

#### XAG | MAKE AGRICULTURE SMARTER



## XAG

- Founded in **2007**
- 1,400+ Employees
- 800+ Developers & Engineers
- **550**+ Distributors Worldwide
- 290+ Training Facilities
- 53,000+ UASs Sold
- 1,300,000 Farm Customers

Source: XFIS

#### XAG DRONE OPERATION SCALE

21,731
UAS (Set)

791,832

**Total Time (Hr)** 

4,253,299

**Total Acreage (Ha)** 

6,513,951

Xinjiang

**Operation (Flight)** 

10,866,873

**Total Distance (Km)** 

53 %
Market Share



Source: XFIS, Data by the End of 31 Dec 2018

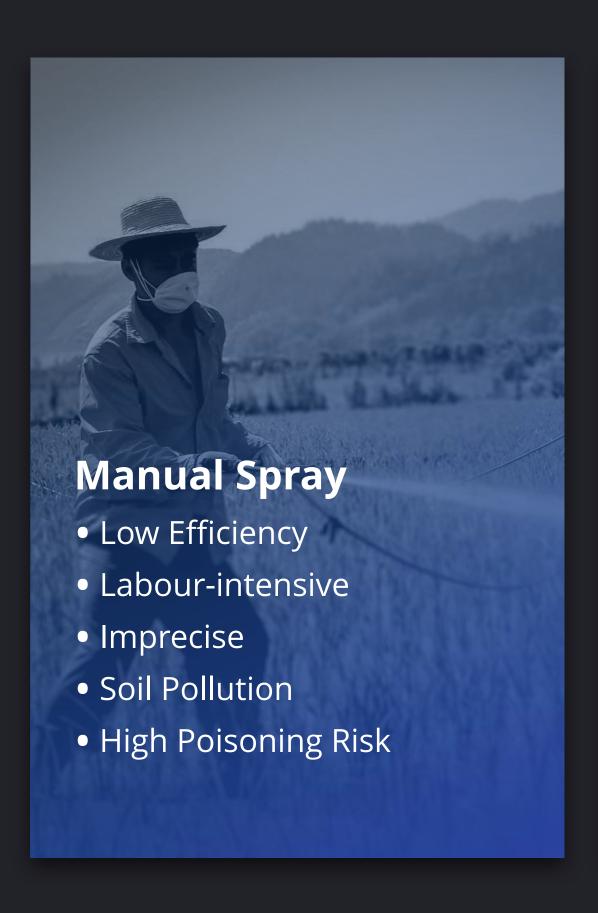
#### AGRICULTURE MECHANISATION IN CHINA

Cultivating 81%

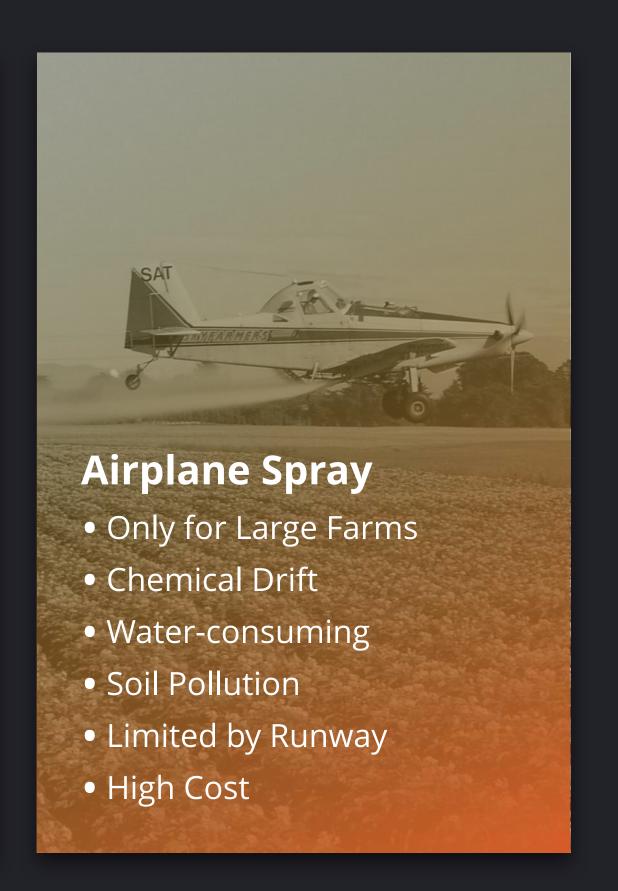
Planting 53%

Harvesting 56%

Managing 7%









### **ECOLOGICAL CRISIS**

34.8%

Asia / World Arable Land 51.7%

Asia / World Pesticide Use 3 Million

Cases of Pesticide
Poisoning Occur Every
Year Worldwide

250,000

