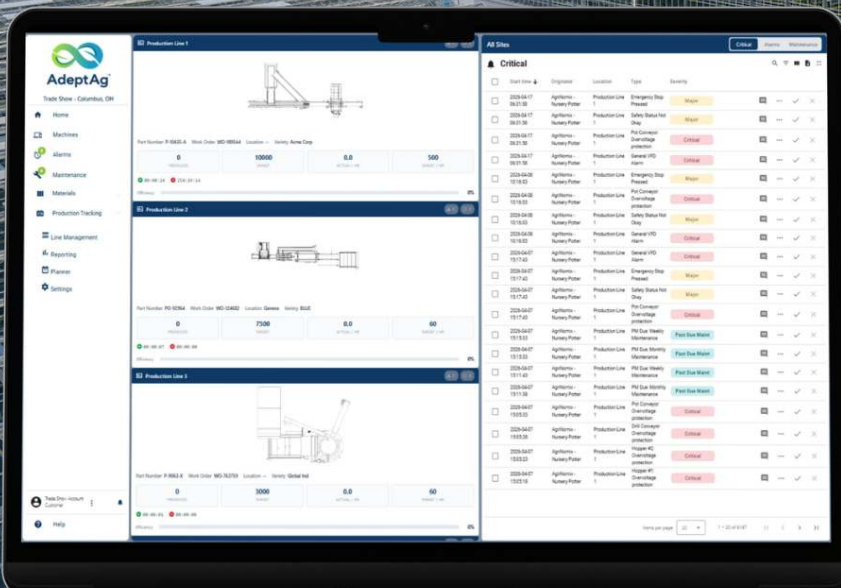




THE ADEPTAG+ GUIDE

See your whole operation. Run it on data, not guesswork.



AdeptAg+ turns the machines you already own into an operation you can actually see, from the floor to your phone.

Grow. Smarter.

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Inside This Guide

Four modules, how AdeptAg+ is structured, and the platform in action.

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Why We Built AdeptAg+

Turn your automation into an operation you can actually see

WHY WE BUILT IT

AdeptAg+ exists to close the gap between what growers think is happening on the floor and what's actually happening, across production, irrigation, environment, and every piece of equipment that drives the business.

WHAT ADEPTAG+ DOES

Three things, every day

1 See What's Happening

Purpose-built hardware on every machine captures the data that matters, run status, speed, faults, and output, so you always know what your equipment is doing.

2 Make Smarter Decisions

Live dashboards, production tracking, alerts, and historical reporting turn raw machine data into the answers you need to act, from anywhere, on any device.

3 Stay Running, Stay Supported

A managed network that keeps everything online, data flows during outages, firmware updates happen in the background, AdeptAg support troubleshoots remotely.

THE SHIFT

Before vs. with AdeptAg+

BEFORE, RUNNING ON TRUST

How most operations run today

- × No record of what actually happened on a shift
- × Owners rely on phone calls and walk-throughs to know what's running
- × Maintenance is reactive, wait for something to break, then scramble
- × Bottlenecks stay hidden because nobody is measuring them
- × A small issue becomes an expensive one before anyone notices

WITH ADEPTAG+, RUNNING ON DATA

How operations run with visibility

- ✓ Every shift is recorded, run time, output, downtime, faults
- ✓ Owners see what's happening from anywhere, on any device
- ✓ Maintenance shifts from reactive to predictive
- ✓ Bottlenecks show up in the data, and so do the fixes
- ✓ AdeptAg support can see the problem and guide the fix remotely

Our goals for every grower

1

End the "I think we're on track" conversation

Replace gut-feel updates with real numbers, production rates, job status, and downtime visible from any phone or laptop.

2

Hit production targets without paying overtime

Catch falling-behind early enough to adjust the line, not after the shift is over.

3

Reduce emergency part shipments

Move from reactive to predictive maintenance, service on your schedule using real run hours and fault history, instead of a line-down scramble at the worst possible time.

