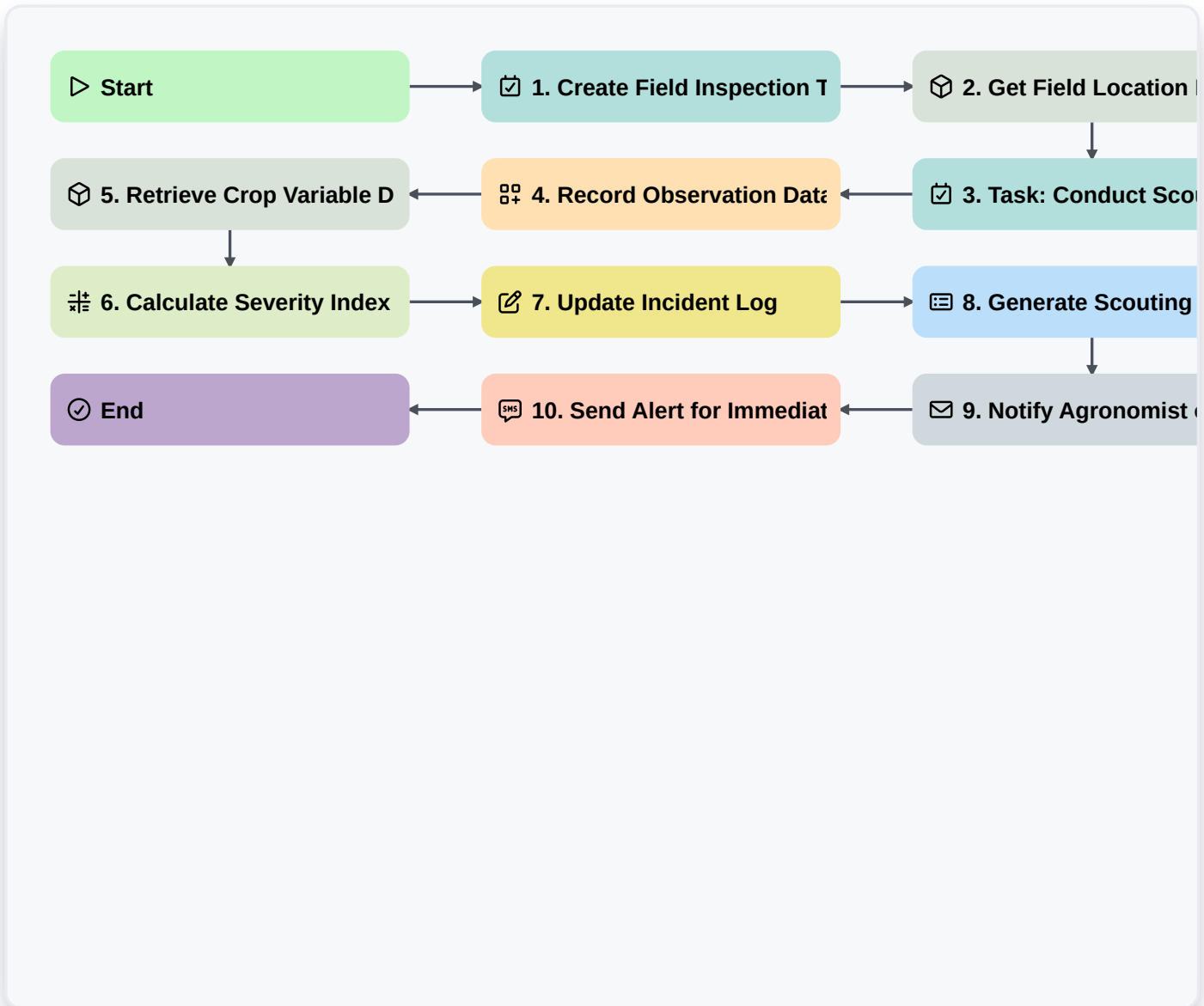


Smart Farming: Field Data Collection & Analysis Workflow For Agriculture



▷ **Start**

Start of the Workflow/Process.

 **1. Create Field Inspection Task**

Task to assign a data collection visit to a farm scout or technician.

 **2. Get Field Location Data**

Retrieve specific geo-coordinates and farm zone details for the current inspection.

 **3. Task: Conduct Scouting Visit**

Assign a time-bound task to the designated field expert.

 **4. Record Observation Data**

Create a new record for observed symptoms, counts, or measurements at the location.

 **5. Retrieve Crop Variable Data**

Fetch baseline data (e.g., target nutrient levels, crop type) associated with the surveyed field.

6. Calculate Severity Index

Execute a formula to determine overall pest/disease severity based on collected data points.

7. Update Incident Log

Modify the initial observation entry with calculated severity or recommended treatment steps.

8. Generate Scouting Report

Compile all gathered data points, calculations, and findings into a standardized, shareable report.

9. Notify Agronomist of Findings

Automatically send the generated report and urgent alerts (e.g., high infestation) to the supervising agronomist.

10. Send Alert for Immediate Action

Send an SMS alert to field crew if critical conditions (e.g., immediate spraying required) are identified.

End

Start of the Workflow/Process.