

Space planning and room layout optimization

Automatically generates optimized room layouts and space plans based on client requirements and room measurements, delivering multiple design alternatives with furniture placement and traffic flow analysis.

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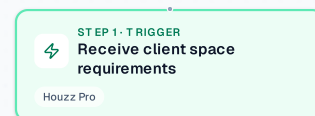


WORKFLOW TRIGGER

Client uploads room measurements and design requirements through project portal

Visual Flow

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



STEP 2 · ACTION
Generate base floor plan
AutoCAD SketchUp

STEP 3 · ACTION
Analyze space utilization requirements
Chief Architect Revit

STEP 4 · DECISION
Evaluate layout complexity
Chief Architect

STEP 5 · ACTION
Generate multiple layout options
SketchUp Chief Architect Revit

STEP 6 · ACTION
Create presentation materials
Adobe Creative Suite SketchUp

STEP 7 · OUTPUT
Deliver optimized space plans
Houzz Pro Adobe Creative Suite



Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Receive client space requirements

Client submits room dimensions, functional requirements, style preferences, and budget constraints through the project management system. System validates and processes the input data for design generation.

2

 ACTION

Generate base floor plan

Create accurate 2D and 3D floor plans using uploaded measurements and architectural constraints. System automatically identifies structural elements like windows, doors, and fixed features.

AutoCAD

SketchUp

3

 ACTION

Analyze space utilization requirements

AI processes functional requirements to determine optimal furniture placement, traffic flow patterns, and zoning needs. System calculates space efficiency ratios and identifies potential layout challenges.

Chief Architect

Revit

4

 DECISION

Evaluate layout complexity

System determines if the space requires standard furniture arrangement or complex custom solutions based on room shape, size, and functional requirements.

Chief Architect

5

 ACTION

Generate multiple layout options

Create 3-5 optimized room layouts with furniture placement, lighting positions, and traffic flow paths. Each option balances functionality, aesthetics, and client preferences differently.

SketchUp

Chief Architect

Revit

6

 ACTION

Create presentation materials

Generate professional visual presentations including 3D renderings, floor plans, furniture lists, and space utilization reports. System applies client's preferred design style and branding.

Adobe Creative Suite

SketchUp

7

 OUTPUT

Deliver optimized space plans

Automatically send completed layout options with detailed specifications, furniture recommendations, and implementation timeline to client through project portal.

Houzz Pro

Adobe Creative Suite



Outputs

- 3-5 optimized room layout options with 3D visualizations

- Detailed furniture placement and specification sheets

AI Business OS



Key Metrics

- Space utilization efficiency percentage
- Client layout approval rate
- Time from brief to delivery



Tools & Integrations

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

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