GeoPard Agriculture

All-in-One Precision Agriculture Software and API

January 2026

- Website: geopard.tech
- Docs: docs.geopard.tech
- Book a call
- Start Free Trial

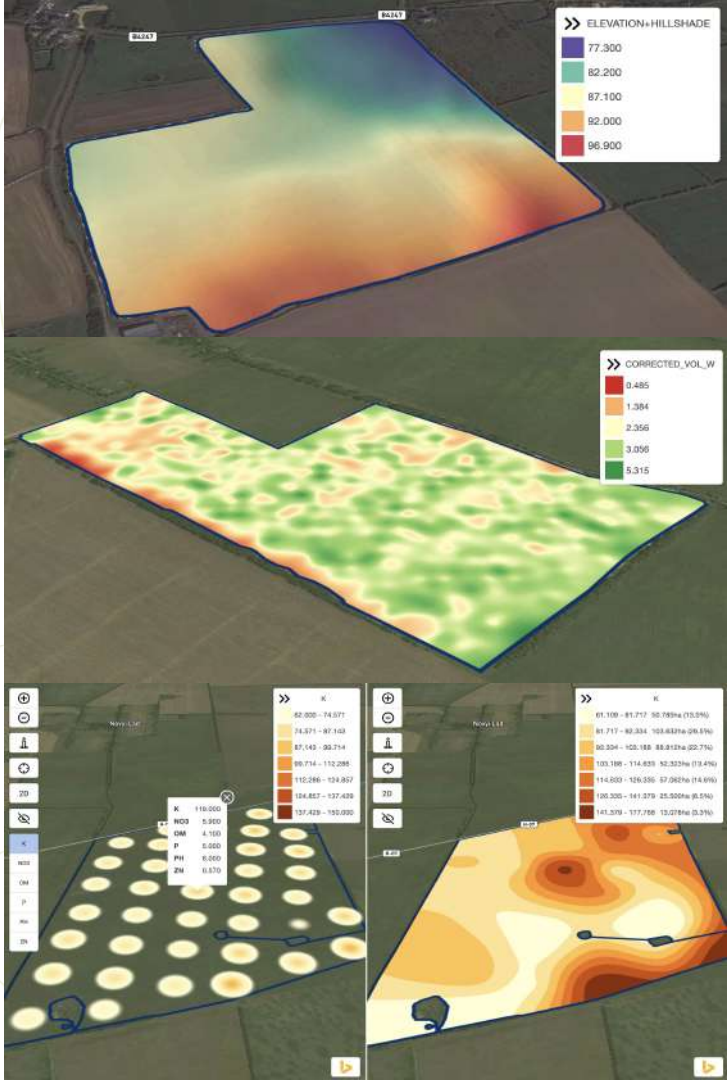
How to create Smart Recommendations?

Topography
Historical **Field Potential**
Yield **Limiting factors**
Current season **Weather**
Soil
- Organic Matter
- pH
- EC
- N, P, K
- Micronutrients
- Moisture

Yield data
- Grain moisture
- Protein

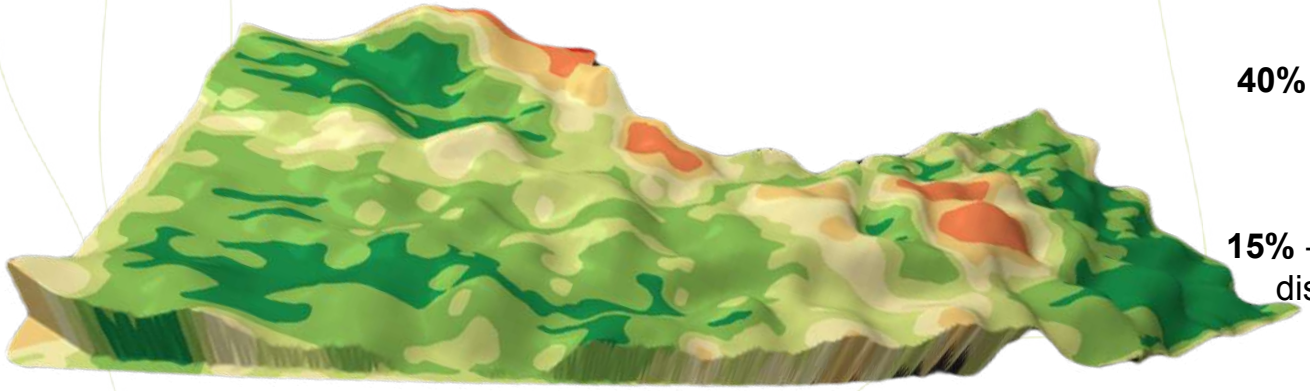
Plant sampling
Seasonal Operations
- as-applied fertilizer, crop protection
- seeds

Trials & R&D planning



GeoPard Agriculture
Simplify complexity

Digital Twin of a Field



400% - average difference of yield in **high** and **low** crop productivity zones

40% - share of ag inputs costs in crop production

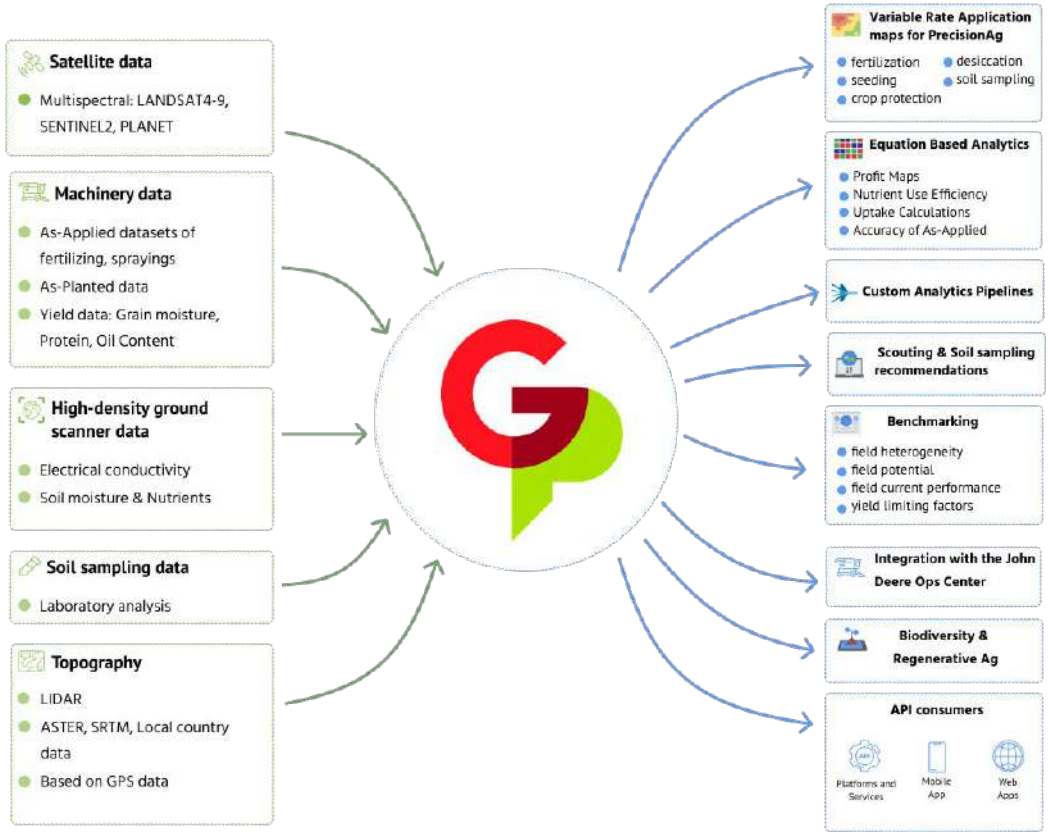
15% - economic efficiency from optimal distribution of Ag input resources

Sustainable farming - variable rate application, no-till, cover cropping, crop rotation, carbon markets

Pricelessly for Environment - reduction of fertilizers, crop protection and water usage

GeoPard Agriculture
Simplify complexity

Automated Platform for Precision Agriculture

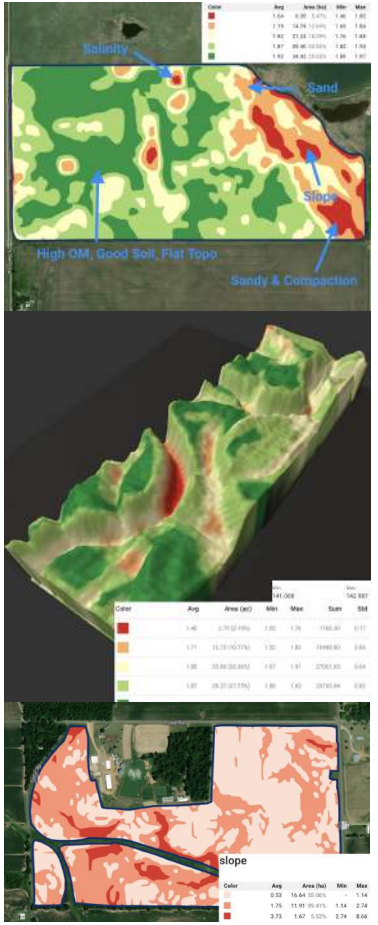


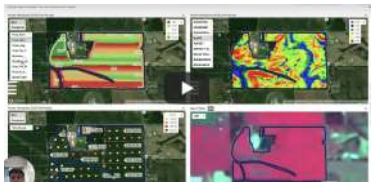
GeoPard Agriculture
Simplify complexity

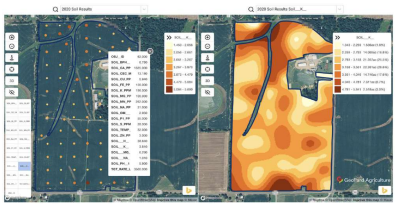
How It Works

Automated powerhouse for sustainable and precision agriculture

- VR maps based on multiple data layers
- Flexible agronomic logic: apply any math/formula/equation to calculate recommendations
- Support of all common data types: satellite imagery, radar imagery, machinery data, scanners and sensors
- Automated solution for recommendations >> Hyper-Automation of agronomy
- Simple UX for fast manipulation with complex agricultural data
- Powerful API for integration into customer solutions and business processes
- Enabler for transition into Sustainability and Carbon efficient practices
- A.I. & Big Data
- Mobile apps with offline mode

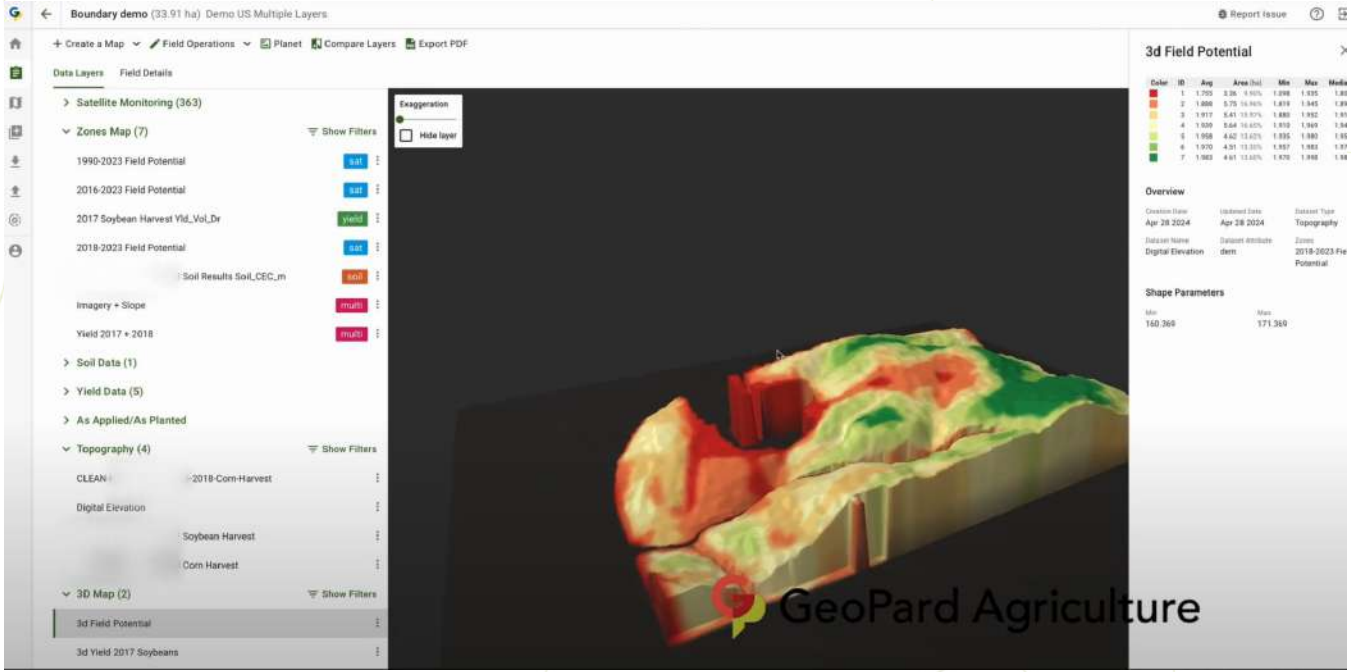






GeoPard Agriculture
Simplify complexity

1 Min Demo Video



[Youtube video link]

About GeoPard

GeoPard is an agriculture intelligence platform that enables crop farming agribusinesses to increase ROI and integrate data-driven sustainable agriculture practices using cutting-edge spatial data analytics and AI algorithms.

