

NHS Louisa Jordan Hospital, SEC Glasgow

Technology enabling improved collaboration & outcomes



INFRASTRUCTURE TECHNOLOGY

Overview



A two week transformation of the SEC into an extra 1,000 bed hospital ready to treat patients during the Covid-19 outbreak, highlights the true resilience and tenacity of the NHS and its framework partners.

This case study showcases the symbiotic power of human and digital collaboration to achieve such a feat in unorthodox times.

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

Data



The hospital design grid was based upon standard bay arrangements which were easily constructed using a repeat palette of lightweight systems, materials and procedures. The critical service infrastructure was the most challenging to deliver, with new below ground drainage installations, 35,000m of network cabling, 135,000m lighting and power cabling, and bespoke ventilation and oxygen supply systems. The facility was divided in 1,200 spaces that each had a unique identification code (QR) to support the data management process.

Autodesk BIM 360, a construction field management software and cloud based collaboration system, was used to capture live-data, co-ordinate and report the progress in construction to all site contractors and the client, NHS National Services Scotland.

Benefits & ROI



The innovative and combined use of various digital solutions provided continual, real time data to inform decisions, progress reporting, resources and ultimately enable the collaboration required to achieve the required outcomes. The technology improved:-

- Co-ordination: Cloud based technology enabled multiple trades to digitally plan, sequence and install their packages on site.
- Quality: Use of QR codes enabled real-time snagging and resolution management to avoid delays due to incomplete works or defects.
- Collaboration : With up to 700 operatives on site a day, the technology enabled improved collaboration across people, trades and organisations.
- Outcomes: The use of technology was a key enabler to deliver the facility in the time and quality required.

People & Process



The technology proved to be easy to use and intuitive and enabled multiple stakeholders to simultaneously view and interact with project data, without the need for extensive training or upskilling. This was achieved across multiple organisations and management levels with limited mobilisation and training.

The centralised and cloud-based digital solution enabled senior managers and planners to monitor progress 24/7, clients to approve and site teams to action almost immediately.



Project

NHS Louisa Jordan Hospital, SEC

Client

NHS National Services Scotland

Principle Contractor

Balfour Beatty

Supply-Chain

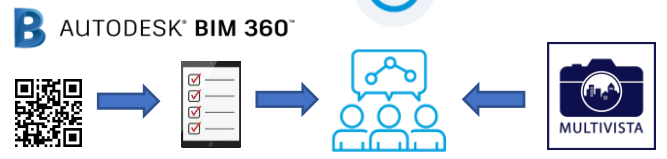
Robertson, Graham, FES, AECOM, Keppie & Hulley and Kirkwood



"I want to offer my sincere gratitude and thanks to the contractors and NHS Scotland staff who have come from across Scotland to work tirelessly to transform the SEC into the NHS Louisa Jordan. You are an inspiration to us all."

Health Secretary Jean Freeman

Technology



The manner in which the technology was utilised and deployed offers an real insight into how digitally advanced the construction industry is becoming and continues to evolve. The use of BIM 360 Field for data capture, Multivista for virtual construction timeline capture, QR codes to link virtual and physical spaces, and cloud based environments to connect and display project data on everyday devices indicates how interoperability is delivering exponential benefits across the whole supply-chain.

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