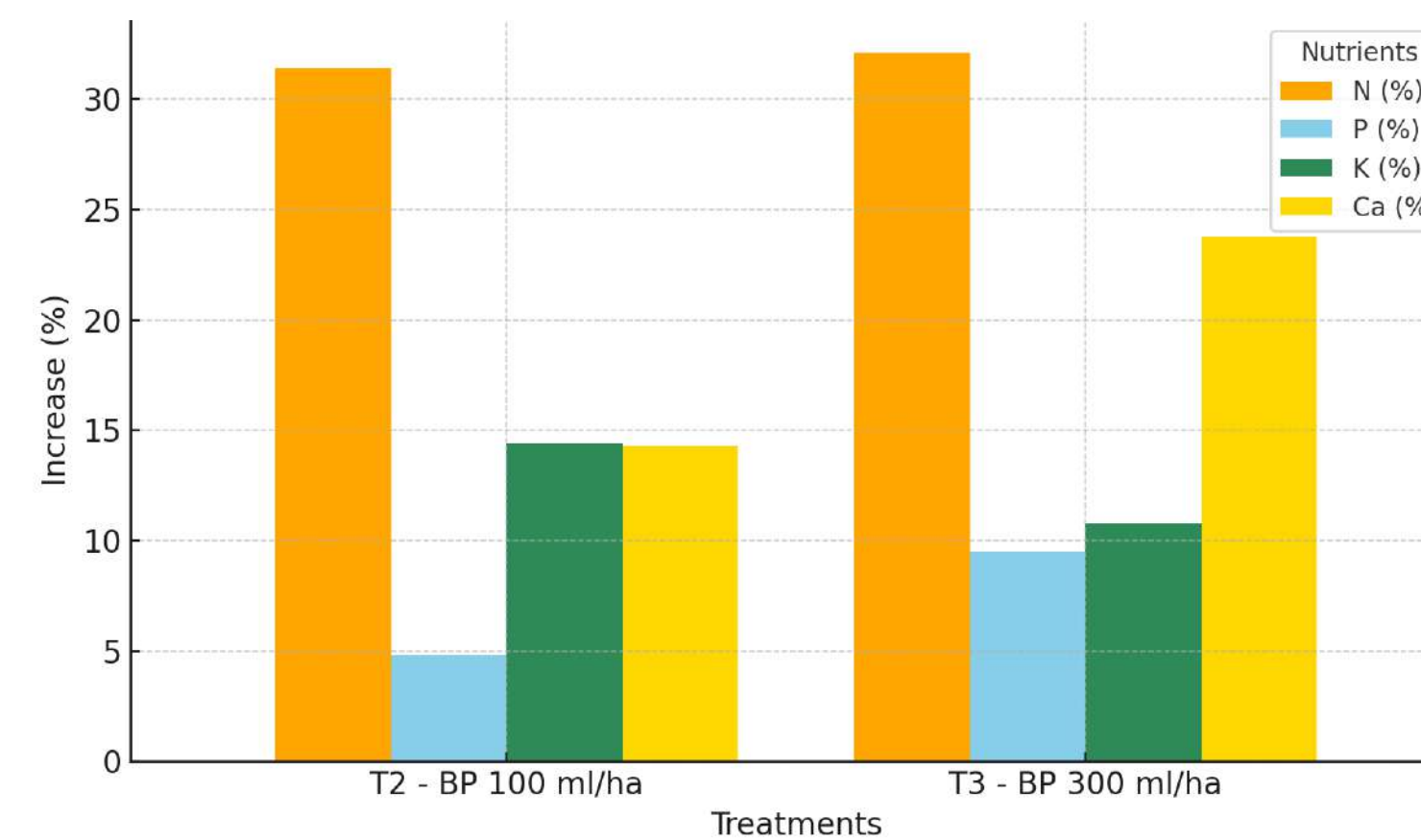
Lowest dose rate & highest efficacy

Up to 30% More Nutrient Uptake

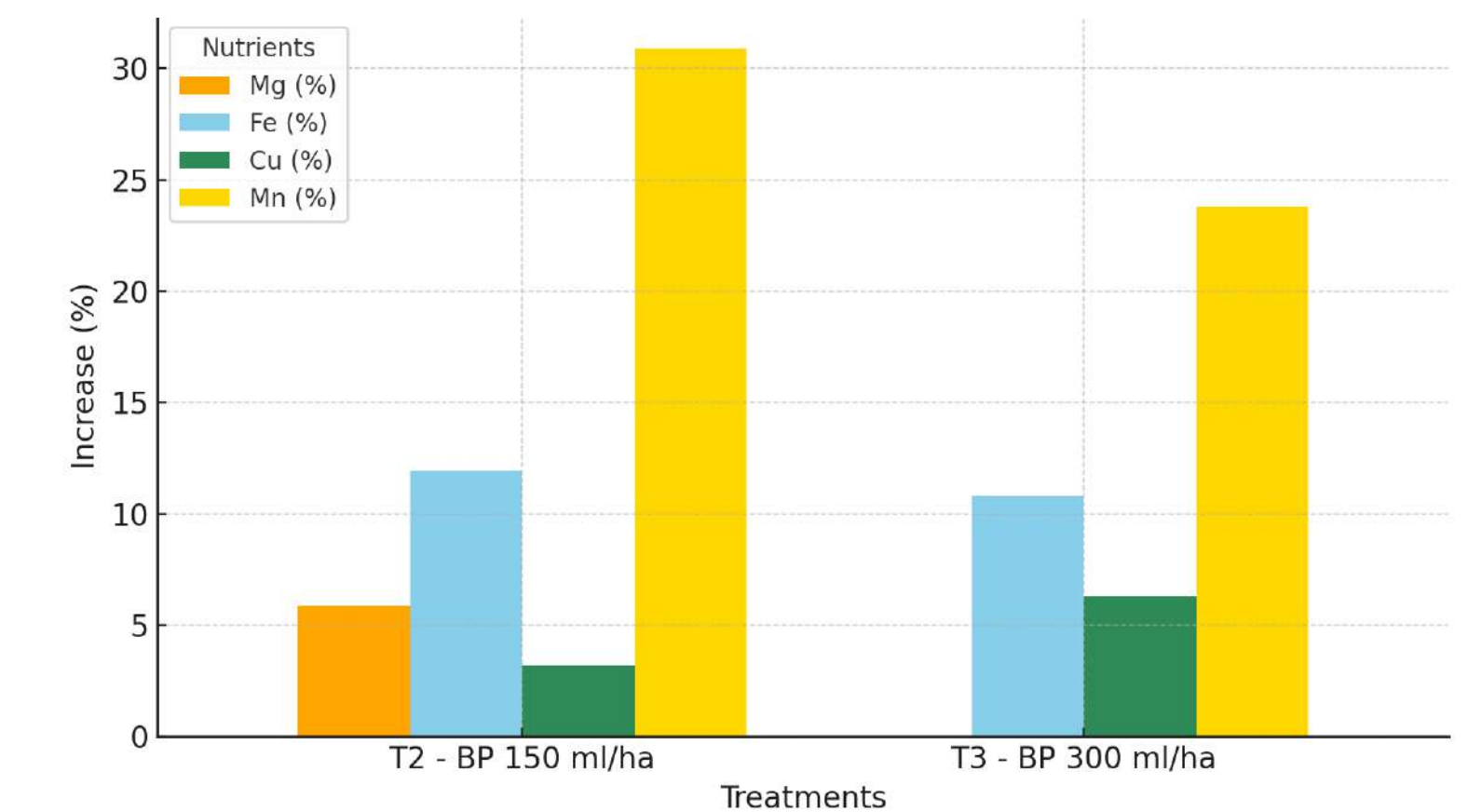
Consistent improvement across Macro & Micro nutrients



Macronutrients:
% Increase vs Control



Micronutrients:
% Increase vs Control



Key Results vs Control

N uptake: +30%
 P uptake: +28%
 K uptake: +10 - 15%
 Ca uptake: +14 - 24%

Mn: +24 - 31%
 Fe: +10 - 12%
 Mg: +6%
 Cu: +6%

Determine the nutrient-use efficiency and crop performance of Aminocore Complex in apple trees under open-field conditions



At a glance:

+19% NPK Efficiency

without Increasing Fertilizer Input



Nutrient Use Efficiency (UF / PFP Indices)

Index	Control	Aminocore Complex 2 L/ha	Gain %	Significance (P = 0.0382)
PFP-N (kg fruit per kg N)	87.2	104	+19 %	Significant
PFP-P (kg fruit per kg P ₂ O ₅)	333.4	397.6	+19 %	Significant
PFP-K (kg fruit per kg K ₂ O)	100.6	120	+19 %	Significant

- ◆ **+19% yield increase**
- ◆ **Improved fruit quality**
(°Brix, size, uniformity)
- ◆ **No phytotoxicity**

Maize Trial (High Impact)

More Yield From Less Fertilizer



Key Results

+10.1% Nutrient Use Efficiency
+10.1% Yield Increase

Biological Driver

Root biomass: +46% to +81%
Aerial biomass: +22-24%

Stronger plants = Better nutrient extraction

What It Means

- ✓ More grain per unit of fertilizer
- ✓ Improved nutrient uptake & conversion
- ✓ No phytotoxicity



As global agriculture enters a phase of tighter margins and higher uncertainty, efficiency is no longer optional, it is essential.

In a high-cost, high-risk market:

- **Farmers need lower fertilizer costs**
- **Farmers need higher ROI per input**
- **Distributors need differentiation**
- **Manufacturers need performance**

Aminocore delivers all four



aminocore enables:



- ✓ Better use of existing fertilizers
- ✓ Higher crop performance
- ✓ **Measurable economic return**

***Get more from less
with proven results!***

Let us help boost your ROI

aminocore.nl