GeoPard automates workflows to create Variable Rate Application maps for seeding, fertilizing, and crop protection based on various data sources such as satellite imagery, yield, soil, topography, machinery data, and custom agronomic logic (including multi-layers & equations).

GeoPard provides its solution as White-label, On-premise, API, web, and mobile applications.

Value for Clients

GeoPard is committed to advancing soil health using state-of-the-art spatial technology. Our platform integrates remote sensing, sensor, topography, and machinery data, providing an all-in-one solution tailored for precision & sustainable agriculture. By transforming farm data into actionable insights, we aim to optimize yields and minimize costs. Above all, we prioritize data security, ensuring that all information remains under the exclusive ownership of our clients.

Agricultural Season with GeoPard

GeoPard Agriculture
Simplify complexity

Team

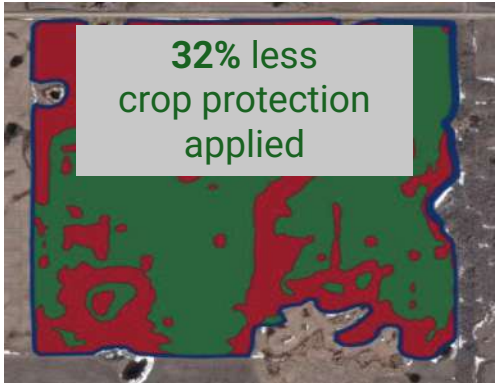
Build solutions as one team for **12+ years in Precision Agriculture**

2012	2015	2019
Co-founders of Zoner. The solution was popular in the Canada, US & eastern EU. Acquired by Bayer in 2015.	Technical Managers of Bayer Xarvio Digital Farming (now BASF).	Co-founders of GeoPard Agriculture
Developed VRA maps & soil sampling engine widely used in the US, Canada, Europe	Mastered integration and developed foundation of Xarvio Field Manager, incl. GIS engine	**Automated decision support system recommendations and post-harvest analytics**

Agronomic Use Cases (> 30 modules)

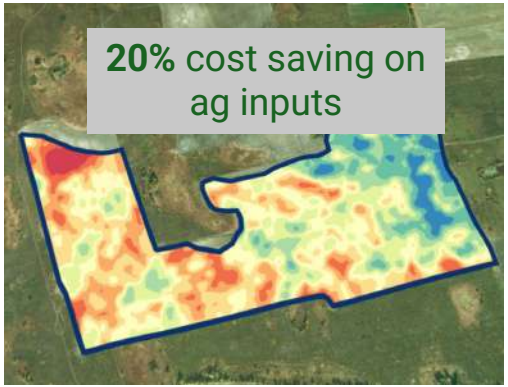
VR fungicide application

Data: Current vegetation & bare soil
Crop: Wheat



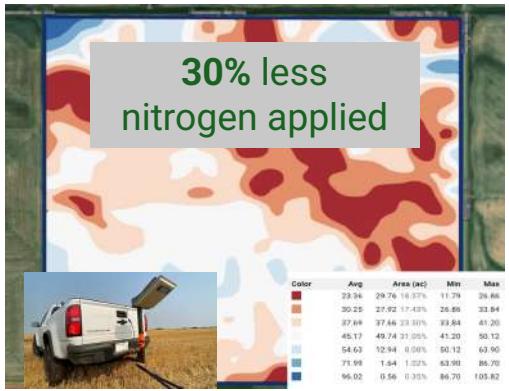
VR seeding

Data: Soil sampling (Organic Matter) + Topography + Last 15 years Field Potential
Seeding rate: 60k-85k/ha
Crop: Corn



VR fertilizing

Data: ground scanners (SoilOptix, GeoProspectors, Electrical Conductivity), Topography, Historical vegetation
Crop : Canola



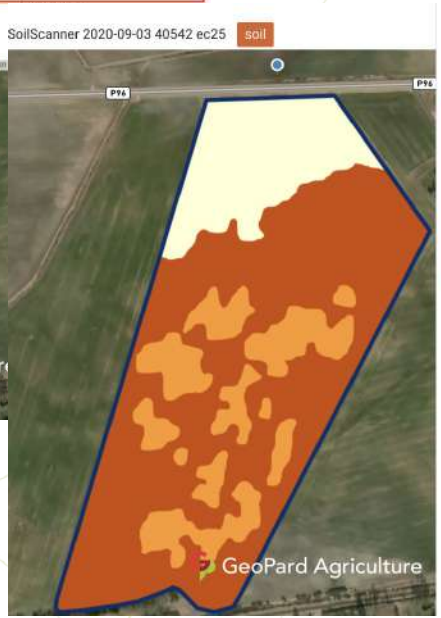
GeoPard Agriculture
Simplify complexity

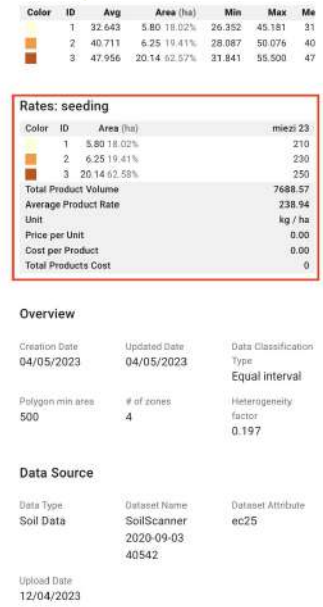
Variable Rate Seeding maps based on Electrical Conductivity soil scanner data

Verified:

- Seeding VRA map for Barley
- Spraying VRA after Drone Spray Application
- Upcoming Fertilization and Seeding VRA maps

[Documentation]



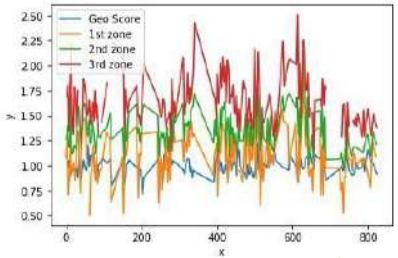


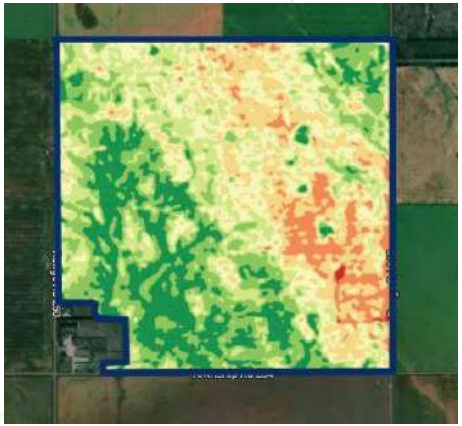
GeoPard Agriculture
Simplify complexity

Automated Field Potential Maps

Automated multi-year (up to 30 years and
the last 6 years stacked) field potential maps. Patented.

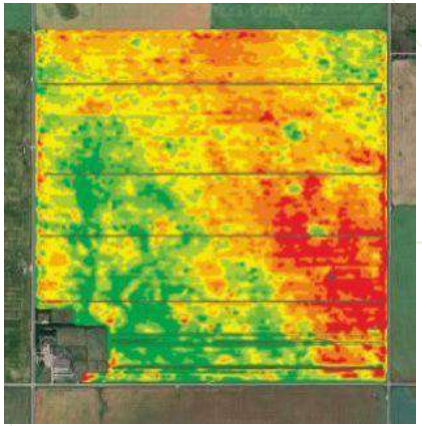
The heterogeneity index helps
benchmark fields and prioritise ag operations.
[Blog: Multi-Year Zones]
[Blog: Heterogeneity Factor]





GeoPard Field Potential maps

VS



Yield data

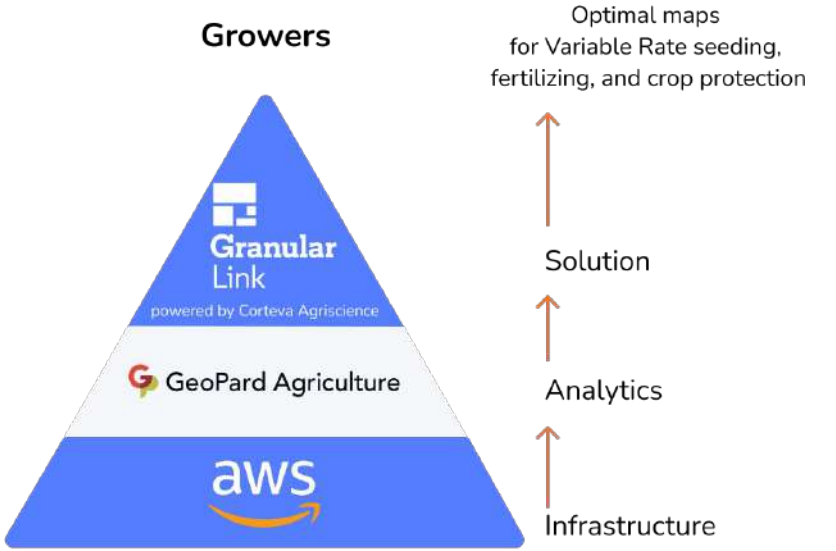
GeoPard Agriculture
Simplify complexity

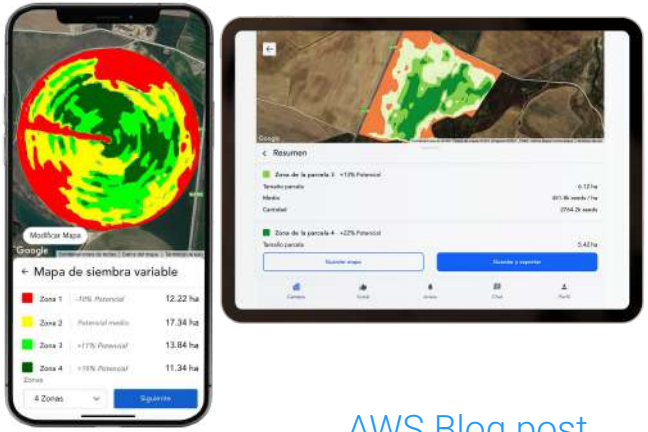
Successful client case - Corteva

WHO: Corteva Agriscience, Ag inputs manufacturer, USD 14.2B revenue, 21 000 employees.

SOLUTION: Automated Prescription maps & farm data analytics via API

RESULTS: Launch Smart Farming commercial apps in EU countries in just 1 year





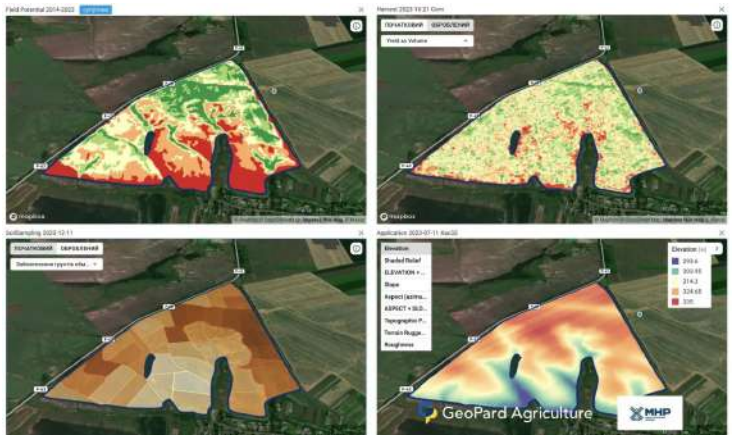
[AWS Blog post]

Successful client case - MHP (1m acres, 350k hectares)

WHO: MHP (MHP SE): 350,000 ha (1m acres), 36,000+ employees.

SOLUTION: automated **VRA/Rx** prescription maps and 360° analytics, integrated with **John Deere Ops Center & Climate FieldView**.

RESULTS: Automated ag data management, fast recommendation generation (VRA/Rx), full-season coverage from planning to post-season analytics.



[Blog post]

GeoPard Agriculture
Simplify complexity

JohnDeere Ops Center Integration

- GeoPard augments Ops center with analytical layers: topography, soil, Profit mats, NUE maps, cleaned/calibrated Yield
- Data automatically flows bi-directionally
- geopard.tech/johndeere
- [Integration Overview and Tutorial]

- [Work Plans creation]

JohnDeere + GeoPard User Stories

John Deere
1,315,963 followers
4d • Edited •

Make every drop count, that is the future of smart water use in agriculture.

Climate change is affecting weather patterns to the detriment of farmers around the world. To feed us all, they must, among other things, maximize their harvest while minimizing their water use.

In short, farmers need to make every drop count. And that is why we at John Deere are working with our partner company GeoPard Agriculture to provide with high technology solutions to make it possible. GeoPard is an unbiased, cloud-based analytics powerhouse for precision agriculture. The core of the platform is capable of processing any set of geospatial data.

"Smart water management is one of the most important features of our precision agriculture solutions", says Martin Klausmann our expert for implementations and the John Deere Operations Center together with Dmitry Dementiev CEO and co-founder of GeoPard Agriculture.

That's because using tools such as soil analysis through satellite data and precise field maps, farmers can gain comprehensive insights into their fields, that allow them to apply the exact amount of water needed for optimal growth - no more, no less. And this precision is something that we and GeoPard are constantly pushing forward, for a more sustainable use of our resources.

What do you think are the keys to smart water use in the field?

