IG DRONES ™
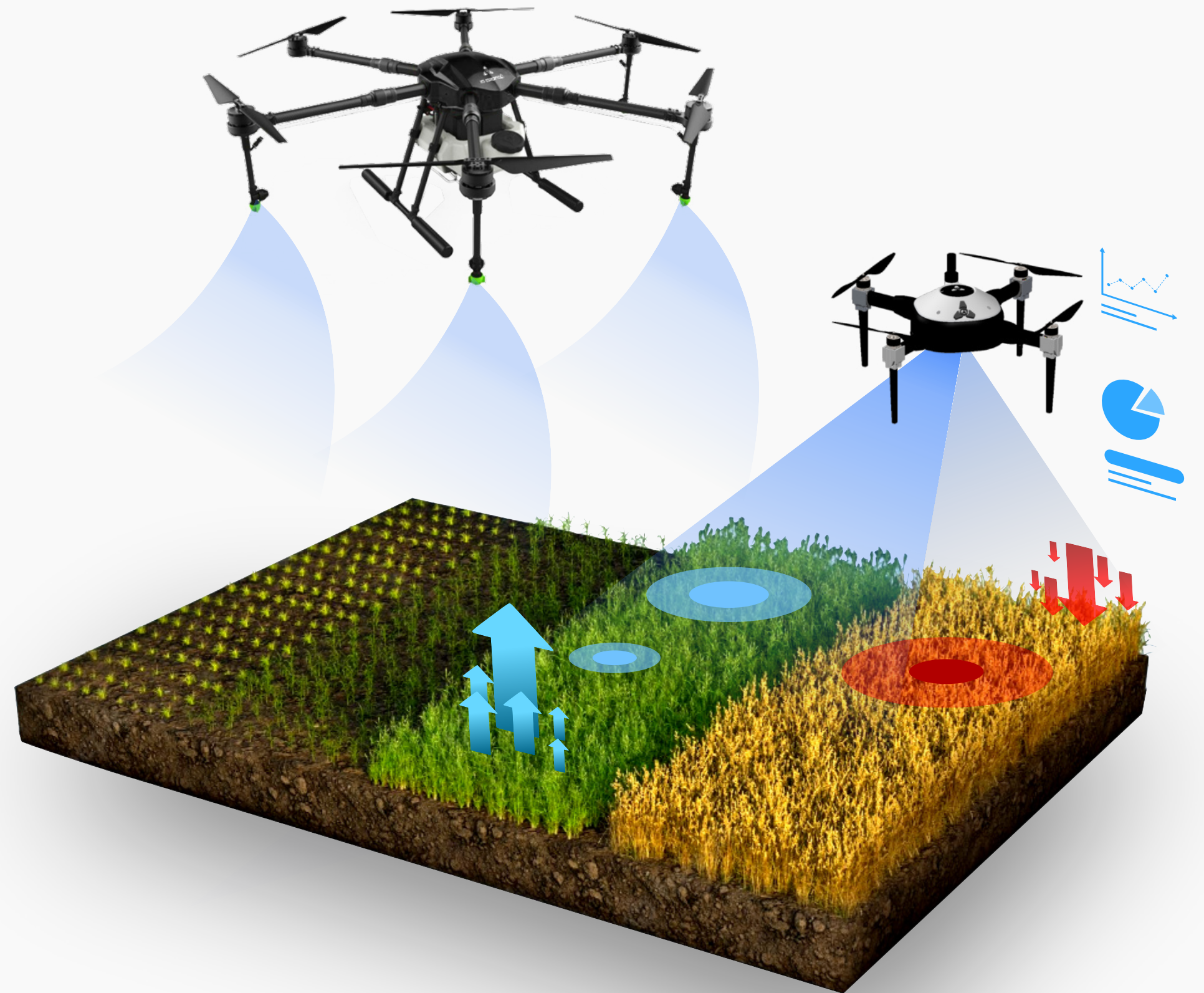
India's Leading
Enterprise Drone Platform

