

Digital asset information management on existing estates – BIM 4 Curation group



INFRASTRUCTURE TECHNOLOGY

Overview



The BIM 4 curation group, facilitated by SFT, was established by a collective of organisations who manage and operate historic buildings and estates in Scotland. The group meet to share knowledge and experiences on the use of new digital technologies and BIM adoption. A recent group survey identified inconsistency in how O&M information is managed and stored. This led to SFT facilitating a sub-group to explore a common structure for digital O&M manuals and asset naming to improve efficiencies, resilience and consistency in how we manage our assets.

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

Benefits & ROI



The BIM 4 curation group identified objectives and benefits for the sub-working group to explore:

Objectives: Develop an industry aligned digital O&M manual and standard asset naming convention, which could be adopted on existing estates and buildings.

Benefits: This would support a central and standard information management process across the organisations and supply chains. New CDE procedures and platforms can be safely introduced and consistently managed across each estate.

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

Project Digital asset information management
Group BIM 4 Curation group

Organisations/ members Registers of Scotland

The Scottish Parliament Pàrlamaid na h-Alba	National Museums Scotland	National Library of Scotland Leabharlann Nàiseanta na h-Alba

HISTORIC ENVIRONMENT SCOTLAND	NATIONAL GALLERIES SCOTLAND	Royal Botanic Garden Edinburgh

Data



The survey revealed the majority of the contributing organisations hosted their asset information digitally, on local servers and CAFM systems. The utilisation and age of CAFM's varied, and these tended to be owned and managed by clients, by a 3rd party FM contractor, or both. Where a client organisation and FM contractor used their own CAFM on the same estate or building, information was generally siloed, with little information being shared between parties or systems.

Unique and varied naming conventions and coding systems are being used across all organisations to identify assets. There was no apparent use of industry naming or classification conventions, however some are gradually adopting these within evolving BIM strategies.

People & Process



The sub-group explored a range of organisational and operational stakeholder roles which manage, share and produce asset information on existing buildings. It was evident the way in which information is captured and assets referenced is generally inconsistent across client organisations and their supply chains. This can result in information being duplicated, stored and named differently across numerous systems and also lead to site assets hosting multiple sources of information.

The group workshop developed a proposed O&M manual template wherein structured digital information could be managed via industry classification, function and stakeholder type. It was agreed to test the implementation of the O&M template on pilot projects.

Technology



The group identified that technology systems continue to play an essential role within the asset management of existing estates. It further highlighted that technology alone was not the answer, and a structured and centralised information management process was required, involving all stakeholders across the estate.

This is not an easy ask, when legacy technologies, data storage systems and different processes are in everyday use. The sub-group demonstrated that the introduction of simple, standardised asset naming, classification and folder management can start to deliver early process change and benefits, whilst establishing the basis for implementing organisational wide technology in the future.

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