

THE *REVOLUTION* HAS ARRIVED.

Producers across the globe are standing at a crossroads. Climate is changing, soils are degrading, input costs are soaring — and the pressure to decarbonise has never been more intense. Plantos Verde[®] is the breakthrough that changes everything.

FIELD-PROVEN TECHNOLOGY

VALIDATED BY INTERNATIONAL CLIENTS
& INSTITUTES

SUBSTANTIAL YIELD INCREASE

METABOLIC ENHANCEMENT TECHNOLOGY

TRIAL REPORT ·
COMMERCIAL SEASON

SOUTH AFRICA · COMMERCIAL
PRODUCTION

AGRIMEDIC GLOBAL · POTATO DEMONSTRATION TRIAL

Plantos Verde® × Potatoes

Mineral Metabolic Enhancer trial results proving measurable yield uplift, dry matter improvement, and commercial-scale ROI across all three processing potato cultivars.

LOCATION

South Africa

SEASON

Commercial

CULTIVARS

A · B · C

PREPARED BY

Agrimedic Global

Agrimedic Global

plantosverde® TRULY EFFICIENT

+46%

Peak Yield Uplift

Cultivar B · PVR Treatment

+10.4 t

Largest Absolute Gain

Cultivar C · PVR Treatment

269%

Return on Investment

At conservative 10% uplift

THE BOTTOM LINE

Every metric.
Every cultivar.
Improved.

This commercial trial delivered unambiguous results: Plantos Verde® increased yield, dry matter content, and premium tuber size across all three cultivars. The PVR programme consistently outperformed both the PV treatment and the untreated control.

+46.3%

Peak Yield Uplift

Cultivar B · PVR · Largest % gain in trial

+10.4 t/ha

Largest Absolute Gain

Cultivar C · PVR · +29.6% over control

20%

Highest Dry Matter in Trial

Cultivar C · PVR · Best processing quality

269%

Return on Investment

At conservative 10% yield uplift assumption

Programme & Setup



Location & Crop

South Africa · Commercial Production

Three established processing potato cultivars (A, B & C) with distinct root architecture and nutrient profiles tested.



Application Method

Hybrid delivery approach:

- 2 × Conventional crop sprayer
- 2 × Drone precision application

15 kg/ha total product rate
3 kg seed roll + 4 × 3 kg foliar



Trial Objectives

Confirm Plantos Verde® impact on:

- ✓ Yield (ton/ha)
- ✓ Tuber Size Distribution
- ✓ Dry Matter content (%)

Compare all 3 treatment scenarios



NPV — Control

Untreated baseline. No Plantos Verde applied.



