

CASE STUDY

RB Group's Success in Fostering Collaboration with CupixWorks

RB Group, a UK-based engineering and consultancy firm, stands as a testament to enduring commitment to integrity, innovation, and excellence in the multi-disciplinary engineering domain. With a rich history of providing top-tier engineering consultancy, design, project, and construction management services, RB Group has made significant

strides across various sectors including pharmaceuticals, chemicals, heavy engineering, food and beverage and more. Their approach, emphasizing vision, purpose, and cutting-edge expertise, has enabled them to handle projects at every stage, from conception to commissioning, within the UK and globally.

Completely Eliminated designer's site visits

\$150,000 saved in rework avoidance

Construction Project Challenges

RB Group faced several common challenges in managing and documenting their construction projects:

- **Spatial Constraints and Accuracy**

Projects often involved tight and congested spaces, requiring precise installation of machinery and piping. Traditional methods sometimes led to inaccuracies.

- **Time and Cost Overruns**

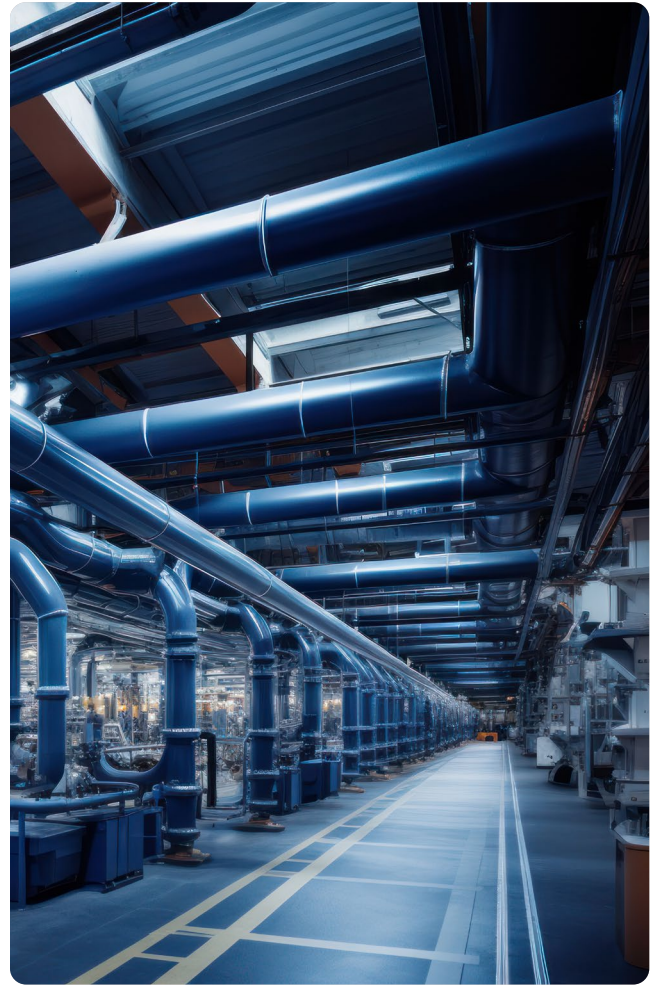
Misplacements or inaccuracies in installation could cause significant delays and cost overruns, affecting project timelines and budgets.

- **Collaboration and Communication**

With multiple contractors and stakeholders involved, ensuring timely and accurate communication was a challenge, and mishandling could lead to delays and rework.

- **Remote Management**

The modern work environment and project locations across the globe necessitated a solution that allowed for effective remote project management and oversight.



“With CupixWorks we scan as frequently as we can. We’ll do a full capture at least every 2 weeks, and then it immediately flags up if something’s being installed in the wrong place. So instead of waiting until a different contractor comes and says we can’t get on that; we’re delayed. We can flag it pretty early and avoid delays.”

Seán McKirdy

Director, RB Plant Construction

Implementation of CupixWorks

RB Group adopted CupixWorks, leveraging its reality capture and collaboration capabilities to address their challenges:

- **3D Documentation and Virtual Tours**

By creating detailed 3D models and virtual tours of project sites, RB Group enhanced the accuracy of their documentation, facilitating better planning and execution.

- **Real-time Updates and Issue Identification**

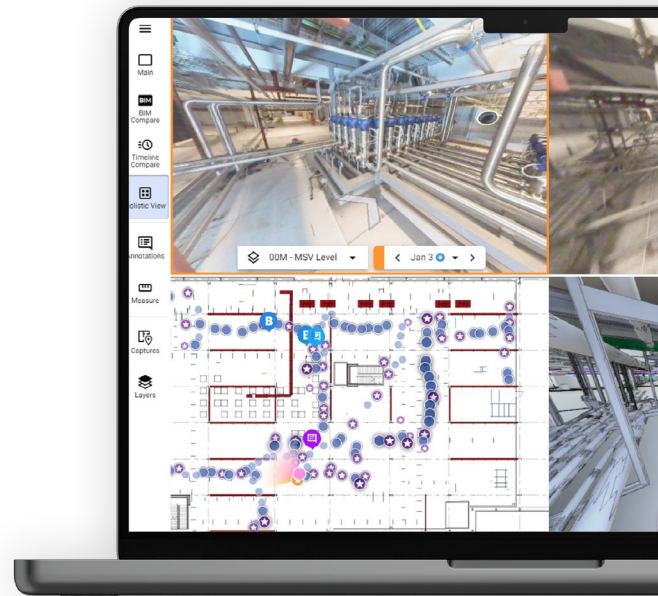
Frequent scans allowed for real-time updates on project progress. This early identification of installation errors or deviations from plans significantly reduced rework and associated costs.