#JohnDeereEurope

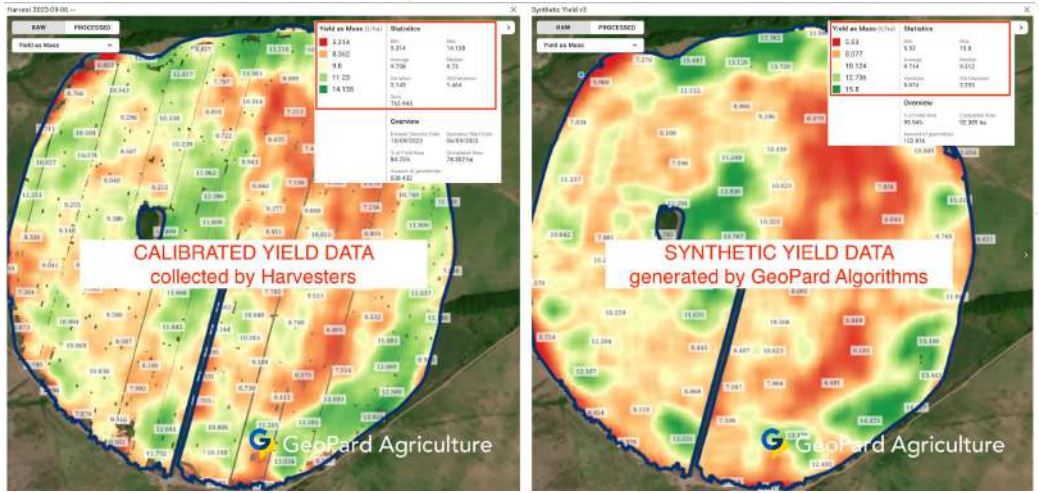
- Linkedin Post
- Dealer Story (Italy)

GeoPard Agriculture
Simplify complexity

Synthetic Yield Maps

87% Accuracy

Based on total or average yield GeoPard creates Yield dataset
[Read more]



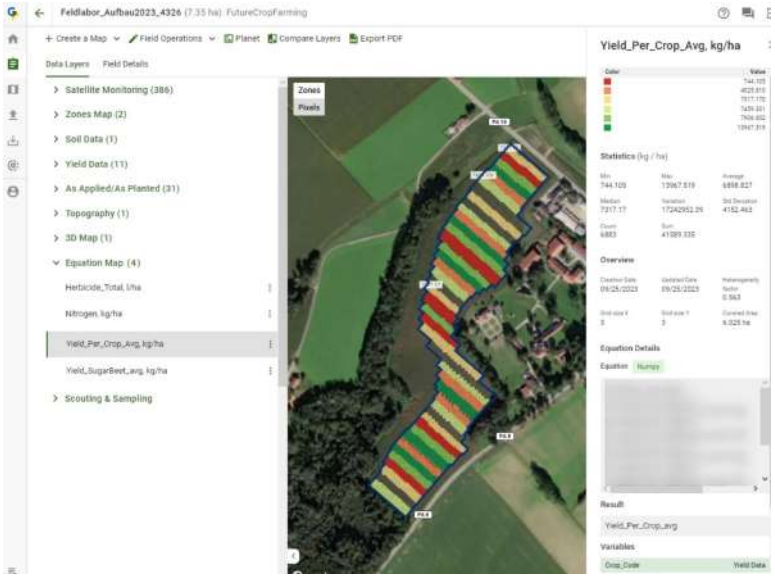
Automated Scouting Tasks

Reduce Field Visits & Fuel Consumption.
Find representative areas for accurate Yield Prediction

[Read more]

GeoPard Agriculture
Simplify complexity

Measure Regenerative Farming Practices



[Read: Visualizing Economic Impacts of Sustainable Farming]

GeoPard Agriculture
Simplify complexity

LfL

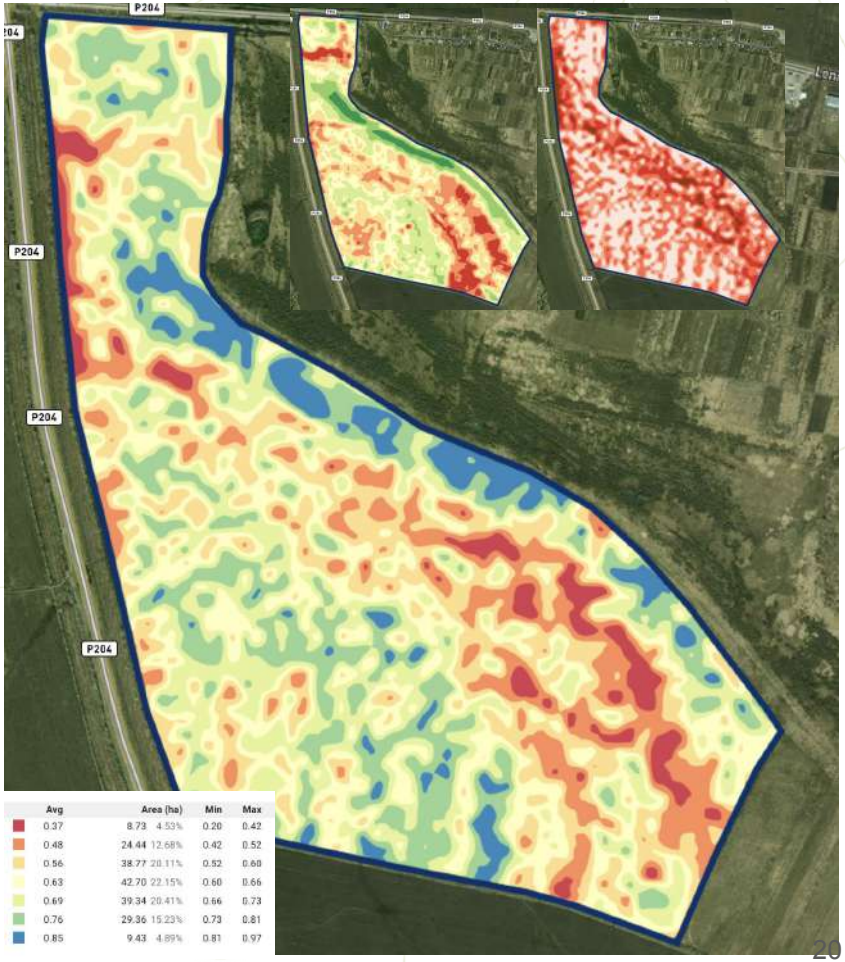
Multi-layer Maps

Delineation of management zones based on a combination of any data layers available in GeoPard with the flexibility to set a weight for each layer.

Example: 8 Years Historical Productivity (weight=1) and Slope (weight=-1)

Popular layers combinations:

- Satellite imagery (historical or in-season) and EC data
- Soil Sampling and Topography
- A mix of multiple vegetation indices



GeoPard Agriculture
Simplify complexity

Equation based Analytics

- Integrate multiple data layers.
- Use GeoPard templates or **create your formulas**.
- Calculate sub-field level ROI and economic efficiency.
- Integrated Variable Rate recommendations.
  [Blog post with examples]

Tri-State: Indiana and Michigan Liming Rates for Organic Soils PDF Source

When the Target pH is 5.3 and the soil pH is < 5.3, then the LR = 37.6−(7.1 x soil pH).
When the Target pH is greater than 5.3 and the soil pH is < 5.3, then the LR = [37.6 x (7.1 x soil pH)] + [(target pH−5.3) x 5.0].
When the Target pH is greater than 5.3 and the soil pH is > 5.3, then the LR = [(target pH−soil pH) x 5.0]

Equation in Python

```
if targetpH == 5.3 and soilpH < 5.3:
  rerturn  37.6−(7.1 x soilpH)
elif targetpH > 5.3 and soilpH < 5.3:
  return  (37.6 * (7.1 * soilpH)) + ((targetpH−5.3) * 5.0)
elif targetpH > 5.3 and soilpH > 5.3:
  return  ((targetpH−soilpH) * 5.0)
else:
  return defaultLimeRate
```

Variables from datasets

targetpH

soilpH

GeoPard Agriculture
Simplify complexity

VR Recommendations based on Equations

Lime Rx based on SoilOptix pH

Phosphorus Corn Recommendations
(South Dakota State University)

Potassium Removal based on Yield

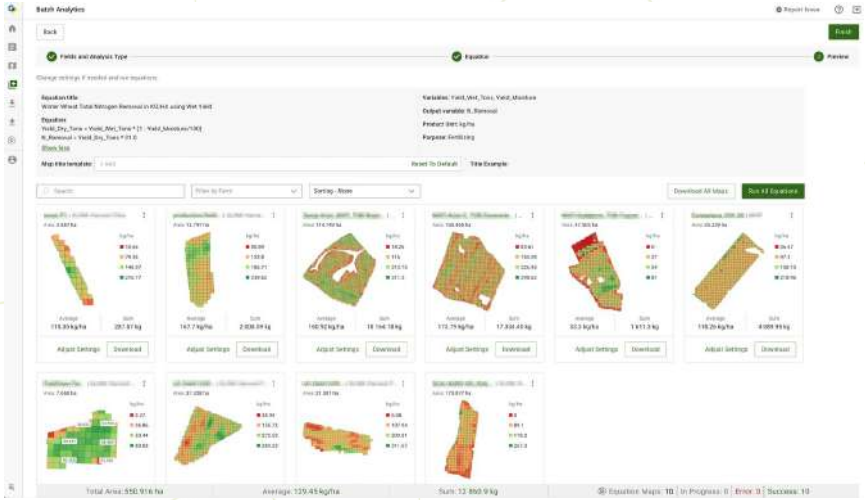
Nitrogen: Target vs Applied

GeoPard Agriculture
Simplify complexity

Batch Analytics

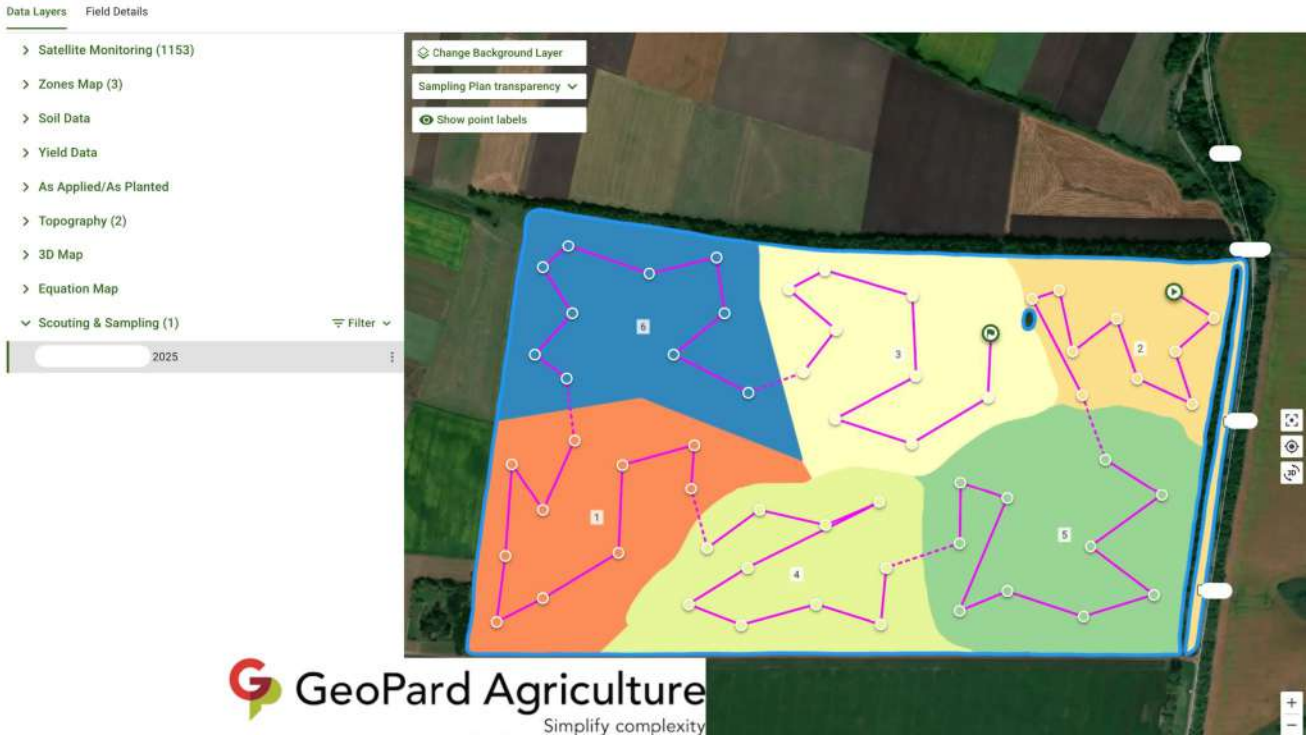
GeoPard enables creating of maps for multiple fields simultaneously

- Generate maps for any field group, including Profit Maps and VRA maps for seeding, spraying, fertilizing, or Uptake calculations.
- Calculated field averages and **total input volumes for all fields to efficiently plan purchases**. Use any GeoPard or custom formula (including efficiency, Fertilizer Use Efficiency, Profit maps, Fertilizer uptake, or based on satellite imagery)
- GeoPard automatically smartly links variables to layers and attributes (no need to manually map the Yield Dry variable to the Yield dataset or pH to soil sampling pH - GeoPard does it for you)



