

Capture Field Trials Analytics

Tool for better understanding
research plots

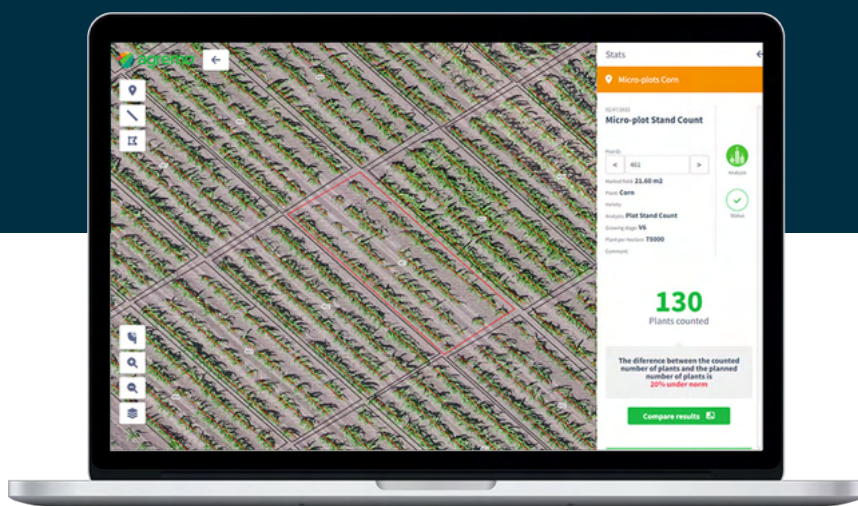


Improve the research and development
process for seed and agrochemicals

The **Agremo AI tool** improves the efficiency of field trials inspection and enables bias-free field trial analytics for CROs, Seed, and Agrochemical input producers.

Avoid subjectivity with bias-free reports and:

- » Remotely track the crop progress of all trial plots throughout the year
- » Collaborate with geographically dispersed teams and colleagues
- » Process thousands of trial plots for the time cost of just a few
- » Get quantification & visualization of important crop parameters
- » Ease the labor-intensive process of walking the trials.



Disease Detection



Plant Stress



Stand Count



Flowering Estimator



Plant Vigor



Drought Detection



Canopy Cover



Weed Detection

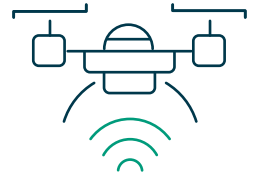


Plant Gap Detection

Improve the effectiveness and accuracy of trial plot data collection with Agremo AI.

Checking trial plots on foot is an inefficient, labor-intensive process prone to mistakes. Agremo AI allows you to improve your technique - You can count plants on thousands of plots in a fraction of the time you do now.

Imagine counting plants in a couple of thousand plots in just a few hours at the highest available accuracy.



“

Agremo Stand Count analysis shows how successful seeding was and how many plants emerged.

In addition, withal can help understand different sowing rates in different plots to achieve the highest yields.

”

Zdravko Hojka PhD

Agroservice and Product Manager
(Maize and Oil Crops), KWS SAAT AG



Plant number per plot & row

Gain access to one of the best on-the-market stand count solutions and determine the exact number of plants on the selected plot area. Get the accurate plant numbers in rows for each plot. Evaluate the germination with AI Stand count with actual counts over each plot, and use the information for your research and trial plot performance grading.

Evaluate pesticide efficacy

Agremo's AI solution maximizes research efforts. In addition, the collected information serves as an additional layer for decision-making, helping agrochemical companies and CROs determine the success of their trials.

Measure the fertilizer efficiency and hybrid performance

With Canopy Cover and Plant Vigor analyses, you can easily identify poor performance hybrid plot trials or measure the fertilizer and plant stimulant performance.

Quantify the percentage of weed coverage in trial plots

Analyze the weed coverage per plot with Agremo Weed Detection. You can evaluate the success of herbicide efficacy more accurately and conveniently and use the results for further grading processes.