Specialized in

Agricultural
Applications

BEST DRONE
ORGANISATION
START UP

Best Drone
Organisation-Start up Award

2022 AirWards

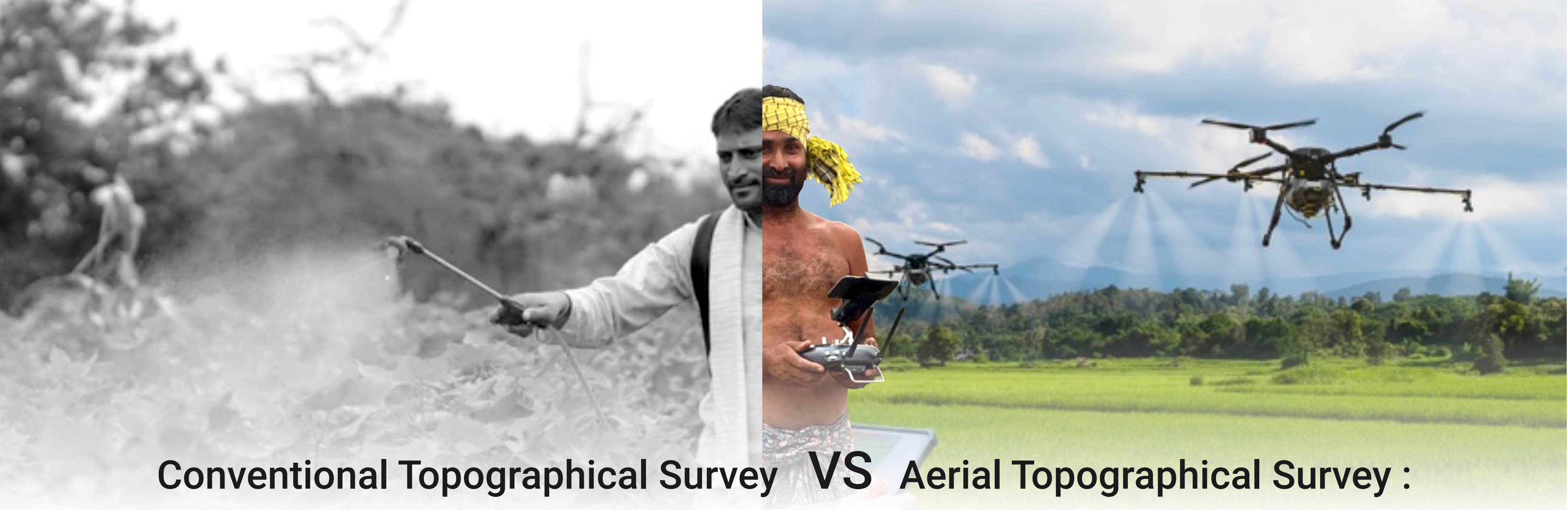🌐 www.igdrones.com   f ▶ 🐦 📷 in @ igdrones   ✉ info@igdrones.com

About us

IG Drones^{TM} delivers world class solutions offering end-to-end Drone based Intelligent Data Solutions in Survey, Mapping & Inspection for an array of requirements in Utility, Capital Infrastructure Projects, Mining, Agriculture & Surveillance Sectors using state-of-the-art drones. Since our inception, we have collaborated with more than 180 industrial clients operating all throughout the nation, making us India's top provider of enterprise drone & data analytics solutions. Capture, Analyze & Share for a true end-to-end data collection, AI-driven inspection & reporting under a SaaS based technology agnostic platform. Rooted in years of expertise in being some of nation firsts, come experience the enabling of drone ecosystem with us.