GeoPard Agriculture
Simplify complexity

Recommendation on Soil Samples & Paths

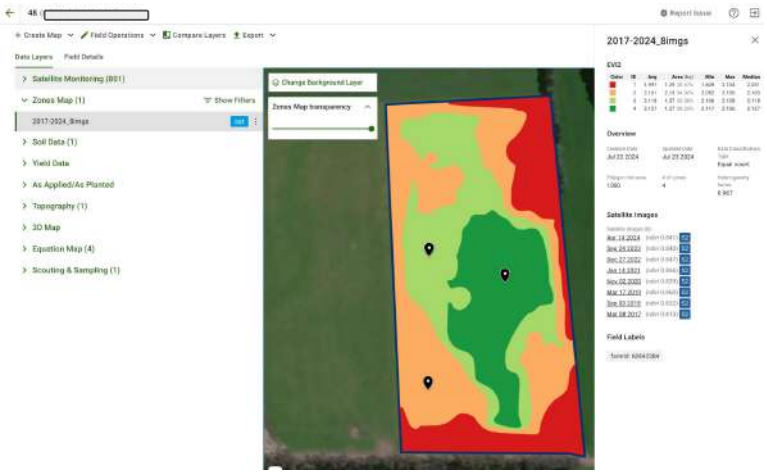


[Tutorial]

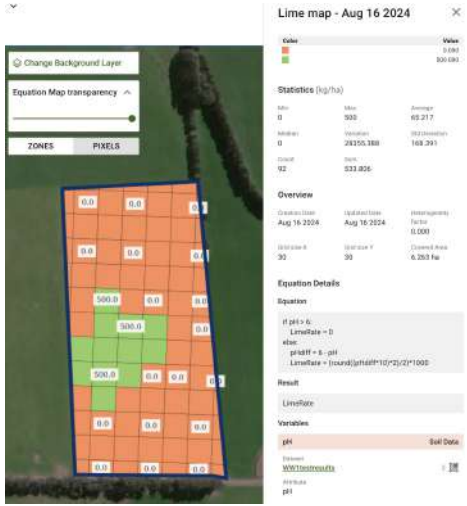
Soil Sampling Recommendations

50% cost reduction

Automated zones & Soil Sampling Plans



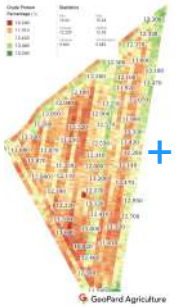
VR fertilizer based on soil sampling & Equation



GeoPard Agriculture
Simplify complexity

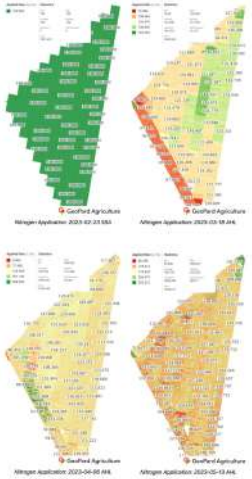
Fertilizer (Nitrogen) Use Efficiency Calculations

Protein



Yield

Fertilizer Applied

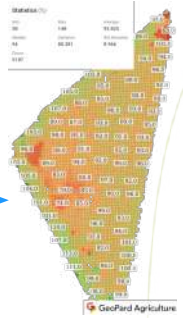


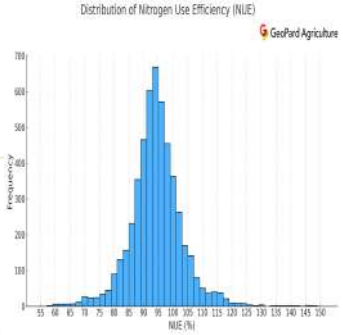
Nitrogen Uptake

Statistics (kg / ha)

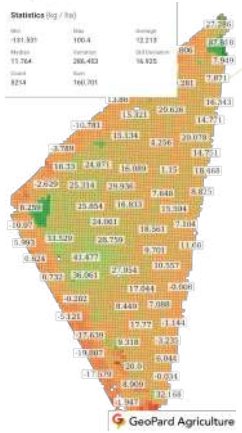
Min	Max	Average
106.405	183.436	141.321
Median	Variation	Std Deviation
142.084	99.39	9.969
Count	Sum	
5220	1819.76	

Nitrogen Use Efficiency (%)





Nitrogen Surplus (kg/ha)

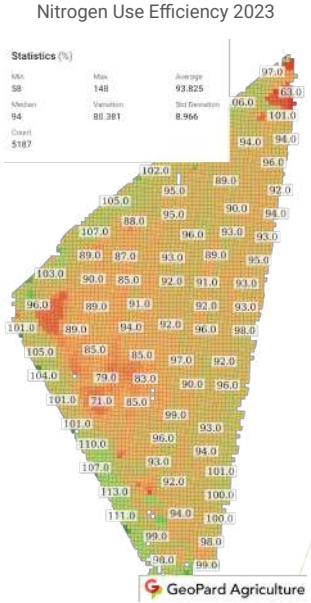


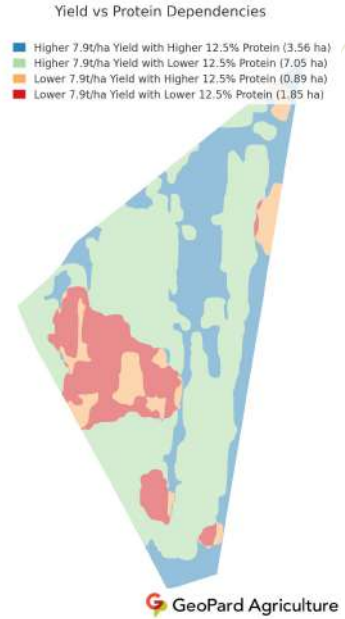
GeoPard Agriculture
Simplify complexity

Read in GeoPard Blog

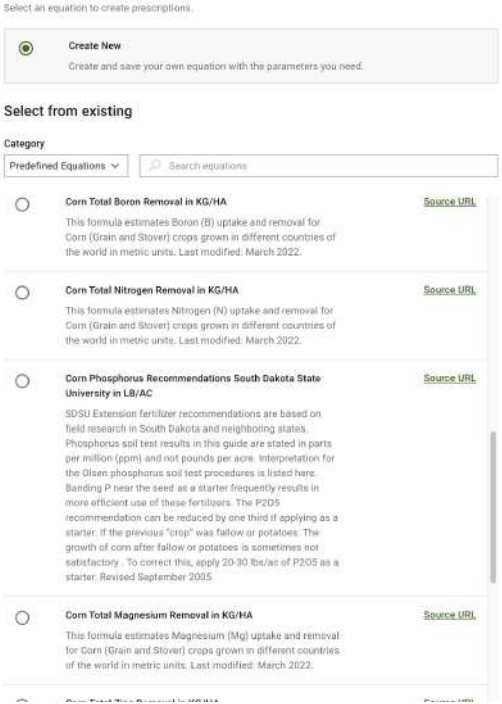
Nitrogen Use Efficiency use-case

Use-case with a German JohnDeere dealer LVA, [NUE, N Uptake, N Surplus based on GrainSensing HarvestLab, Yield]

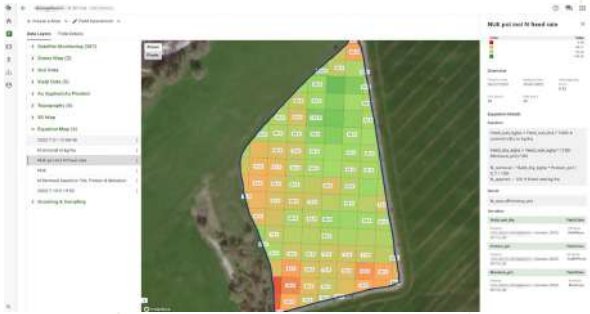




ANY PRODUCT Use Efficiency



Potassium Use Efficiency

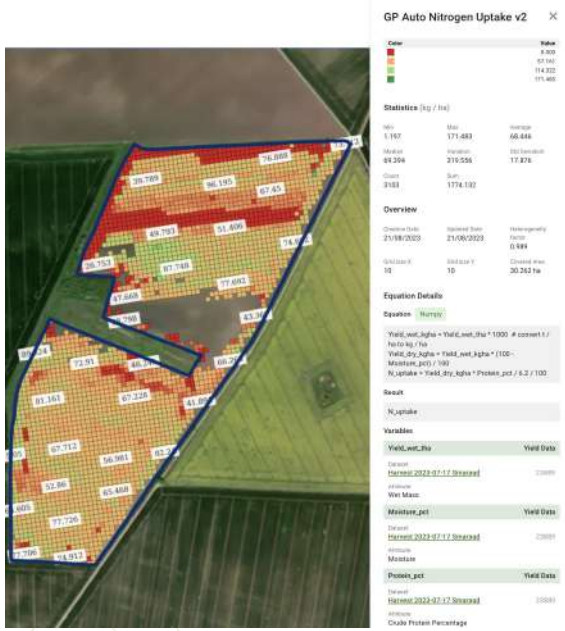


Nitrogen Use Efficiency

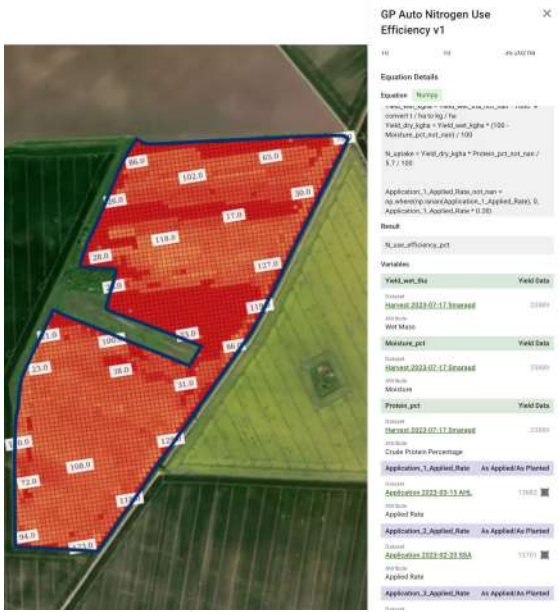
Linked to the field factual data as-applied fertilizer, protein, and yield

GeoPard Agriculture
Simplify complexity

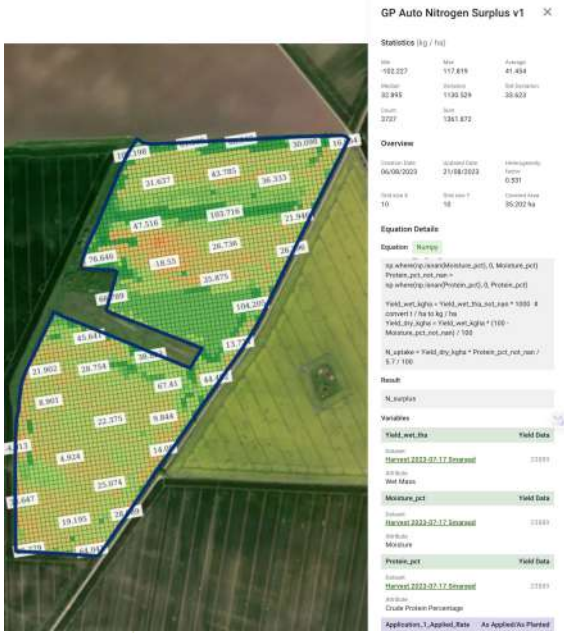
Nitrogen Uptake & Surplus



Nitrogen Uptake



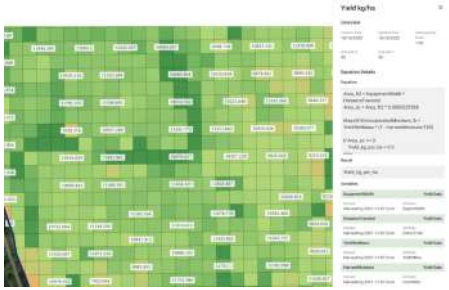
Nitrogen Use Efficiency



Nitrogen Surplus

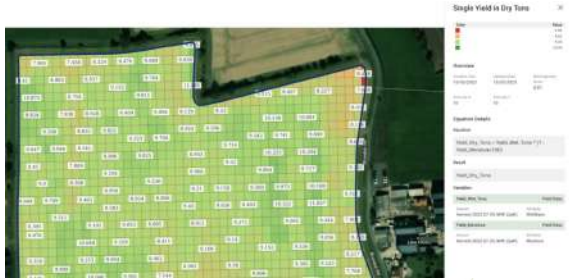
GeoPard Agriculture
Simplify complexity

Yield Trends



Yield Calibration and Conversion based on DistanceTraveled(ft), EquipmentWidth(ft), HarvestMoisture(%), YieldWetMass(lb)

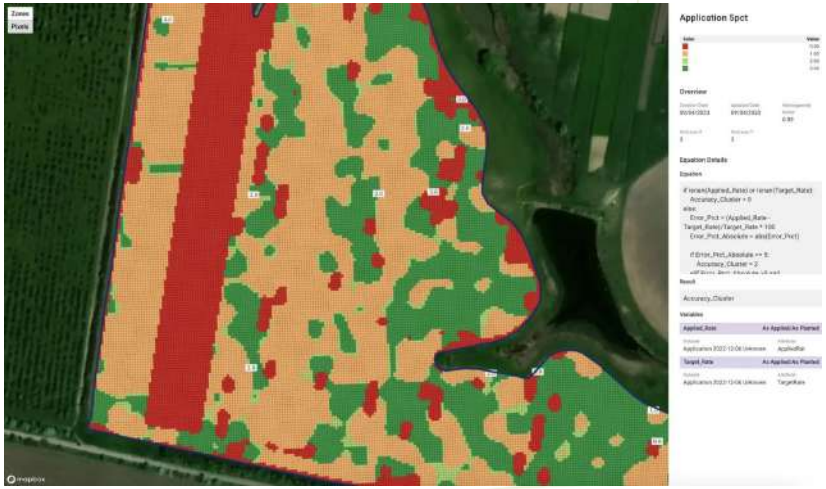
Yield Trend above/below Average



Dry Yield Calibration based on HarvestMoisture (%) and YieldWetMass (lb)

