SOLUTION SHEET

# Build without blind spots

Keep engineering, materials, construction, commissioning and handover connected from the start.



General contractors (GC) do not lose margin because their teams are not working hard. Projects lose time and money when critical information fails to move with the work.

Design changes don't reach procurement. Material arrives without the right documentation. Crews sit idle waiting for an inspection. Commissioning teams scramble to reconstruct records. Each disconnect creates another opportunity for delay, rework and risk.

Octave connects project information across the lifecycle so teams can make decisions with current, contextualized data.

## Project risk lives in the gaps

Large construction projects involve thousands of decisions across multiple companies, disciplines and systems. Even when every team performs its own work effectively, disconnected handoffs can undermine the entire project.

| Industry challenges | |
|---|---|
| 01 | **Unpredictable project delivery -** Disconnected planning, shifting conditions and limited visibility make it difficult to keep work aligned with the schedule and budget. |
| 02 | **Labor and resource constraints -** Skilled labor shortages place greater pressure on GCs to maximize crew productivity and reduce waiting, searching and rework. |
| 03 | **Fragmented project information -** Critical data is spread across systems, teams and contractors, slowing decisions and creating conflicting versions of project status. |
| 04 | **Material and supply chain uncertainty -** Limited visibility into material availability, location and readiness can disrupt sequencing, idle crews and delay downstream work. |



## Why projects lose momentum

Engineering information lives in the model. Requests for Information (RFIs) and financials live in a project management platform. Materials are tracked in spreadsheets. The schedule sits in a separate system. Completion records may still live in documents and binders.

Each tool may perform its individual function. The challenge appears when information must move between them.

Data gets re-entered, exported, emailed and interpreted by different teams. Context gets lost. Decisions rely on incomplete or outdated information. Problems surface in the field when they are most expensive to address.

The project is not a collection of individual tools; it's the handoff between them.

## One connected thread from engineering to handover

Octave connects contextualized project data across engineering, procurement, fabrication, construction, commissioning and handover.

The information created during engineering continues with the physical work. Teams can connect what was designed with what was purchased, fabricated, delivered, installed, inspected and commissioned.

- **Engineering** - Carry design requirements, specifications and changes forward with the work.
- **Procurement** - Connect material requirements and purchasing activity to current engineering context.
- **Fabrication** - Maintain visibility into the status of components before they reach the jobsite.
- **Construction** - Give project and field teams access to information connected to the work being performed.
- **Commissioning** - Build completion and certification records as systems progress toward turnover.
- **Handover** - Deliver organized project information without reconstructing the asset record at the end.

## Extend the systems already running the project

Octave does not need to replace the project management tools your teams already use.

It connects the information those systems do not carry across the full project lifecycle. This gives engineering, procurement, construction and commissioning teams shared context while allowing established systems to continue performing their core functions.

The result is greater continuity without forcing every team into another disconnected point solution.

## What better continuity means for GCs

- **Protect project margin** - Identify disconnects earlier, when teams have more options and corrections cost less.
- **Keep crews moving** - Improve visibility into material, engineering and completion status before an issue reaches the jobsite.
- **Reduce rework** - Connect current requirements and project context to the work being fabricated and installed.
- **Strengthen commissioning** - Capture completion evidence throughout execution instead of assembling it at the end.
- **Improve project predictability** - Give teams a clearer view of dependencies, status and potential disruption across the lifecycle.
- **Close out with confidence** - Create a cleaner digital handover that supports final acceptance, payment and the transition to operations.

## Connected data creates a stronger foundation for AI

Construction AI cannot provide trustworthy answers without trustworthy project context.

Predicting a schedule delay, identifying a potential clash or recognizing a material shortfall requires connected information from multiple disciplines and phases. A disconnected collection of point solutions limits what AI can see, understand and act on.

By maintaining a connected thread across the project lifecycle, Octave creates the contextual foundation needed for domain-specific AI to deliver meaningful results.

## Protect the project between the phases

Connect engineering intent, material status, field execution, commissioning evidence and handover information with Octave.

## Build without blind spots. *Keep the project moving.*



### About Octave

Octave provides enterprise software that helps organizations design, build, operate and protect critical industrial and infrastructure assets. Octave supports decisions across the full asset lifecycle where performance, safety and reliability matter and failure is not an option. Octave connects engineering, operational and safety workflows, enabling customers to convert complex operational data into decisions that improve performance, resilience and incident response across real-world environments. Octave has more than 7,000 employees in 45 countries. Learn more at octave.com and follow us on LinkedIn.

©2026 Octave Intelligence plc and/or its subsidiaries and affiliates. All rights reserved.

octave.com