4

Build a continuous-improvement program on real data

Five years of historical telemetry, reports, and exports, so every decision is backed by what actually happened, not what someone remembers.

Material Usage

See exactly what you're putting in every batch

THE PROBLEM

Your soil system mixes material all day, but the usage data sits trapped in the controller. You can't easily reconcile what you ordered against what you actually consumed, and there's no reminder to recalibrate the hoppers before output drifts. **The data exists, it's just not connected to anything useful.**

WHAT IT DELIVERS

Material usage, finally connected

1 Consumption Reporting

Basic reporting of the total raw material consumed over any period, so you can reconcile against what you actually ordered.

2 Calibration Reminders

Usage-based reminders to recalibrate hoppers and conditioners, so what the line puts out stays consistent.

3 Recipe Visibility

See the recipe each line is running, pulled straight from the soil system, no walking to the machine.

WHAT'S INCLUDED

Material Usage comes free with AdeptAg+ – only requires an internet connection

- ✓ Recipe visibility on every line
- ✓ Reconcile usage against what you ordered
- ✓ Email & text alerts on system faults
- ✓ Total material consumption reporting by period
- ✓ Historical data & CSV / PDF exports
- ✓ Calibration reminders based on real usage

EQUIPMENT WE COVER TODAY – Recipe-based soil systems & processing

Runs on AdeptAg & AgriNomix recipe soil systems

- ✓ **AdeptAg Recipe Soil System**, full recipe, batch & consumption data
- ✓ **HydraFiber Expander V3**, Smart Machine, connectivity built in
- ✓ **HydraFiber Processing Unit**, usage summary & run-hour data
- ✓ **Any AgriNomix soil system built after 2014**, built-in material tracking we can tap into

No extra sensors needed. AgriNomix recipe-based soil systems built after 2014 already capture the material data, AdeptAg+ just connects it to the platform, the line, and your reporting, often with nothing more than an internet connection.

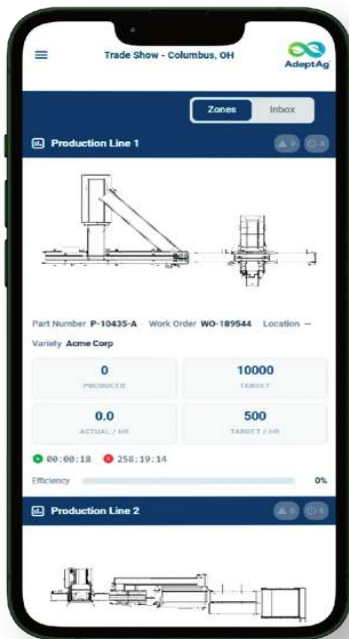
WHY IT PAYS OFF

What growers do with this data

- ✓ Reconcile what you ordered against what you actually consumed
- ✓ Get calibration reminders based on real usage, not the calendar
- ✓ Simplify your spreadsheets, reports of actual material usage, not theoretical
- ✓ Get off paper, pounds or cubic yards of each material, automatically

AdeptAg+ in Action

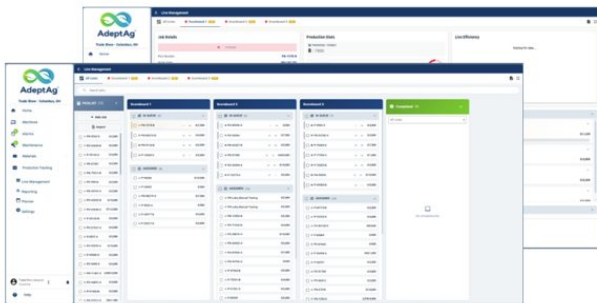
Every module shares the same dashboards, alerts, and history, on any device



