CASE STUDY

Tecnimont maximizes its construction project management efficiently using Octave OnSite Visualize Max

Key facts:

Company: Tecnimont

Website: www.tecnimont.it/en

Employees: 10,000

Industry: Oil & Gas

Country: Italy

Octave products used: OnSite Visualize Max *(iConstruct™ MAX)*

Key benefits:

- Elimination of the Manual Processes
- Time and Cost Savings
- Increased Project Efficiency

Identifying goals

Tecnimont, a prominent global contractor specializing in the natural resources transformation industry, had been striving to achieve a specific objective for some time. Its primary focus was effectively managing the "work front" when collaborating with subcontractor companies responsible for providing direct manpower at its construction sites.

The information flow between engineering, procurement and executive construction often involves numerous reports and data. While crucial, these inputs required a pragmatic interpretation by the end users, typically the Construction Manager, the foreman and their respective teams.

Recognizing the need for a streamlined approach, Tecnimont sought a solution that would clearly represent the work front. It aimed to establish a priority scheme for assembly sequences through a comprehensive 3D model.

Such clarity and prioritization were considered advantageous in all circumstances.

The company was determined to find a solution that would set it apart from traditional practices employed by EPC

contractors, who primarily focused on managing engineering deliverables and material availability.

Overcoming challenges

Tecnimont faced a challenge in managing information and coordinating construction activities on-site. The staff had to put in much effort to generate reports and update data, which left them with little time to supervise construction operations.

Recognizing the importance of embracing new technologies and digital platforms within the construction sector, particularly for EPC projects, Tecnimont conducted a comprehensive investigation and analysis of potential business opportunities.

"I am extremely satisfied with our collaboration with Octave. Its solutions have revolutionized our construction progress planning, resulting in substantial time and cost savings. The Octave team has delivered an effective solution. The commitment to excellence has made them our trusted technology partner. We are excited to explore additional solutions and further leverage the power of Octave's OnSite Visualize Max platform across our construction sites."

Antonio Schiavone
Construction Home Office, Tecnimont

It was important to find a technological solution that streamlined processes and delivered cost savings in terms of effort, work-hours and reduced claims by subcontractor companies.

With these objectives in mind, Tecnimont embarked on a journey to identify and implement a transformative digital solution to address its challenges and maximize its efficiency in the construction industry.

Realizing results

Tecnimont, after a comprehensive evaluation, successfully identified OnSite Visualize Max as an optimal solution that aligned seamlessly with its specific requirements and project objectives. The adoption of OnSite Visualize Max proved to be a strategic decision for Tecnimont.

Reasons for choosing OnSite Visualize Max:

- **AWP Methodology:** OnSite Visualize Max allows Tecnimont to use Advanced Work Packaging (AWP) methodology to enhance project efficiency and productivity by organizing work activities, resources and materials strategically
- **Complete assistance from the support team:** Tecnimont received full support and assistance from Octave's team, ensuring a smooth implementation process
- **Adaptability to customer needs:** OnSite Visualize Max proved adaptable to Tecnimont's specific needs, enhancing its effectiveness and efficiency
- **Product intuitiveness:** OnSite Visualize Max was easy to understand and use, providing immediate value and enhanced functionality

Implementation process:

The applied solution covered the entire chain of the Engineering/Procurement/ Construction phases. The main driver of the OnSite Visualize Max solution was a centralized database that included the engineering section's deliverable list and the material management section's (SPMAT) packing lists and TAG lists. By combining these processes with detailed planning and construction scheduling, iConstruct facilitated the creation of Installation Work Packages (AWP) for the work fronts at the site.

Users and objectives:

Octave's OnSite Visualize Max platform was primarily used by Tecnimont's construction department, specifically by AWP Engineers and Workforce Engineers. The main objective of iConstruct was to identify the work fronts on the site, streamlining construction activities and improving efficiency.

Customization and data migration:

Tecnimont benefited from iConstruct's process customization service, which allowed for tailored adjustments within the Control Panel package of the tool. Data migration from the Tecnimont database to OnSite Visualize Maxwas seamlessly facilitated, ensuring a smooth transition. The entire construct package was customized to meet the specific requirements of Tecnimont's users. The implementation process, including data migration and customization, took approximately six months to go live.

Training and application platform:

Tecnimont provided training to its staff, focusing on familiarizing them with the software's potential. The staff contributed by providing business flows and processes and finalizing the application platform to ensure its alignment with Tecnimont's specific needs and workflows.

Overall, adopting Octave's OnSite Visualize Max solution proved to be a successful endeavor for Tecnimont, enabling enhanced efficiency, flexibility and improved project outcomes.

Moving forward

Octave's OnSite Visualize Max has allowed Tecnimont to enhance construction planning and represent the progress of activities more effectively. The advantages offered by Octave's OnSite Visualize Max can be quantified as approximately a 20% reduction in hours spent and 10% cost savings. The new system manages a significant amount of data, including an average of 50,000 metadata from an engineering perspective and approximately 800,000 metadata related to procurement. Tecnimont intends to expand the project further by improving internal processes within the company and incorporating them into the OnSite Visualize Max digital platform. The collaboration with Octave has left Tecnimont highly satisfied, describing the solution as effective, proactive and dynamic. The company is considering the broader application of OnSite Visualize Max in its construction sites, showcasing the potential for additional solutions.

"OnSite Visualize Max has truly transformed our workflow as an EPC contractor. Its intuitive interface and unique approach have made a significant difference in managing engineering deliverables and material availability. With OnSite Visualize Max, our staff no longer need to spend endless hours updating reports and information, allowing them to focus on coordinating construction activities on site. The platform's flexibility and exceptional customer care support have exceeded our expectations, making it the perfect solution that adapts to our specific needs right from the start."

Antonio Schiavone

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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