CASE STUDY

GTM Sud-Ouest TP GC and SOCOTRAP optimize project delivery in Blagnac

At a glance

- **20 days of delays saved for subcontractors**
- **One to two critical situations detected per week**
- **66% reduction in time spent on manual data collection**

5,000 sqm SIZE | **Fit out an aeronautical assembly line** DESCRIPTION | **Industrial** TYPE

General overview

The GTM Sud-Ouest TP GC consortium, a subsidiary of VINCI Construction, and SOCOTRAP were entrusted with the delivery of a part of a new assembly line in Toulouse. This expansion will allow the French aerospace leader to significantly increase its production capacity. Additionally, the assembly line offers advanced manufacturing technologies and more efficient production processes.

Key challenges

Client requirements: GTM Sud-Ouest TP GC and SOCOTRAP faced strict reporting requirements to meet the technical specifications and modifications. This demanded diligent construction management and controls.

Complexity: Many stakeholders involved in complex work sequences, fitting lengths of cables in complex structures. Also ventilation ducts in underground galleries and underfloor MEP throughout the building.

Tight schedule: Managing complex technical installations such as heating, ventilation, and fire suppression systems complete visibility and precise coordination amongst subcontractors.

"One of the key benefits of Buildots is increasing the reliability of the data: the goal is to deliver the project to our client on time. It also helps in construction delivery, enabling us to make the right decisions at the right time."

Brice BONCHEAU, Project Director | GTM SUD-OUEST TP GC

The solution

Given the project challenges, the consortium needed an advanced management solution to help teams handle sequences of complex tasks, minimize errors, reduce delays, and deliver to the best standard possible.

The construction delivery team put their trust in the Buildots platform and its construction site delivery serving AI to implement Performance-Driven Construction Management (PDCM) based on objective data.

Results

Buildots helped GTM Sud-Ouest TP GC and SOCOTRAP by providing:

01 delay forecasting and real-time production rate analysis

02 detection of errors and issues, and the non-compliance to agreed sequences, cadences and due dates

03 reduction of monitoring and reporting tasks

01 Preventing delays and analyzing production rates

The Buildots' Delay Forecast feature predicts delays by comparing the planned pace of activities with the actual pace and the pace required to complete on time. This helped the consortium shift from a reactive approach to proactive management by **identifying issues before they arise and derail the project.** The team also benefited from Buildots' strategic input and tailored recommendations on reducing delays.

To illustrate this further, on the Blagnac project, GTM Sud-Ouest TP GC and SOCOTRAP used the solution to identify slowdowns in activities such as the sprinkler and drywall installations. They then addressed the issues directly with the relevant trades and developed action plans to mitigate the delays.

Additionally, the consortium used Buildots' Progress Dashboard feature as a single source of truth during trade coordination meetings. The platform's objective data facilitated informed decision-making while reducing disputes. GTM Sud-Ouest TP GC and SOCOTRAP significantly improved the onsite decision making process. **This reduced idle time between different work phases and accelerated the start of activities and work sequences in specific areas.**

Overall, GTM Sud-Ouest TP GC and SOCOTRAP estimate that, thanks to using Buildots' features, they saved 2 to 3 days of delays for each of the 10 subcontractors using Buildots' various features. This represents approximately **20 cumulative days for the entire project.**

"It shows subcontractors where they can improve. With one click, we can see what they've done and what they can achieve. This ultimately speeds up the start of activities and work sequences significantly."

Yvan NIEDERHOFFER
Construction Engineer | SOCOTRAP

02 Detecting errors and issues

Thanks to Buildots, GTM Sud-Ouest TP GC and SOCOTRAP **estimate that they were able to avoid one to two major critical situations each week** by detecting them in time. They expect this figure to increase in future projects as their teams become more familiar with Buildots.

The installation of fire sprinkler systems on the Blagnac project is a perfect example of how powerful the detection of critical situations is. The Buildots platform identified installation errors on several pipes and sprinkler heads, allowing for quick corrections. This type of alert proved crucial as the errors detected by Buildots could have failed the project's commissioning, causing delivery delays, costly rework, and potential late penalties.

03 Reducing time spent on manual data collection

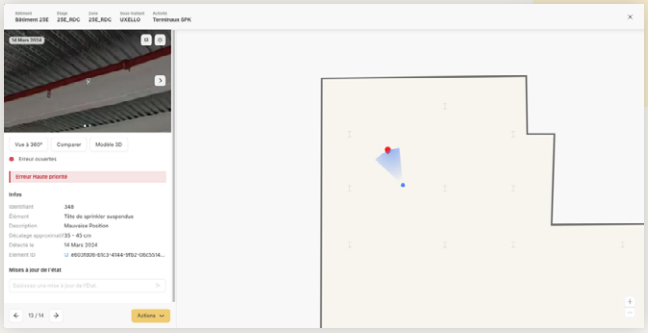
Like all European contractors, GTM Sud-Ouest TP GC and SOCOTRAP are dealing with the current industry wide talent shortage in the construction sector. They recognize that technology can significantly ease the pressure on the construction management teams by minimizing time-consuming manual tasks.

Traditional site visits are a prime example. Before implementing Buildots, site supervisors estimate that they used to visit at least six times a day to check on progress and respond to the various questions from relevant actors and stakeholders.

Due to the distance between the office and the site, and the safety checks typically associated with this type of industrial site, each visit took between 30 and 60 minutes. The 'Explorer' feature immediately reduced the number of site visits to two per day. **Over the six-month duration of the project, the team estimates that they reduced time spent on manual data collection by about 66%.**

"AI is a tool... it enables me to keep control of the data collected... I receive alerts, I validate or tweak the information, I send error detection reports. On top of that, the platform allows me to look ahead at the work scheduled to be carried out over the next 15 days."

Yvan NIEDERHOFFER
Construction Engineer | SOCOTRAP



Detection of inconsistencies in fire protection systems between design and reality.

About Buildots

Buildots, an award-winning leader in construction technology, leverages AI and computer vision to upgrade traditional project management methods, introducing a performance-driven approach to managing construction projects. Our platform automatically generates accurate, unbiased data and actionable metrics crucial for strategic decision-making. Enhancing visibility and control for site teams and management alike, Buildots sets new standards for efficiency and productivity, effectively minimizing delays and ensuring projects are completed on time and within budget.