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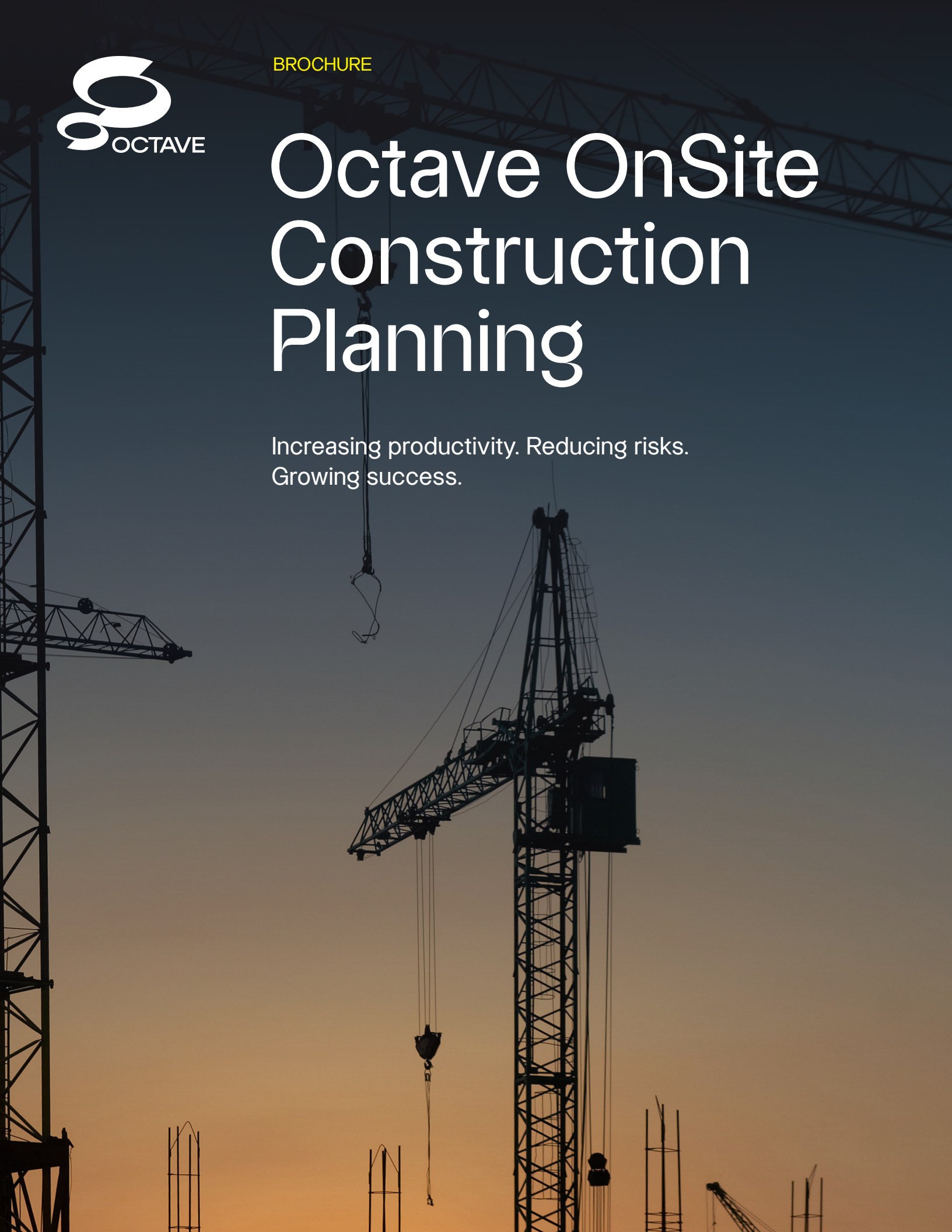
Octave OnSite Construction Planning

Increasing productivity. Reducing risks.
Growing success.





Octave Construction Planning (formerly Intergraph Smart Construction) is a modern work package planning solution proven to efficiently manage construction resources, materials and schedules. Designed to meet the specific needs and challenges of construction companies, project management offices, fabricators and owners, Onsite Construction Planning is an industry-trusted solution used worldwide.

OnSite Construction Planning provides real-time forecast, status, reservation and visualization of materials through built-in integration with Loop Core and Intergraph Smart Materials or client internal material management systems. The dedicated dashboard for materials enables dynamic re-planning capabilities, and a configurable planning window enables planners to make economical modifications before problems grow. Octave created OnSite Construction Planning specifically for construction planners to more efficiently plan and manage fabrication and construction projects, resulting in enhanced safety, increased quality and improved productivity.

