

# Project scheduling and crew dispatch

Automates project scheduling and crew dispatch by analyzing job requirements, checking crew availability, and optimizing assignments to maximize efficiency and minimize travel time between job sites.

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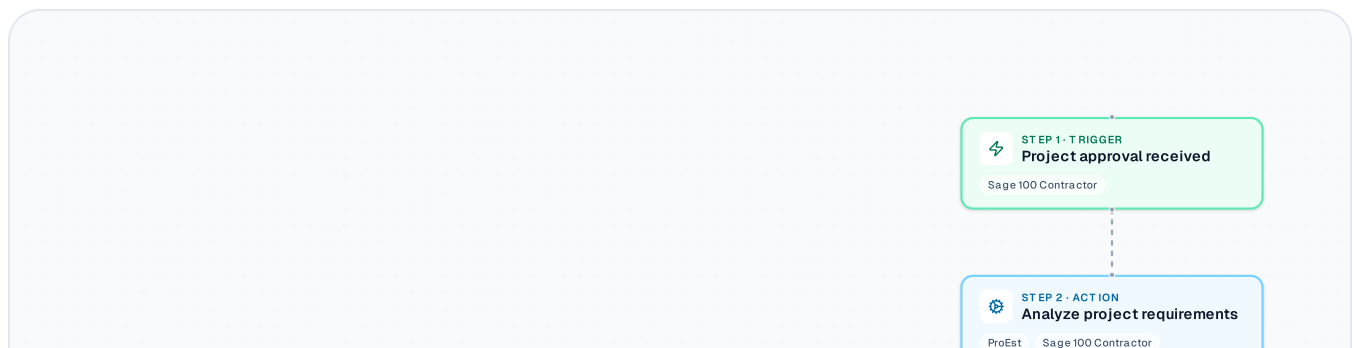


## WORKFLOW TRIGGER

New concrete project is approved and entered into the 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

## Project approval received

A new concrete project is approved and project details including scope, timeline, and location are captured in the system. This triggers the automated scheduling and crew dispatch workflow.

Sage 100 Contractor

2

 ACTION

## Analyze project requirements

System extracts job specifications, required crew size, equipment needs, and estimated duration from project data. Material requirements and special skills needed are identified for proper crew assignment.

ProEst

Sage 100 Contractor

3

 ACTION

## Check crew availability

System queries current crew schedules, certifications, and locations to identify available teams. Equipment availability and maintenance schedules are also verified for the required timeframe.

Foundation Software

4

 DECISION

## Evaluate crew capacity

System determines if existing crews can handle the new project within required timeline. If insufficient capacity exists, the workflow branches to either reschedule or request additional resources.

5

 ACTION

### Optimize crew assignments

AI algorithms assign optimal crew based on skills, location proximity, and current workload. Travel time and fuel costs are minimized while ensuring project completion deadlines are met.

Foundation Software

Sage 100 Contractor

6

 ACTION

### Generate dispatch notifications

Automated messages are sent to assigned crew members with job details, location, start time, and required equipment. Project managers receive confirmation and updated schedules.

Foundation Software

Sage 100 Contractor

7

 OUTPUT

### Finalize scheduling records

Updated project schedule with crew assignments is saved to the system and integrated with accounting for cost tracking. Real-time dashboard updates show current crew utilization and upcoming jobs.

Sage 100 Contractor

QuickBooks Contractor Edition



## Outputs

- Optimized crew schedule with assigned projects
- Automated crew dispatch notifications
- Updated project timeline and resource allocation



## Key Metrics

- Crew utilization rate
- Average travel time between jobs
- Schedule adherence percentage



## Tools & Integrations

- Sage 100 Contractor
- ProEst
- Foundation Software
- QuickBooks Contractor Edition

## AI Business OS

## AI Business OS

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