Scan to
know more

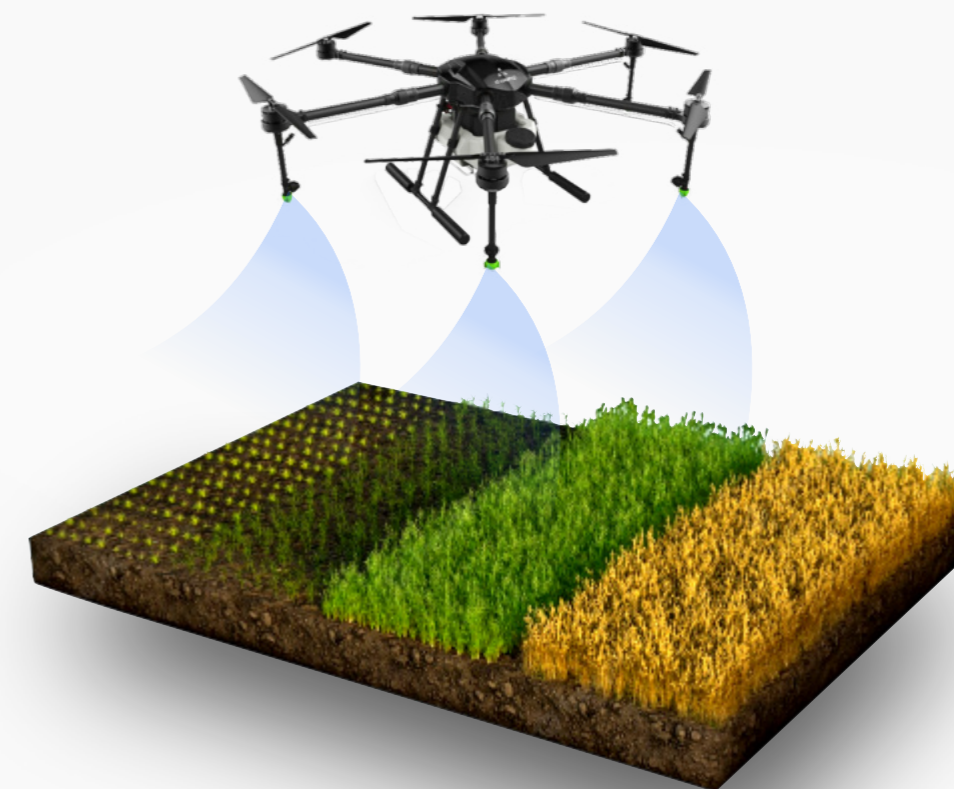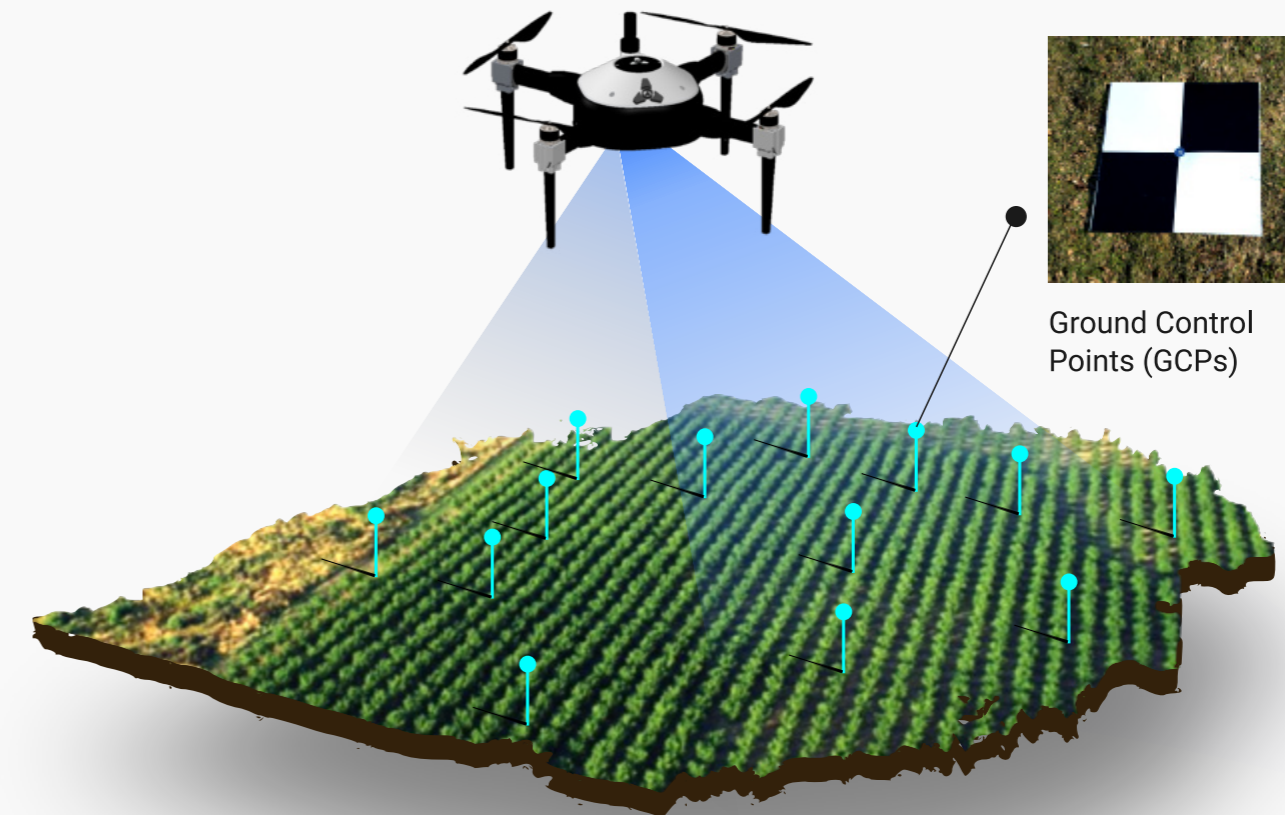# Conventional Topographical Survey **VS** Aerial Topographical Survey :

