

HOSPITAL OPERATIONS IN GOOD HEALTH

Victorian Comprehensive Cancer Centre
optimises facility performance with a
little help from Honeywell, giving one
of the world's most advanced cancer
centres energy efficiency to match.

Case Study



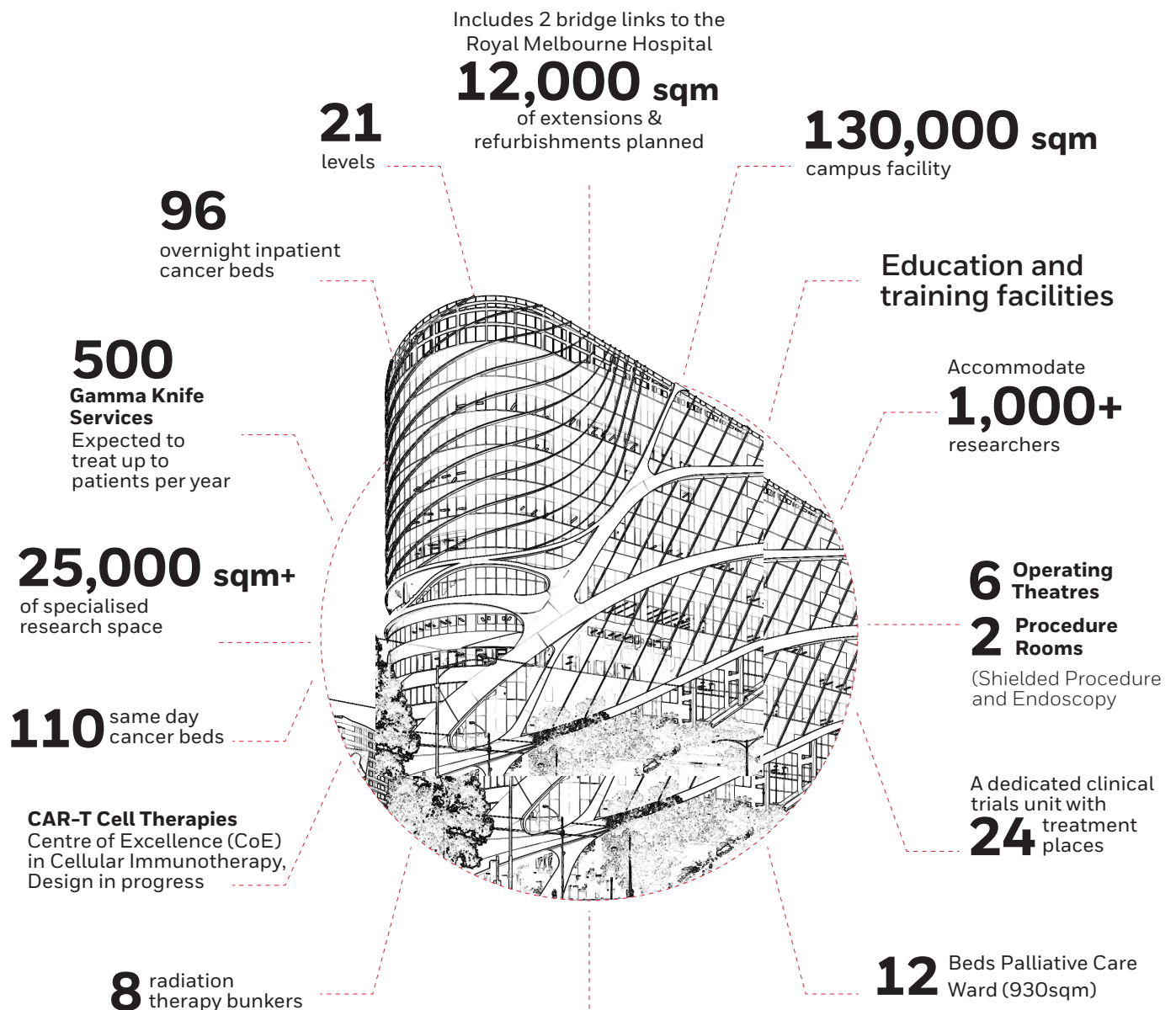
Honeywell

The Victorian Comprehensive Cancer Centre is a purpose-built centre-of-excellence for cancer research, treatment, education and care located in the prestigious Melbourne Biomedical Precinct, where Honeywell has been entrusted to implement and maintain a range of innovative facility management services.