Deaths Resulting from Pesticide Poisoning Every Year Worldwide

Source: FAOSTAT, WHO

### We Need A







### SOLUTION



**Enabling High Precision Agri-services** Provide Infrastructure for Autonomous Vehicle

**Standardise Agri-services** Pave the Way for Auto Agri-machinery **Provide Autonomous Platforms** for Precision Agriculture

Autonomous UAS Replaces Traditional Methods Save Labour & Improve Production Efficiency Reduce 30%+ of Pesticide & 90%+ of Water Eco-friendly, Improve Production Quality & Safety

> **Lower Production Cost Improve Produce Quality**

Connect Land, Crop, Farmer

### and Consumer

IoT Technology Assists Farming Decision-making Manage Farmland Scientifically with Big Data Make Agriculture Production Traceable Build Trust between Farmers and Consumers

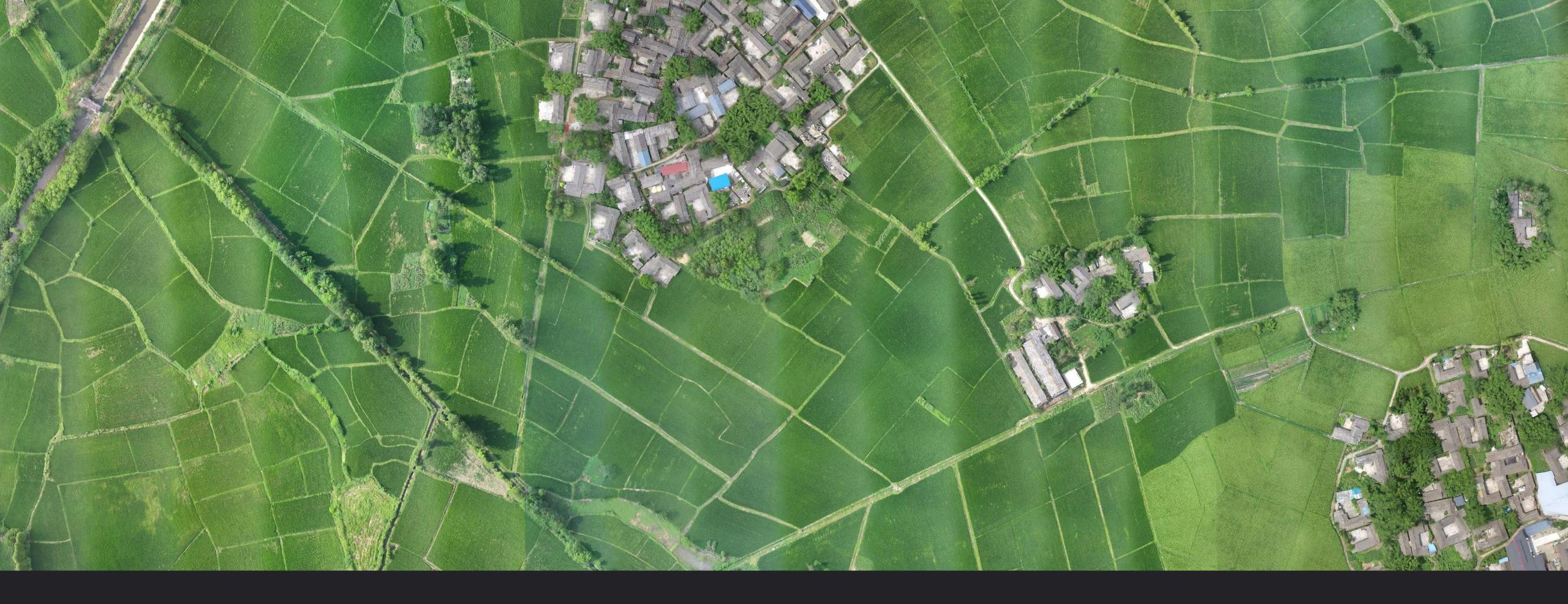
> Rebuild the Trust b/w **Consumers & Farmers**

