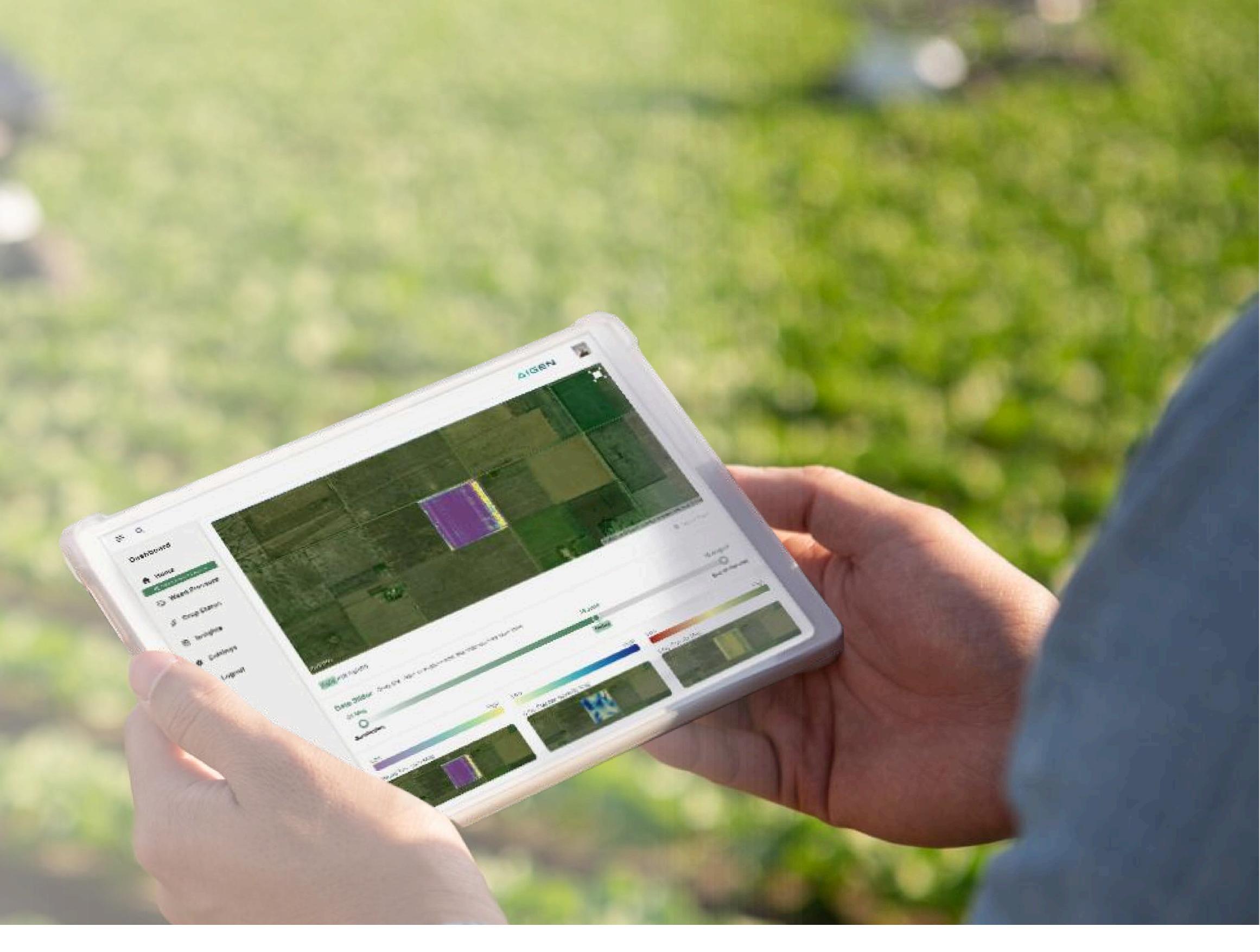
Intellifield

An intuitive dashboard that transforms field data collected by Aigen robots into clear, actionable insights for growers, focusing on weed pressure, crop health, and informed decision-making.



Problem

Modern agriculture faces a critical gap between data collection and data utilization. Aigen's autonomous robots effectively collect vast amounts of field data through RTK GPS, computer vision, and environmental sensors, but currently lack a unified platform to present this information to growers. There is a clear need for a system that can transform Aigen's rich data into accessible insights that support growers' decision-making processes.