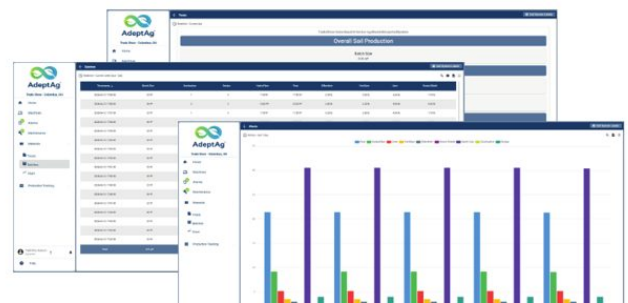
ADEPTAG+ MOBILE

Now in your pocket

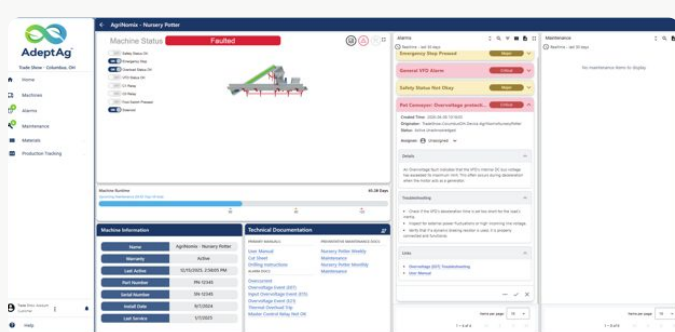
The AdeptAg+ mobile app is here. Check live rates, downtime, and alerts from the floor, the office, or the road, no workstation needed.



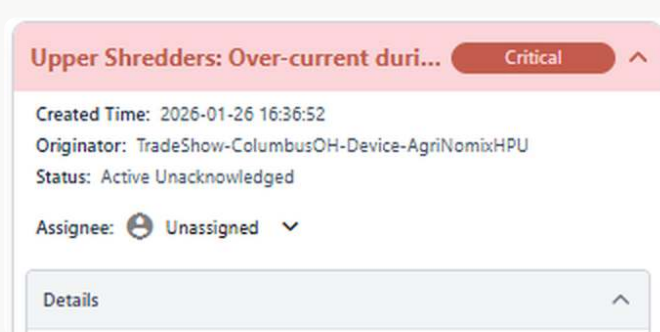
Production Tracking



Material Usage



Live Monitoring Dashboard



Real-time Alarms

Production Tracking

Connect every machine that produces, see it, maintain it, and let it run your jobs

THE PROBLEM

Your lines are supposed to be running, **but the actual production rates fall short of your expectations. Who do you have to call to get the story? Do you only find out at the end of the day... or the week?** Production Tracking connects every machine on the line and closes that gap.

WHAT IT DELIVERS

Connect the whole line, then let it run itself

1 Connect Every Machine

Bring every machine that produces onto one line view, seeding, soil, filling, trimming, potting, with live run status, rate, and count.

2 Health & Maintenance

Machine health and run-hour maintenance reminders on every connected machine, so small issues surface before they stop the line.

3 Direct the Changeover

With Pro, AdeptAg+ starts to configure your machines for the next job, for example, changing the recipe on your soil system automatically.

PRO FEATURES

Pro runs, and directs, your production.

ADEPTAG+ PRO — CORTEX CONTROLLER REQUIRED (TV SCOREBOARDS + OFFLINE)

- ✓ Full production tracker, every line, every shift
- ✓ Directs machines on changeover, sets the soil recipe for the new job
- ✓ Downtime & changeover tracking
- ✓ Shift comparisons, real-time KPIs & escalation alarms
- ✓ Keeps running during internet outages
- ✓ Job management & scheduling
- ✓ Cost-to-produce roll-up, labor + material + overhead per batch
- ✓ Local TV-ready scoreboards on the floor
- ✓ 5 years of telemetry · CSV & PDF exports

LINES WE COVER TODAY – Built for the production floor

Vendor-agnostic, runs on most production lines

- ✓ **Any Seedling Line**, seeding & propagation
- ✓ **Any Hand Line**, manual production lines
- ✓ **Any Transplanter Line**, transplanting production
- ✓ **Any line where throughput matters**, tray filling, trimming, potting, and beyond

