



## PlantQuest Case Study

# Optimising O&M Workflows by Bringing Location Intelligence to SAP Assets with 2D & 3D Visualisation

Industrial Aluminium Process Plant - Latchford, UK

## Site Challenge

- A 50,000m<sup>2</sup> brownfield facility with no existing layout drawings or recorded asset location data.
- Operating as part of a global industrial group, the industrial facility lacked a digital or spatial representation of its plant. While SAP held structured asset data, there was no visual environment to contextualise it.
- Maintenance & engineering teams relied on experience and manual walkdowns, visitors required escorts, and remote teams had no way to understand the physical layout of operations.
- Requirement to provide EMRA stakeholders with visual insight into site operations.

## Solution

- PlantQuest deployed a rapid digitalisation programme combining LiDAR and 360° photogrammetry with its OneView asset mapping platform.
- A single visual platform for assets, LOTO points, and industrial workflows.

- Imported all SAP asset tags and metadata into the platform with asset location tagging tools on both web and tablet applications allowing teams to verify and position assets directly on the shop floor or remotely within the 3D model.

## Outcome

- From Zero to digital twin in four weeks.
- Location intelligence driving operational efficiency.
- Instant visual location of all SAP assets across the facility.
- Improved maintenance planning and execution through spatial context.
- Faster alarm identification and response coordination.
- Safer and more consistent LOTO operations.
- Reduced reliance on the tacit knowledge of selected personal, with improved onboarding of new staff.
- Enabled remote viewing and collaboration for EMRA teams.

## From Zero to Digital in Four Weeks

What began as a site with no spatial documentation is now a fully digitised, navigable production environment.

By combining accurate 3D LiDAR capture, SAP asset data, LOTO points, and intuitive mapping tools, PlantQuest created a connection between physical operations and the site's enterprise asset system.

Maintenance teams can now view assets in context before entering the plant and engineers can remotely assess areas of concern. New personnel can orient themselves visually rather than relying solely on shadowing experienced staff.

Beyond immediate operational gains, the deployment establishes a scalable model for replication across the organisation's global facility portfolio — providing a consistent approach to asset visibility, knowledge retention, and operational intelligence.

PlantQuest has delivered not just a visual twin — but a foundation for long-term digital transformation across the organisation's global facility portfolio.

