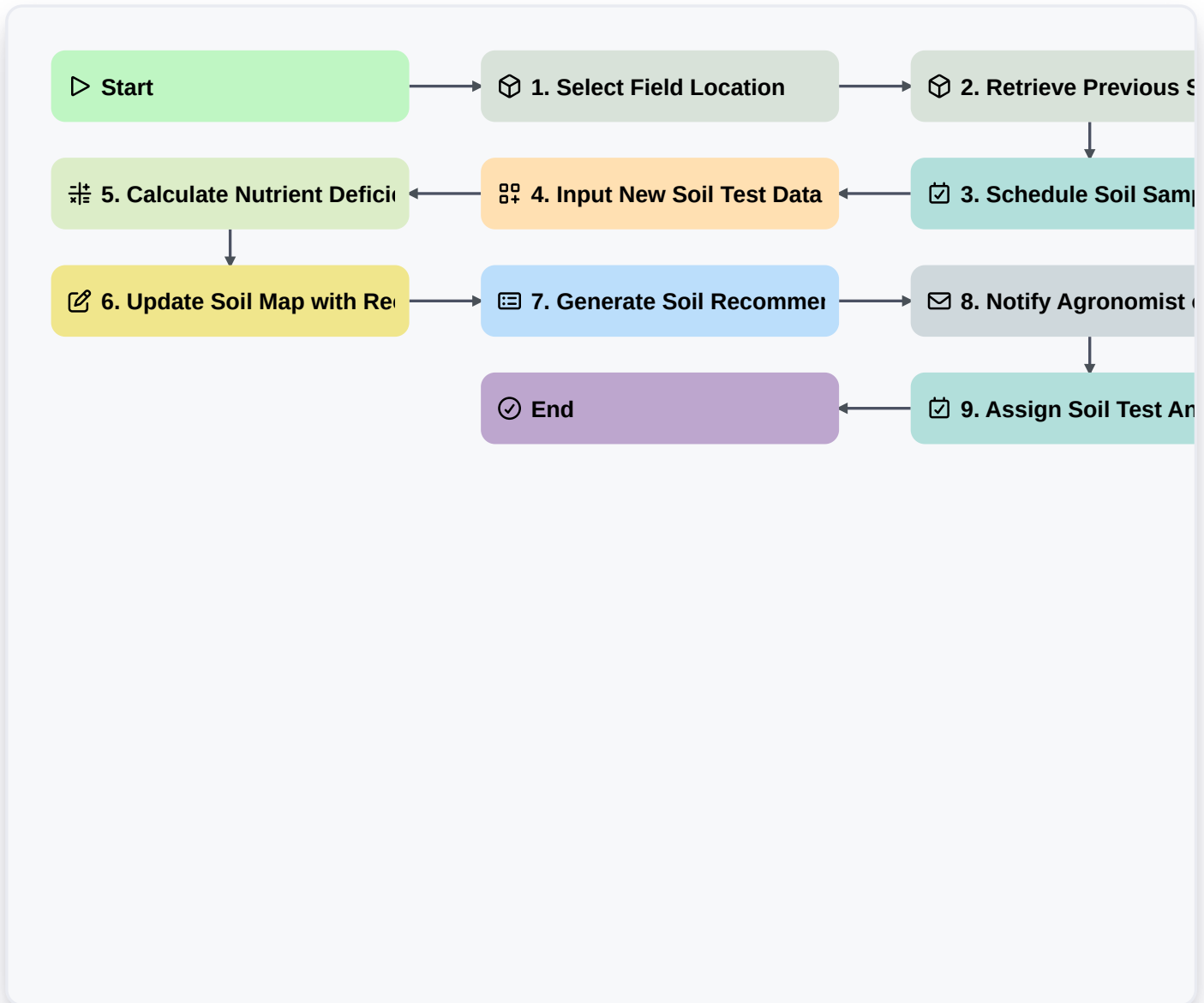


Farm Field Mapping & Soil Analysis Workflow For Precision Agriculture



▷ **Start**

Start of the Workflow/Process.

 **1. Select Field Location**

Get geographical coordinates and soil data for the target field.

 **2. Retrieve Previous Soil Test Results**

Fetch historical soil test data (pH, NPK levels, organic matter) for comparison.

 **3. Schedule Soil Sampling**

Create a task for technician to collect soil samples at key points in the field.

 **4. Input New Soil Test Data**

User inputs raw soil test results (pH, conductivity, nutrient levels).

 **5. Calculate Nutrient Deficiency Score**

Execute formula based on current data vs. optimal range to identify nutrient gaps.

 **6. Update Soil Map with Recommendations**

Modify the field data model with actionable nutrient application rates.

 **7. Generate Soil Recommendation Report**

Compile comprehensive report summarizing findings, recommended amendments, and action items.

 **8. Notify Agronomist of Soil Results**

Automatically email the agronomist with the newly generated soil test data and recommendations.

 **9. Assign Soil Test Analysis Task**

Create a follow-up task for lab processing and result entry.

 **End**

Start of the Workflow/Process.