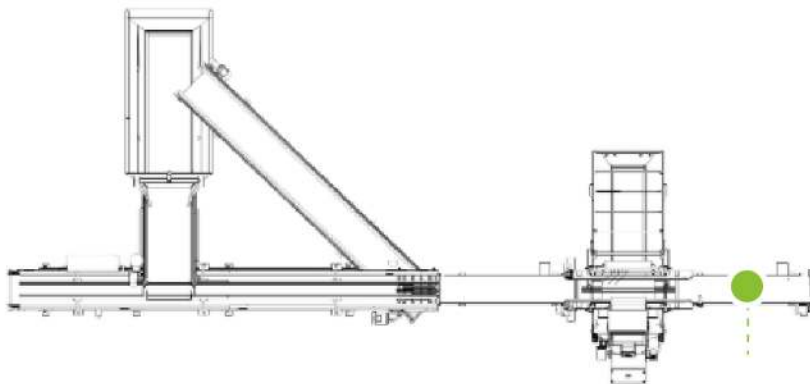
WHY IT PAYS OFF

What growers do with this data

- ✓ Connect every machine that produces, one view from seeding to potting
- ✓ Cut changeover time, the line sets the soil recipe for the next job automatically
- ✓ Get a real cost-to-produce per batch, labor, material, and overhead
- ✓ Drive maintenance from real run hours on every machine, not estimates
- ✓ Remove manual recipe error and get off paper for good
- ✓ Build a continuous-improvement program with 5 years of historical data

Where the Numbers Come From

Every unit counted the moment it passes — live on the floor scoreboard, no clipboard required.



A sensor does the counting

A photo-eye counts every tray as it crosses this point on the line. That single signal drives **Produced / Target** and **Current Rate** on the board below — updated every second, on every screen.



Irrigation & Pump Stations

Catch failures before they kill the crop

THE PROBLEM

Pump stations and irrigation systems are high-value, mission-critical assets, but most only report when something's already broken, if they can self-report at all. **When a pump fails mid-cycle, the crop impact is immediate.** This module isn't meant to replace your irrigation controls, it provides accountability of run-status and performance on equipment you can't afford to lose.

WHAT IT DELIVERS

Three things, every day

1 Live Pump Telemetry

Real-time current draw, voltage, frequency, and fault status streamed directly from VFDs on every pump.

2 Predictive Analysis

Trend data over time to spot degradation early, catch current anomalies and thermal warnings before they become failures.

3 Utilization Insight

Run hours, cycle counts, and duty cycles across every pump, know which assets are working hardest and which need attention.

PRO FEATURES

Pro builds the prediction on every station.

ADEPTAG+ PRO — NO CORTEX CONTROLLER REQUIRED

- ✓ Utilization tracking, run hours, cycles, duty cycles
- ✓ Predictive analysis & trend visualization
- ✓ Historical baselines vs. current performance
- ✓ 5 years of telemetry stored every 5 seconds
- ✓ Water consumption trends, daily, weekly, monthly
- ✓ Failure detection, current anomalies & thermal warnings
- ✓ Advanced alarms & escalation paths
- ✓ Daily & monthly reports · CSV / PDF exports

EQUIPMENT WE COVER TODAY

Pumps, VFDs, and smart irrigation

Vendor-agnostic, runs on most pumps and VFDs

- ✓ **Irrigation pump systems**, any pump with a VFD on Modbus RTU
- ✓ **Pump skids**, active development, available soon
- ✓ **Any VFD with Modbus RTU**, speed, current, voltage, faults over RS485
- ✓ **Pump contactors & relays**, run/stop, fault, cycle states
- ✓ **AdeptAg Smart Boom**, connectivity built in, no add-on hardware
- ✓ **Third-party & legacy pump equipment**, mixed-brand operations supported