#### Make Agriculture intelligence **Practical**

Utilise Farming Data Forecast Crop Disease **Enable AI Prescription Services** Speed up Decision-making Process

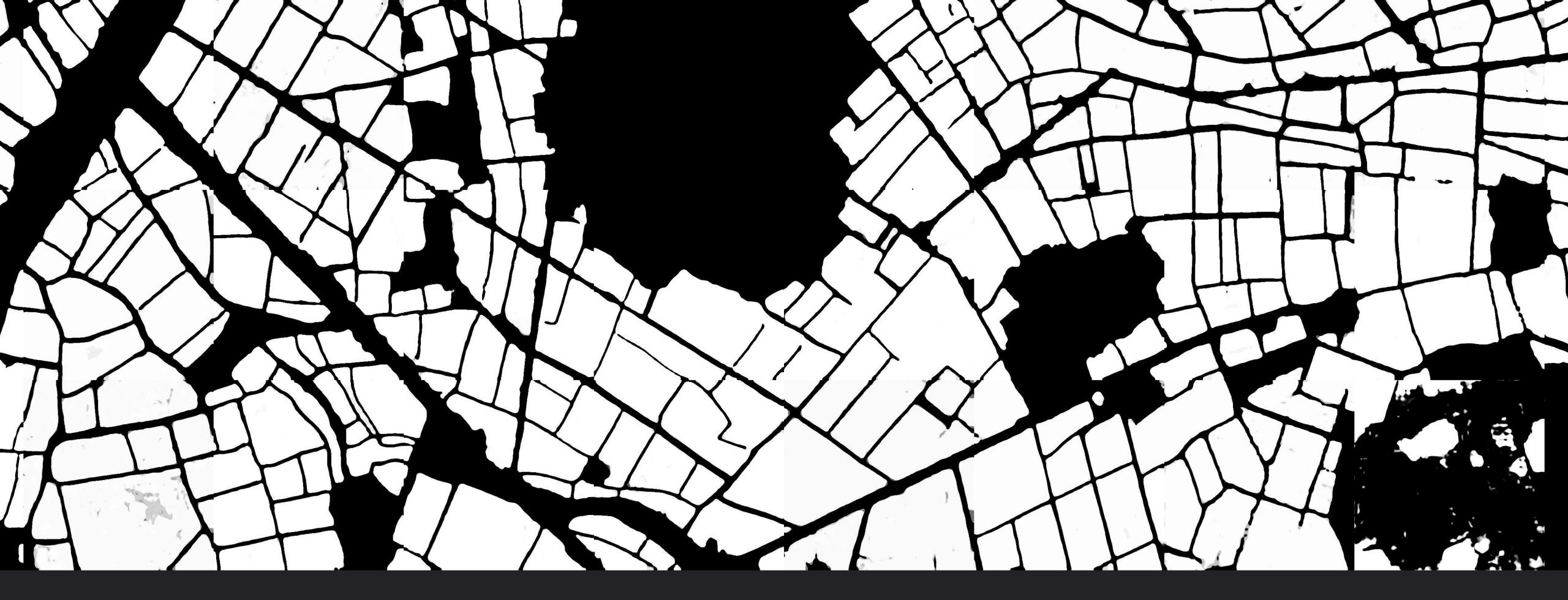
**Lower Decision-making Risk Empowers All Agri-services** 