PV — Foliar Only

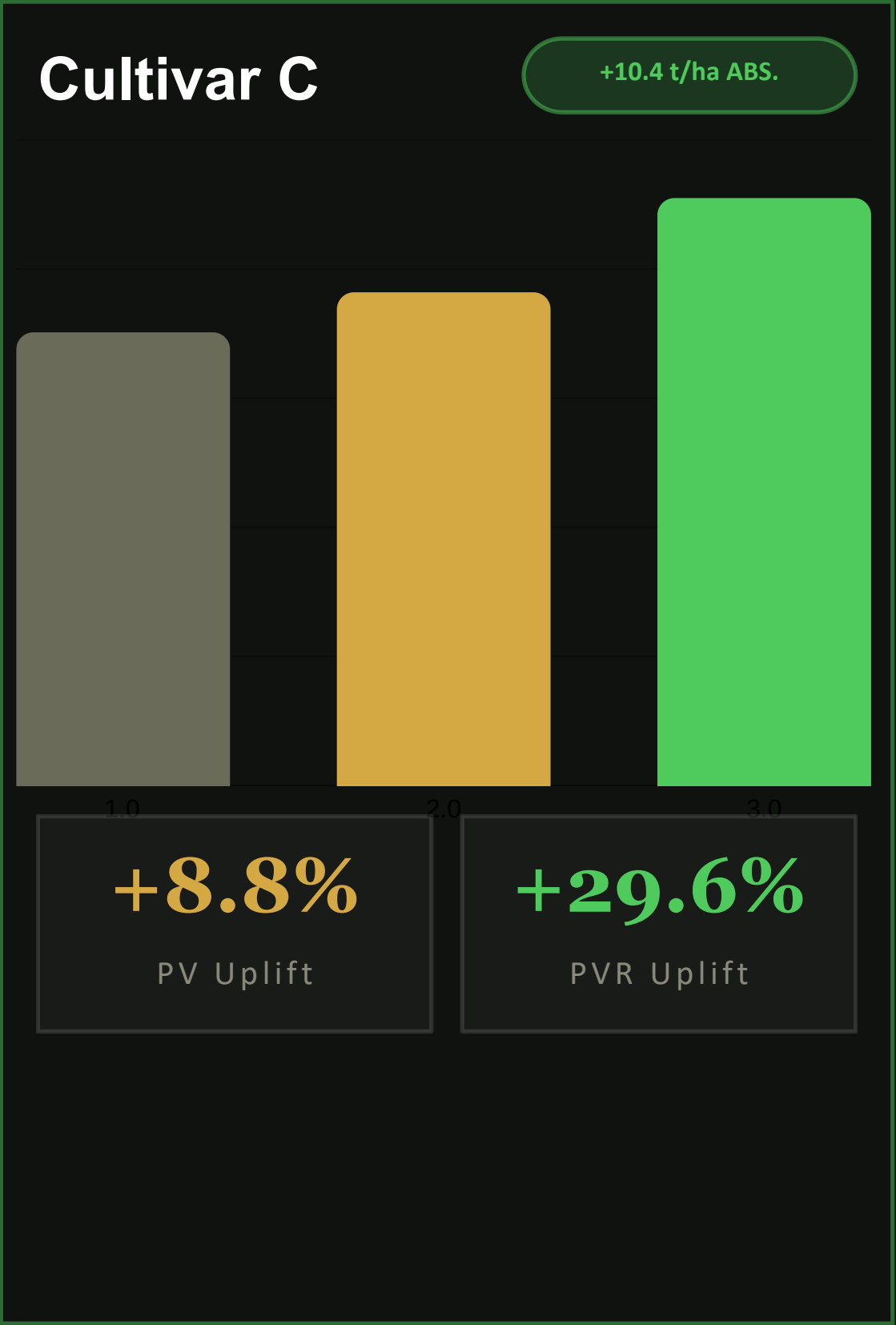
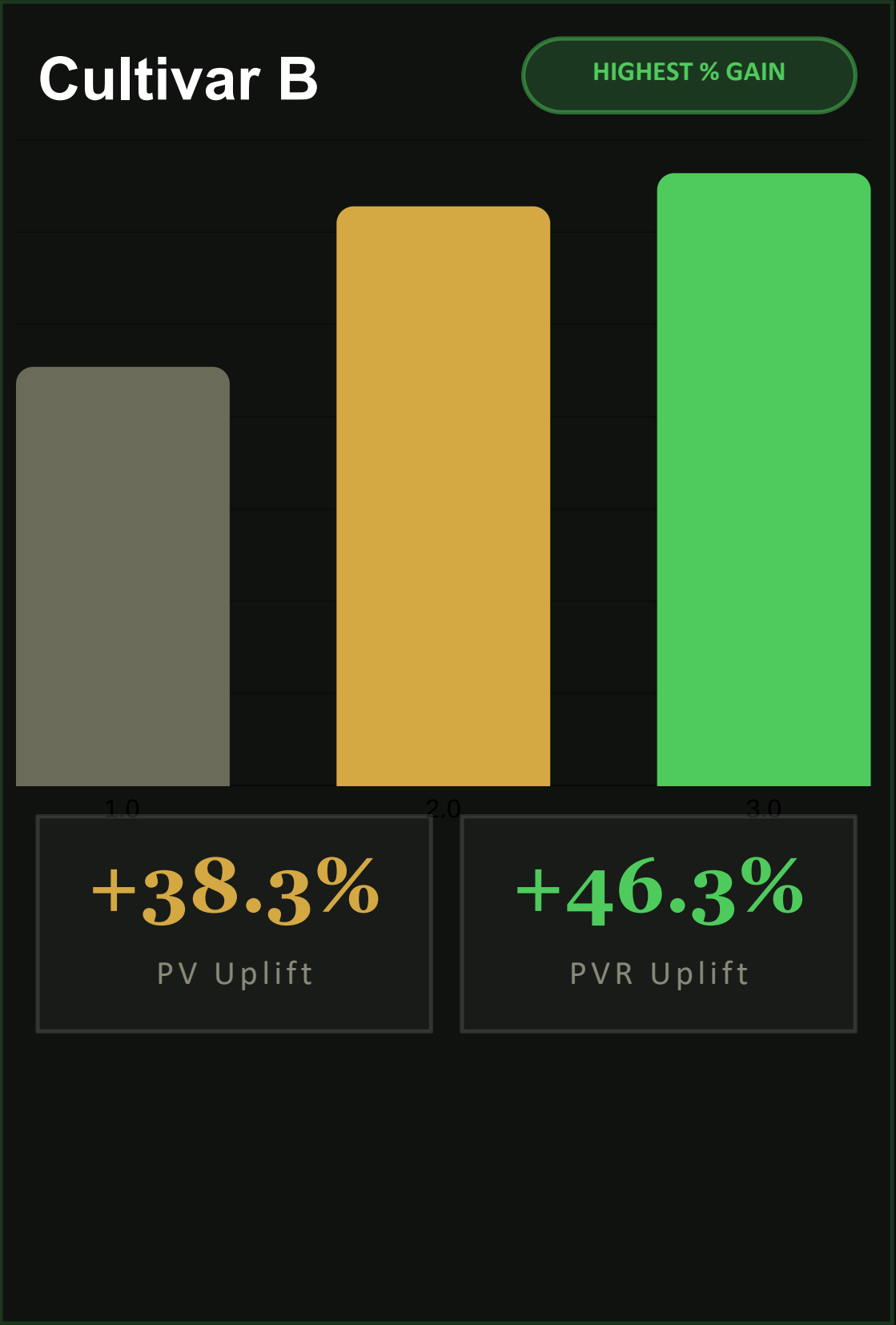
