

BIM and information management

Scottish Parliament



INFRASTRUCTURE
TECHNOLOGY

Overview



As a member of the SFT public sector buyers' group, the Scottish Parliament FM team undertook a deep review of their existing asset information management systems and processes and developed a plan to transform them within a wider digital transition programme. The team utilised guidance and resources on the SFT BIM portal and have, through close engagement with the SFT Infrastructure technology team and their wider network, aligned their plan to current BIM and information management standards.

RELEVANT STAGE

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

Benefits & ROI



The centralisation of the parliament's information systems and processes offer immediate and long term benefits including:

- Total control over accessibility and sharing of asset information.
- Reliable integration of legacy information in new digital projects.
- The potential to combine existing asset information with real-time operational data for analysis to improve energy performance and use across the 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

Building

Scottish Parliament

Stakeholder

Estate and facilities management team



The Scottish Parliament
Pàrlamaid na h-Alba



Data



In recent years, many public body organisations have looked at how asset management information can be improved through combining existing information systems and migration onto cloud-based platforms.

Similarly, the Scottish Parliament FM team completed a survey of their existing information infrastructure and developed a detailed network map to indicate the best way to reduce the number of information systems across the estate, and to introduce common accessibility, security and document control procedures. The review also investigated the existing and future interoperability needs of their asset information files and formats which include 3D design models and 2D drawings, point cloud data, 360 photographs and O&M information.

People & Process



A new online intranet and common data environment (CDE) process has been established to centrally manage legacy and existing building information across the estate.



Utilising current BIM standards (ISO 19650) the new CDE process will help manage the sharing, updating and approval process for all information generated from future maintenance works.

Common folder and industry classification structures have been introduced so information files can be consistently indexed, stored and easily retrieved by users.

Technology & Security



As part of the digital transition planning and delivery process, the parliament team undertook a rigorous security review and assessment of the proposed information management processes and digital technologies being adopted.



Through a workshop led by a key author of PAS 1195-5: *Specification for security-minded BIM, digital built environments and smart asset management*, a set of security-related factors were considered in relation to sensitive asset information management, which included the provision and maintaining of appropriate levels of CDE security and accessibility over the whole operational life of the estate.

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