XAG SMART AGRICULTURE SOLUTIONS



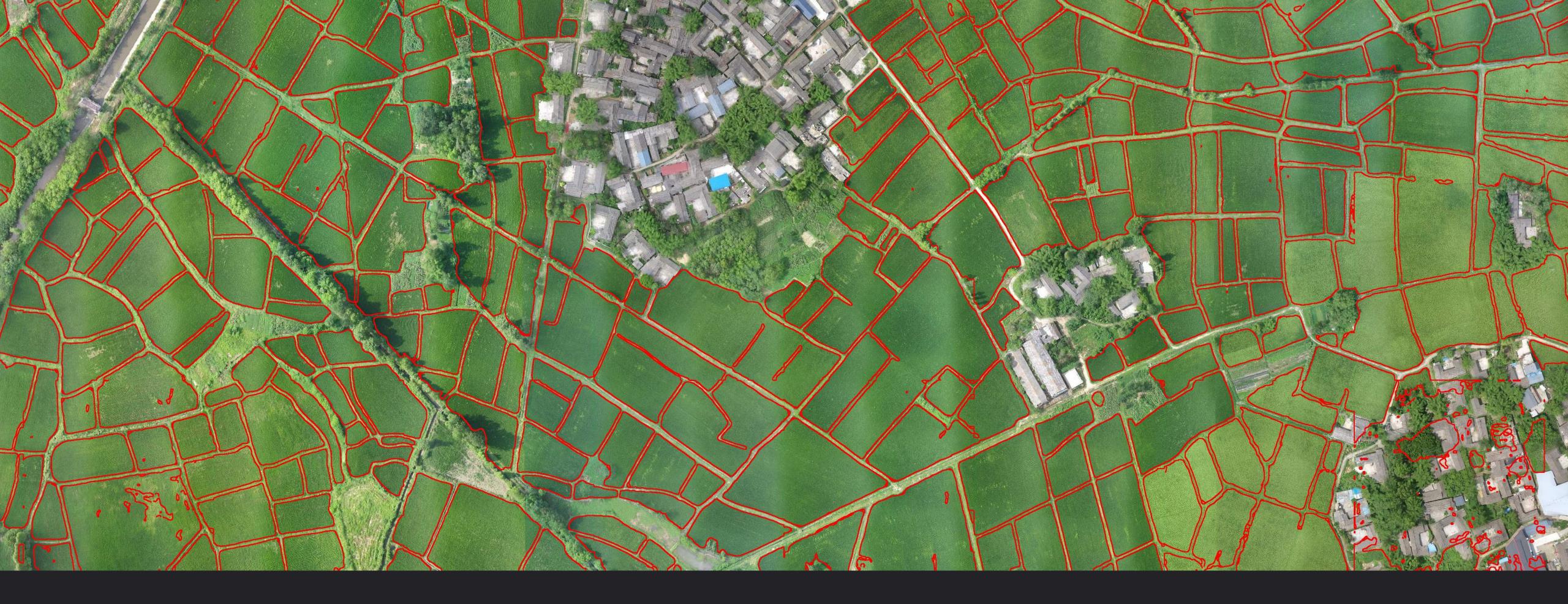
# Field Edge Recognition

Deep Learning / Image Segmentation