Data Utilization Gap

Robots collect vast field data, but growers lack a way to interpret it.



Decision Challenge

No unified platform exists to provide clear and actionable insights.



Timely Insights

Growers lack real-time insights for timely action.

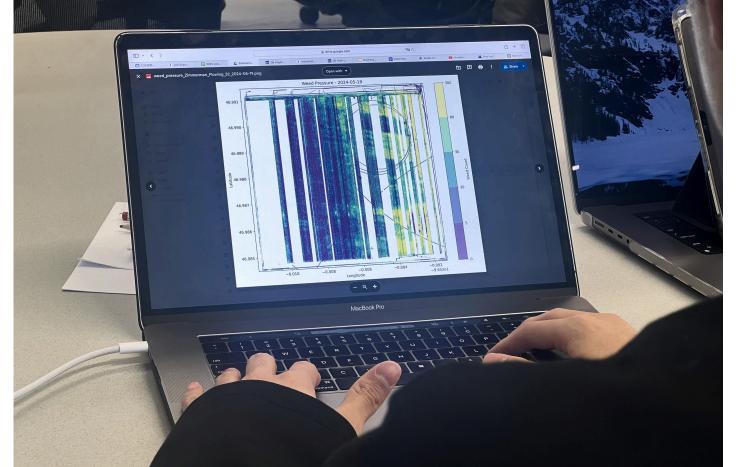
Process/Approach

Research



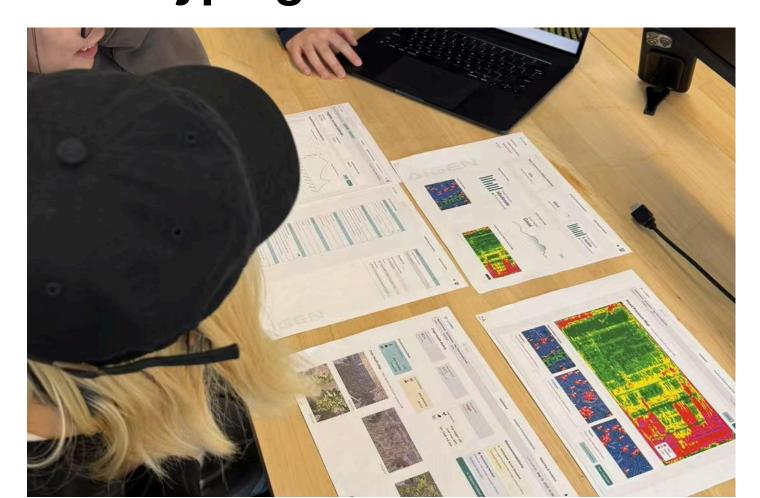
Conducted stakeholder interviews and field visits to understand grower needs.

Data Analysis



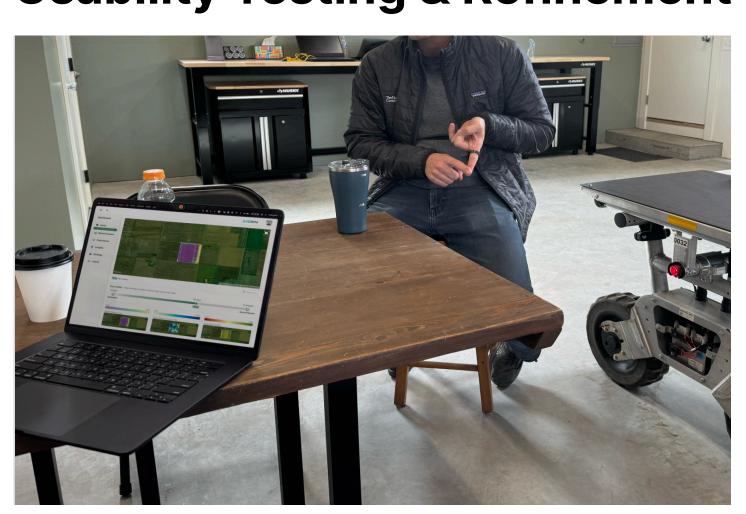
Evaluated Aigen's robot data capabilities for insight generation.