Yield Trend for 4 Datasets

Detect application errors: As-applied vs Rx



Cluster As-Planted Data to evaluate the Application Accuracy:
1) nodata 2) below acceptable range 3) in acceptable range
4) above the acceptable range

Read more

GeoPard Agriculture
Simplify complexity

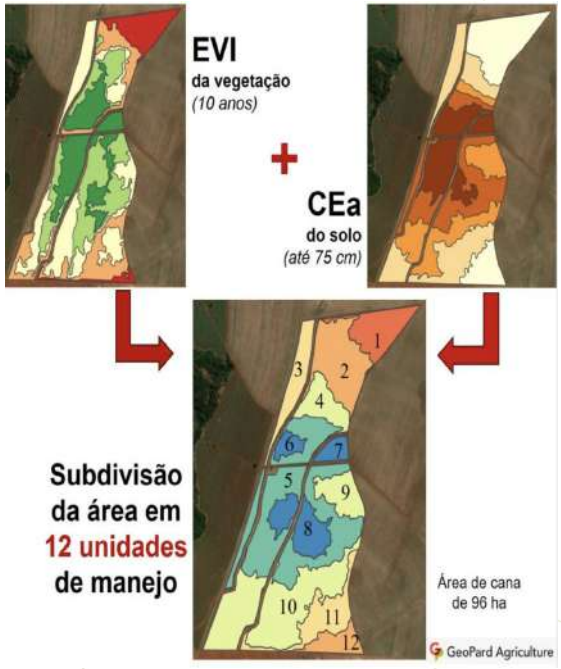
Profit Maps

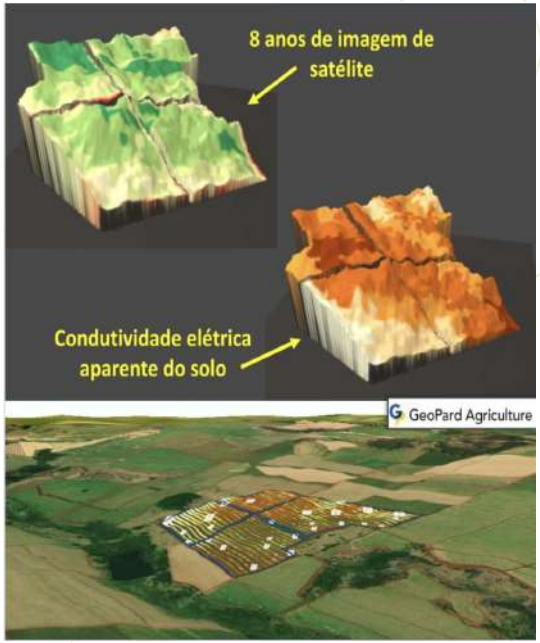
Cross-Margin Profitability maps are calculated based on factual farm data: as-applied (fertilizer, crop protection), as-planted, harvesting.
[Read more]

GeoPard Agriculture
Simplify complexity

Use-Cases From Brazil

Multi-layer farm data analytics & correlation analysis

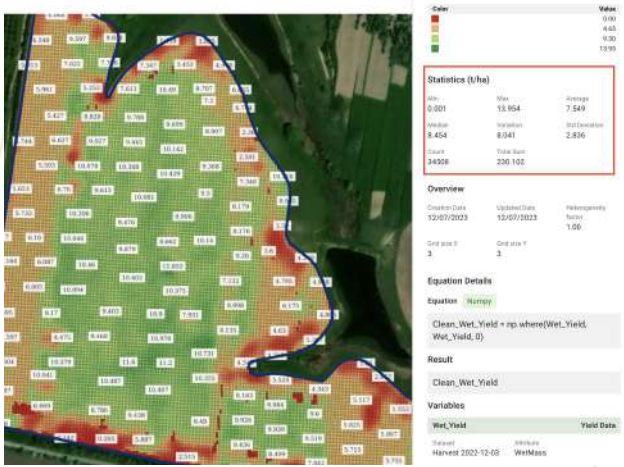




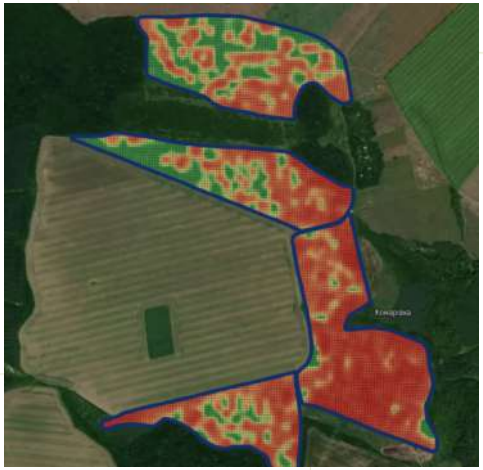
GeoPard Agriculture
Simplify complexity

Lucas Rios do Amaral, Professor, PhD,
Specialist on Precision Agriculture

Equations: Use Cases - Yield Stats & Slope for VRA



Yield Distribution (Statistics) including Total Collected Yield



Convert Slope into Factor for VRA Fertilizing, Seeding, Crop Protection

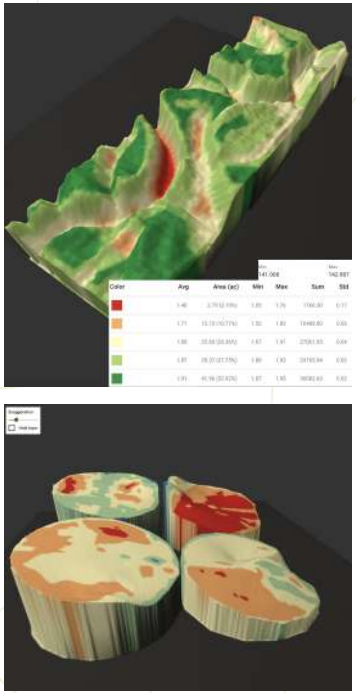
GeoPard Agriculture
Simplify complexity

3D Maps in Browser

Learn geospatial dependencies between data layers.

Combine **a base layer** (topographic, slope, relief positions, soil properties, or vegetation distribution) and **a cover zones map** (zones from yield, historical vegetation, organic matter, electrical conductivity, pH distribution).

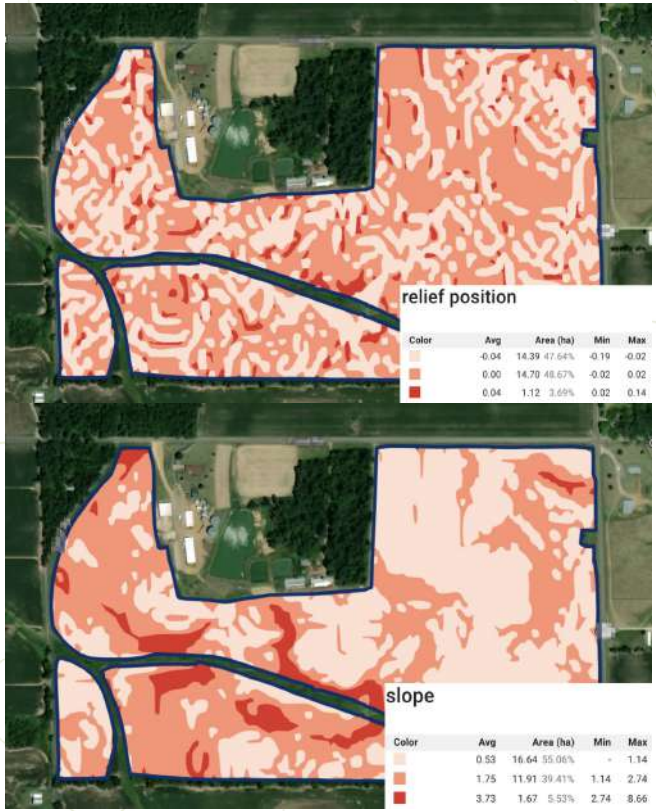
3D model is visualized right in the browser without need of installing any additional software or plugins.
[3D Maps - GeoPard Agriculture]



Topography Profile

Complete topographic profile including Elevation, Slope, Aspect, HillShade, Relief Position, Ruggedness, Roughness built on top of Remote Sensing or Machinery Datasets

Example: Slope and Relief Position maps.



Use-Case: Automated Scouting

Automated detection of locations that need to be scouted.

Some examples:

- Estimate expected yield of the whole field by checking the development of crops in a certain place
- Unexpected low vegetation zones
- Scout yield limiting locations

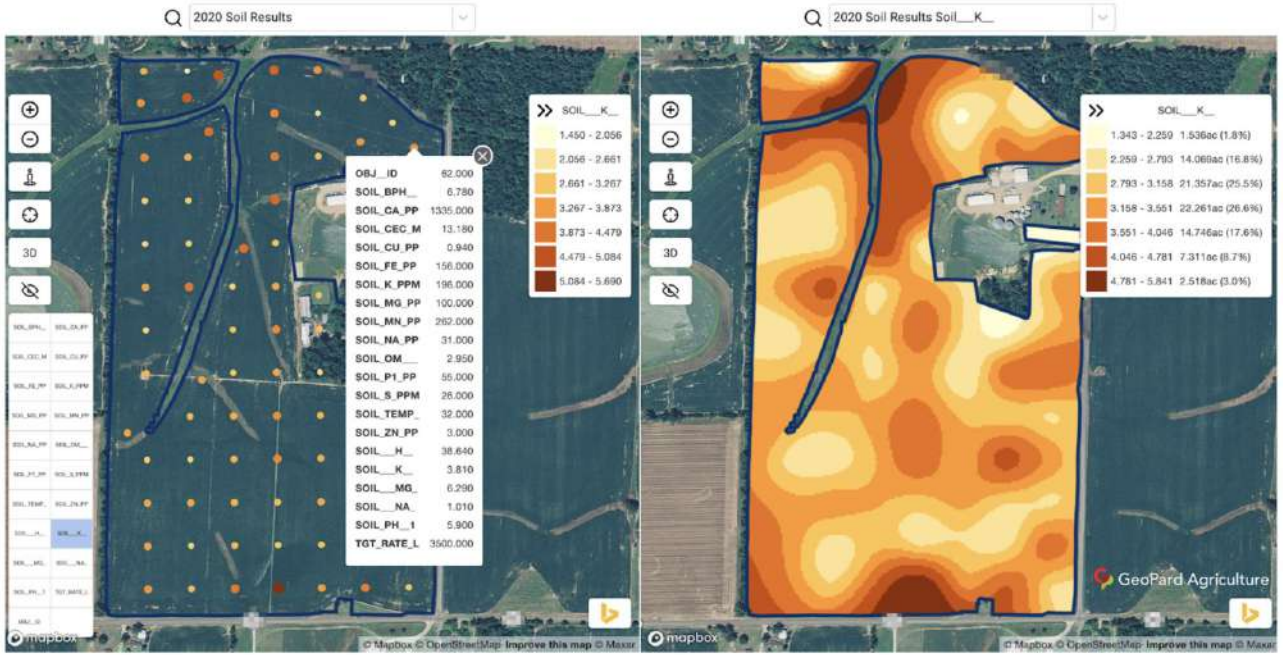
Based on GeoPard unique maps such as field potential, stability, current productivity, multi-layers maps & cross analytics.
[Read more]

GeoPard Agriculture
Simplify complexity

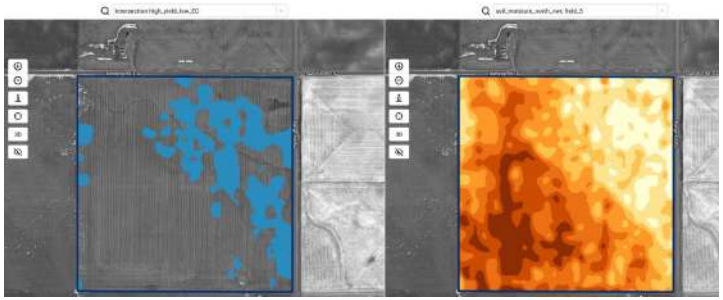
Soil sampling

Planning of soil sampling (zonal & grid), VRA maps based on soil data

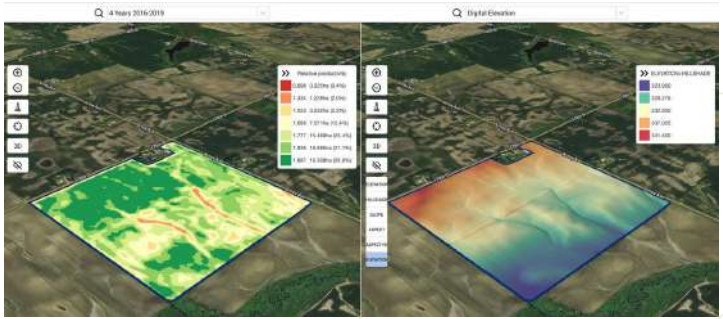
[Blog: Soil data analytics]



Use-Case: Detection of Yield Limiting Factors



Yield / Soil Moisture correlation



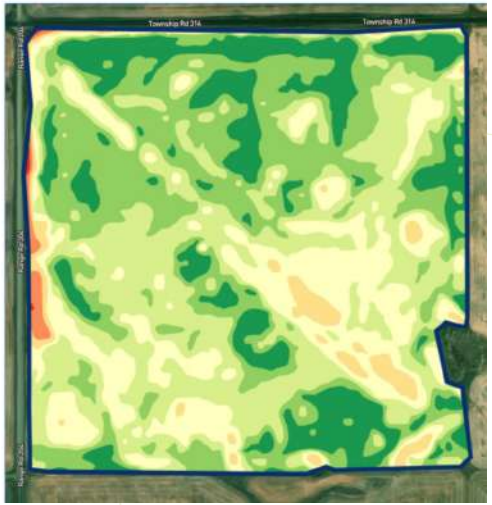
LIDAR topographic analytics

VRA Maps, Cost Calculation and Export

Create Variable rate application (VRA) maps by adding rates to any management zone map.

