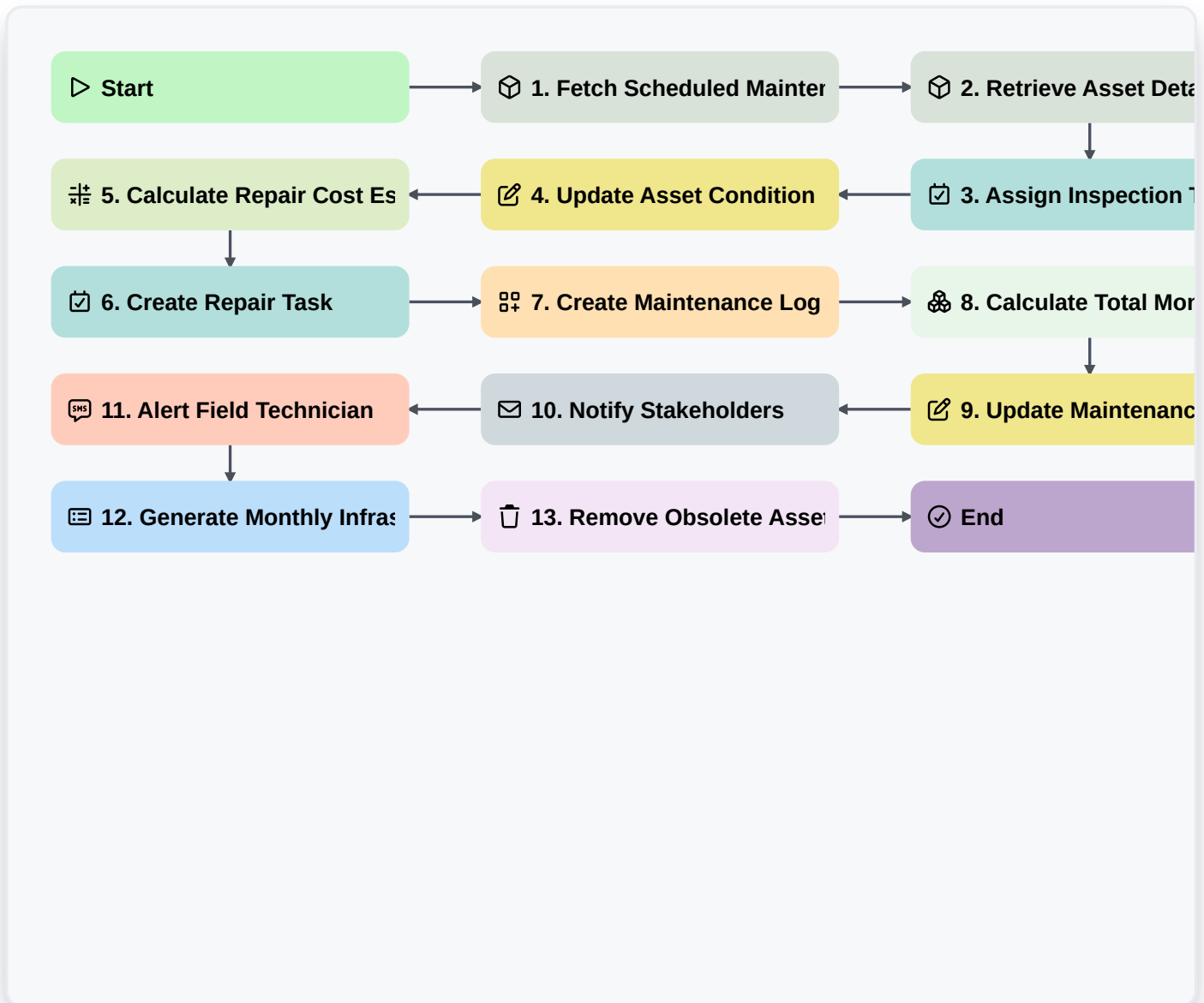


Bus Stop Infrastructure Maintenance Workflow



▷ Start

Start of the Workflow/Process.

📦 1. Fetch Scheduled Maintenance List

Retrieve all upcoming bus stop maintenance tasks from the Maintenance Schedule data model.

📦 2. Retrieve Asset Details

Get specific details (location, type, last service date) for the selected bus stop from the Infrastructure Data Model.

📋 3. Assign Inspection Task

Create a task for a field technician to perform a structural and cleanliness inspection.

✍️ 4. Update Asset Condition

Update the 'Last Inspection Status' and 'Condition Score' in the Bus Stop Data Model based on inspection results.

📊 5. Calculate Repair Cost Estimate

Calculate the total estimated cost by summing labor rates and material costs identified during inspection.

📋 6. Create Repair Task

If damage is detected, create a high-priority task for the repair crew.



7. Create Maintenance Log Entry

Create a new entry in the Maintenance History log to document the completed work and findings.

8. Calculate Total Monthly Maintenance Spend

Sum the costs of all completed maintenance entries for the current month to track budget usage.

9. Update Maintenance Budget

Update the Departmental Budget entry to reflect the newly incurred maintenance costs.

10. Notify Stakeholders

Send an email to the Transit Authority manager regarding completed structural repairs or urgent safety issues.

11. Alert Field Technician

Send an SMS to the technician's mobile number when a new urgent repair task is assigned.

12. Generate Monthly Infrastructure Health Report

Generate a summary report showing the percentage of bus stops inspected vs. those requiring repair.

13. Remove Obsolete Asset Records

Delete entries from the Infrastructure Data Model for bus stops that have been permanently decommissioned.

End

End of the Workflow/Process.