

WINNER

LAND SOLUTION AUSTRALIA Herston Quarter

What was the problem?

Many challenges faced the public listed Watpac Construction, one of Australia's leading construction and mining contracting businesses in the design and construction contract of Stage 1 of the 5 Ha Herston Quarter Project in Brisbane. The \$1.1 B project includes demolition of the Royal Brisbane Children's hospital and refurbishment of 120 year old state heritage listed buildings, to create a global leading benchmark for health precincts. The demolition, relocation and construction of new building in close proximity to active medical research labs, heritage structures and hospital wards required the utmost attention to stakeholder relationship management and engagement.

What were the key outcomes?

Environmental noise, dust and vibration evidence were gathered for this project in near real time. This minimised the risk for Watpac and the Royal Brisbane Hospital and the patients who frequently used buildings surrounding the work site. Economically and financially, the spatial enablement of the Herston Project stacked up.

How did you address it?

Land Solution Australia, recommended and delivered a combination of spatial technology, including drones, IoT sensors, Laser Scanning, and spatial data platforms to spatially enable Watpac's internal processes and external engagement. Land Solution's work deserves recognition for the way it improved the Watpac Business process and improved the public perception of the construction industry. This included capturing the state of adjoining buildings before the commencement of construction work, Installations of over 100 IoT sensors to alert and warn Watpac of the potential of damage or disruption to sensitive buildings and structures, terrestrial laser scanning to re-create a heritage staircase buildings precisely in 3D, regular RPAS flyovers for building inspection and bulk precise excavation progress volumes and finally the customisation of a monitoring digital data sharing platform so the client could easily consume and share the data internally and with project stakeholders.

For more information about this project or to contact Land Solution Australia please visit their website:
landsolutionaustralia.com.au