Using current information from various sources such as 3D models, 2D engineering tools, materials management and a bidirectional interface with project controls and scheduling systems, OnSite Construction Planning ensures accurate and timely decisions can be made with the most up-to-date information. Users can view 3D models and drawing filters with enhanced 4D animation, powerful new pre-configured filters and selection rules for a 3D model. This delivers significant efficiency and improvements in building a complete work package, saving time and money.

Scheduling

OnSite Construction Planning offers a direct link with Primavera and imports a Level 3 schedule for work package planning. A scheduler feature also enables users to customize durations, crew size, work week schedules and non-working days and set dependencies.

Users can view, sequence, calculate and animate schedules. Then they can export detailed schedule information back into Primavera. Users can animate work packages in the 3D model that links to the scheduler, then record and save schedules.

Mobile capability

Digitally extend work packages into the field and track progress directly at the workface. OnSite Construction Planning reduces the labor hours required to capture progress and minimizes opportunities for data entry errors associated with traditional methods of status reporting. Using Android devices, on-site workers are able to view, update and track project progress in real-time. Having the ability to view the work package from a tablet or phone allows crews to have the most up-to-date project information, which improves productivity and enables accurate task planning.

With automatic updates to the system when connected to Wi-Fi, users can work offline with ease knowing their inputs are being captured instantly.

Component register

The component register will allow OnSite Construction Planning to retrieve data not modeled in 3D nor existent on drawings, such as cable pull schedules and component lists of any sort. Users can quickly generate the component register in a spreadsheet-like user interface. Subsequently, users can now drag and drop electrical cables and/or components from the register into work packages. The preconfigured rules of progress will associate the component work steps and their labor hours to the work package and automatically generate the planned work package labor hours just as it does for components modeled in 3D or existent on a smart drawing.



Benefits



Lower costs



Eliminate errors and redundancies



Increase productivity



Enhance collaboration between departments



Improve scheduling projections



Streamline processes

Improve efficiency in capital projects and shutdowns/turnarounds

The new age OnSite Construction Planning product is also an essential project and construction management tool that brings the owner, engineering, construction, supply chain and project controls together early on the project.

The challenge for the construction industry is determining how to make informed decisions based on the most accurate information available and how to manage people and materials in a dynamic construction environment to advance the project in the safest and most efficient manner. OnSite Construction Planning not only helps in addressing these concerns, but the system also streamlines the work process and mitigates issues early on the project that may have otherwise not been known until the project entered the execution or turnover phase.

Sustaining projects can use OnSite Construction Planning to integrate design, execution planning and package creation ahead of shutdown for delivering optimal results such as:

- Reduces hours in the plant shutdown execution
- Eases induction of the work sequence for owner personnel and contractors
- Guarantees decreasing the risk during the plant shutdown execution
- Allows performance calculation and personnel estimation by work front
- Reduces the impacts due to engineering modifications and establish fabrication priorities of materials

"Increasingly, our customers want to see their construction status in real-time and manage sites through data-driven systems, with no inconsistencies. We are confident that OnSite Construction Planning will help us to achieve this. We expect the end result to be improved project execution and improved operational readiness for handover to the owner."

Manager, Hyundai Engineering & Construction



Construction progress measurement

One of the most critical tasks in field construction is the ability to accurately measure and report actual construction status throughout a project. OnSite Construction Planning provides a platform to precisely record field construction status based on configured rules of credit and report on this status. By using the 3D model, users can easily view the current progress at any stage of the construction process. This improves reporting accuracy and speed, giving an accurate picture of the project status.

Constraint management

Projects and job sites are full of constraints: Things that need to be requested, acquired or fulfilled before a component on the project site can be worked. OnSite Construction Planning can track any sort of constraint, scaffolds, work permits, labor resources, special equipment, etc.

OnSite Construction Planning provides the ability for project planners to manage constraints within the software, but constraint requests can also be managed within the SmartPlant Foundation Web Client. Accessing and managing these constraints do not require an OnSite Construction Planning license.



Enterprise solution

OnSite Construction Planning benefits the entire engineering, procurement, construction and operations value chain:

- **Owner Operators** can improve CAPEX efficiency by consistently managing engineering information from concept planning, detailed engineering, procurement and construction into operations and maintenance.
- **Fabricators** can provide direct input to facilitate real-world construction plans.
- **Constructors** can reduce project cost with improved visibility on project plans, accelerate their ability to re-plan dynamically in response to real-world changes and take advantage of enhanced integration with engineering, procurement and fabrication to optimize both engineering and construction decisions

About Octave

Octave is a leader in enterprise software, turning data into decisive action and intelligence into your edge. Our software solves for and simplifies complexity, from the design and build to operations and protection of people, property and assets – for any scope, at any scale. For decades, we've partnered with customers to sharpen performance, elevate efficiency, and amplify results. From factory floors to entire cities, our solutions are tuned to scale up what's possible from day one onward.

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