

SFT OUTCOMES

2023

Digital construction information delivering improvements

PRIMARY OUTCOME

SECONDARY

OUR CORPORATE PRIORITIES

09

TECHNOLOGY-ENABLED CONSTRUCTION
ASSET MANAGEMENT AND USAGE
OPTIMISATION

06

07



NET
ZERO



SUSTAINABLE
PLACES



INCLUSIVE
GROWTH

Across the construction sector, there are more and more applications of new infrastructure technologies emerging that are changing and importantly, improving, how infrastructure projects are developed and delivered, helping to make the buildings we use more efficient and effective.

With our Learning Estate team managing the Learning Estate Investment Programme (LEIP) on behalf of Scottish Government, in 2020 our Digital Infrastructure team devised and produced a new *Standard Information Management Plan* (SIMP) to enhance the performance and delivery of projects delivered through LEIP.

The SIMP enables public bodies to specify best-practice digital information management processes through the construction and maintenance stages via building information modelling (BIM). BIM is the process of accurately creating, managing and exchanging digital information within the built environment and is underpinned by a suite of International Standards.

The SIMP is currently mandated to be used by all local authorities on all LEIP schools, which has catalysed its wider adoption on other public sector infrastructure projects.

Since its launch, the SIMP has evolved, reflecting an increasing demand to develop core sets of information which can easily be integrated at the start of projects to enable standardised information briefing, delivery planning, while also supporting the achievement of set outcomes.

During the evolution period, our Digital Infrastructure team worked with industry and stakeholders to develop two thematic sets of information requirements relating to Passivhaus project delivery, and Building Standards completion certification submissions.

Many local authorities are adopting Passivhaus standards to deliver high-quality schools which meet specific LEIP operational energy targets. Our Digital Infrastructure team initially engaged with the Passivhaus Institute who were also working with Royal Institute of British Architects (RIBA) to develop a RIBA plan of work overlay for industry practitioners.

The team facilitated a sub-group to draw up standardised Passivhaus information requirements for each project stage and mapping them to the 'Uniclass' project management classification table. Where there were gaps, the team worked closely with the National Buildings Specification (NBS) organisation to create new classification codes

Through collaborative working, the team successfully delivered a structured set of Passivhaus information which can now be used by industry around the world.

Using a similar approach, the Digital Infrastructure team engaged with Building Standards Scotland to map its 'Procedural Handbook' completion certificate submission requirements to the Uniclass project management classification table. Through repeated engagement and support with the NBS, where gaps were found the team developed new classification codes.



This collaboration has delivered a structured set of information requirements which can be repeatedly adopted for use on all new projects across Scotland. The use of Uniclass classification codes offers consistency to further support Building Standards Scotland's evolving work to digitise the current statutory compliance delivery and validation process.

Through engagement, our team and industry partners have successfully developed new standardised sets of information requirements, which clients can adopt at programme and project outset for consistent briefing, specification and delivery.

This offers assurance and certainty of scope to design teams and contractors and enables their supply chains to plan their information delivery in a timely and coordinated manner.

Overall, the outcomes of both initiatives have delivered quality improvements through a standardised approach aligned with international classification and information management standards.