

# From security robots to touch-free lift buttons

With more technology, NUHS hospitals seek to minimise labour-intensive work and move to a more efficient, safer and productive way of managing its facilities.

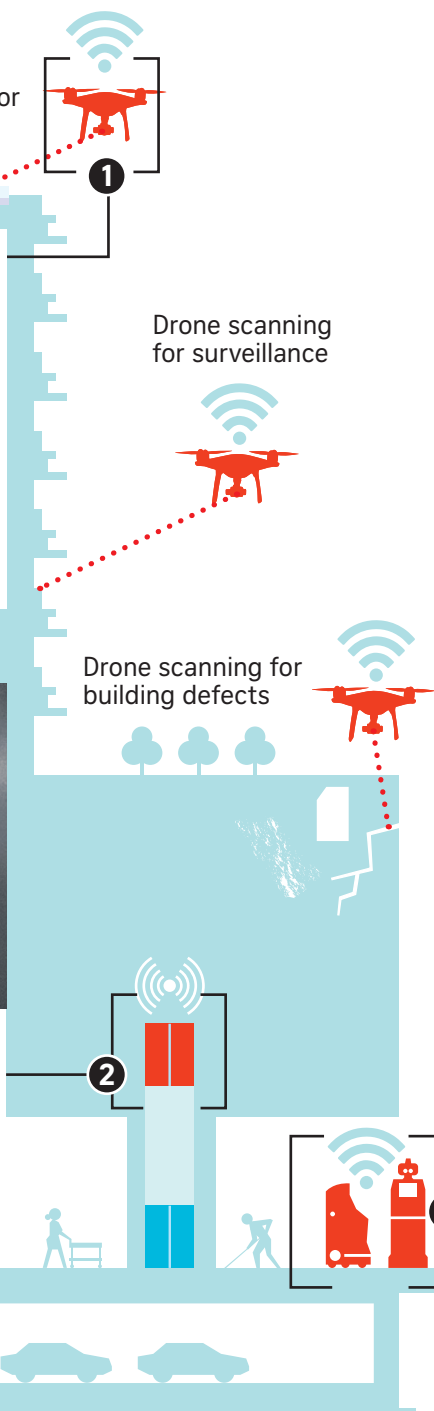
## DRONES

- Inspect the buildings' exterior and look out for potential hazards such as cracks, falling objects from roof gutters and water leaks.
- Patrol hospital premises, especially in the evenings and nights with fewer security officers on duty.



## TOUCH-FREE BUTTONS IN LIFTS

- Prevent the spread of bacteria and viruses.
- Will be installed in lifts frequented by patients and visitors.



## CONCIERGE AND SECURITY ROBOT

- Scan SafeEntry check-ins and record temperature.
- Alert security officers during emergencies.
- Detect visitors or patients without masks and prevent them from entering.
- Detect breach in safe distancing.
- Play audio messages such as greetings or advisories.
- Patrol places with high human traffic, such as the link bridge that connects Ng Teng Fong General Hospital's Tower A and Tower B.

## SECURITY ROBOT

- Patrol National University Hospital (from November).
- Detect suspicious activities such as crowding, fights and bags left unattended.
- Alert security officers during emergencies.
- Detect breach in safe distancing.
- Identify people who need assistance (wheelchair, fall) and alert security officers.



## INTERNET OF THINGS SENSORS AND THERMAL SENSORS

- Prevent flooding and wastewater overflow.
- Prevent temperature-related damage such as fires and thermal shutdown.
- If sensor detects rising water levels, facility management staff will be alerted via SMS.

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STRAITS TIMES GRAPHICS:  
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