# Asset information delivery
# Forth Valley College – Falkirk Campus

INFRASTRUCTURE TECHNOLOGY

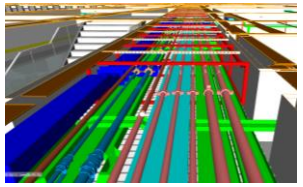
## Overview

The Forth Valley College operations team understand the need for good quality information for effective asset management. On the new Falkirk campus they worked collaboratively with the client and key stakeholders to establish a set of BIM and asset information requirements at the project outset. These requirements provided certainty and enabled the design and construction teams to plan, coordinate and digitally deliver the right asset information, at the right time up to project handover.

- ☐ Planning
- ☐ Invest
- ☑ Delivery
- ☑ Manage

## Benefits & ROI

The BIM environment supported project collaboration and enabled digital co-ordination of the design models before manufacture and site construction. The MEP model was used to digitally simulate service installation sequences before fabrication to reduce the risk of physical clashes on site. Unique asset naming was embedded in BIM objects within models and used by the operations team for FM set-up pre-project handover.

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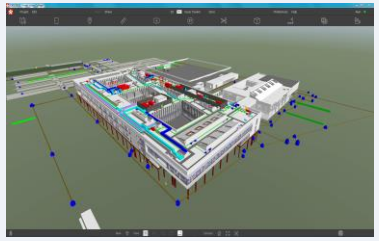
|---|---|
| **Project** | Forth Valley College – Falkirk campus |
| **Client** | Forth Valley College |
| **Contractor** | Balfour Beatty |
| **Suppliers** | Reiach & Hall Architects, Balfour Beatty Kilpatrick, Atalian Servest |



## Data

The clients BIM consultant and operations team developed a project standard for information production, delivery and data utilisation. These included:

- a digital O&M manual structure and CAFM input requirements.
- a consistent asset code and naming convention to be adopted by all project disciplines and software management systems.
- the adoption of Uniclass 2015 classification providing a structured and indexable information framework.
- using the COBie schema, an open standard for building data exchange and interoperability between industry software.

## People & Process

A project common data environment (CDE) process and supporting technologies contributed to the following outcomes:

- an centralised information management process wherein all design disciplines could collaboratively share, review and coordinate their programme deliverables.
- a 3D model, 2D drawing and document integration platform which enabled multiple stakeholders to search asset types and review linked or embedded asset information.
- asset information production and delivery enabled the operations team to commence set-up, testing and population of the asset management systems pre-project handover.

## Technology

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The cloud-based collaboration software platform introduced by the contractor resolved interoperability issues across the whole supply chain and supported real-time BIM coordination and delivery workflows. Project issues were virtually identified, tracked and resolved within one centralised 3D environment reducing risk and overall coordination time. The software functionality and its extended use during the asset management phase is being explored further.

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