Benefits	Conventional Survey	Aerial Survey
Accuracy	❌	✅
Time	❌	✅
Visualization	❌	✅
Inaccessible Areas Accessibility	❌	✅
Digital Models	❌	✅
Safety	❌	✅
Operational Errors	✅	❌

How does it work?

Each photo mission is prepared to the custom specifications discussed with the client in advance. Multiple flight lines are generated over the proposed site, designed for high overlap between flight lines and successive images. Ground control points (GCPs), if needed, are acquired for the project (we recommend using GCPs for all projects that will be used in a CAD/GIS environment), requiring an on-site visit with a DGPS.
The mission is flown with high-resolution cameras mounted in a vertical position, pointing straight down. Once the vertical Images are all captured, we return to base and begin post-processing.

The Images are geotagged and sent through an advanced Surface-From Motion (SFM) system. This system analyzes each pixel in each Individual Image and is able to calculate very precise camera positioning using a variety of techniques. Thermographic photos are stitched together over time to detect the direction of water flow and locate geographical features that may affect water dispersion. Drones' accuracy and speed allow fertilizer to be delivered to precise locations if crops aren't growing well enough, as well as the elimination of pests and pathogens by spraying pesticides from the drones themselves.
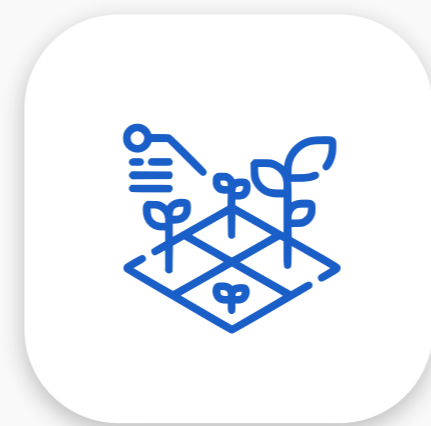
Ground Control Points (GCPs)

SPRAY
WITHOUT LIMITS

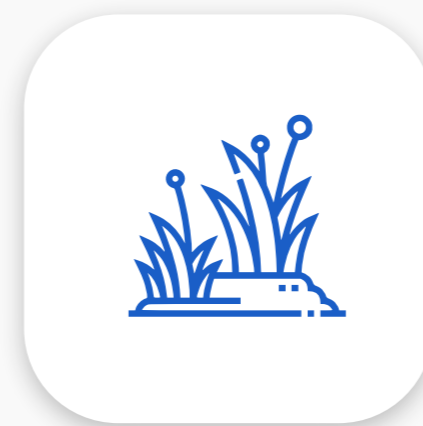# Agricultural Services

Spray Application

Crop Scouting

Plant Stress Analysis

Weed & Pest Analysis

Nitrogen Status Analysis

Irrigation Monitoring & Planning
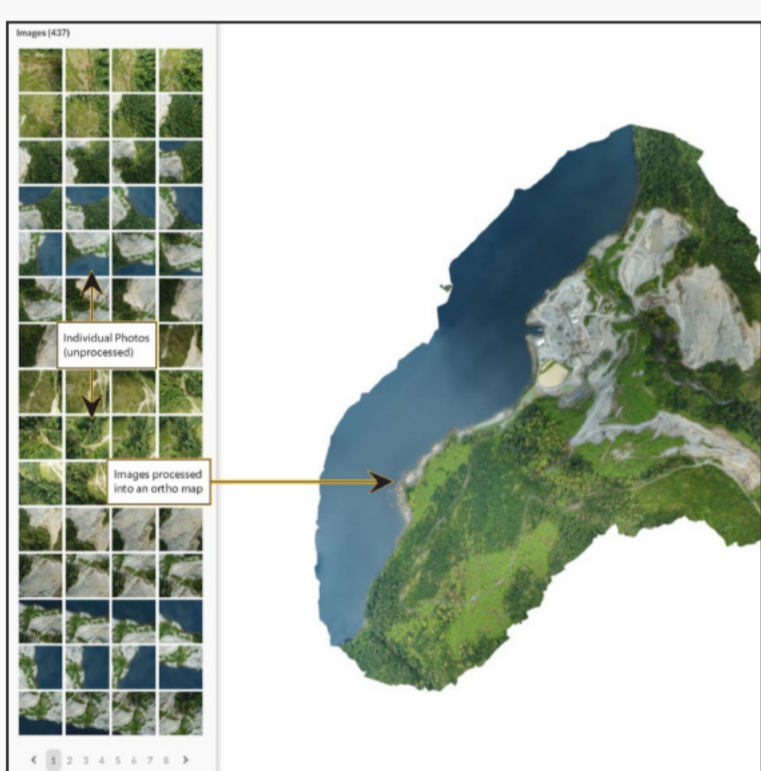
Prescription Maps

