

The background of the entire image is a lush green vineyard on a rolling hillside. The rows of grapevines are terraced and follow the contours of the land. In the distance, there are blue-toned mountains under a clear sky. A few small houses are visible on the hillside. A tall, thin utility pole stands in the lower right foreground.

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AGROLOGY

Grow with confidence.

2023

Mission

**To Help Growers
Beat Climate
Change.**

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We are the company that:



Gives growers predictive information to protect crops.



Helps growers monitor & validate carbon sequestration.



Delivers a superior, holistic experience.

Loved by Customers

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“Every morning Agrology gives me a snapshot of what we need to focus on. It’s a game changer.”

- Riggs Lokka, Emeritus Vineyards

“The Agrology system is very approachable. This technology could change how the industry approaches data-driven decisions.”

- Courtney Shifflet, The Duckforn Portfolio

Solution

Agrology beats climate change with **ingenuity**

Machine learning (ML) and artificial intelligence (AI) to monitor and predict

Custom internet of things (IoT) technology to sense conditions at scale

Patented software algorithms transform sensor data into predictive insights

Superior UX to deliver all of this to growers

Gathers Data.

**Predicts
Outcomes.**

**Alerts Growers of
Issues.**

Consists of:



- **Rugged ground-truth sensors** in the ground & in the canopy to quantify every nano climate on your property.
- **Multiple data inputs** from local weather stations & publicly available agricultural information, combined with grower data, to generate insights specific to the farm, block, or acre.
- **A predictive software platform** that applies machine learning & artificial intelligence to turn gathered data into customized insights and guidance for growers.
- **Insights growers access anywhere:** Our mobile app provides access to insights anywhere, anytime, even offline on-farm.

The Agrology Platform



Two Systems For Growers:

Sentinel Climate Monitoring System

Arbiter Carbon Monitoring System

- **The Sentinel System** monitors and predicts field-level data on smoke taint, drought and irrigation optimization, microclimate threats from extreme weather, as well as pest and disease outbreaks.
- **The Arbiter System** helps growers track and quantify soil carbon in real time. It is the only system to continuously monitor and quantify soil carbon flux.
- **Subscribe** to one, or both.
- **Everything you need.** Each system includes the hardware and software needed to continuously monitor multiple data inputs in the air, within the canopy, and in the soil.

Devices

Rugged.

Ground truth.

**In the ground, in
the canopy.**

**Monitors dozens of
inputs.**

Agrology:

Installed in minutes.

Gathers much more
data than other
solutions.

Connected, even in
rural areas.

Uploads data every
30 minutes.

Subscription-based.
Nothing to buy.
Nothing to replace.
As many as you
need.

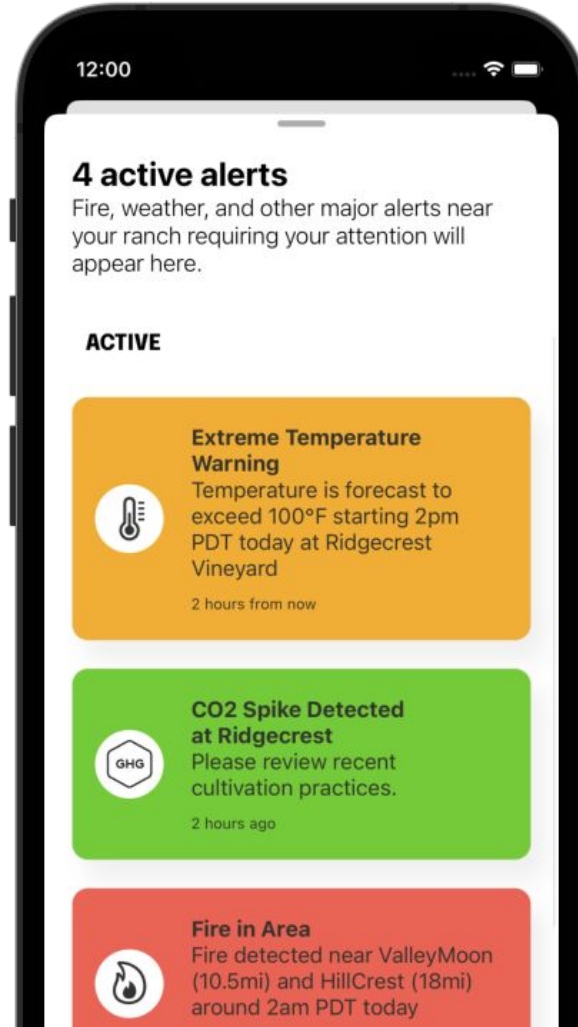
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Alerts