Costs calculation for Rx maps - know your costs per zone and per product.

VRA maps are compatible with most agricultural machines and can be exported as a **shapefile**, **ISOXML** or to **JohnDeere Ops Center**

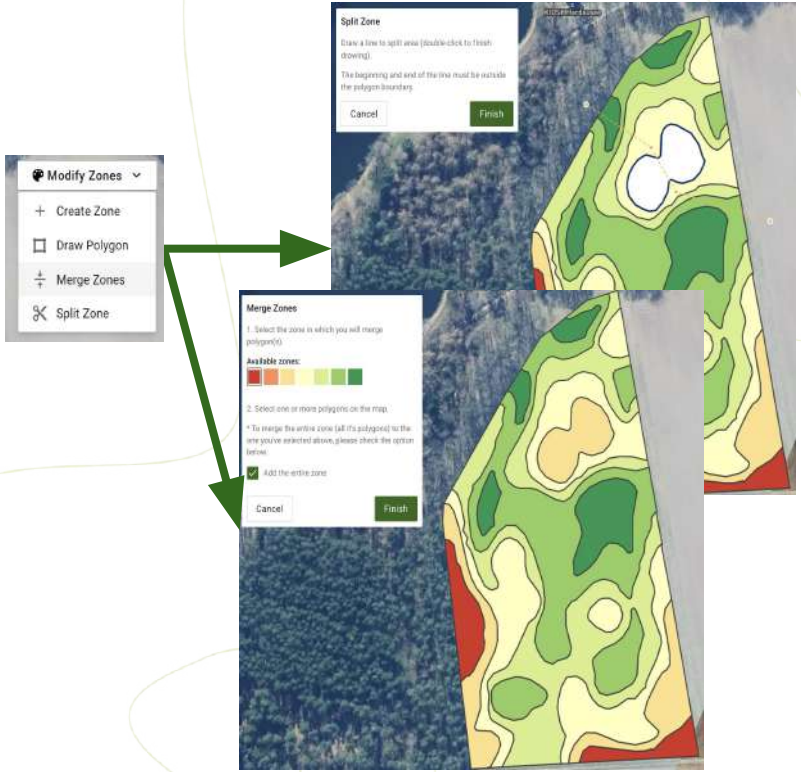


GeoPard Agriculture
Simplify complexity

Zones Adjustments

Merge and split zones feature allows to make a few important things:

- Split polygons
- Merge polygons
- Draw strip trials
- Hand-free drawing tools
- Assign a polygon or a complete zone to another class Blog: Merge and Split zones



Soil Brightness Index

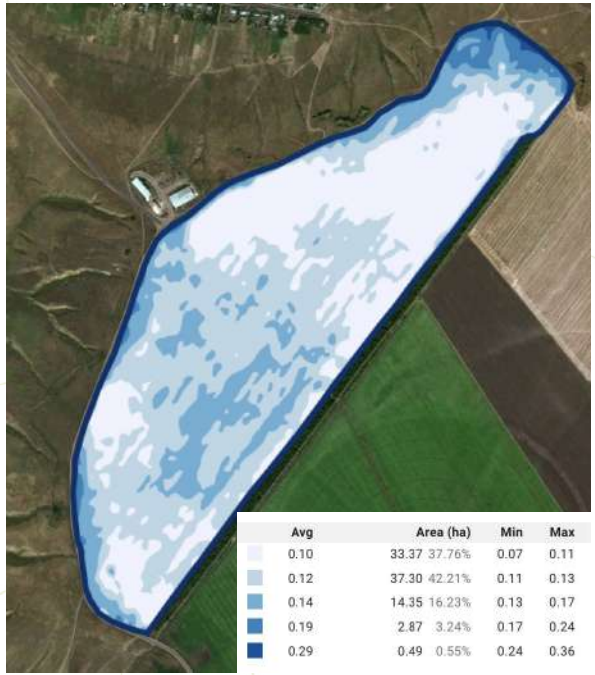
Soil brightness works as a proxy for soil organic matter, sands, and salinity areas, and is becoming an increasingly important index for studying changes in soil conditions over time.

Relevant in measuring and monitoring soil degradation and soil erosion patterns.

Stability Maps / Change Detection

Detect the most changeable and stable spots in the field during any period: the last 1-2 weeks or 1-2 months or even a couple of years (stability and variation of vegetation from season to season).

Coming: Combine with the latest image to see the positive or negative trends for every pixel.



Intersection of Data Layers

Overlapping among management zones based on different layers to define dependencies between data layers, to identify the most interesting/valuable areas for extended analytics (scouting, soil, plant sampling), and to improve agronomic practices.

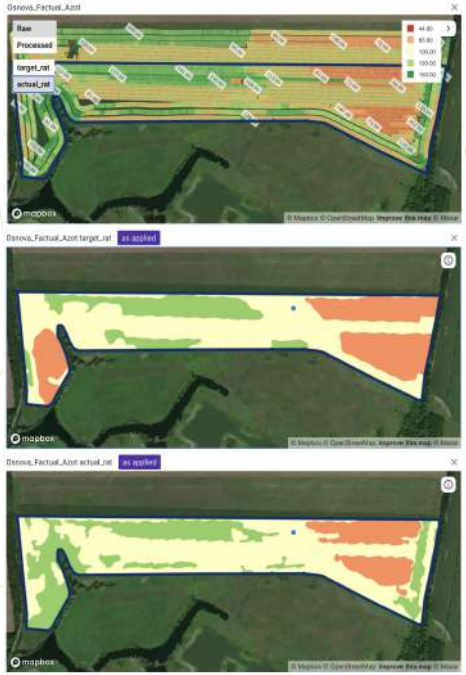
Example: Influence of high slope to low historical crop productivity.

GeoPard Agriculture
Simplify complexity

As-Applied and As-Planted Data Analytics

Monitoring of the VRA execution results including a comparison of planned and applied maps.
Useful for the calculation of ROI of Variable Rate technology.

Example: Comparison planned and executed VRA maps.
[Blog post - Accuracy of Rx vs As-Applied]

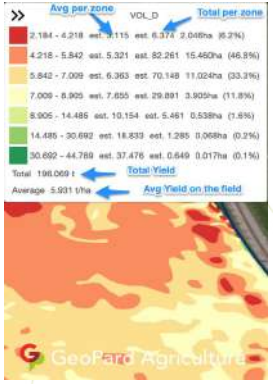


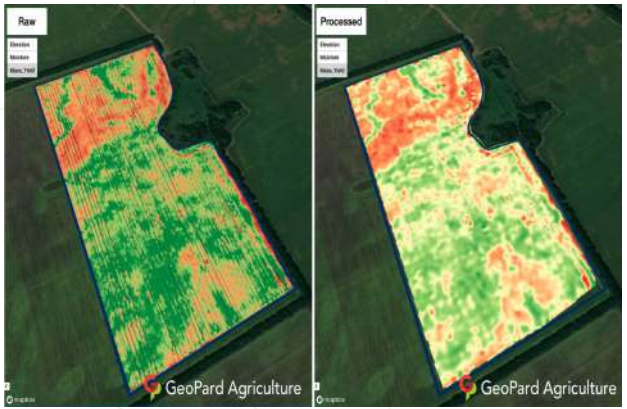
GeoPard Agriculture
Simplify complexity

Yield Data Analytics

- Batch Import of harvesting data
- Automated Processing: Cleaning & Calibration
- Visualization & Analytics of all attributes
- Statistics per attribute on subfield level (moisture, protein, oil, per field, zone, pixel)

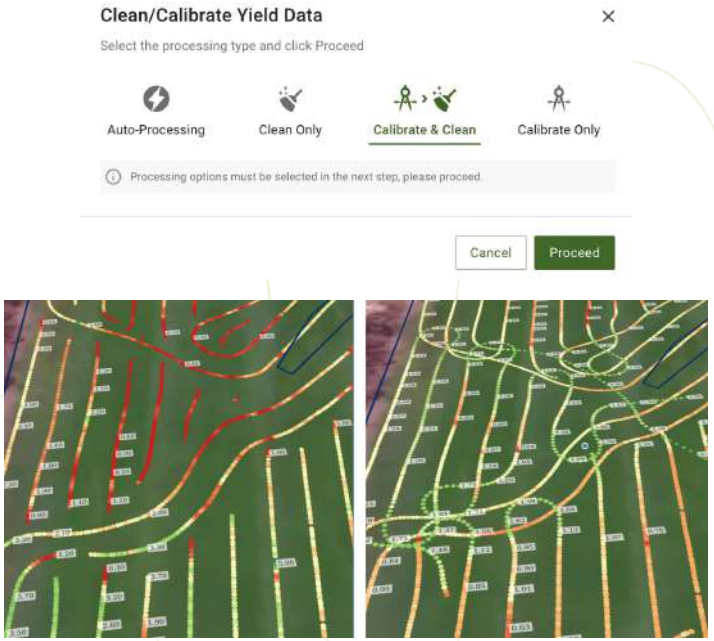
[Read an article in our blog]





Yield Auto-Cleaning and Auto-Calibration

- AI & Rule-based models enable automated yield data cleaning & calibration
- Automatically calibrated data from several harvesters
- Smart Cleaning of abnormal values and j-hooks
  Yield Cleaning Tutorial



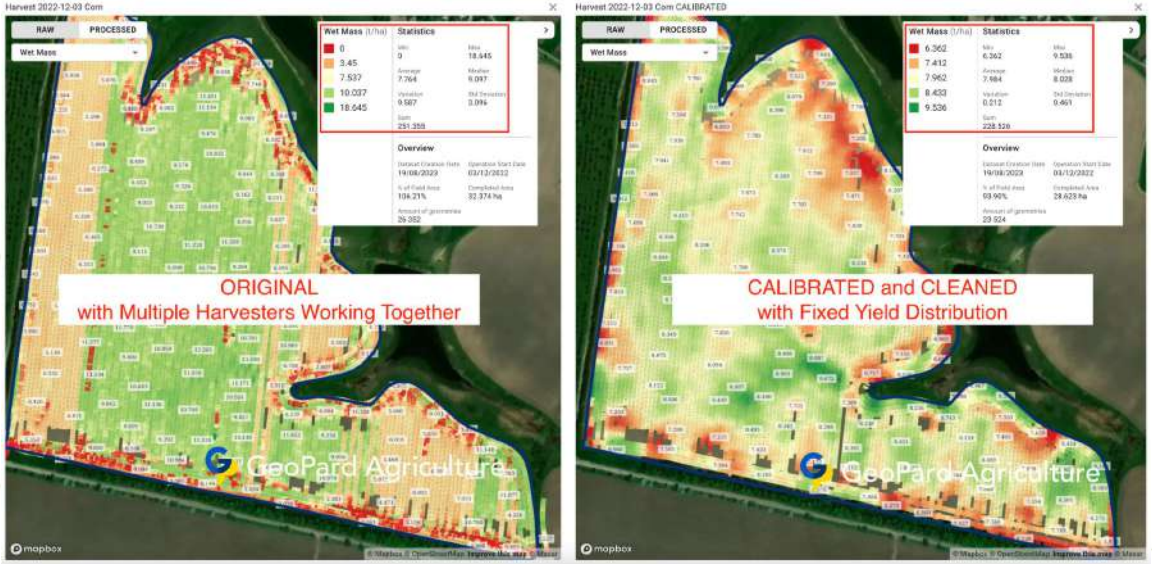
Yield Aggregation, Cleaning & Calibration

Merging 2 Yield Datasets, harvested in Different days

Combining and Calibrating datasets

GeoPard Agriculture
Simplify complexity

Yield Aggregation, Cleaning & Calibration



A.I. based automated yield cleaning & calibration

Tutorial

Trial Management & Analytics, Per Static block or Dynamic (e.g. yield per harvester)

Average Yield per harvester

Yield per zone, including Trial block

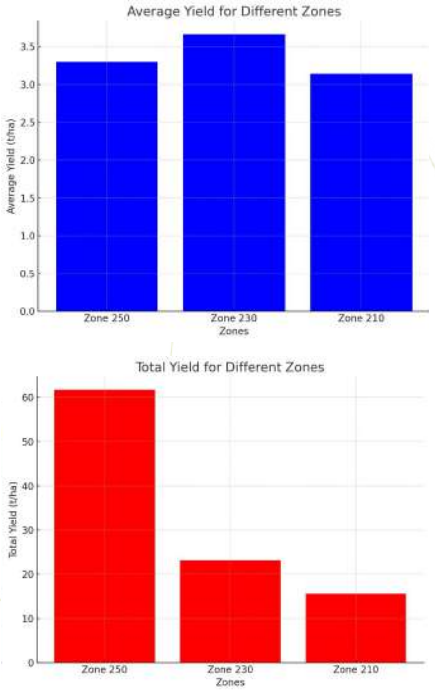
[Trial analytics Tutorial]

Field Trial Analytics Tutorial

[Trial Analytics Guide]

Evaluation of Efficiency of VRA

Separately evaluate each zone both statistically and geospatially, then compile the results.