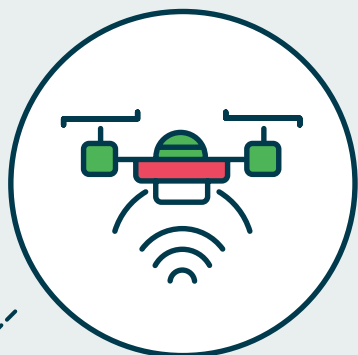
Quantify the Plant flowering on a plot level

Easily quantify crop flowering levels for each plot more efficiently. Use the data for conclusions on pollinator saturation, head position, and nutrient impact.

NDVI on a plot level in addition to the AI reports

Check the plant health indices calculated for each plot individually and download the whole report. See vegetation indices: VARI, EXG, GLI Index, Visual NDVI, NDVI, SAVI, RENDVI.

Here is how it works



DRONE FLIGHT

Use any drone brand, including RGB camera. Our Global drone pilot network can do the flights if you don't own a drone.



GENERATE MAPS

Drone images have to be stitched into a required 2D map in GeoTiff format. Agremo has an integrated engine for creating 2D maps, or you can use any other commercially available image stitching solution.



ANALYZE PLOTS

Request an Agremo AI analysis on plots of your choice. AI reports are usually delivered within 24h, while NDVI reports are in real-time.



AI REPORTS

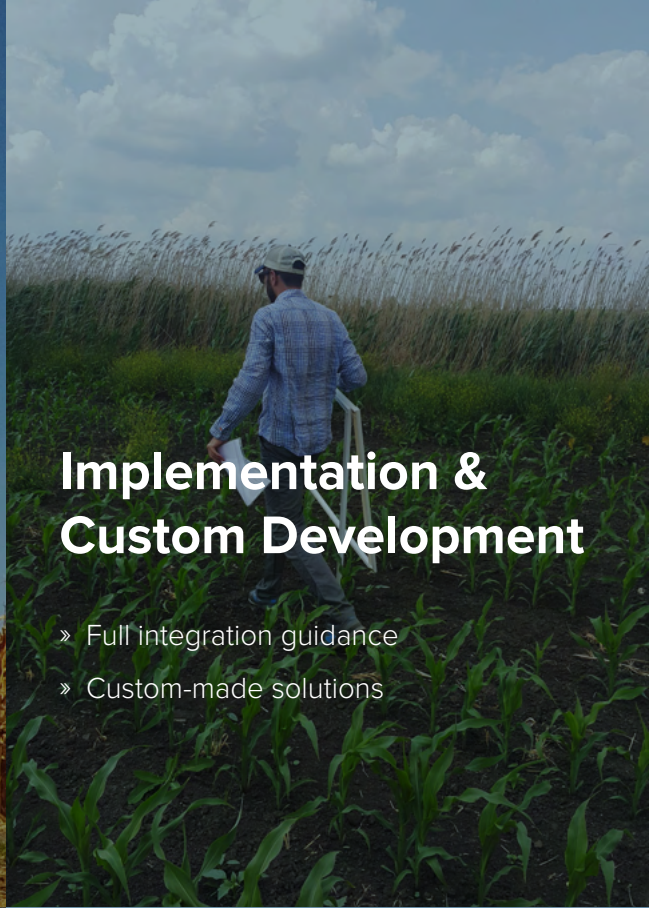
You will get an AI report without human subjectivity. Results are available visually on the app, and you will get a CSV and SHP file.

We will support you during the project.



