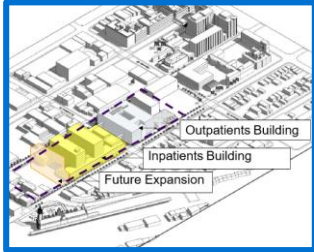


Logistics in healthcare, in compressed sites and in tower scenarios

CASE STUDY DUNEDIN



A constrained site often drives logistical support underground, but in Dunedin this was not possible. As for the ground floor, it needed to be used for high volume patient access areas.



AGVs & ROBOTS

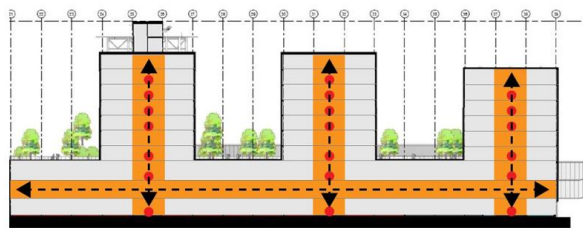


AGVs (automated guided vehicles) can carry materials, supplies and waste carts throughout the facility. Robots can organise and pick supplies and AVGs can deliver them.

“Really interesting – does this include waste management flow as well as often a challenge to have piles of rubbish lying around?”
 Chris Flatt (CTG)

HUBS & WORKFLOWS

Interchange hubs used at each floor level or better workflows.

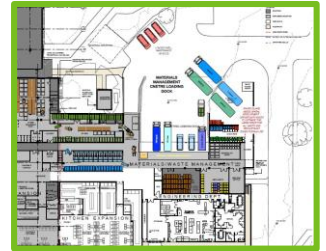


● Interchange Hubs



CONSTRAINED SITES

The solution was to repurpose the first floor level to create a logistical support platform across the site. This is supported by a small loading dock, with smart management of deliveries and robotic support.



DRONES

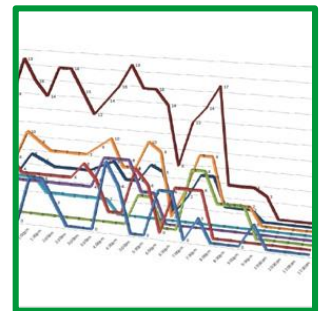
Drones can be used for inspections, façade cleaning and for deliveries.



“The Trust has already used drones to view our roofs and diagnose Maintenance issues – we have footage of our 3 main sites.”
 Deirdra Orteu (CTG)

TIMING

Managing delivery slots with the help of digital systems and apps communicating with delivery drivers, Dunedin aims to reduce peaks and eliminate bottlenecks.



Simulation modelling and new technologies can reduce staffing and space requirements