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@AgSmarts

Overview

AgSmarts is a *Precision* Ag Technology company dedicated to helping producers increase yields while reducing operational costs & environmental impacts

- Founded by Industrial Controls Experts & Farmers
- Embedding predictive intelligence & automation into existing agriculture processes and equipment

Applications for AgSmarts' platform include:
- Irrigation Optimization
- Nutrient Management
- Pest & Disease Prevention

Problem

Agricultural production highly complex and inefficient yet growing rapidly across globe

- Wastes water and energy
- Contributes to pollution
- Costs producers time, money and yield loss

Size of Problem

- 500bil gallons of freshwater wasted
- $7bil wasted operational expenses
- $25bil losses from suboptimal yields
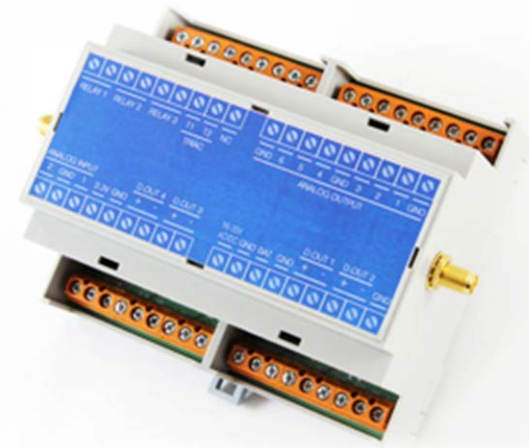
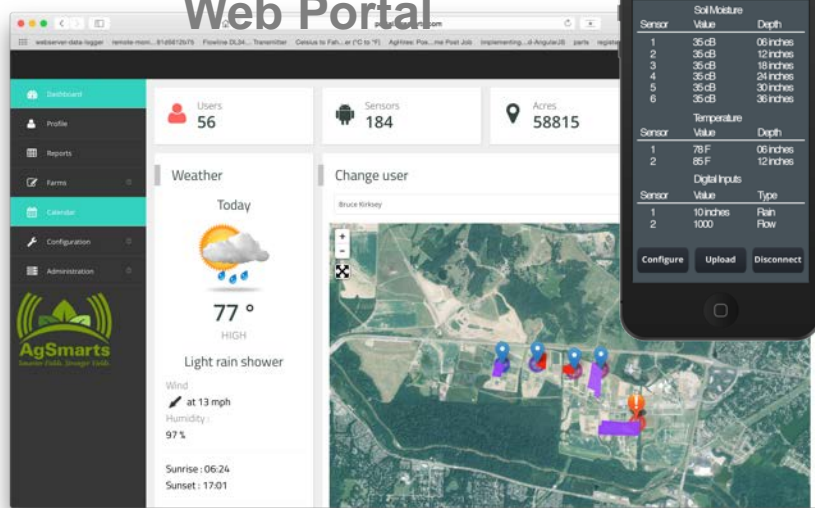**Agriculture's waste affects everyone!**

Solution

Agnostic and Flexible HW/SW Platform
Embedded Intelligence for Agricultural Production

Field Node Sensor (FNS) Stations

Mobile application
Web Portal

Intelligent Agriculture Controller

Predictive, Crop-specific Recommendations

Hardware

Rugged, reliable hardware for life in the "wild"