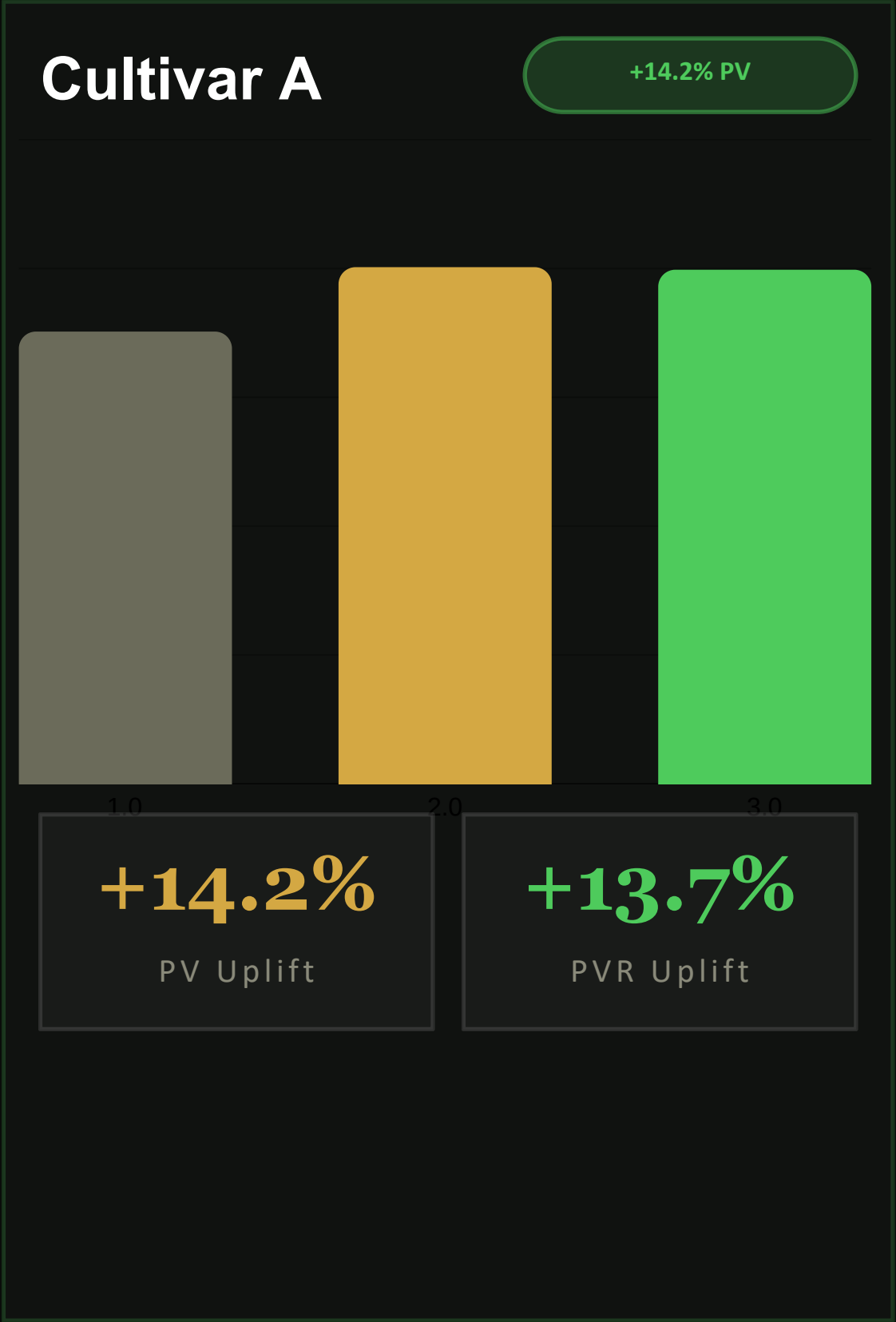
4 foliar applications. Standard programme.



