NBI NATIONAL BROWNFIELD INSTITUTE

UNIVERSITY OF WOLVERHAMPTON

WEST MIDLANDS GROWTH COMPANY

TNM - Built Environment Scanning

Context

TNM Architecture has secured a long-term architectural retrofit contract with Balfour Beatty at the Queen Elizabeth Hospital in Birmingham. The programme involves surveying, assessing and designing upgraded suspended ceiling systems across a number of wards, with a focus on improving both appearance, hygiene and acoustic performance.

As the work is tied to phased ward closures and reopenings, the programme is tight and the need for efficient, dependable survey information is very important.

NBI Support

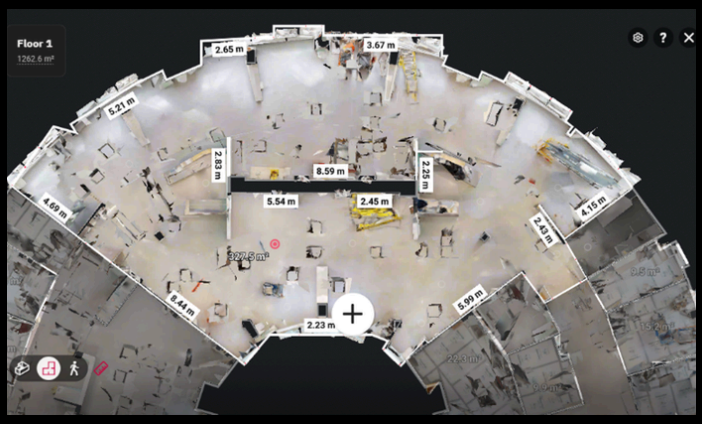
- On-site Matterport survey creating a virtual tour + 3D survey for Ward 301
- Time in motion analysis vs other surveying techniques.
- Post processing and issuing survey to client

(01902) 518532 | nbi@wlv.ac.uk | www.wlv.ac.uk/nbi

NBI NATIONAL BROWNFIELD INSTITUTE

UNIVERSITY OF WOLVERHAMPTON

WEST MIDLANDS GROWTH COMPANY



Feedback

TNM Director Terry Reynolds - “The Pro3 survey work on Ward 301 has been especially helpful. We used the scans, post-processed them in Recap, and then utilised them fully within Revit as part of our drawing and coordination process. Alongside that, the visual record of the ward has also been useful for reviewing existing conditions remotely and reducing the need for unnecessary repeat visits”.

Results

As built 3D record and condition survey of Ward 301 was completed, enabling point cloud download to embed into architectural software packages for the client and principal contractor. Time in motion analysis shows a 43% improvement on survey time using Matterport Pro3 camera

Equipment Used

Matterport Pro 3 Camera with built in LiDAR technology and an accuracy of +/- 20mm @ 10m.

(01902) 518532 | nbi@wlv.ac.uk | www.wlv.ac.uk/nbi