

# Scheduling and resource allocation

Automatically creates optimized project schedules and allocates resources when new construction projects are initiated. Reduces scheduling conflicts and ensures efficient resource utilization across all active projects.

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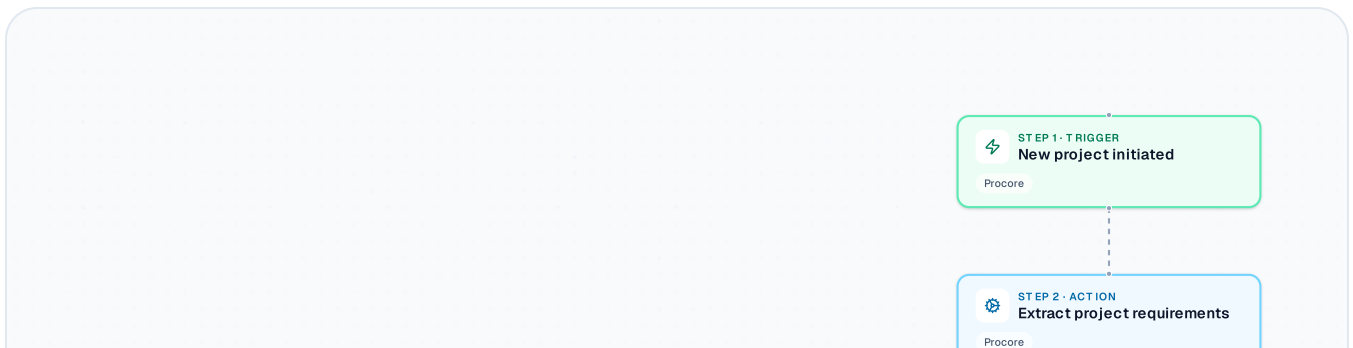


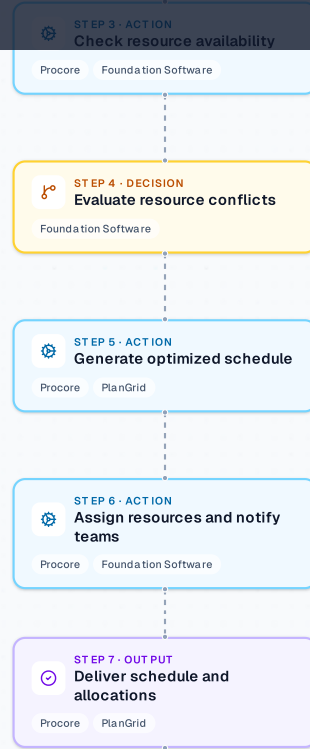
## WORKFLOW TRIGGER

New construction project is created in project management system

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

## New project initiated

A new construction project is created in Procore with basic project details, timeline, and scope. This triggers the automated scheduling and resource allocation workflow.

Procore

2

 ACTION

## Extract project requirements

System pulls project specifications, estimated duration, required trades, and material needs from the project data. Identifies critical path activities and dependencies.

Procore

3

 ACTION

## Check resource availability

Queries current resource allocation across all active projects to determine availability of crews, equipment, and subcontractors. Identifies potential conflicts or shortages.

Procore

Foundation Software

4

 DECISION

## Evaluate resource conflicts

Determines if sufficient resources are available for optimal scheduling. If conflicts exist, workflow branches to either adjust timeline or reallocate resources from other projects.

5

 ACTION

### Generate optimized schedule

Creates detailed project timeline with task sequences, resource assignments, and milestone dates. Integrates with existing project schedules to minimize conflicts.

Procore

PlanGrid

6

 ACTION

### Assign resources and notify teams

Allocates specific crews, equipment, and subcontractors to scheduled tasks. Sends notifications to project managers, foremen, and subcontractors about their assignments.

Procore

Foundation Software

7

 OUT PUT

### Deliver schedule and allocations

Publishes finalized project schedule with resource assignments to all stakeholders. Updates project dashboards and mobile apps for field access.

Procore

PlanGrid



## Outputs

- Optimized project schedule with critical path
- Resource allocation matrix with crew assignments
- Automated notifications to all project stakeholders



## Key Metrics

- Schedule adherence percentage
- Resource utilization rate
- Project delivery time variance



## Tools & Integrations

- Procore
- PlanGrid
- Foundation Software

## AI Business OS

## AI Business OS

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