Flexible Telemetry Options

- **Bluetooth (BLE)**
- **Mesh radios**
- **GPRS/Cellular**
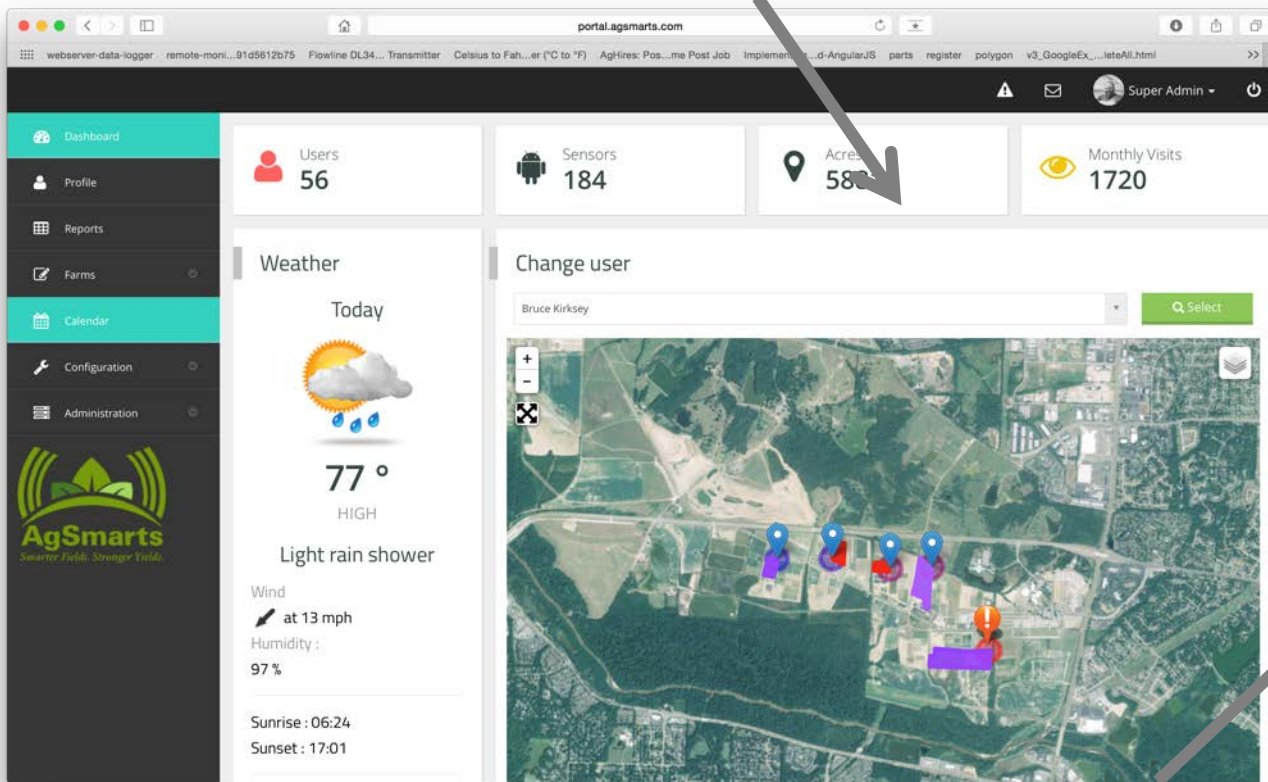- **Wifi (Controllers)**
- **Ethernet (Controllers)**

