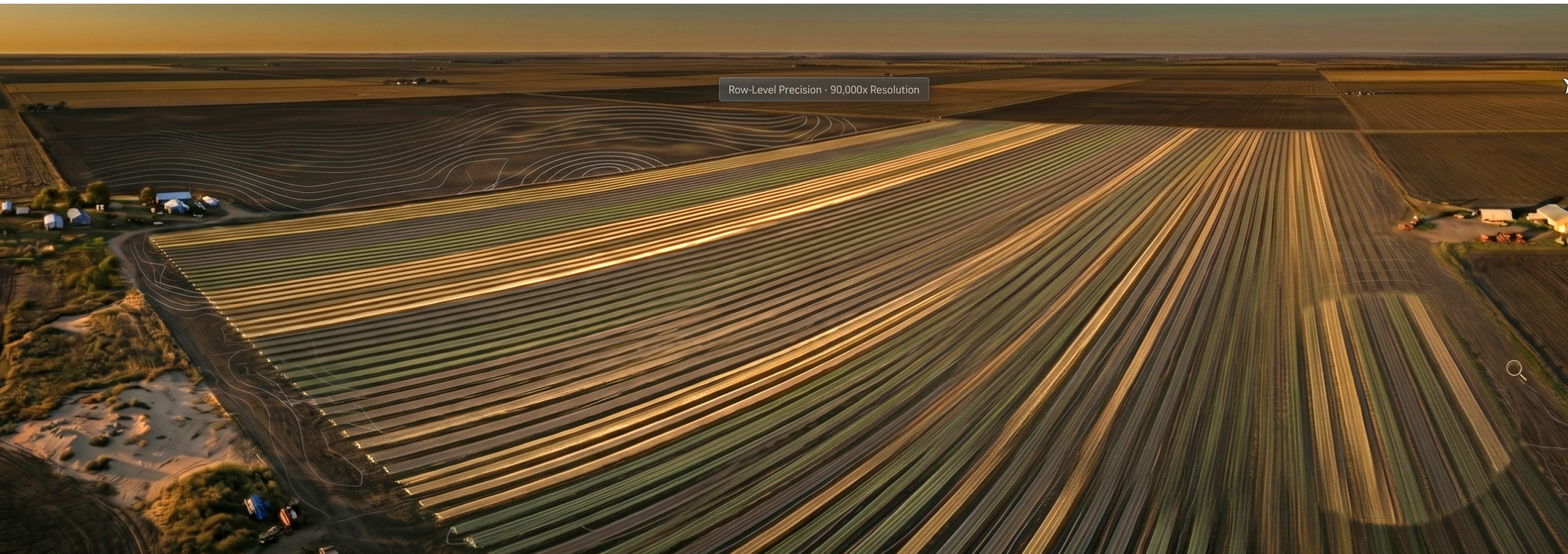


# Precision Agriculture Consulting at **90,000x Resolution**



## 90,000x

Increase in decision support resolution — from field-level to row-level precision analysis

## 99.2% Faster

Processing time reduction enabling consultants to deliver instant, data-driven investment strategies

## Row-Level

Geospatial ROI modeling using multi-layer soil composition and field topology data

### SERVICES

-  Data Engineering
-  AI Solutions
-  Platform Engineering

### TECHNOLOGY

-  Geospatial Analytics
-  Smart Data Architecture
-  Machine Learning Pipeline
-  Row-Level Precision

# Precision Agriculture Consulting at **90,000x Resolution**

## THE CHALLENGE

Pinion, a leading consulting firm serving the food and agriculture industry, helps growers evaluate investments that improve long-term field productivity. Traditional ROI models for drainage and land improvement projects lacked the resolution needed to guide these decisions with confidence.

OCI built a digital platform that analyzes agricultural data at an entirely new level of precision — combining geospatial modeling with multi-layer data analysis to evaluate soil composition and field topology at the row level rather than across entire fields.

Processing efficiency improved by 99.2% while decision support resolution increased by more than 90,000 times, giving consultants the precision to guide farmers toward smarter, data-driven investments.

## THE SHIFT

**BEFORE** Consultants relied on low-accuracy ROI models that couldn't provide the row-level detail needed for precise field drainage and yield investment decisions.

**AFTER** High-resolution decision support that empowers growers with precise ROI analyses for every row of their fields.

**BRIDGE** A digital platform utilizing multi-layer geospatial data analytics and AI to model topology and soil type at row-level precision.

## WHAT WE BUILT

**FEATURES** Geospatial ROI modeling at the row level using multi-layer data analytics across soil type and field topology.

**ADVANTAGES** Captures critical factors such as soil composition and topology to provide a 90,000x increase in decision resolution over traditional models.

**BENEFITS** Reduces processing time by 99.2%, allowing consultants to deliver instant, data-driven investment strategies that strengthen long-term land productivity.



Engineered to **evolve.**

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Let's Talk - [hello@objectcomputing.com](mailto:hello@objectcomputing.com)