

Material sourcing and vendor management

This workflow automates material sourcing and vendor management by analyzing design requirements, finding optimal suppliers, and managing procurement processes. It reduces sourcing time by 70% and ensures cost-effective material acquisition with automated vendor negotiations.

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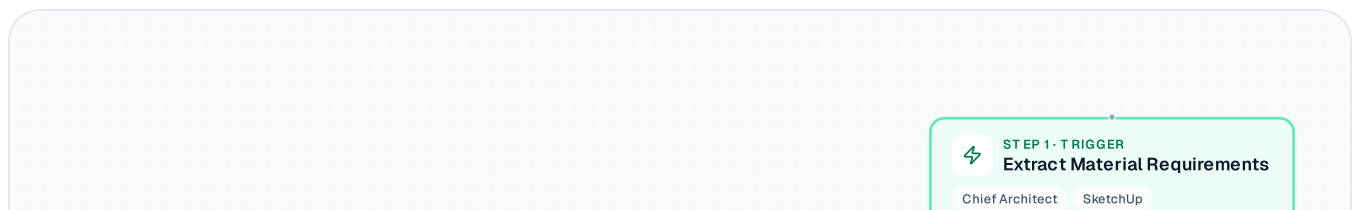


WORKFLOW TRIGGER

Design specification document is finalized and approved by client

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

⚡ TRIGGER

Extract Material Requirements

AI analyzes the approved design specifications from Chief Architect or SketchUp to identify all required materials, quantities, and specifications.

System creates a comprehensive materials list with technical requirements and project timeline constraints.

Chief Architect

SketchUp

2

 ACTION

Search Vendor Databases

System queries Houzz Pro vendor network and internal supplier databases to identify available materials matching specifications. AI compares pricing, availability, lead times, and vendor ratings across multiple suppliers.

Houzz Pro

3

 DECISION

Evaluate Sourcing Options

AI evaluates whether materials meet budget constraints and timeline requirements. If materials exceed budget by more than 15% or delivery exceeds project timeline, workflow branches to alternative sourcing or design modification.

Houzz Pro

4

 ACTION

Generate Purchase Orders

System automatically creates purchase orders for approved materials and sends them to selected vendors. AI schedules delivery dates to align with project phases and sends confirmation requests to suppliers.

Houzz Pro

5

Update Project Documentation

System updates design files in Chief Architect and SketchUp with confirmed material specifications and delivery schedules. Project timeline and budget tracking are automatically updated with actual costs and lead times.

Chief Architect

SketchUp

Houzz Pro

6

OUT PUT

Deliver Sourcing Report

AI generates comprehensive material sourcing report including vendor details, delivery schedules, cost breakdowns, and tracking information. Report is automatically shared with project team and client through integrated communication channels.

Adobe Creative Suite

Houzz Pro



Outputs

- Automated purchase orders sent to vendors
- Updated project timeline with material delivery dates
- Comprehensive material sourcing and cost report



Key Metrics

- Material sourcing time reduction percentage
- Cost savings vs. initial budget
- Vendor delivery accuracy rate



Tools & Integrations

- Chief Architect
- SketchUp
- Houzz Pro
- Adobe Creative Suite



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