WHY IT PAYS OFF

What growers do with this data

- ✓ Catch pump failures before they hit the crop, no more mid-cycle surprises
- ✓ Spot degrading bearings or impellers weeks before failure via current trends
- ✓ Justify CapEx on pump replacement with real performance data
- ✓ Schedule maintenance on real run hours, not estimates
- ✓ Eliminate unnecessary pump rebuilds, only service what actually needs it
- ✓ Get faster, more effective AdeptAg remote diagnostic support on pesky problems, reducing truck rolls

Environmental & Utility Monitoring

Know your growing conditions, and what your equipment costs to run

THE PROBLEM

Hoop houses often have nothing more than a thermostat, no record of what the crop saw overnight, no alert when humidity climbs into the disease zone. And the utility bill arrives at month's end with no way to tie it back to specific equipment. **By the time you notice a problem, the crop, or the power bill, has already paid the price.**

WHAT IT DELIVERS

Conditions and consumption, on one platform

1 Temperature & Humidity

Real-time and historical tracking across every structure, see what the crop is actually experiencing, hour by hour.

2 Power & Energy Use

Per-machine kWh, run hours, and run status, see which assets drive the utility bill and verify equipment actually fired.

3 Alerts & Anomalies

From flagging out-of-range conditions before disease takes hold or crops get fried, to power-draw anomalies of a motor about to fail.

PRO FEATURES

Pro shows the trend.

ADEPTAG+ PRO — NO CORTEX CONTROLLER REQUIRED

- ✓ Historical temperature & humidity trends
- ✓ Run-time verification for heaters, fans & vents
- ✓ Advanced alarms & escalation paths
- ✓ Energy consumption trending, daily, weekly, monthly
- ✓ Anomaly detection on power draw
- ✓ 5 years of telemetry · daily/monthly reports · exports

EQUIPMENT WE COVER TODAY

From hoop houses to any circuit

Vendor-agnostic, runs on most sensors and circuits

- ✓ **Hoop houses & simple structures**, temperature, humidity, power
- ✓ **Any motor or pump**, current and run-time tracking
- ✓ **Temp & humidity sensors**, through the Connectivity Box
- ✓ **Heaters & ventilation**, run status & power consumption
- ✓ **Compressors & chillers**, duty cycle and energy draw
- ✓ **Sub-metered & VFD circuits**, breaker-level monitoring over Modbus

WHY IT PAYS OFF

What growers do with this data

- ✓ Stop disease pressure before it takes a crop, humidity alerts in time to act
- ✓ Reconcile the utility bill against actual per-machine consumption
- ✓ Build a real cost-per-unit-produced number, not an allocation guess
- ✓ Catch a heater failure at 2am, not at sunrise when the damage is done
- ✓ Identify equipment quietly burning more power than it should
- ✓ Find the one hoop house that's way too hot, or too cold, instead of relying on grower inspections

How AdeptAg+ is Structured

One platform. Start free, add the modules you need.

THE MODEL

Every connected machine starts on **Basic** at no cost — live readings, alerts, and maintenance reminders, free, on every machine (*some machines will need a Connectivity Box to connect*). When you want history, analytics, and prediction for a given **module**, that single module moves up to **Pro**. You pay only for the modules you turn on.

WORKS WITH YOUR EQUIPMENT

AdeptAg+ stands on its own. Most modules are **vendor-agnostic** — they run on the equipment you already own, whatever the brand, as long as it exposes the right signals (a VFD on Modbus, a relay, or a sensor we can wire in). **Material Usage** is the one exception: it taps the built-in recipe data of AdeptAg & AgriNomix soil systems. You don't have to be an AgriNomix shop to get value from AdeptAg+.

HOW PRICING WORKS

Per module

Pay only for the modules you move to Pro. Basic stays free, always.

Billed annually, per site

Each Pro module is priced monthly and billed annually, per site.

Regardless of device count

One module price covers every device in it, all your lines, pumps, or sensors.