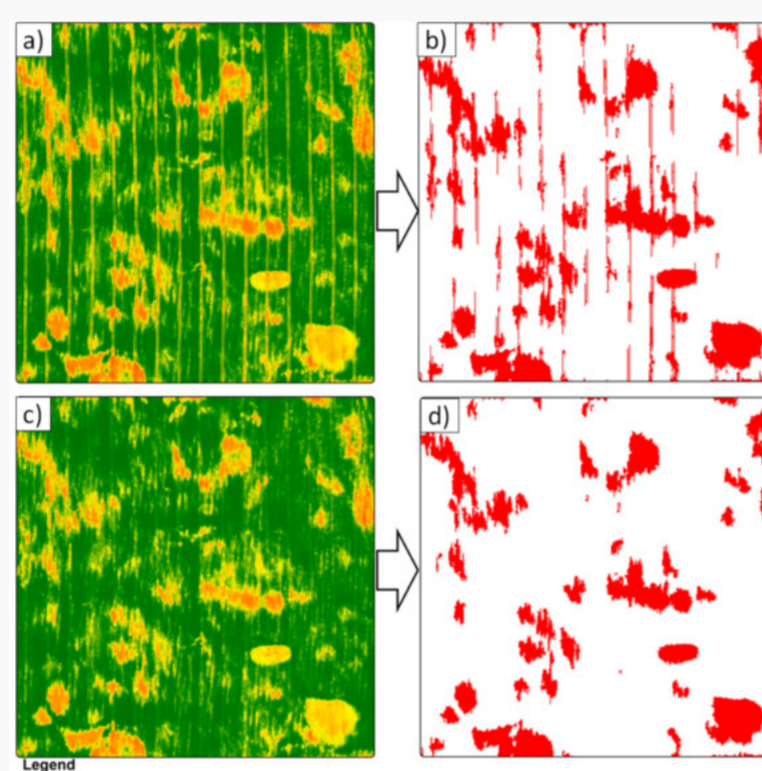**Plant Counting & Crop Emergence**

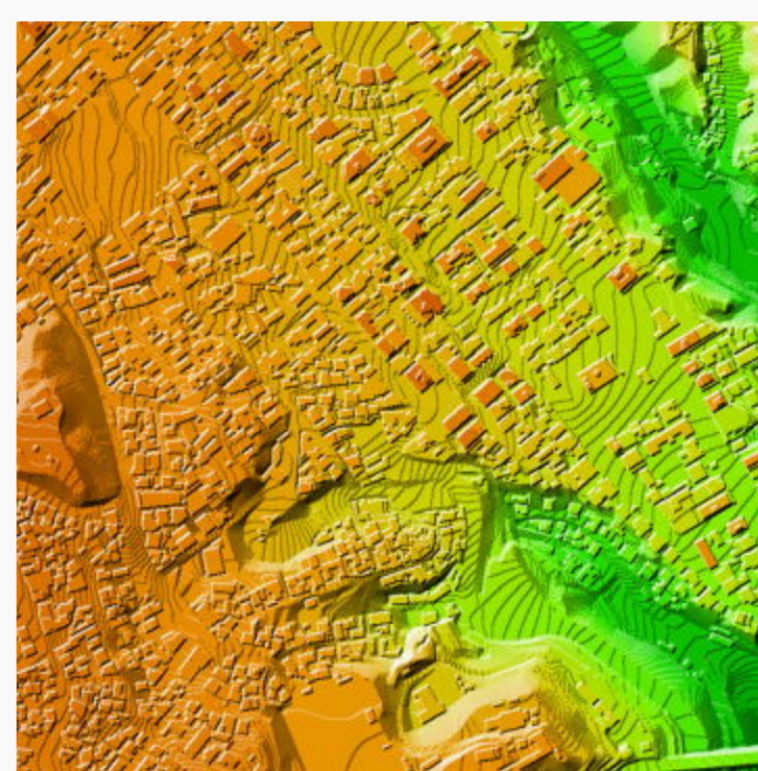**Crop