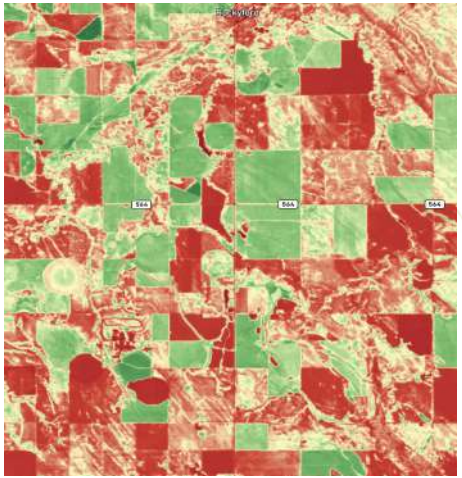


Links: [Trial Analytics]

GeoPard Agriculture
Simplify complexity

Current and Historical Imagery

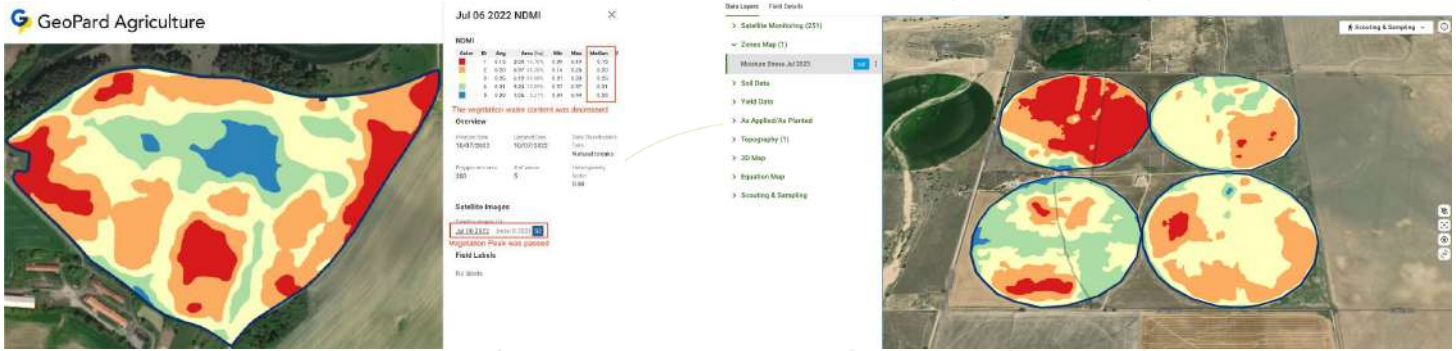
- Support field and region level with indices: RGB, NIR, EVI2, LAI, NDVI, GNDVI, IPVI, GCI, RCI, SAVI, OSAVI, NDWI, WDRVI, SBI, NDMI, MSI, CCCI, MCARI, TCARI, MCARI/OSAVI, TCARI/OSAVI
- Time-series analysis
- Accurate cloud and shadows detection
- Automated management zones for each new non-cloudy image during the season with configurable parameters (index, number of zones, min size of polygon)
- VRA maps - your own rules for rates calculation
- Export pixel-based imagery data to utilize in further analysis/models
- Data sources:
    - Sentinel 2 (2015 - ...)
    - Landsat (1988 - ...)
    - Planet (2015 - …)
    - Hyperspectral imagery (2022)



GeoPard Agriculture
Simplify complexity

Relative Soil & Grain Moisture

- The index determines vegetation water content. It is useful for finding the spots with existing water stress in plants
- Lower NDMI values mark the spots where the plants are under stress from insufficient moisture
- On the other side, lower NDMI values following the vegetation peak highlight the spots that are becoming ready for harvesting first
  More in blog



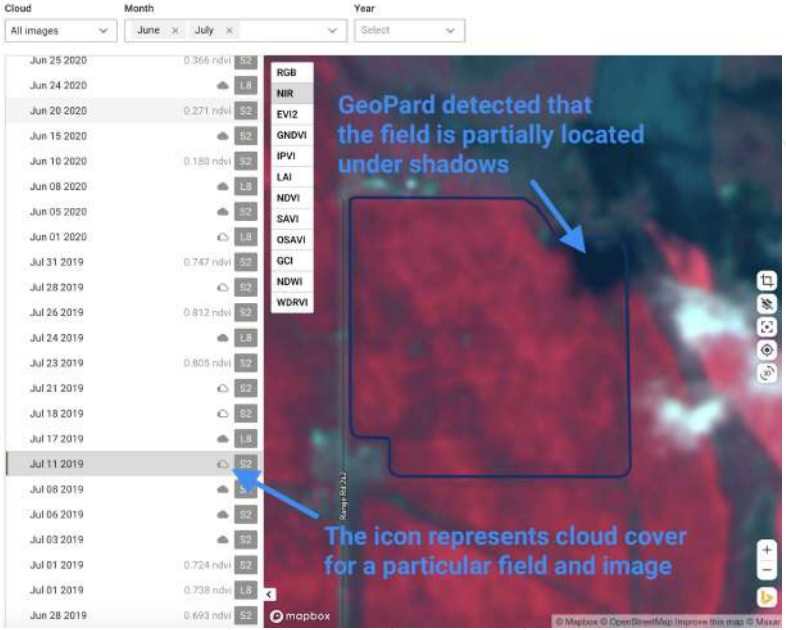
Best-In-Class Clouds And Shadows Detection

GeoPard provides high accuracy of clouds and shadows detection using proprietary algorithms.

The algorithm's accuracy is about 95%, while competitors have ~80% accuracy.

Enables **Automation of Analytics based on Imagery**

Advanced image filter allows looking at partially cloudy and cloudy images to verify decisions.

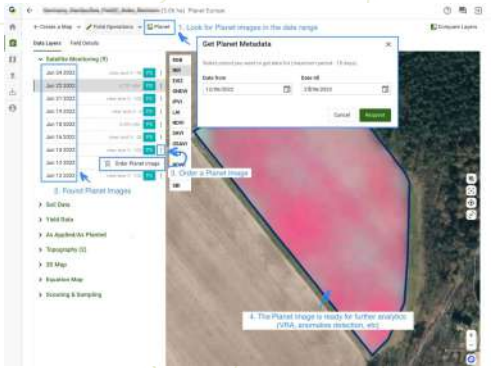


GeoPard Agriculture
Simplify complexity

Planet Labs Imagery Analysis and Rx Creation

- Automated data processing includes:
- Clouds/shadow detection
- Data normalization and cleaning
- Order imagery in 1 click
- Analytics products and VR maps based on Planet imagery

Sentinel-2 VS Planet Scope

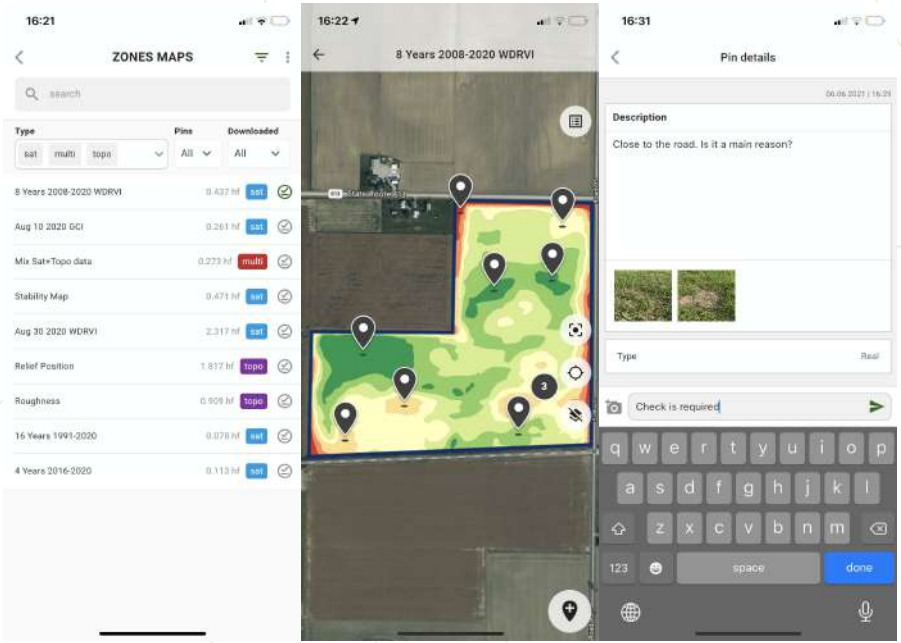


Mobile Application

Sync between mobile and web apps

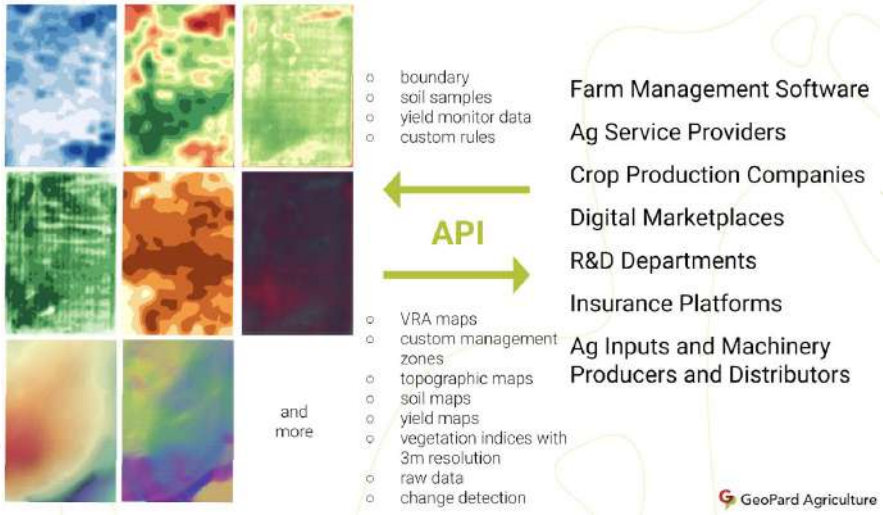
- Online access to all the field datasets and VR zones
- Offline zones and soil maps and scouting capabilities including planning and executed actions with comments and photos
- Platforms: IOS, Android. Mobile and Tablets
- While Label applications

[Mobile apps tutorial]



Powerful API and Automation

- All services are available for integration via API
- GraphQL
- OAuth 2.0 protocol
- Geodata: WMS, WFS
- The user interface for Administration
- User interface widgets for direct integration into other platforms
  Read more



Data Compatibility

Raven Slingshot and Viper Pro 4	Shapefiles
Trimble	Shapefiles and Isoxml
John Deere GS3 and GS4 data	GS3 details, GS4 details
John Deere	MyJD Ops Center integrated, see details in our blog post
AGCO	ISOXML and shapefiles
CNH	ISOXML/shapefiles supported
Topcon/TAP	Shapefile supported
Mueller	ISOXML/Shapefiles supported, details here
ISOXML	Claas, Topcon, Dickey John, CNH and others
AgLeader Monitors	Shapefile support, details here
Amazone / Amatron	Shapefile, ISOXML, Amatron 3 details, Amatron4 details
GeoJson	Generic vector data format. Is supported by most GIS programs including Esri ArcGis, QGIS. Available for API users
Shapefile	Generic vector data format. Is supported by most GIS programs including Esri ArcGis, QGIS
API / Widgets for integration of GeoPard analytics into other systems.	

Statistics for Zones

Calculate statistics on zone level to determine how accurate the measurements are.

Statistical metrics:

- minimum
- maximum
- average
- median
- sum
- standard deviation

Statistics for Machinery Datasets

Calculate statistics for every attribute collected by machinery during agricultural operations (Seeding, Fertilizing, Crop Protection, Harvesting) to determine how accurate the operation was executed and total applied number of agricultural input.