THE TIERS

INCLUDED FREE

AdeptAg+ Basic

- ✓ Live readings from every connected machine
- ✓ Email & text alerts + maintenance reminders
- ✓ Out-of-range notifications
- ✗ No historical data or trends

RECOMMENDED

AdeptAg+ Pro , per module

- ✓ Full history & trend analysis
- ✓ Predictive & condition-based alerts with escalation
- ✓ Run-time & performance verification
- ✓ 5 years of telemetry · reports · exports

The **Cortex controller** is only required for Pro on **Production Tracking**, for local TV scoreboards and keeping data flowing during internet outages. Every other module natively runs on the cloud, using data from smart machines and telemetry from Connectivity Boxes added to legacy equipment. If needed, a Cortex controller can be added to keep data flowing locally during spotty internet.

ACROSS EVERY MODULE

Maintenance, alarms & support, built in

FREE · MAINTENANCE

Hour meters, run-time, and service-interval reminders come standard in every module.

PRO · ADVANCED ALARMS

Condition-based alerts and escalation paths when an alarm isn't acknowledged in time.

INCLUDED · REMOTE SUPPORT

AdeptAg sees your live data, reads fault codes, and pushes OTA updates, with every subscription.

Talk to our Sales Team

Every region and the leads who own it

REGIONAL SALES MANAGERS



Bill Bozicevich
CALIFORNIA & OREGON
831-234-2437
bbozicevich@adeptag.com



Eric Bissonnette
PACIFIC NORTHWEST
778-789-7980
ebissonnette@adeptag.com



Noel Yan
SOUTHWEST
949-751-8151
nyan@adeptag.com



Rob Draga
MIDWEST
440-213-7937
rdraga@adeptag.com



Ashtyn Chen
MID-ATLANTIC
740-564-0900
achen@adeptag.com



Chris Locatelli
NORTHEAST
860-202-3787
clocatelli@adeptag.com



Dustin Banks
SOUTHEAST
440-219-5478
dbanks@adeptag.com



Barry Alders
GREATER CANADA
905-658-0111
balders@adeptag.com



Matt Van Geest
SOUTHERN ONTARIO
905-658-0628
mvangeest@adeptag.com

SPECIALTY & TECHNICAL LEADS



Brian Groves
ORNAMENTALS · COMMERCIAL
LEAD
704-654-8850
bgroves@adeptag.com



Kevin Prol
AUTOMATION · TECHNICAL SALES
LEAD
862-332-1288
kprol@adeptag.com



Chris Locatelli
CONTROLS · TECHNICAL SALES
LEAD
860-202-3787
clocatelli@adeptag.com



Andrew Van Geest
IRRIGATION · TECHNICAL SALES
LEAD
905-658-8224
avangeest@adeptag.com



Dave Taylor
PRODUCE · COMMERCIAL LEAD
289-673-4537
dtaylor@adeptag.com

OUR OFFICES

USA

AgriNomix Automation Solutions
300 Creekside Drive, Oberlin, OH 44074
(440) 774-2981

CANADA

Zwart Irrigation Solutions
4881 Union Road, Beamsville, ON L3J 0V5
(905) 563-9606

CANADA

AdeptAg Surrey, BC
111-19097 26th Ave, Surrey, BC V3S 3S7
(604) 385-4411

CANADA

Plantech Controls Solutions
3466 S Service Rd, Vineland Station, ON
L0R 2E0
(905) 562-7345

CANADA

Plantech West Controls
1964 Road 3 E, Kingsville, ON N9Y 2E5
(226) 918-5051

CANADA

Plantech West Controls
267 Colborne St Unit B, Chatham, ON N7M
3M3
226-798-0124



Let's Talk About Your Operation.

From production and irrigation to environment, utilities, and alarms, AdeptAg+ turns the machines you already own into one operation you can actually see, from the floor to your phone.

Head Office

AdeptAg North America

300 Creekside Drive

Oberlin, OH 44074

1-877-233-7824 | adeptag.com

Grow. Smarter.