Damage Assessment**
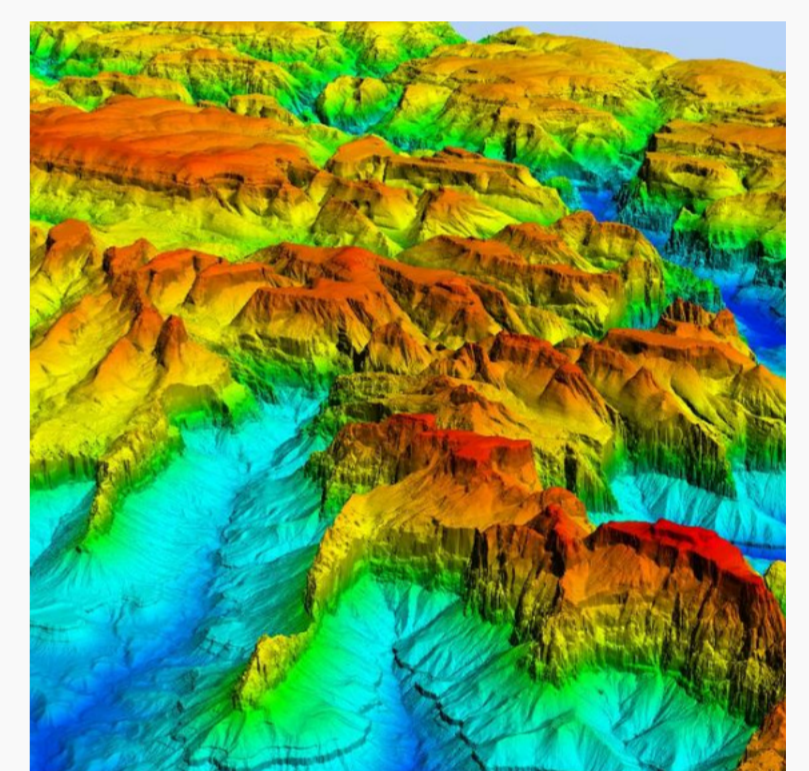
SPRAY
WITHOUT LIMITS
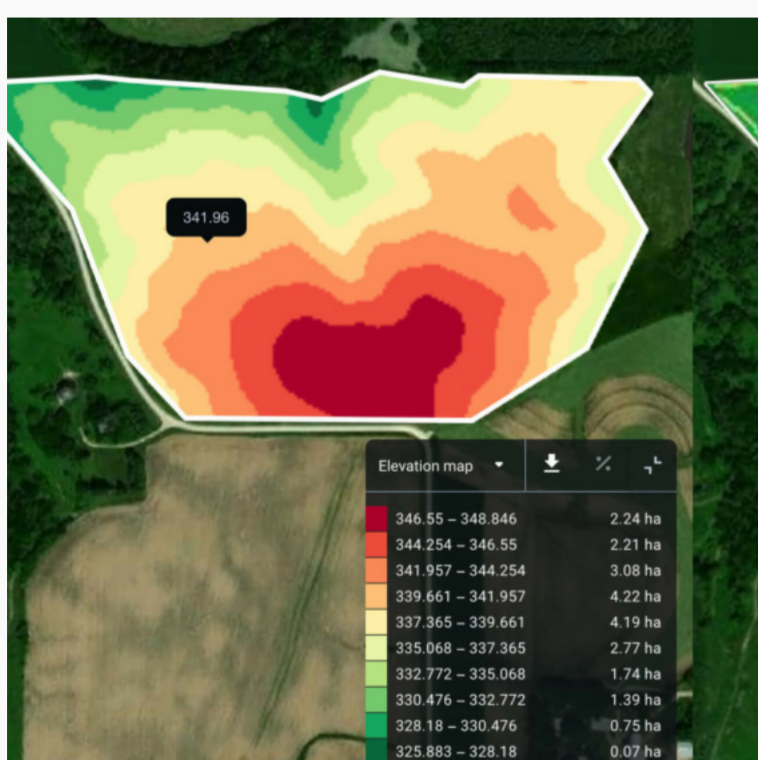

