



# AI in Construction



The biggest opportunity in construction isn't replacing skilled workers. It's improving project coordination, reducing delays, and giving teams faster access to the information needed to manage complex projects. AI helps construction teams analyse project data, streamline reporting, improve safety monitoring, and optimise project schedules.

## Common Challenges

- ▶ **Site Reporting**  
Daily site reports and project updates take time to compile.
- ▶ **Project Documentation**  
Drawings, specifications and RFIs are spread across multiple systems.
- ▶ **Safety Compliance**  
Monitoring safety procedures and inspections requires manual reporting.
- ▶ **Project Scheduling**  
Coordinating contractors, materials and timelines is complex.
- ▶ **Cost Forecasting**  
Construction projects frequently exceed planned budgets.
- ▶ **Project Communication**  
Important updates can be missed across contractors and teams.

## AI Assistants

**Productivity inside tools like Outlook, Teams, Word and Excel.**

- ▶ Site report summaries — faster daily reporting
- ▶ Project meeting summaries — clearer actions and updates
- ▶ Tender document drafting — quicker preparation
- ▶ Procurement comparison summaries — faster supplier decisions

**Outcome**  
Reduced reporting time and improved project communication.

## Automation

**Removes repetitive construction reporting and documentation tasks.**

- ▶ Site reporting automation — faster progress updates
- ▶ Safety documentation processing — improved compliance tracking
- ▶ Procurement comparison automation — quicker supplier decisions
- ▶ Project status reporting — automated stakeholder updates

**Outcome**  
Reduced administrative workload and improved project oversight.

## AI Agents

**AI agents analyse project information and support construction teams.**

- ▶ Project documentation agent — instant access to drawings and specifications
- ▶ Safety monitoring agent — identify potential site risks
- ▶ Project scheduling agent — detect delays and optimise timelines
- ▶ Cost forecasting agent — flag budget variances early

**Outcome**  
Improved project visibility, reduced delays, and enhanced safety monitoring.

## Real World Example



**Skanska – AI Construction Site Analytics** — Skanska uses AI and machine learning to analyse construction site photos and videos, helping identify safety risks and improve project monitoring across its operations.

### Results include:

- ▶ Faster identification of job-site safety risks
- ▶ Reduced manual review of construction site images
- ▶ Improved compliance monitoring across construction projects.

A Simple ROI Example

- 1 Number of Employees**  
30 employees across the business
- 2 Time Spent on Repetitive Tasks**  
Significant time lost weekly to manual processes and admin
- 3 Time Recovered With AI**  
AI assistants, automation and agents typically recover 10–12 hours per employee per week

EXAMPLE BUSINESS IMPACT

- ▶ **Time Saved:** 10 hours per employee per week
- ▶ **Organisation:** 30 × 10 hrs = 300 hours/week
- ▶ **Annual Hours:** 300 × 52 = 15,600 hours recovered
- ▶ **Value:** At £25/hr = **£390,000** capacity unlocked

15,600

Hours of Productivity Every Year

£390k

Equivalent Operational Capacity

AI ROI is not about replacing people. It's about empowering teams to spend less time on repetitive work and focus on higher-value activities.

Assess Your AI Readiness

⚠ The Risk of Getting AI Wrong

Deploying AI without the right foundations is like **building a skyscraper on a swamp**. Shadow AI creates serious data, security and compliance risks.

AI adoption involves **data, security, governance, compliance and operational change**. This is why organisations turn to MSPs like Jera IT to guide their AI journey safely.

Our AI Readiness Assessment ensures the right foundations are firmly in place before deployment.



**Business, Strategy & People Readiness**

Strategic alignment and cultural preparedness for AI adoption.



**M365 Technical & Infrastructure Readiness**

Is your Microsoft 365 environment ready for AI to work reliably?



**Data, Security & Governance Readiness**

Will data be surfaced safely, securely and compliantly?



**Adoption, Change & Operating Model Readiness**

Who will own AI and will adoption truly stick?

[Book Your AI Readiness Assessment →](#)

AI & Automation Discovery Workshop

The real challenge isn't knowing *if* AI can help — it's knowing *where it delivers the greatest impact first*. Our workshop identifies your highest-value opportunities and builds a clear adoption roadmap.

- 1 Uncover Repetitive Work Tasks**  
Identify manual processes that can be automated, freeing up valuable employee time.
- 2 Spot AI Agent Opportunities**  
Pinpoint where agents can retrieve information, support decisions and automate tasks.
- 3 Remove Information Bottlenecks**  
Identify where employees lose time searching for documents, data or knowledge.
- 4 Prioritise High-Impact Use Cases**  
Focus on AI opportunities most likely to deliver fast ROI and measurable gains.

Typical Workshop Outcome:

- ▶ A clear list of AI opportunities across your organisation
- ▶ Prioritised use cases based on business impact
- ▶ A practical AI adoption roadmap for the next 12–24 months
- ▶ Guidance on governance, security and responsible AI deployment

[Request an AI Discovery Workshop →](#)

Why Scottish Businesses Choose Jera IT for AI

- 1 Scotland's Only MSP with a Dedicated AI Adoption Programme**  
The Jera AI Readiness Programme is the only structured AI adoption service built specifically for Scottish businesses — covering readiness, governance, deployment, and measurable outcomes. No other Scottish MSP offers this end-to-end.
- 2 Microsoft Solutions Partner with Deep Security Expertise**  
Microsoft Solutions Partner and Cyber Essentials Plus certified. We achieve an average Microsoft Secure Score of 74% for our clients, against an industry average of 31% — your AI deployment is built on a properly secured foundation.
- 3 AI Governance Isn't an Add-On. It's How We Start.**  
We map your data, establish access controls, identify shadow AI exposure, and deploy Copilot within your own Microsoft 365 tenant — so your data and IP never enter a public AI model.
- 4 We Measure What AI is Worth Using OI Scoring**  
Our Operational Intelligence Scoring system measures time saved by department — giving you a clear, auditable return on your AI investment you can present to your board.
- 5 Three Scottish Offices. Onsite When You Need Us.**  
Edinburgh. Aberdeen. Glasgow. When AI deployment needs hands-on support — training your team, configuring your environment — we're already here, not a remote team who visits quarterly.
- 6 Training Scotland's Next AI Professionals**  
Through the Jera IT Academy, we're investing in Scotland's AI and cyber security talent pipeline. Our knowledge is current, deep, and built from the ground up — not sourced from vendor briefing notes.