

Precision Agriculture Data Collection Workflow | Farm Management System



▷ **Start**

Start of the Workflow/Process.

 **1. Initiate Field Scouting Task**

Creates a task for the agronomist to visit and document the farm field.

 **2. Retrieve Field Location Data**

Gets necessary geographical coordinates and field boundaries from the Farm Location Data Model.

 **3. Log New Scouting Observation**

Creates a new data entry recording findings (e.g., pest presence, nutrient deficiency) for the specific field.

 **4. Update Pest Severity Record**

Updates the severity level of identified pests or diseases in the existing record.

 **5. Calculate Area Status Summary**

Aggregates multiple scouting entries to determine the overall percentage of stressed or infested acreage.

6. Determine Treatment Recommendation Score

Calculates a priority score based on the combination of pest severity, crop stage, and location data.

7. Assign Follow-up Action Task

Automatically creates a follow-up task for spraying or soil testing based on calculated findings.

8. Alert Operations Manager of Issues

Sends an email summary report to the manager when critical issues (high pest count) are detected.

9. Notify Technician of Task Assignment

Sends an SMS notification to the assigned field technician that a new scouting task is ready.

10. Generate Scouting Report Summary

Compiles all recorded data points (location, date, observations) into a comprehensive, shareable report.

End

Start of the Workflow/Process.