Deliverables :

Field Orthomosaic Maps

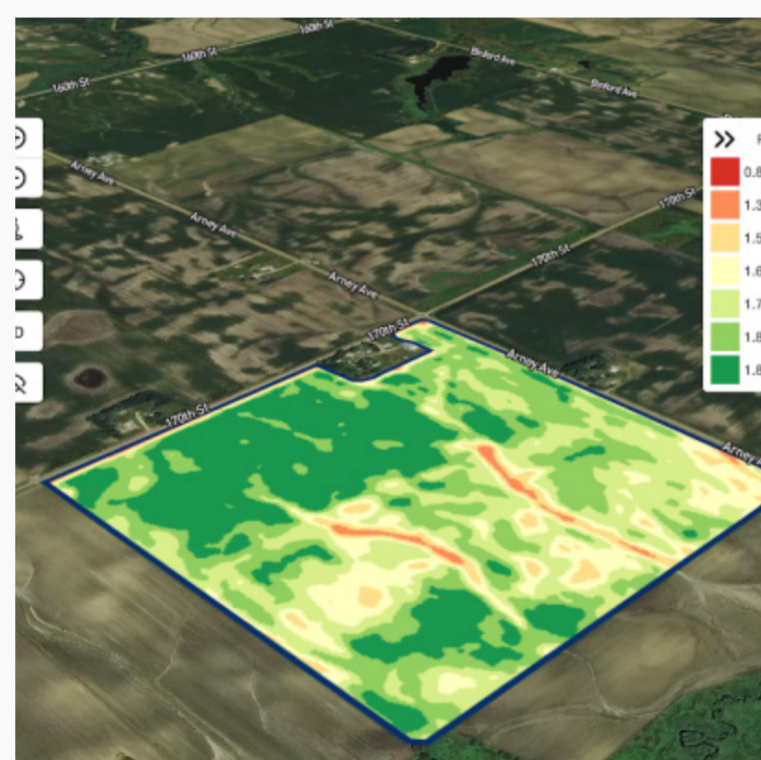AI Crop damage
Assesment Report

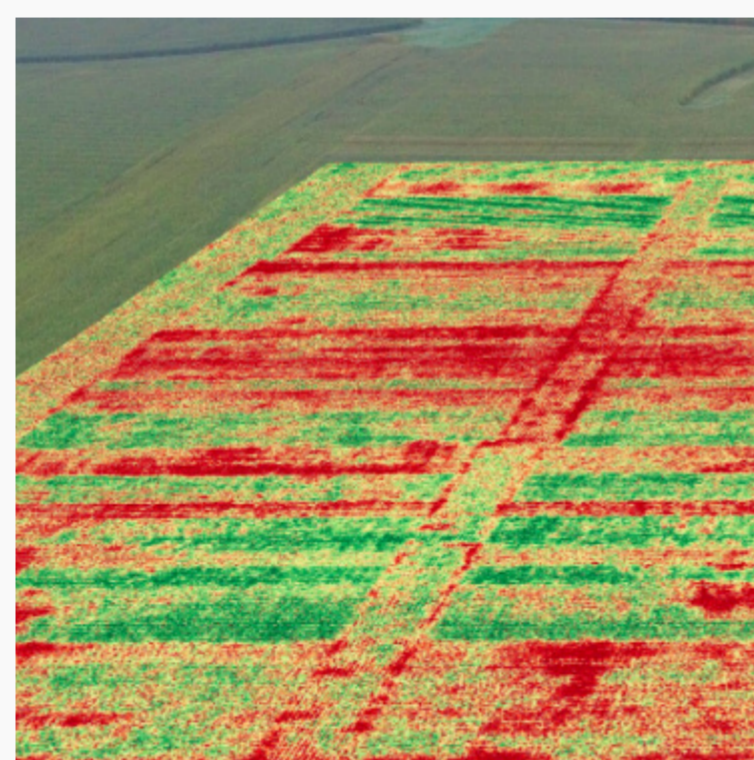

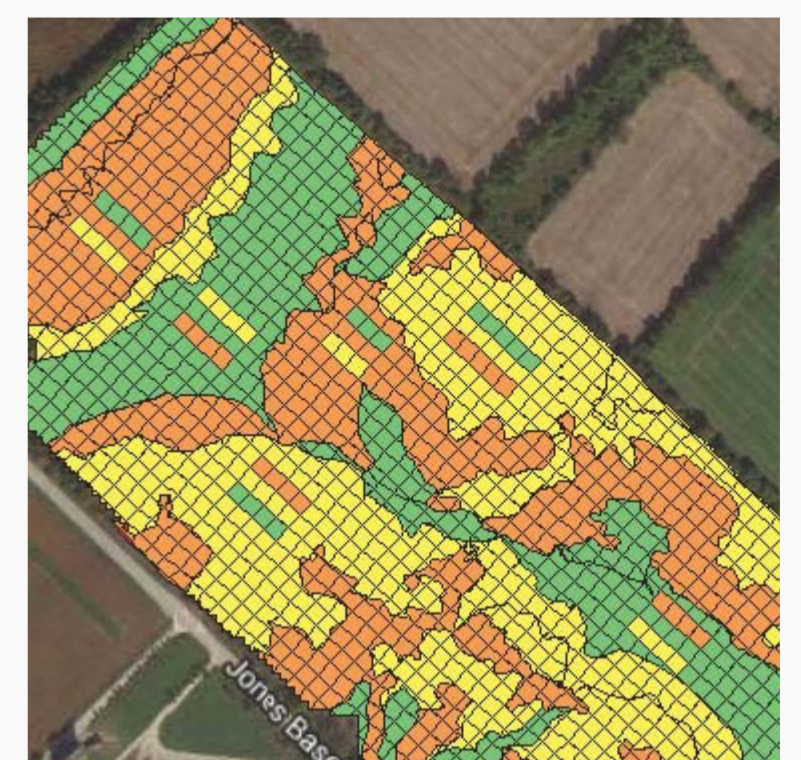Digital Surface Models
(DSM)

Digital Terrain Models
(DTM)
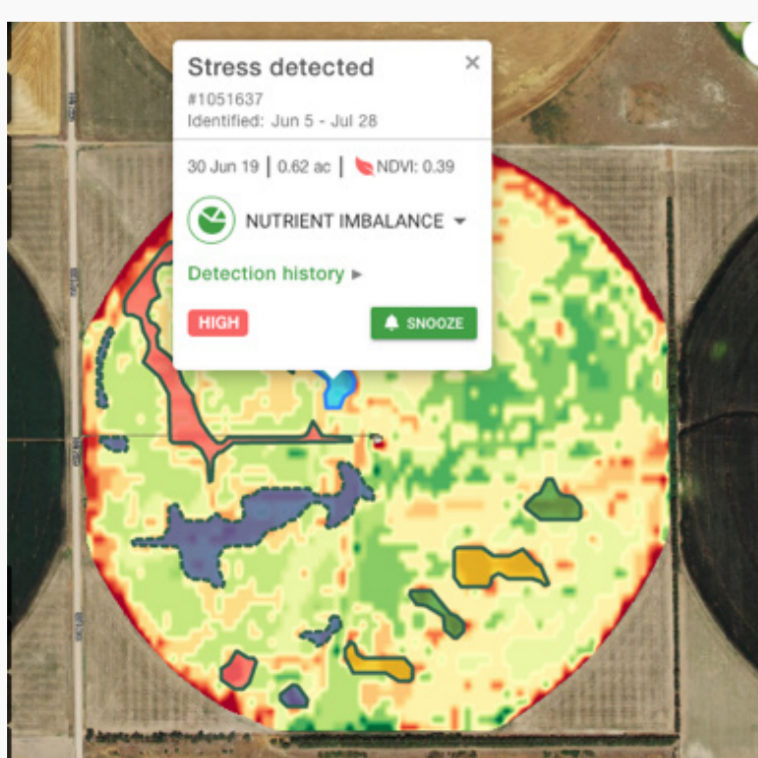

Digital Elevation Model
(DEM)

Contour Maps

Vegetation Index Maps

Prescription Maps

Nutrients and Stress
Analysis Report

Clients

IG DRONES™

☎ +91 9990500337   ✉ info@igdrones.com   🌐 www.igdrones.com

Head Office :

S-14 , Second Floor , Devsha Business Park
D-215, D Block, Sector 63, Noida, Delhi NCR 201301

Regional Offices :

Delhi | Mumbai | Ahmedabad | Kolkata
Guwahati | Bangalore | Bhubaneswar