- **Enhanced Collaboration**

CupixWorks enabled seamless collaboration among stakeholders, allowing for immediate feedback and decision-making, thereby streamlining project execution.

- **Remote Access and Monitoring**

The cloud-based platform allowed team members, including designers and engineers, to access project data remotely, reducing the need for onsite visits and enabling efficient remote project management.



“It’s just quicker to work in compared to a laser scan. I think Cupix is the next natural stage from that... for individuals to be able to view and walk around the sites. The Cupix system is easier and more fluid. It’s a lot more intuitive for people who are not designers. Click on it, move around, navigate around easily.”

Seán McKirdy

Director, RB Plant Construction

Results and Future Plans

The adoption of CupixWorks by RB Group led to several tangible benefits:

- **Accuracy and Efficiency**

The precision of 3D documentation and virtual tours reduced errors in installation, saving time and costs associated with rework.

- **Improved Collaboration**

The platform facilitated better communication among contractors, reducing conflicts and delays. It also allowed for quick resolution of issues through accurate, real-time data.

- **Cost Savings**

Early error detection and reduced need for physical site visits contributed to significant cost savings and reduced project timelines.

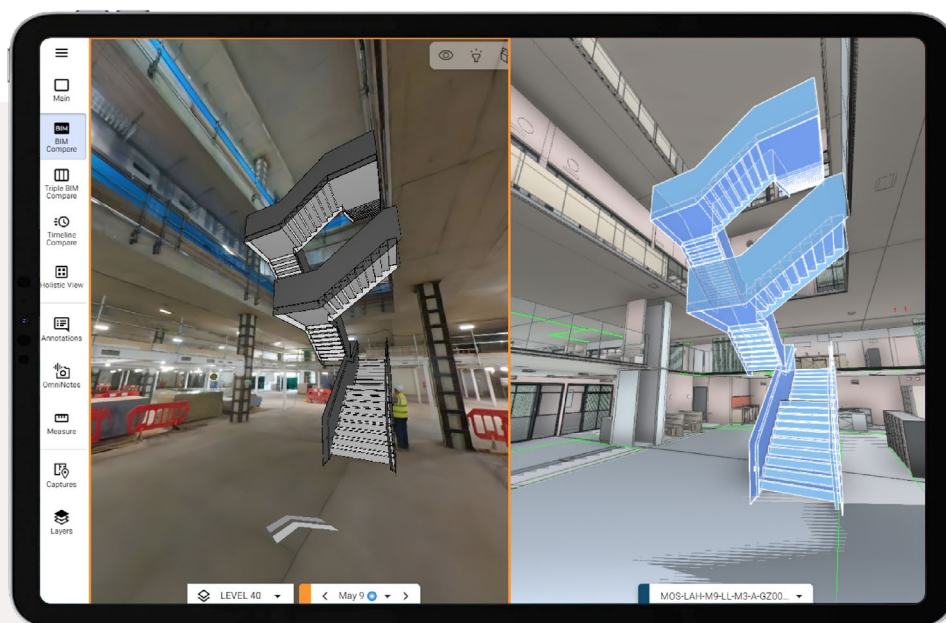
- **Client Satisfaction**

Enhanced project delivery, with improved accuracy and efficiency, led to increased client satisfaction.

“Our designers mostly work from home or from our head office in Lenham. Some have never been to the site. They depend purely on the CupixWorks to check what’s being installed and they find that they don’t need to come to site nearly as frequently as they would otherwise do.”

Seán McKirdy

Director, RB Plant Construction



Conclusion

By integrating CupixWorks' reality capture and collaboration features, RB Group not only overcame spatial constraints and accuracy issues but also streamlined communication and project management processes. The resulting improvements in efficiency, cost savings, and client satisfaction underline the significant impact of digital tools on traditional engineering and construction practices. RB Group's future plans to further incorporate CupixWorks into their project management methodologies highlight a forward-thinking commitment to leveraging technology for enhanced project execution and stakeholder collaboration.

“So we went down, captured the area, compared it, and one of the walls was quite far out. So we were able to flag it immediately, and it was immediately obvious, but when you walked around with the tape measure and a laser measure and checked it, it all seemed fine. If you didn't catch it, you're looking at many, many weeks and many hundreds of thousands of pounds, in terms of cost and delay.”

Seán McKirdy

Director, RB Plant Construction