**Real-time
monitoring.**

**Predictive insights
before there's an
issue (up to 4 days
in advance).**



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- Track and quantify soil carbon in real time.
- Continuously monitor and quantify soil carbon flux.
- Gather real-time and historical insights on soil health.
- Monitor soil carbon sequestration and can quickly detect carbon loss via carbon dioxide emissions events.
- Gather data on soil moisture levels and can monitor water tables and soil conditions.
- See and report on the progress of regenerative practices.
- Track what's happening ecosystem wide.
- No more slow and labor intensive lab tests.

“Farmers, ranchers, and growers need high quality ground-truth data to help them with the transition to climate-smart agricultural practices. This data will prove their success, and help them capture value in carbon markets,”

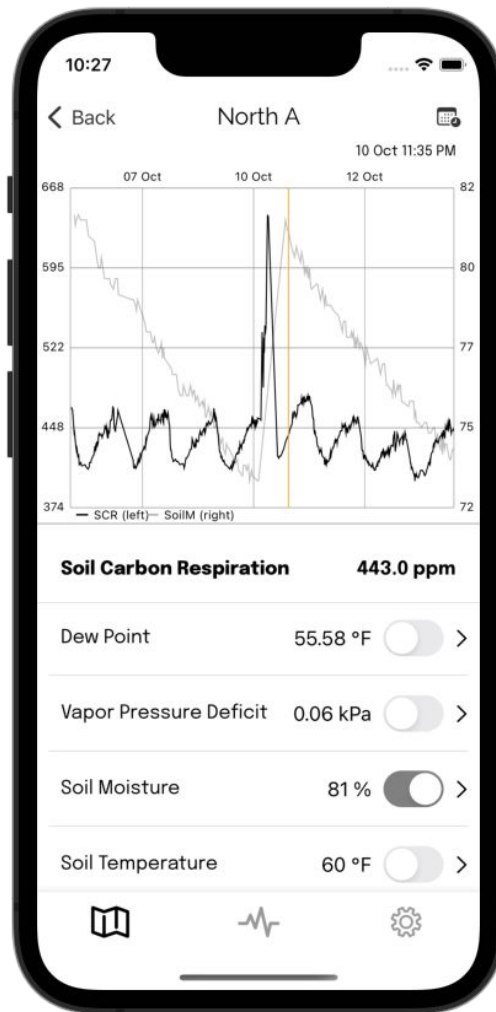
- Adam Koeppel, Co-Founder & CEO, Agrology



**Climate-Smart
+
Grower Smart =
The Agrology Platform**

The Arbiter Carbon Monitoring System

CO2 Sensing.
Greenhouse Gas
Monitoring.
Sustainable &
Regenerative
Activity
Quantification.



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The Arbiter Carbon Monitoring System