Configurable Sensing Inputs allows customer to choose exactly what they need

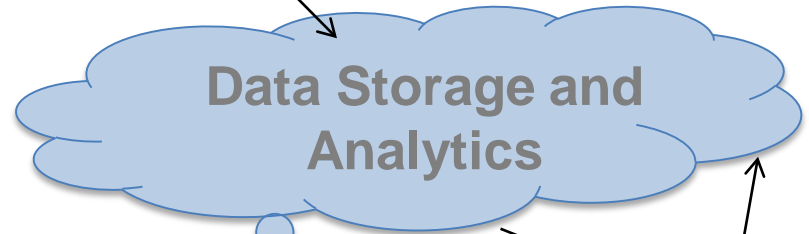# Software Layers

Web Portal for analytics, alerts and reporting

Android and iOS apps (BLE) for hardware configuration, data viewing, capture and transfer
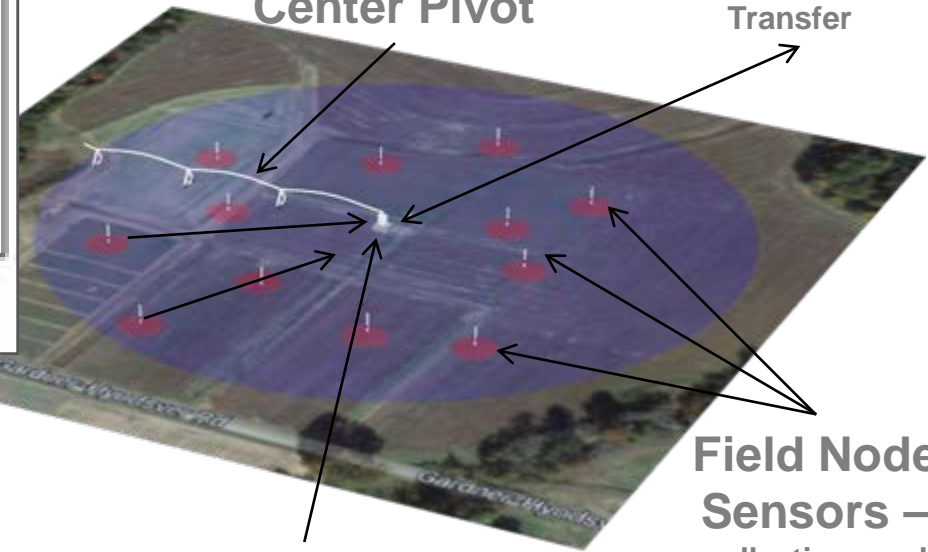
Solution in action

Corn Soil Moisture (ET) Curve

Cloud data leveraged across portfolio

Data Storage and Analytics

Center Pivot

Data Transfer
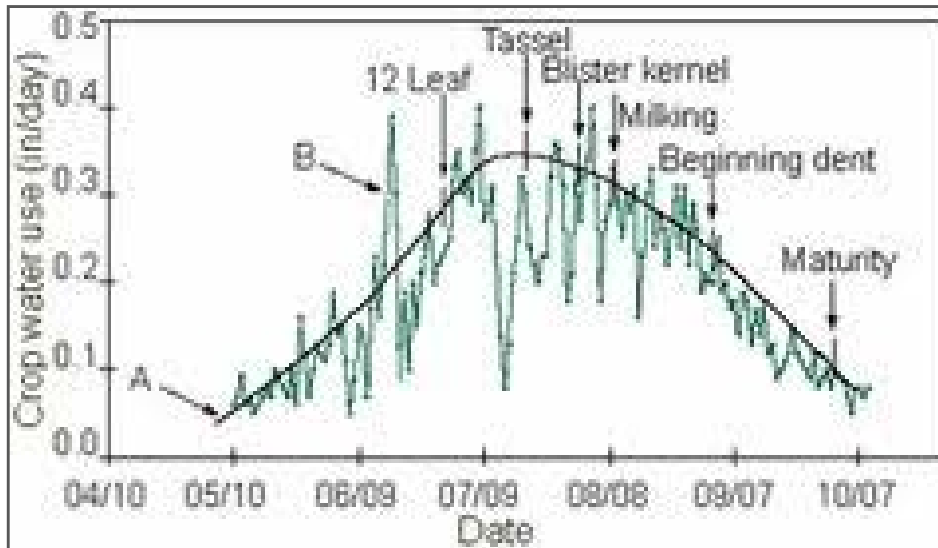
Site Characteristics
Soil type(s): Sandy Loam/Clay Loam
Irrigation Water Salinity : EC or TDS

Intelligent Irrigation Controller – interpreting data and delivering recommendations to producers

Field Node Sensors – collecting and reporting environmental data

Benefits

Intelligent Irrigation Automation:

- Optimizes crop yield/revenue potential
- Reduces irrigation related operational costs
- Conserves resources – water, energy, inputs
- Reduces negative effects on environment
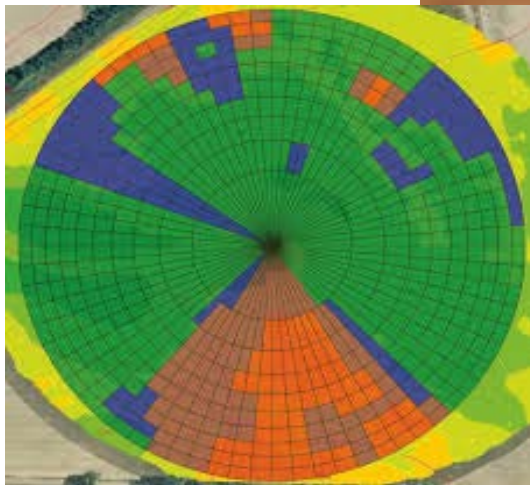
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