Prototyping



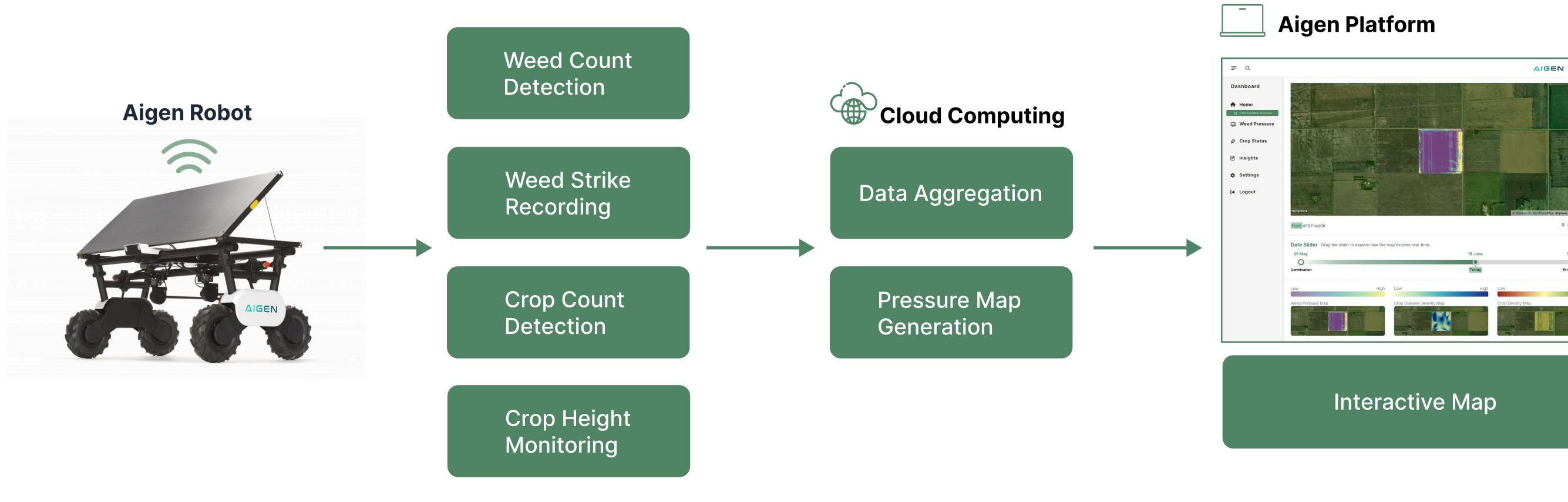
Developed iterative dashboard prototypes based on research findings.

Usability Testing & Refinement



Completed multiple rounds with growers and experts to ensure clarity, accuracy, and actionable insights.