Statistical metrics:

- minimum
- maximum
- average
- median
- total sum
- standard deviation

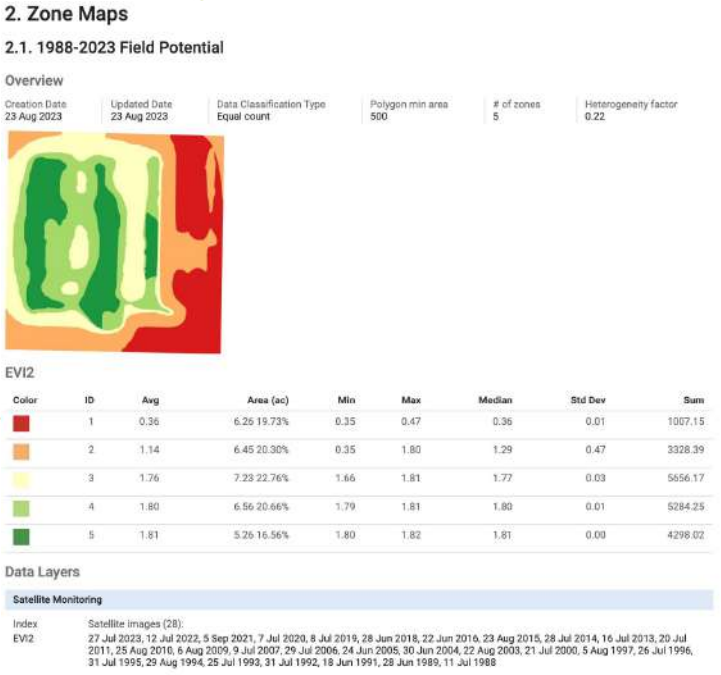
GeoPard Agriculture
Simplify complexity

PDF Reporting

Export as PDF any data layer including Imagery, Yield, Soil, As-Applied, Topography, Zones and Equations

A report can aggregate up to 60 data layers

It includes stats per attribute



2. Zone Maps

2.1. 1988-2023 Field Potential

Overview

Creation Date	Updated Date	Data Classification Type	Polygon min area	# of zones	Heterogeneity factor
23 Aug 2023	23 Aug 2023	Equal count	500	5	0.22

EVI2

Color	ID	Avg	Area (ac)	Min	Max	Median	Std Dev	Sum
	1	0.36	6.25 19.73%	0.35	0.47	0.36	0.01	1007.15
	2	1.14	6.45 20.30%	0.35	1.80	1.29	0.47	3328.39
	3	1.76	7.23 22.76%	1.66	1.81	1.77	0.03	5656.17
	4	1.80	6.56 20.66%	1.79	1.81	1.80	0.01	5284.25
	5	1.81	5.26 16.56%	1.80	1.82	1.81	0.00	4298.02

Data Layers

Satellite Monitoring

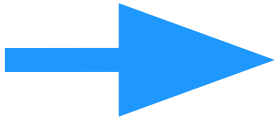
Index	Satellite images (28):
EVI2	27 Jul 2023, 12 Jul 2022, 5 Sep 2021, 7 Jul 2020, 8 Jul 2019, 28 Jun 2018, 22 Jun 2016, 23 Aug 2015, 28 Jul 2014, 16 Jul 2013, 20 Jul 2011, 25 Aug 2010, 6 Aug 2009, 9 Jul 2007, 29 Jul 2006, 24 Jun 2005, 30 Jun 2004, 22 Aug 2003, 21 Jul 2000, 5 Aug 1997, 26 Jul 1996, 31 Jul 1995, 29 Aug 1994, 25 Jul 1993, 31 Jul 1992, 18 Jun 1991, 28 Jun 1989, 11 Jul 1988

Automated Heterogeneity index

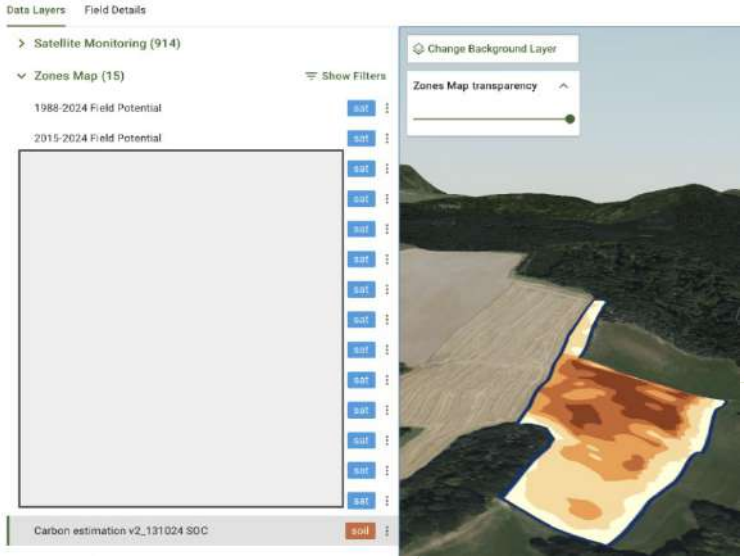
Decide which fields to target first with precisionAg

GeoPard Agriculture
Simplify complexity

Field Boundaries Delineation Model



Soil Organic Carbon/Stock/Bulk Density Predictions



82% Accuracy, tested in the USA, Brazil, Germany and South Africa

GeoPard Agriculture
Simplify complexity

Farm View Module

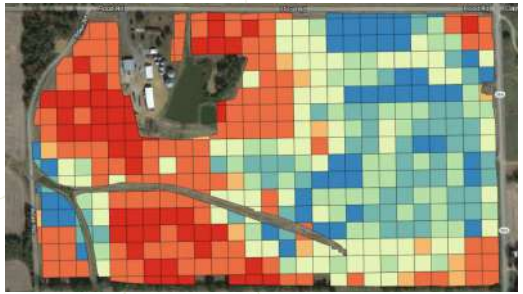
Visually compare layers across fields

GeoPard Agriculture
Simplify complexity

Sustainability Index

- Tillage
- As-applied Fertilizer maps
- Yield maps / GeoPard Field Potential maps
- Cover Crops
- Crop Rotation
- … other factors

Per pixel calculated Sustainability Index



GeoPard Agriculture
Simplify complexity

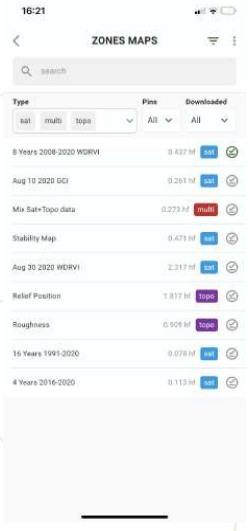
Web, Mobile, API, Widgets, White-Label

WEB: Online access to all the features.

Mobile: Online access to all field datasets and zone. Offline zones and soil maps, and scouting capabilities including planning and executed actions with comments and photos.

API: All services are available for integration via API; GraphQL; OAuth 2.0 protocol; Geo data: WMS, WFS; User interface for Administration; User interface **widgets** for direct integration into other platforms

While-Label & On-Premise applications.



GeoPard Agriculture
Simplify complexity

Partner Program

Partner Program

Join the GeoPard Community Partner Program and earn money by advising and bringing the solution to your network, promoting and telling how well GeoPard Agriculture works for you.

Clients

All clients who enter your referral code, follow your redirect link for registration or inform us of your recommendation will be identified as a referral sale. Clients receive a special bonus for registering with the referral.

Promo materials

We will provide you with marketing materials, videos, images, case studies, product demos and a dedicated affiliate manager to support you as our partner. Feel free to add information about GeoPard on your website and use your other channels for promotion.

Reward

The program includes payouts for bringing users into GeoPard Agriculture. You get high commissions: 25% of the annual income for the first 2 years of each referral sale. Read more about Program Terms and Conditions here.

Become GeoPard Partner

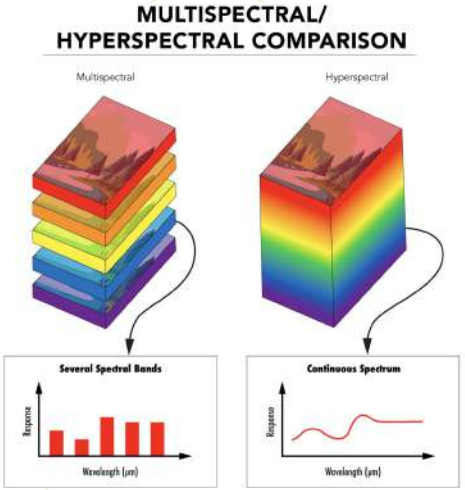
R&D: Hyperspectral Imagery Analytics

GeoPard managed to successfully preprocess (clean, normalize), upload, calculate statistics, various indices and spectral signatures for HYPERSPECTRAL Imagery (±250 bands in comparison to ±10 bands from multispectral imagery).

Use-cases:

- Remote detection of sustainable & regenerative farming practices
- Distinguishing different plant species with similar spectral signatures
- Identifying plant biochemical composition
- Quantifying soil vegetation
- Model soil agrochemical attributes
- Carbon estimations

This is the part of the project partially funded by the EU and the Ministry of the Environment of North Rhine-Westphalia



GeoPard Agriculture
Simplify complexity

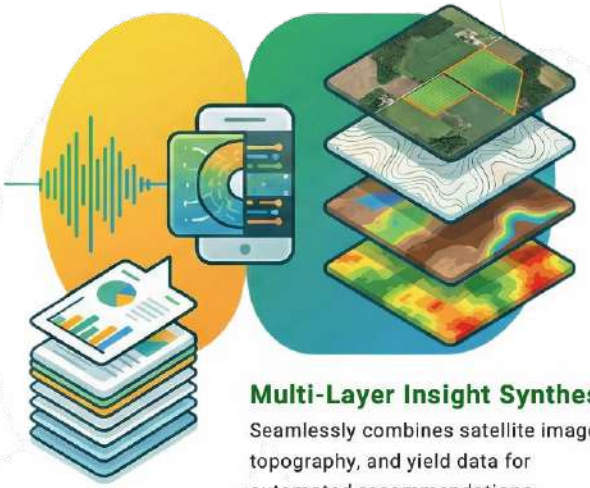
Talk to Your Fields: GeoPard MCP

CONVERSATIONAL AGRONOMY

Talk to Your Fields
Ask natural language questions about field performance, profits and soil health.

Universal LLM Support
Access your data directly within ChatGPT, Claude, or developer environments like Cursor.

Instant Custom Reports
Generate branded, actionable reports immediately through simple conversational chat prompts.



Multi-Layer Insight Synthesis
Seamlessly combines satellite imagery, topography, and yield data for automated recommendations.

80% Reduction Manual Work
Automation of VRA maps and analytics significantly reduces manual data processing time.

Enterprise-Ready Connectivity
Fully integrates with John Deere Operations Center and CNH ecosystems.

JOHN DEERE OPERATIONS CENTER CONNECTED

CNH FieldOps

GeoPard MCP tutorial

Geopard Agriculture
Simplify complexity

2026 release: Yield Prediction Models

GeoPard deep knowledge of each individual fields allow us to create high quality Yield prediction models.

2026 release: Advanced Trial Analytics & AI Recommendations

Planned to be released in March 2026.

Including Trials drawing.

2026 release: Automated workflows

User Interface to set up per farm or account automated analytics

2026 release: Crop Records & Field Level calculators

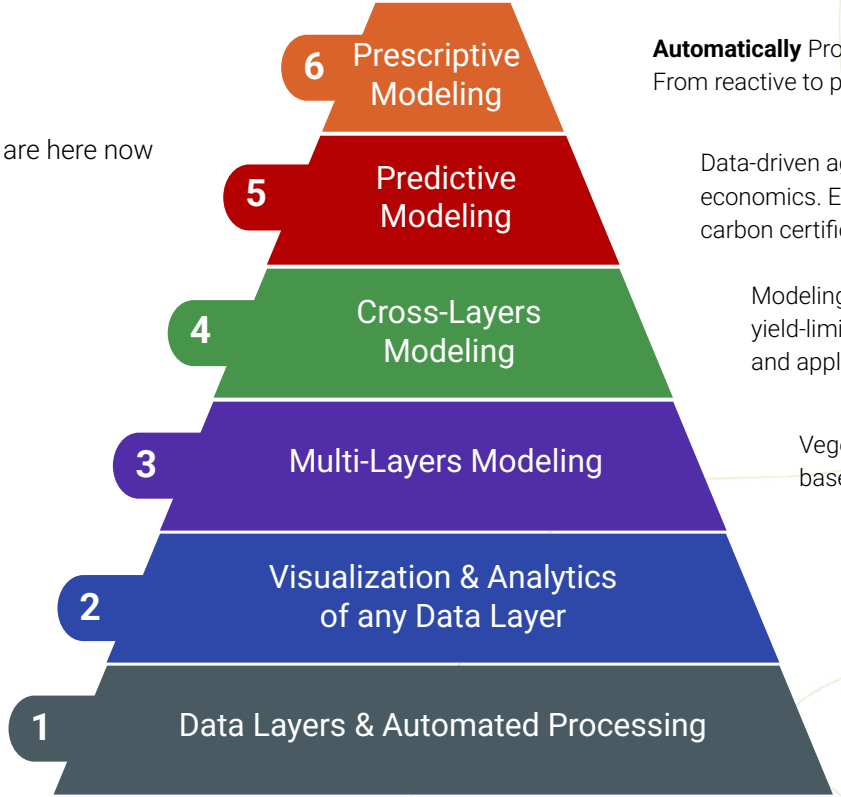
GeoPard team is working on a simple cost tracking module, linked to smart recommendations.

2026 release: AB Lines, Drainage Lines

Founders are domain experts

Product Vision

We are here now



Automatically Produce foresights & agronomic recommendations. From reactive to proactive pure data-driven decisions.

Data-driven agricultural inputs demand, planning, tracking, ROI and economics. Ex: detect executed agri operations are required for carbon certification verifications.

Modeling based on cross layers dependencies. Understand yield-limiting factors, correlations across various data layers and apply agronomic logic based on these insights.

Vegetation indices, analytics, and field management zones based on multiple data layers. Big data analytics.

Data rendering in human beings and AI acceptable formats. Applied advanced analytics and statistics for every data layer.

Automated processing pipelines including data standardization. Supported data sources: satellite imagery, machinery, soil scanners and sensors, topography.

Documentation

docs.geopard.tech - web, mobile, API

John Deere Ops Center Integration

Top Ag Businesses & Research Trust us

GeoPard Agriculture
Simplify complexity

GeoPard Agriculture

Thank you!

Dmitry Dementiev, CEO, Co-Founder

email: dmitry.dementiev@geopard.tech
Cologne, Germany

- geopard.tech
- docs.geopard.tech
- Request a Demo
- Start Free Trial