PVR — Seed + Foliar

Seed rolled in PV + 4 foliar applications. Full programme.

Yield — All Three Cultivars



Dry Matter & Processing Quality

Higher starch.

Better process.

Dry matter is the key quality indicator for processing potatoes — higher dry matter means more usable product per tonne, better fry quality, and improved yield recovery at the factory gate.

20.0%

HIGHEST DRY MATTER IN TRIAL

Cultivar C · PVR — a 3.1pp improvement over the control, directly enhancing processing efficiency.

Cultivar A



Cultivar B



Cultivar C · BEST IN TRIAL



Tuber Size — Premium Shift

50—60+

mm shift achieved
across all cultivars

PVR consistently shifts tuber populations into premium 50–60+ mm size classes — improving marketable yield grade, pack-out ratios, and processing efficiency.

- CTRL — Higher small, very low 60+mm
- PV — Reduced small, higher mid/large
- PVR — Lowest small, highest 60+ proportion

Cultivar	Treatment	40mm	45mm	50mm	60mm	60+mm
Cultivar A	CTRL	High ↑	Moderate	Low ↓	Low ↓	Very Low ↓
	PV	Reduced	↑ Mid	Higher	Higher	Slight ↑
	PVR	Lowest	↑ Mid	Higher	Highest	Notable ↑
Cultivar B	CTRL	High ↑	Moderate	Low ↓	Low ↓	Very Low ↓
	PV	Reduced	↑ Mid	Higher	Higher	Slight ↑
	PVR	Lowest	↑ Mid	Higher	Highest	Strong ↑
Cultivar C	CTRL	High ↑	Moderate	Low ↓	Low ↓	Very Low ↓
	PV	Reduced	↑ Mid	Higher	Higher	Slight ↑
	PVR	Lowest	↑ Mid	Higher	Highest	Strong ↑

Return on Investment

269%

RETURN ON INVESTMENT

Calculated at a conservative 10% yield uplift — the trial delivered between +8.8% and +46.3% depending on cultivar and treatment. The true ROI potential is significantly higher.

Application rate	15 kg/ha (5 applications)
Application method	2× sprayer + 2× drone
Total product cost/ha	R2,955 (excl. VAT)
Total application cost/ha	R1,314 (excl. VAT)
Total investment/ha	R4,269
Additional gross profit/ha	R11,481
Return on Investment	269%

Let's **scale** what **works.**

*The trial proved Plantos Verde® delivers measurable, repeatable results.
Three cultivars. Every metric. The data is clear — time to commit to scale.*

Regenerative Farming

Climate-Smart Production

Higher Yields · Lower Impact

Stronger Farmer Livelihoods

Every producer in the world now has access to a technology that delivers more from every hectare, while building the sustainable future the sector demands.



FOR DEMONSTRATIONS & TECHNICAL BRIEFS

Please email us at info@agrimedic-global.com or visit:
www.agrimedic-global.com
www.linkedin.com/company/agrimedic

plantosverde®
TRULY EFFICIENT