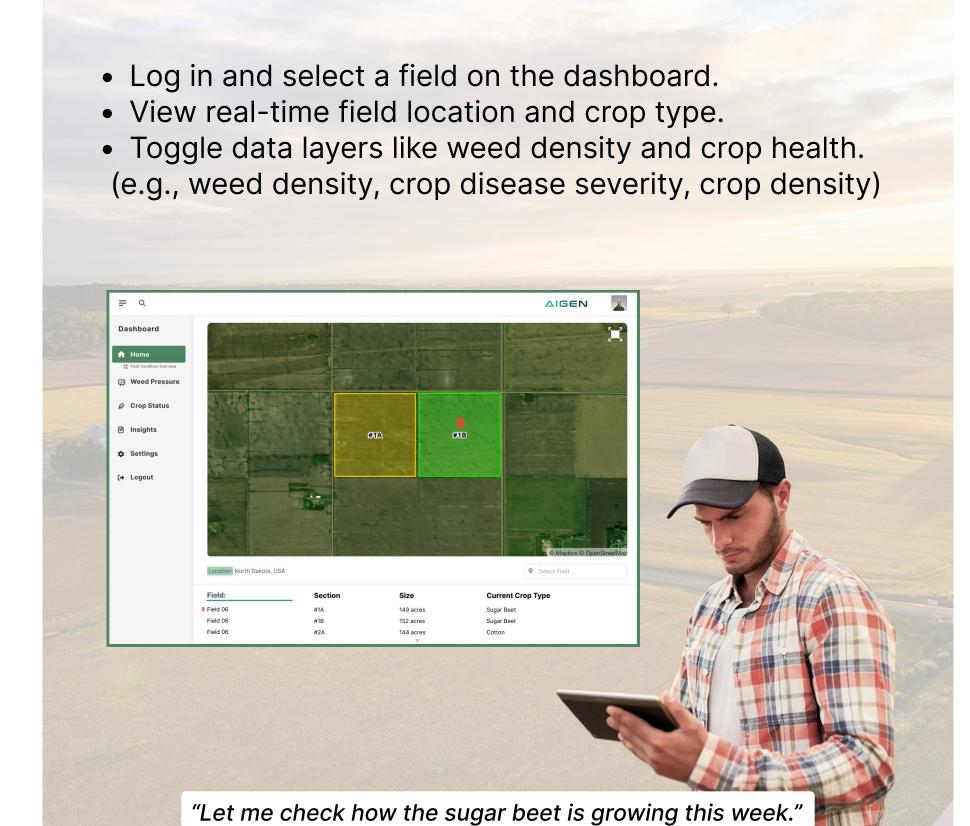
Hardware & Software Diagrams



User Scenario

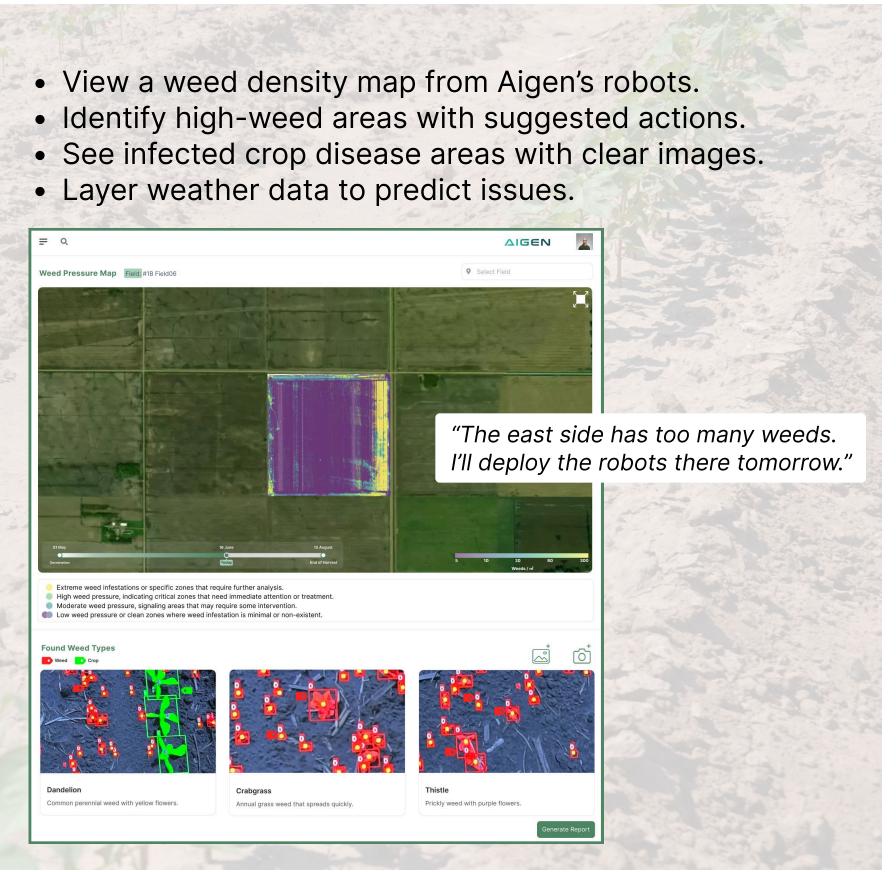
The Growers Insight Platform 1. Check-in to a Field Transform complex field data into an accessible

Select a field and access real-time data by clicking on the map.



2. Analyze Weed & Crop Data

Access real-time field data to plan actions for weeding and crop analysis.



3. Make Data-driven Decision

Visualized Data

Optimize farming strategies with historic and real-time data.



Key Features:

Solution

Interactive weed pressure mapping

dashboard for agricultural decision-making.

- Crop health monitoring dashboard
- Historical trend analysis
- Customizable field reporting
- Environmental data correlation

Data Collected:

- Weed pressure changes over time
- Crop development stages
- Field performance metrics
- Environmental conditions Robot operational coverage





