

# Digital construction record and asset management

## Alness Academy – P02



INFRASTRUCTURE TECHNOLOGY

### Overview



Alness Academy is a new 660 pupil secondary school designed and delivered using BIM and supplemented by HoloBuilder, which is an innovative construction progress management tool. The contractor adopted the cloud-based platform to capture a digital 360° record and timeline of the whole construction process for their own monitoring and management purposes. This case study demonstrates the added benefits provided to the client by further utilising the platform and the digital record in the schools operational phase.

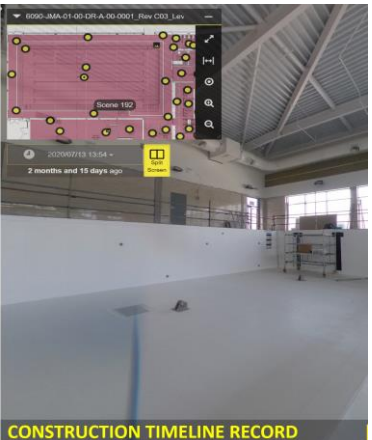
**RELEVANT STAGE**

<input type="checkbox"/>		Planning	<input type="checkbox"/>		Invest
<input type="checkbox"/>		Delivery	<input checked="" type="checkbox"/>		Manage

### Data



During construction, the contractor used a 360° digital camera and HoloBuilder to capture a construction timeline record of each space, some of which included maintainable assets and services. Working collaboratively, the client and contractor initially tested the ability to tag relevant O&M information to several assets in HoloBuilder. The visual tags in the HoloBuilder model were linked to the Clients Common Data Environment.



### Benefits & ROI



The client and their in-house asset management teams can use the working solution to:

- remotely view assets and O&M information prior to site arrival, instantly access asset manual instructions whilst on site, and
- support more effective and efficient planning, sequencing and scheduling of mandatory maintenance tasks.

*“the ability to remotely view assets and O&M information will save travel time to and from site, which will reduce OPEX costs and carbon”*

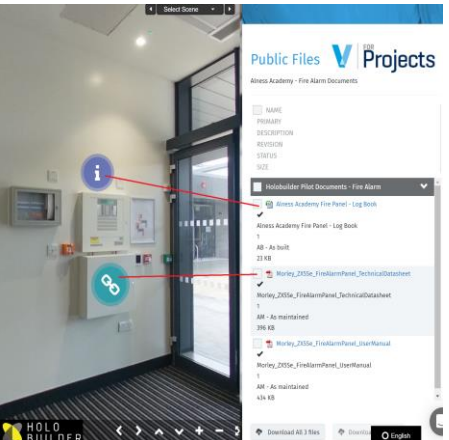
**RELEVANT BENEFIT**

<input checked="" type="checkbox"/>		Reduce Waste & Carbon	<input checked="" type="checkbox"/>		Reduce cost
<input checked="" type="checkbox"/>		Improve outcomes for users	<input type="checkbox"/>		Improve delivery time
<input checked="" type="checkbox"/>		Improve asset performance	<input type="checkbox"/>		Increased social value
<input type="checkbox"/>		Improve construction quality	<input checked="" type="checkbox"/>		Support upskilling & training

### People & Process



Through the linked platforms and simple navigation process, invited users can remotely orientate themselves to any virtual space, select a tagged asset, and review the latest O&M information using a hand-held device or laptop. The setup can also be used for asset familiarisation and training purposes.



### Building

Alness Academy

### Client

Highland council

### Contractor

Kier construction

### Suppliers

HoloBuilder, Viewpoint for Projects (VfP)

### Project cost

£34 million



### Technology



The successful linking of two technology platforms has unlocked new benefits and functionality for the client during the operational stage. This includes improved team collaboration, access to consistent and accurate asset information, and a reduction in typical costs associated with repeated journeys to the school to identify and resolve arising issues.



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