Implementation & Custom Development

- » Full integration guidance
- » Custom-made solutions



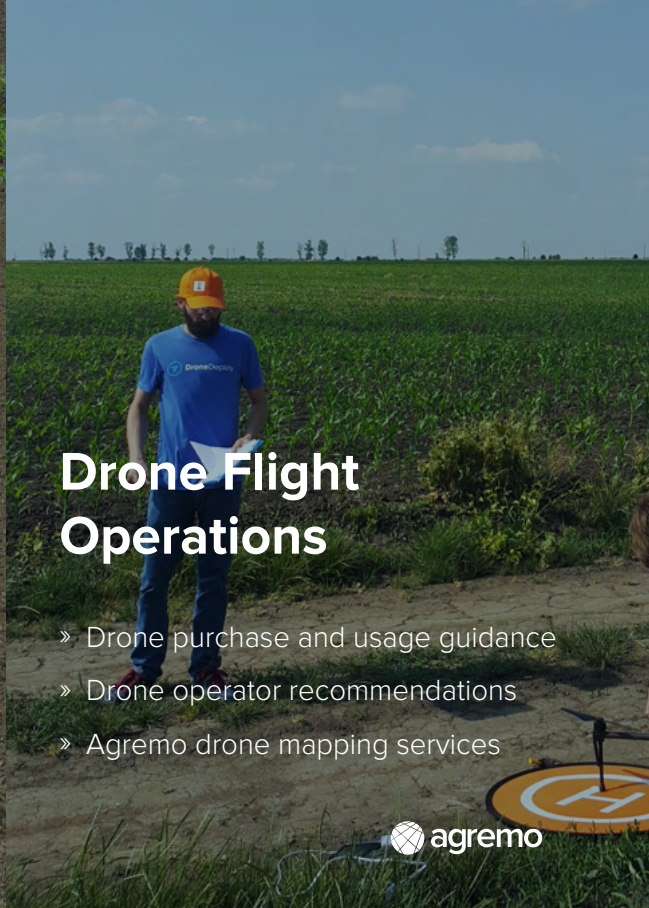
Project Support & Management

- » Professional advice on mapping
- » User onboarding and additional training
- » Customer Support service



Drone Flight Operations

- » Drone purchase and usage guidance
- » Drone operator recommendations
- » Agremo drone mapping services



Included Tools for Field Trials



Plot Creation Tool

The tool allows you to conveniently generate your plot borders with just a couple of clicks. You can change the number of rows and columns and the size of the plots to fit the layout of your trial. In addition, you can easily name the plots and assign the values and information essential for your research to each plot border.



Plant Health Vi

Visualize, monitor and manage your plants with four vegetation indices available: VARI, EXG, GLI Index, Visual NDVI, SAVI, RENDVI, NDVI.



Report Export

Report Export- Get the full micro-plot analysis report in CSV and Shapefile. The reports contain data-rich visualizations and they can be accessed offline. Easily open the analysis history, download analysis reports in CSV file format and have trial performance data at your fingertips.



Collaboration Tool

Share every analysis report and leave a comment for your colleagues. Not only can you get accurate field trial data, but you can also collaborate with your team within the same field analytics tool.



Map Comparison Tool

Compare two different analyses reports on the same map of one experimental field. Upload multiple maps of the same field to compare the same analysis report at different growing crop stages.

List of traits per crop

Field Trials Recommended Analyses							
	Cereals	Corn	Soybean	Sugarbeet	Canola	Sunflower	Lettuce
Stand Count		✓	✓	✓		✓	✓
No. of Plant per Row		✓	✓	✓		✓	
Gap Length		✓	✓	✓		✓	
Plant Vigor	✓	✓	✓	✓	✓		✓
Canopy Cover	✓	✓		✓	✓		
Weed Cover	✓	✓	✓	✓		✓	✓
Yellow rust	✓						
Yellowness		✓	✓	✓	✓		
Lodging	✓	✓				✓	
Flowering		✓			✓	✓	
Plant Size							✓
Plant Height		✓				✓	
Vegetation index	✓	✓	✓	✓	✓	✓	✓

About us

Our platform is just one of the reasons why our clients love working with us.

**We firmly believe that
great progress needs to
have great people behind it.**

This is why we have agricultural consultants working with data analysts, passionate drone operators and savvy software engineers.

This unique blend of agriculture and technology enables us to know how to make the **right decisions at the right time.**

Do you want to know how Agremo can help you take your business to the sky?

Visit our website www.agremo.com
or get in touch sales@agremo.com

