



CATHA CONSTRUCTION AI FIELD GUIDE 10

Construction AI Adoption Roadmap

Move from useful assistance to governed operations

For general contractors, specialty trades and construction-focused operators

Use this tool on one real construction workflow. The objective is not to add AI everywhere; it is to find where AI can improve a measurable outcome while preserving qualified human judgment and clear accountability.

Stage 1 - Assist

- Research, summarize, draft and retrieve with human ownership.

Stage 2 - Standardize

- Approved tools, templates, data rules and role-based training.

Stage 3 - Integrate

- Bounded workflow automation with logging and explicit permissions.

Stage 4 - Govern

- Evaluations, incident response, authority levels, monitoring and measurable ROI.

Stage 5 - Controlled agentic operations

- Multi-step execution only where evidence, permissions, rollback and human accountability support it.

Construction decision rule

Use the least expensive, least privileged and least complex AI approach that can reliably improve the construction outcome. Increase intelligence, access or autonomy only when measured evidence shows the simpler approach is insufficient.