



*An end-to-end farm
sensing, analytics &
apps for faster and
more informed
decision making.*



AGRISENSE

Towards a Sustainable Agriculture

ISYX

Keleno
Channel Partner



Sense



Analyze



Predict



Inform



Multispectral
Imaging



Ground Sensors



Ground Truth
By Scouting



Continuos Monitoring



CHALLENGES

- Low Productivity
- Low Farm Mechanization
- Seeds - Gap in Supply and Requirements
- Low Irrigation Status
- Credit biased towards short term loans
- Marginalization of land holdings
- Increase in cost of cultivation
- Increase in wages
- Instability in farm prices
- Agriculture is not the primary source of income
- Social stigma - Educated population in developing nations prefer non-agrarian jobs
- Agriculture not practiced as a specialized occupation with ICT interventions

150% COST OF CULTIVATION

Cost of cultivation increased by ~150% in last 10 years.

20% INPUT COST REDUCTION

20% reduction in input cost from precision farming

100% YIELD INCREASE

Increase in yield (2 MT/Ha to 6 MT/Ha)

20% RISK REDUCTION

Pest / Disease forecast reduced the risk exposure by ~20%

FEATURES

- Farm Management Software with best practices for every crop
- Local Person/Drone Scouting Interface for stress areas with Advanced Testing kit
- Sensor: weather updates \ sensor values with forecast
- Crop market prices and forecast
- Pest/Disease Image Recognition/Suggestion from Scout images through machine learning
- Farm Benchmarking and Farm Dashboard
- Target Management / Yield Assessment/Yield Forecast/Loss
- Market linkage for institutional buyers
- Market linkage for insurance
- A System that Learns. The more data AgriSense captures, the more it can tell you about how your environment reacts to certain conditions.
- We are committed to measuring quality data and putting it to practical use, on and off the farm.
- Every piece of information is securely stored: From climate conditions to irrigation and spray activities.

BENEFITS



FARM AS A FACTORY

Get the overall view of farm land\plantations in one dashboard.



INPUT RATIONALIZATION

Precise nutrient, water, pesticides, weedicides and reduction in labor.



EXPERT HAND HOLDING

Get weekly expert drone imagery and site scouting reports.



RISK MANAGEMENT/PREVENTION

Weather, Pest, Disease forecasting and alerting, Insurance against yield.



MARKET LINKAGE

Get institutional buyers. Sell crop futures, use crop yield forecast.



SENSING FOR AGRICULTURE RECORDS

Barometric Pressure

Wind Speed and Direction (kph)

Air Temperature

Rainfall (mm)

Relative Humidity

Photosynthetic active radiation

Chlorophyll

Crop Height

Leaf wetness

Stem Thickness

Micro Nutrients

Primary Nutrients

Conductivity

Soil Temperature (c)

Soil Moisture

Soil Type (Acidic/Alkaline)



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