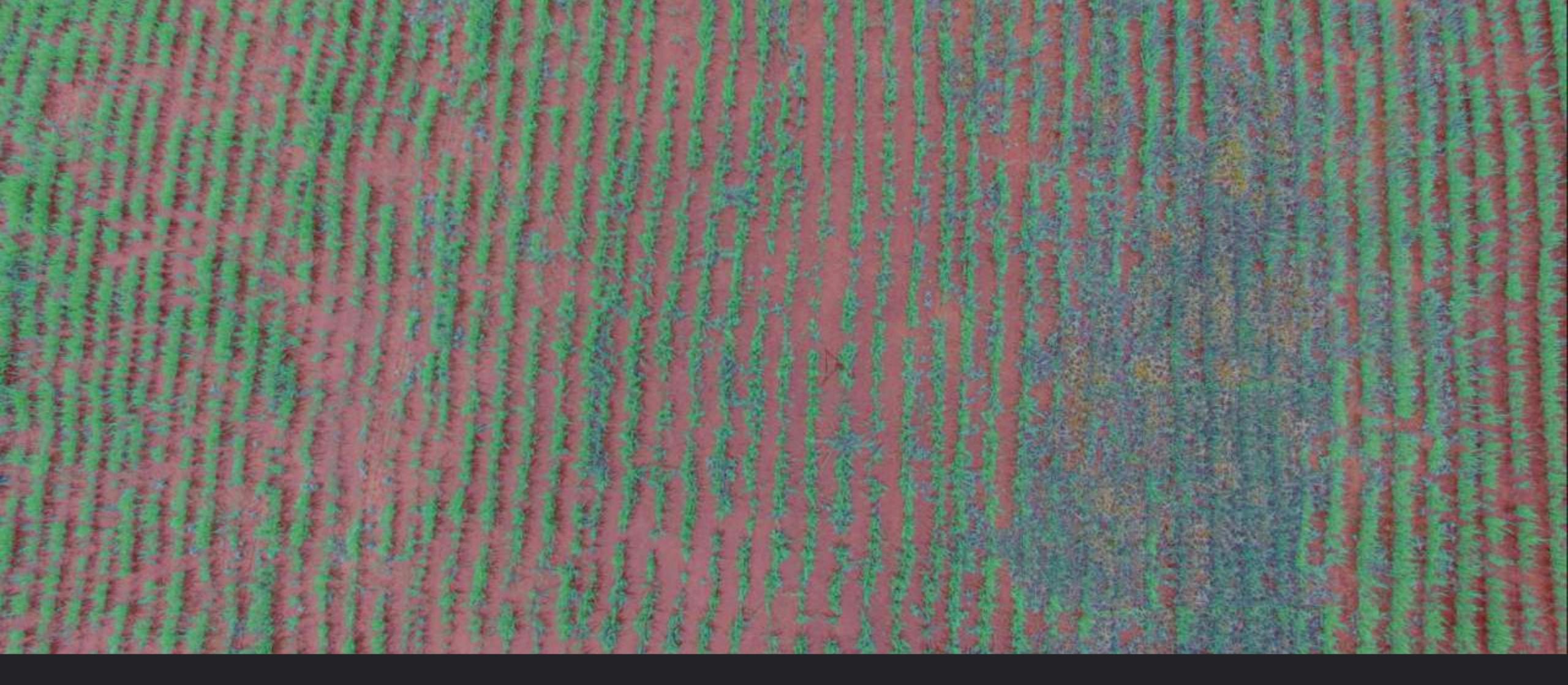
## Field Edge Recognition

Deep Learning / Image Segmentation