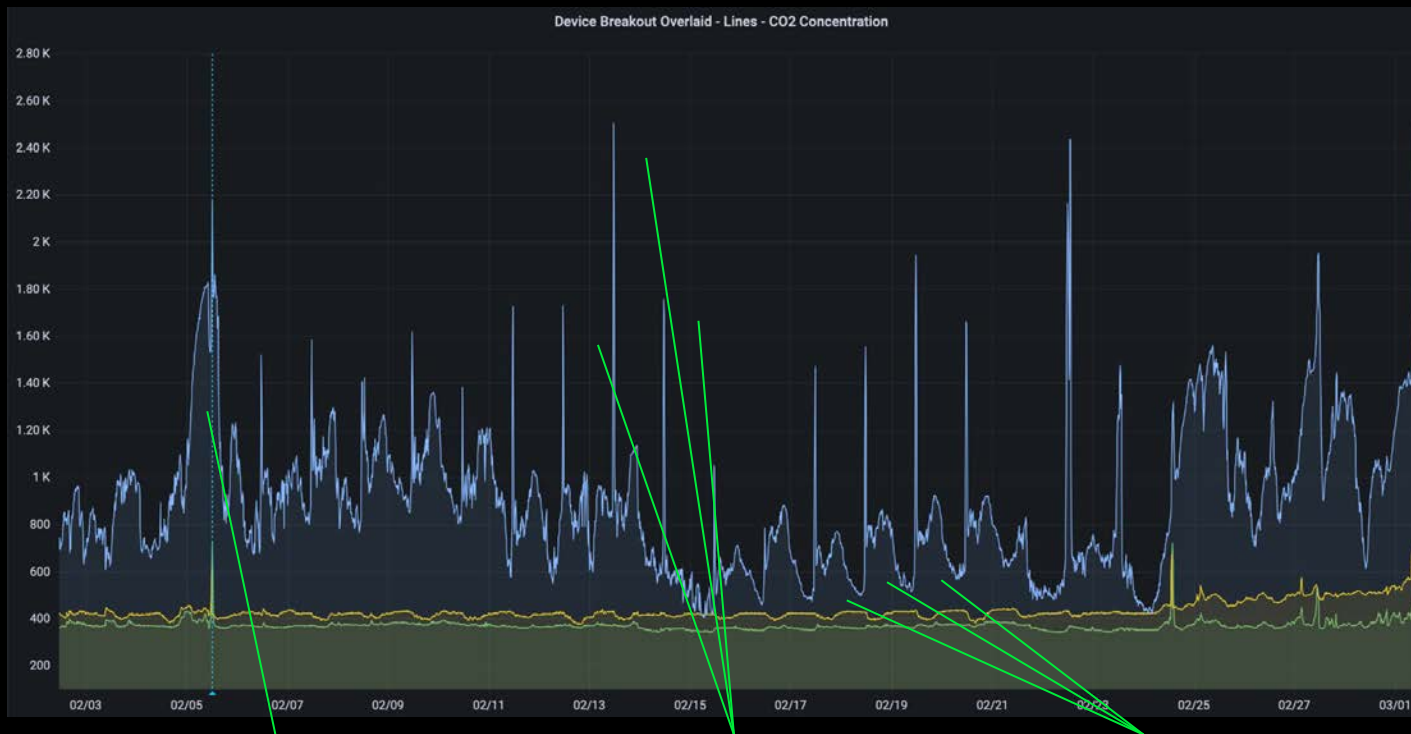
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- **The only Carbon Monitoring System on the market.**
- **Monitors carbon flux in/out of soil.**
- **Monitors & measures soil carbon respiration.**
- **Tells the story of the health of the soil & the success of regenerative practices.**



