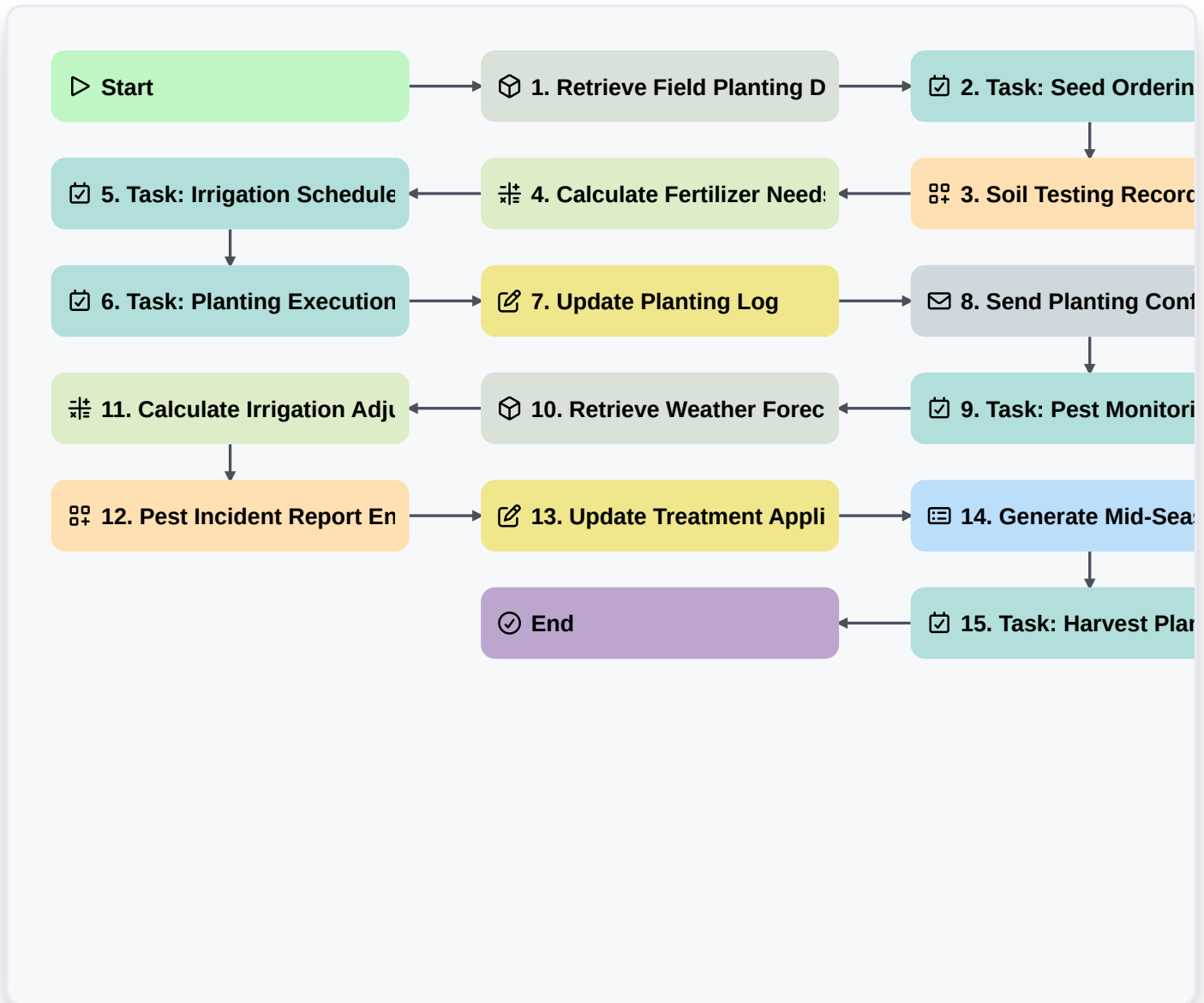


End-To-End Crop Management Workflow For Sustainable Farming



▷ Start

Start of the Workflow/Process.

📦 1. Retrieve Field Planting Data

Get initial soil type, acreage, and target crop details for the current season.

✅ 2. Task: Seed Ordering & Preparation

Create task for procurement team to order seeds and necessary supplies.

📄 3. Soil Testing Record Entry

Record initial soil test results and nutrient levels.

🔢 4. Calculate Fertilizer Needs

Calculate required fertilizer dosage based on soil test results and target yield.

✅ 5. Task: Irrigation Schedule Planning

Create task for agronomist to design the initial watering schedule.

☑ **6. Task: Planting Execution Checklist**

Generate a checklist for planting day operations.

✍ **7. Update Planting Log**

Record actual planting date, depth, and seed quantity planted.

✉ **8. Send Planting Confirmation Alert**

Email confirmation to farm manager upon successful planting log entry.

☑ **9. Task: Pest Monitoring Schedule**

Schedule recurring tasks for scouting and pest identification throughout the growing cycle.

📦 **10. Retrieve Weather Forecast Data**

Pull current and forecasted weather data for the growing area.

⚙ **11. Calculate Irrigation Adjustment Factor**

Adjust watering schedule based on real-time weather data (evapotranspiration calculation).

📋 **12. Pest Incident Report Entry**

Log any observed pests, diseases, or nutrient deficiencies.

✍ **13. Update Treatment Application Record**

Log details (product, rate, date) of any corrective treatments applied.

📄 **14. Generate Mid-Season Health Report**

Compile a comprehensive report summarizing growth metrics, inputs, and challenges.

☑ **15. Task: Harvest Planning & Yield Forecasting**

Create final tasks for harvest logistics and initial yield projection.

🏁 **End**

Start of the Workflow/Process.