



Case Study

Operational Excellence Through Facility & Asset Visualisation

Biopharma Facility - Ireland

Site Challenge

- Complex facility layouts and siloed CMMS, EHS, and Production data meant teams lacked accurate, accessible spatial visibility of assets, alarms, and work orders.

Solution

- A scalable, low-maintenance solution providing one view of the sites existing systems through interactive 2D facility maps and 3D LiDAR visualisations across maintenance, EHS, and production workflows.

Outcome

- Improved asset data accuracy, business continuity, and operational visibility, while establishing a scalable spatial foundation for standardised rollout across the J&J network.

Digitisation with Purpose

At the BioCork facility, multiple digital asset management projects were rolled into PlantQuest to address challenges in operational visibility. Before PlantQuest, the site lacked a single, unified view of its operations. Teams across Asset Management, Production, EHS and Engineering had no location or spatial data that was accessible, usable and scalable, creating barriers for site teams trying to locate, maintain, and manage equipment.

PlantQuest's asset mapping & facility visualisation solution was deployed to address these challenges. The solution has enabled users to visualise, locate and navigate to assets, alarms, and workflows spatially across the facility, providing real-time operational context and driving measurable performance improvements.

Data Was There — The Context Wasn't

Across the facility, critical operational data was dispersed across various systems—CMMS, MES, Track & Track, and Fire & Gas monitoring among others. While each contained valuable insights, the absence of a shared spatial context made it difficult for teams to interpret information or act efficiently. Many routine workflows depended on local tacit knowledge and manual searching, introducing delays, inconsistencies, and inefficiencies that affected uptime, data quality, business continuity and audit readiness.

Driving Consistency and Efficiency Across Operations

Across the facility, teams were focused on improving the quality and reliability of CMMS & asset data while streamlining maintenance planning and execution. Teams needed a way to bring maintenance, production, and facility information into a single, contextual view to support faster decision-making and more consistent workflows. Ultimately, the goal was to strengthen business continuity and increase overall production throughput across operations.

Linking Digital Systems to the Physical Environment

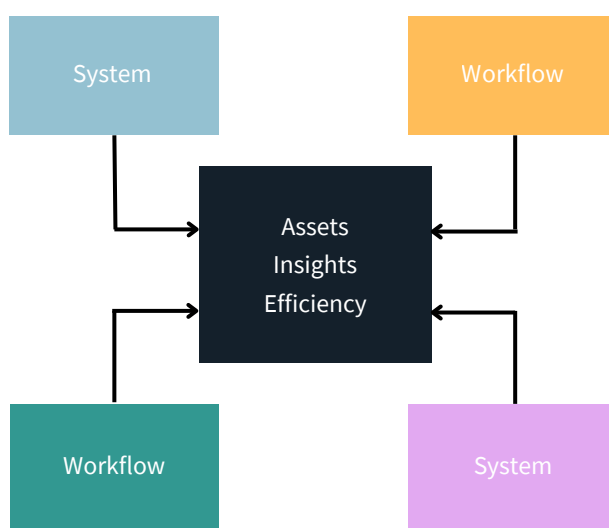
PlantQuest was selected as a unified platform to bring clarity and context to these complex workflows. By integrating with existing operational systems, PlantQuest spatially visualises asset, alarm, and workflow data—providing teams with intuitive 2D and 3D based interfaces that links digital information to the physical environment.

The platform's lightweight and scalable design enables rapid site deployment and easy local management without dependency on specialist support. Once in place, sites consistently report tangible outcomes: more accurate asset data, faster task execution, reduced downtime, and improved onboarding for new staff. With enhancements in situational awareness brings improved emergency response and business continuity by ensuring the right decisions are made, faster.

Built to Scale Across the Network

PlantQuest aligns with global digitalisation strategies and existing technology stacks, delivering rapid time-to-value—often within weeks. Its modular design allows sites to begin with a single use case and expand seamlessly across additional workflows such as maintenance optimisation, asset tracking, and alarm response.

As more use cases are layered onto the platform, the value compounds—driving consistency, efficiency, and insight across multiple sites without adding system complexity. This positions PlantQuest as a scalable foundation for network-wide standardisation, operational excellence, and continuous improvement across the enterprise.



PlantQuest Interacting with Systems & Workflows