*Agrolgy soil carbon sensors,
Braga Fresh fields in Salinas, Ca.*

Comprehensive Carbon Flux and Soil Health Data



**Precipitation flushing
CO2 from soil pores**

**Root exudate triggered
microbiome respiration
spikes**

**Diurnal soil carbon
respiration cycle**



Sentinel Climate Monitoring System Smoke Risk

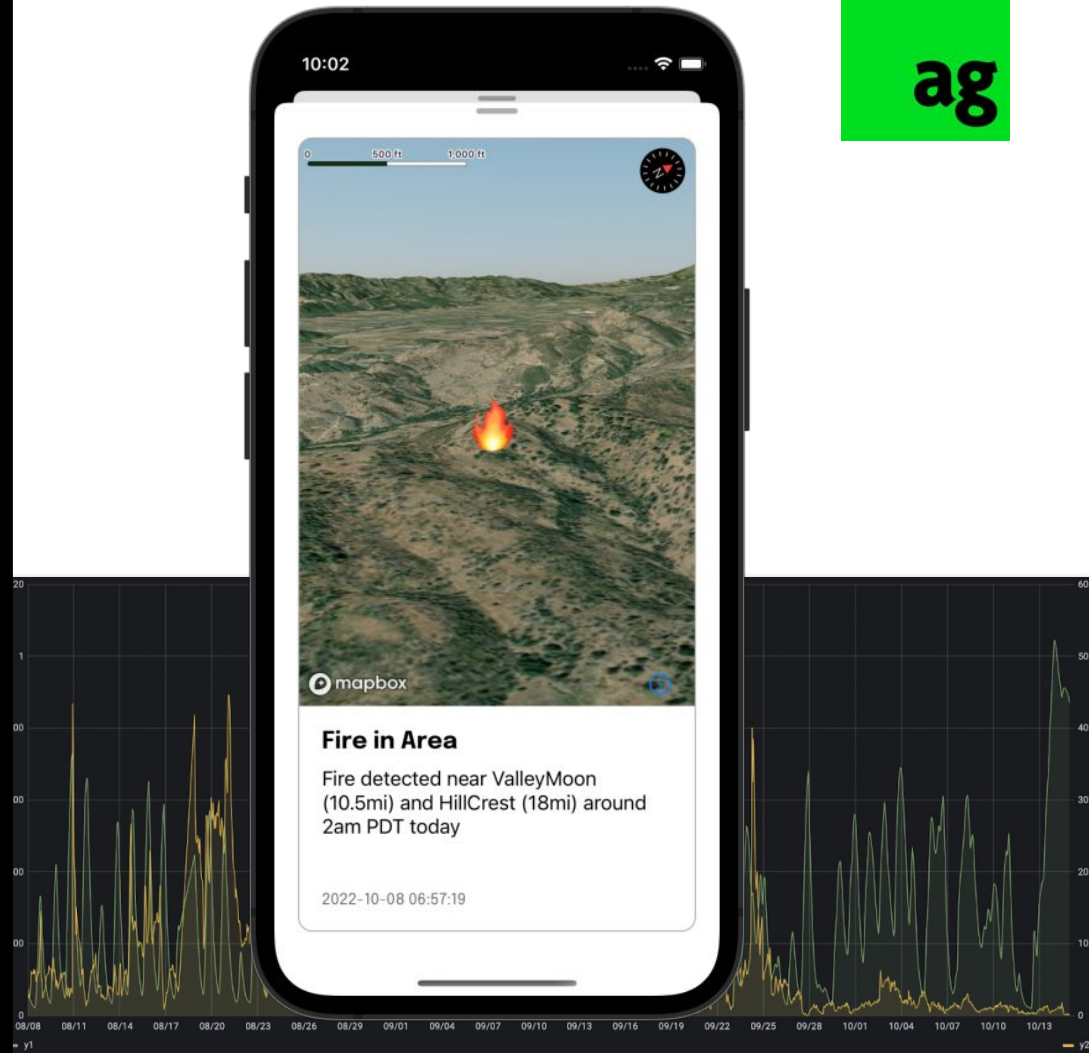
Volatile Organic
Compounds (VOC).

PM1, PM2.5, PM10.

Real-time smoke
detection.

Smoke compound
comparison.

Fire proximity alerts.



