BIM and information management
Scottish Parliament

INFRASTRUCTURE TECHNOLOGY

Overview

As a member of the SFT BIM 4 curation 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

☐	🏔	Planning	☐	◔	Invest
☐	⛑	Delivery	☑	⊛	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

☑	🗑	Reduce Waste & Carbon	☑	⏀	Reduce cost
☑	◎	Improve outcomes for users	☐	📅	Improve delivery time
☑	📈	Improve asset performance	☐	👥	Increased social value
☐	📐	Improve construction quality	☑	🎓	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 proposed to centrally manage legacy and existing building information across the estate.

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

Common folder and industry classification structures are being 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.