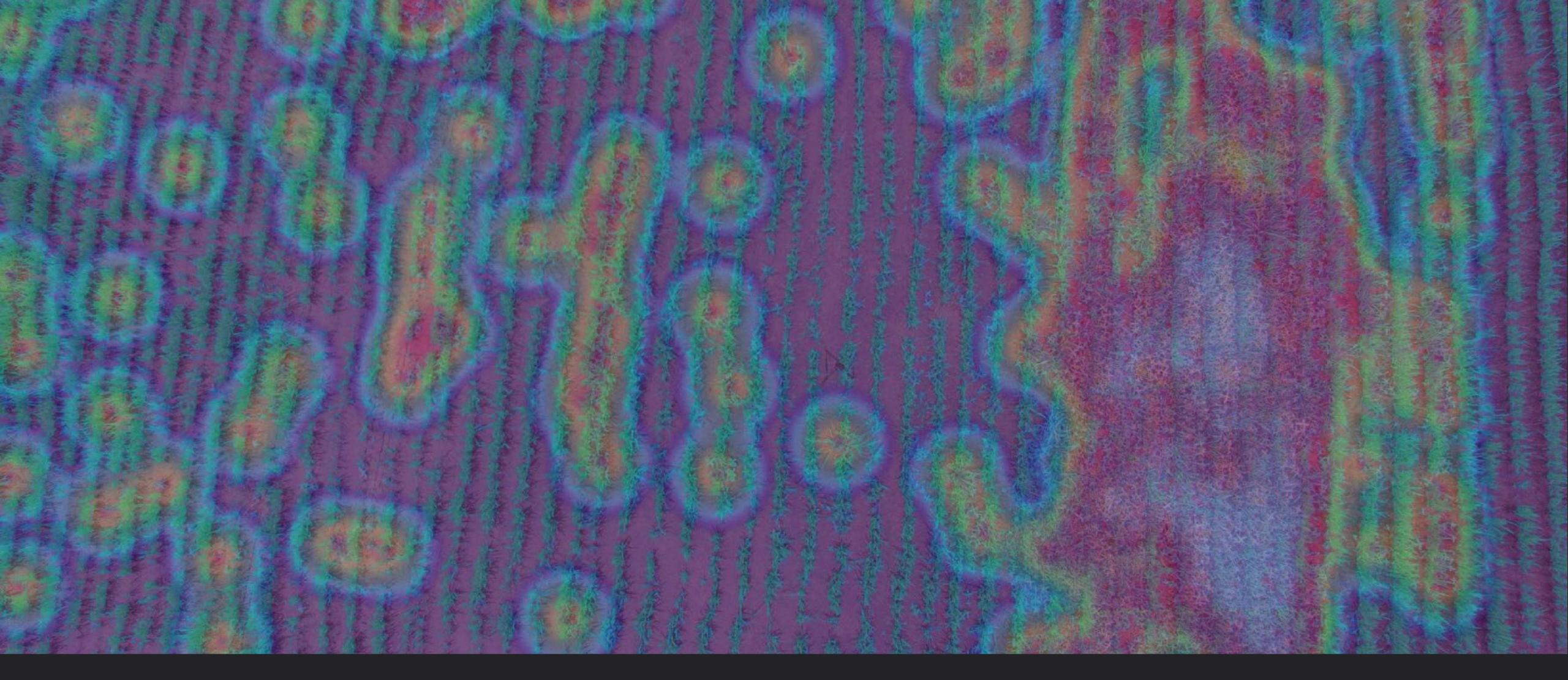
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Deep Learning / Image Segmentation