Sentinel Climate Monitoring System Irrigation

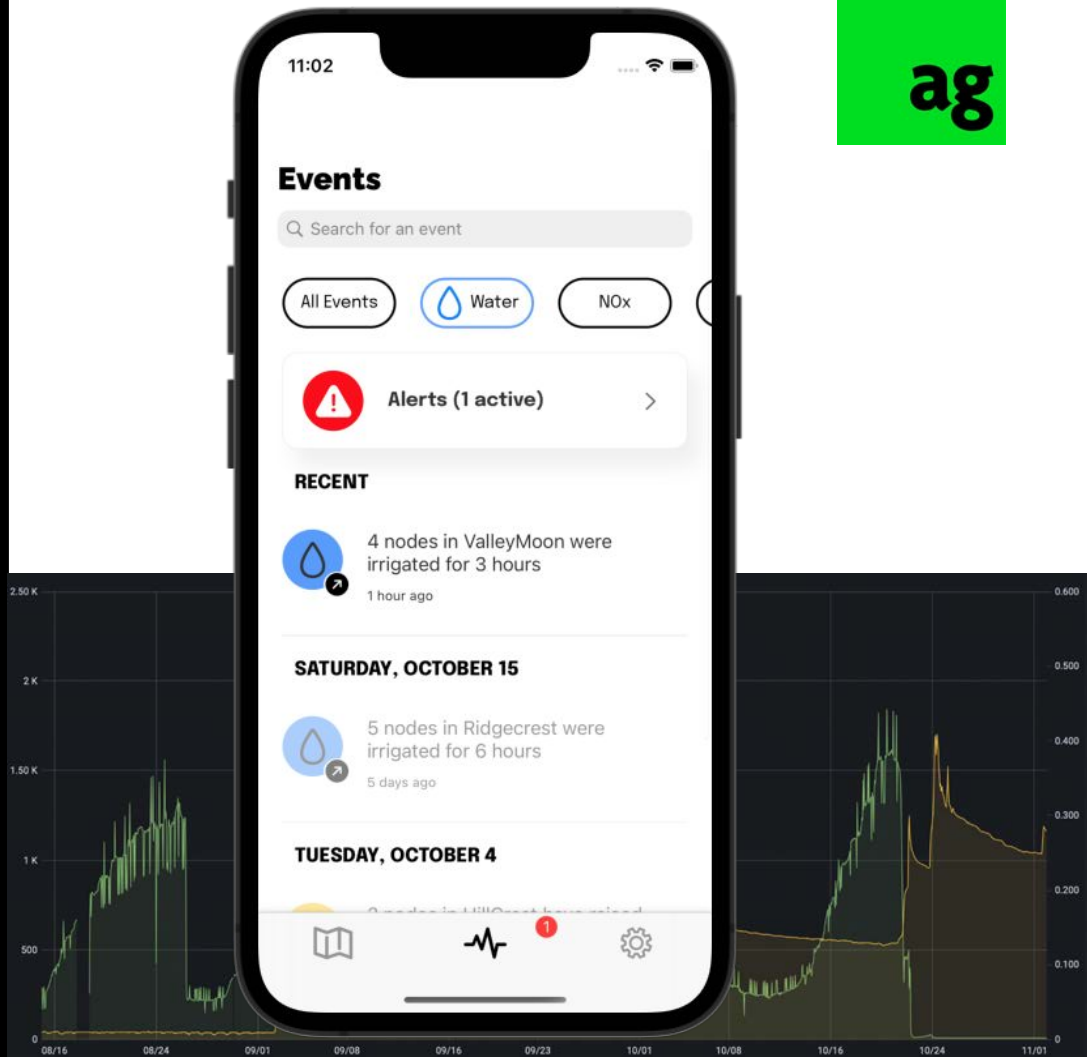
Soil moisture, water
potential, conductivity &
temperature.

Dangerous threshold
prediction and notification.

Irrigation strategy
effectiveness.

Irrigation threshold
prediction.

Actual irrigation events.



Sentinel Climate Monitoring System Pest & Disease Risk

Block-level nano climate
data.

Nano climate predictions.

