

# CASE STUDY

## Wrightington Hospital – BIM & FM Integration



### CLIENT

**Wrightington Wigan & Leigh NHS Foundation Trust (WWL)**

### PRINCIPAL CONTRACTOR

**Integrated Health Projects (Vinci Construction)**

### KEY BENEFITS



**Time saved**



**Asset Management**



**Collaboration**



**Innovation**

Building Information Modelling (BIM) was adopted from the outset on the £18m Wrightington Hospital by main contractor, Integrated Health Projects (IHP) – a joint venture between Vinci Construction and Sir Robert McAlpine, as part of their structured programme from design concept to post-completion.

The project was part of a Cabinet Office initiative to reduce cost and carbon production throughout the construction and operational life of the building.

Appointed to deliver mechanical, electrical and public health (MEP) works at Wrightington Hospital, NG Bailey aligned its internal processes with the project requirements whilst fully conforming to its' BIM Execution Plan (BEP). A key use of BIM was to capture mechanical and electrical asset information, along with Construction Building Information Exchange (COBie) to streamline maintenance activities within the Trust.

Unlike the production of a traditional 3D coordinated model, our internal procurement selections were referenced against each MEP item to enable the appointed estates team to inspect specific product details. Producing this single source of truth model helped mitigate any potential on site re-works ensuring a "right first time" solution was achieved. The M&E works, originally scheduled for 52 weeks were completed in fewer than 47.

Jeff Stephens, Head of BIM at Vinci Construction says 'The use of BIM on the Wrightington Hospital development has been key to its success. The NG Bailey BIM team had one of the hardest tasks, populating the asset data within the Revit model - the team was imperative to the successful delivery of IHPs COBie aspirations.

*"Feedback from IHP has been that NG Bailey and the wider team over delivered on their expectations and the model produced is the key to a more robust FM solution"*

Utilising the model produced for each stage of the build to manage the asset through its operational life reduces traditional processes for data management, making FM teams much more efficient and bringing access to all relevant information at their fingertips.