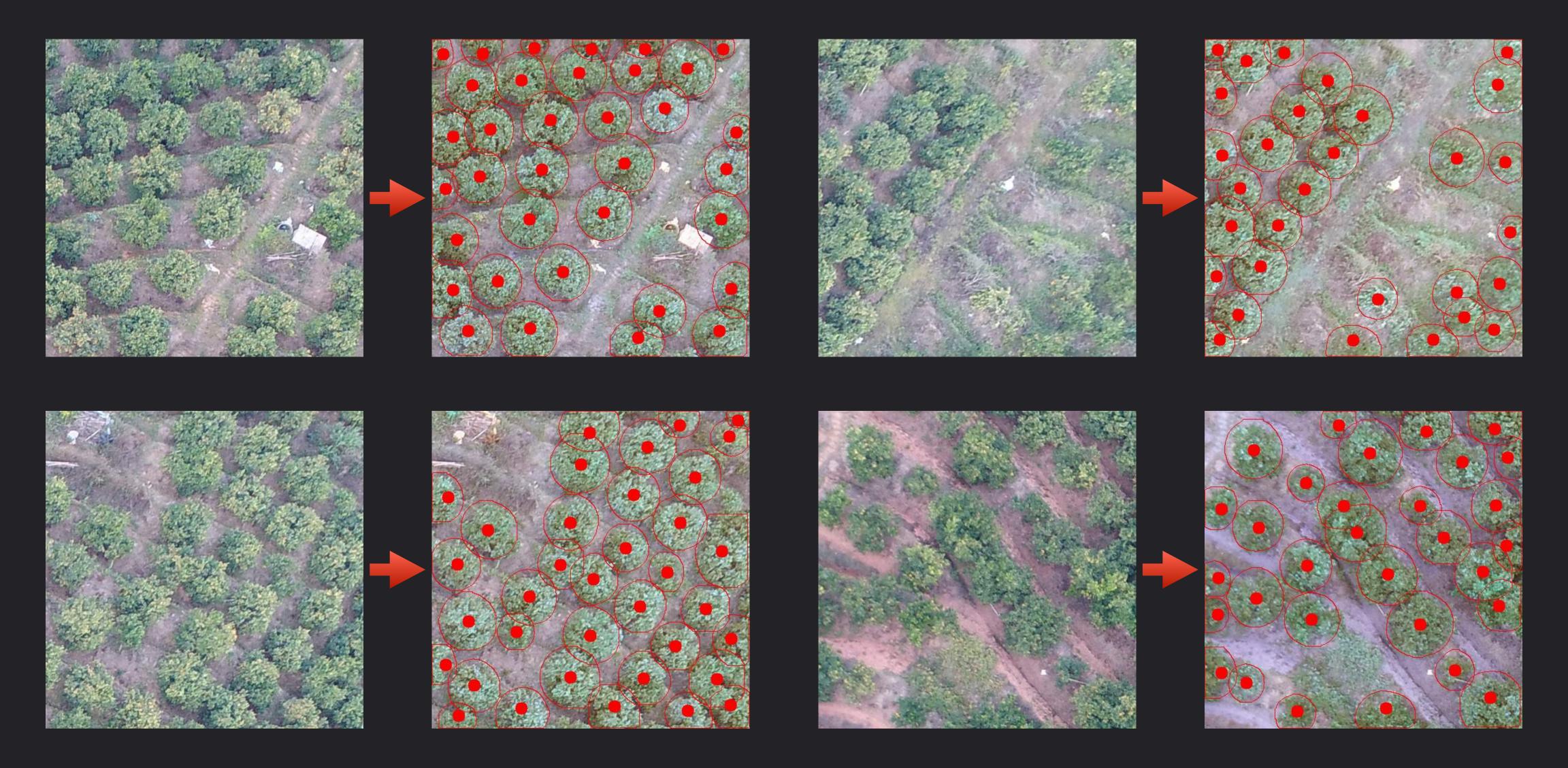
### Rice Weeds Detection

Deep Learning / CrowdNet



### Rice Weeds Detection

Deep Learning / CrowdNet

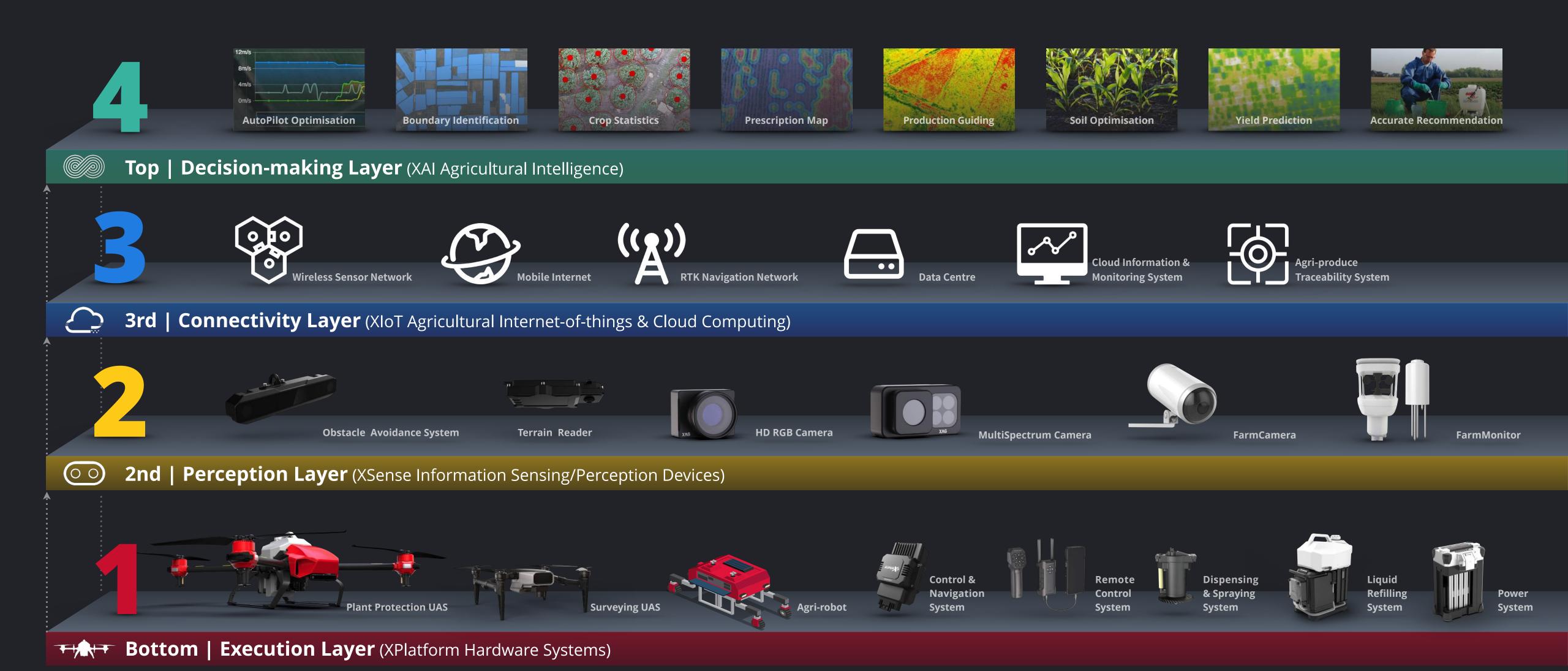


Fruit Tree Locating & Edge Recognition

Deep Learning / R-CNN



#### XAG SMART AGRICULTURE SOLUTIONS





### **Product Operating**

#### **Aftersales Service**

National-wide Service Centre Quick Response Service Team Full Coverage Product Care Third Party Liability Insurance



#### **Battery Rental**

Yearly Unlimited Battery Rental Plan Lower Threshold & Ease Anxiety Improve Efficiency & Profitability

### **Training & Education**



Training (UAS, Basic Aeronautic, Agricultural Knowledge, etc.)

Operator & Coach Licencing (XAGA Certificate, AOPA Class V, CASA RePL, etc.)

Knowledge Sharing (News, Wikis, Expertise, Experience, Live, Discussion, etc.)



University-enterprise Cooperation Robotic & UAS Related Curriculum Collaborative Laboratories Next-gen UAS & Agricultural Talents

# XAG ACADEMY



Course A (Theoretical, Online Study & Exam)



**Course B (Practical, Field Training & Assessment)** 



XAG ACADEMY Plant Protection/Surveying UAS Operator/Coach Certificate



**AOPA Class 'V' Drone Pilot Licence** 



**CASA Remote Pilot Licence (RePL)** 

# XAG ACADEMY



Theoretical Knowledge



Airframe Structure



**Pre-flight Check** 



Repair and Maintenance



Agricultural Knowledge



Safety Guidelines



**Standard Operation Procedure** 



Field Trial



#### Cultivating the **FUTURE**









**Comprehensive CropScience Research Facilities** 



**24/7 Production Monitoring** and Transparency



Advanced Chemical Compound Engineering Capabilities



Professional Farming Technical Support



World Leading Drone Application Technologies



**Sophisticated Consumer Big Data** 



**Top Rated Agricultural Scientists and Experts** 



**Complete Supply Chain Network** 

### Thank You!

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