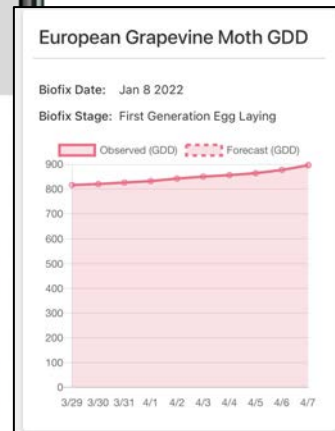
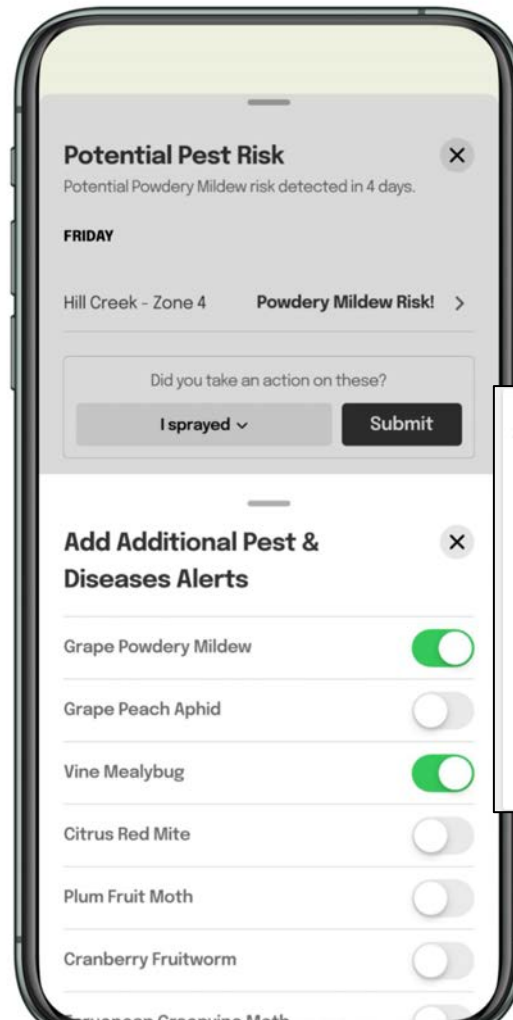
Actual pest GDD.

Forecasts pest GDD.

Pest growth stage.

Actual disease risk.

Forecasts disease risk
level.



Sentinel Climate Monitoring System Nano Climate Variability

Block-level nano climates.

Extreme vapor pressure deficit (VPD) and temperature predictions.

Spatial-temporal temperature variations.

Soil moisture, water potential, soil conductivity.



Extreme Heat

HillCrest, Zone 2 and Zone 4 are projected to reach 103°F in 3 days



Frost Risk

HillCrest, Zone 2 and Zone 3 are projected to reach 31°F in 2 days

A close-up photograph of a pair of hands holding a large, dense bunch of dark blue grapes. The hands are positioned at the bottom and sides of the frame, with fingers gently gripping the stems of the grapes. The grapes are round and have a slight sheen, suggesting they are ripe. A single green leaf is visible on the left side of the bunch. The background is dark and out of focus, emphasizing the hands and the grapes. The text "Why Agrology" is overlaid in the center of the image.

Why Agrology

	Predictive Insights	Climate Risks	Soil Carbon Monitoring	Operational Efficiency	Weather Monitoring
Weather Forecasts					
Soil Sensors					
Weather Stations					
Irrigation Monitoring					
Pest Modeling					
Soil Carbon Testing					
AGROLOGY					

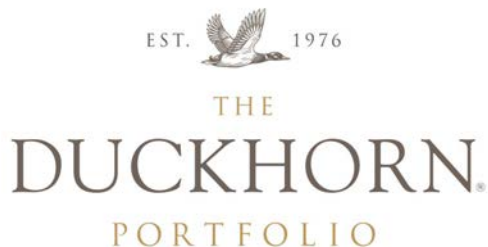
Used by Leading Growers

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SILVER OAK



Jordan



JOSEPH PHELPS
VINEYARDS



Groth



SIGNORELLO
E S T A T E



LAWRENCE
Vineyards

LANGTRY
ESTD 1882 FARMS
VINEYARD AND WINERY

- **Public Benefit Corp.**
- **Winner, 2 highly-selective National Science Foundation SBIR Awards.**
- **Google Cloud Partner to Help Farmers Combat Climate Change and Achieve Sustainability Goals.**
- **Funding Recipient USDA's Partnerships for Climate-Smart Commodities Initiative.**
- **Partner, UC Davis College of Agricultural and Environmental Sciences.**
- **Partner, Virginia Tech College of Agriculture and Life Sciences.**
- **Winner, Wine Industry Network's 10th annual WINnovation Awards**

More at agrology.ag/press

Get in touch

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