The Victorian Comprehensive Cancer Centre (VCCC) is home to cancer research, clinical services and educational facilities for Peter MacCallum Cancer Centre, Melbourne Health and the University of Melbourne, and brings together seven additional leading cancer organisations to form the VCCC Alliance in a collaborative effort to focus on improving patient and research outcomes.

The Victorian Government contracted the Plenary Health Consortium – comprising Plenary Group, the Grocon PCL joint venture and Honeywell – to design, build, finance and maintain the project for 25 years under a public-private partnership.

QUICK FACTS – THE FACILITY



KEY DEPARTMENTS

Cancer Research | Centre for Blood Cell Therapies | Pathology
Pharmacy | Cyclotron | Radiopharmacy

THE NEEDS

Ensure operational effectiveness and alignment with the facility's business vision.

Empower a comfortable, responsive, and industry-compliant environment through smart and connected building solutions.

Seamlessly integrate innovative technologies with clinical systems – securing optimal asset usability and durability.

Maximise energy and cost savings, along with asset lifecycles.

Drive better building performance and energy consumption management, while maintaining a consistent level of comfort across the campus environment.

THE SOLUTION

Though Honeywell was contracted as the facility management subcontractor, early engagement throughout the technical review of the design enabled the facility management offering to be built upon best-in-class building automation. Throughout the 25-year contract, Honeywell takes on the role of delivering hard and soft facilities management services, and aiding the VCCC in its quest of driving the next generation of improvements in prevention, detection, and cancer treatment.

Given the contract for the maintenance and lifecycle works, the Honeywell team suggested the implementation of the integrated Building Management Control System (BMCS), that includes:

2 **Building Management Control Systems** and **Backup Systems** for each

85,000+
points in use

1 **Energy Manager System**

22,000+

points that can generate alarms through a smart, connected and responsive environment

1 **Security Management System** and **Backup System**

123 IPCs ComfortPoint Open controllers

SECURITY



Digital Video Manager

741

access card readers

1510

monitored doors and duress buttons

312

security cameras

138

intercom points

3RD PARTY INTEGRATED SYSTEM



24 Lifts



Wayfinder



Q-Flow (Queuing System)



Nurse Call System

Environmental Monitoring System (EMS), an independent monitoring system in addition to the Honeywell Building Management System, which supports facilities with accreditation requirements.



Digital Signage



IPTV

ASCOM messaging system to facilitate escalation workflow of alarms and internal communication between users.



Master Clock & Lighting Control

PERFORMANCE AND COMPLIANCE

The Honeywell helpdesk is manned by facility administrators supported by onsite security and Honeywell Service Net (HSN) after hours. The helpdesk processes an average of 1100 events per month (excluding planned), with each functional unit requiring varied internal response times depending on criticality.



Inpatient Units



Accredited Spaces

Cyclotron / MRI / Radiation / Pharmacy Robot / Brachy



Operating Theatres



Animal Facilities

OTHER



Medical Gas and Laboratory Gas



Building Partners with Royal Melbourne Hospital and University of Melbourne



COMMUNICATION

There are around 500 individual items of scientific or clinical equipment connected to the BMCS for monitoring and alarming purposes. The equipment is broken down into 40 separate User Groups (Facility Codes) that require notification from the BMCS through the FM Messaging System Alarming function – considering that it is crucial to follow the change management process and communicate any interruption immediately.

The management of Information and Communication Technology (ICT) integration with clinical systems is essential to ensure an easy-to-use system that offers a seamless user experience.



QUEUING

Queuing systems incorporate check-in stations and collect data from the hospital information system to enable patients to pre-register for their appointments.



WAYFINDING

Public Information Systems (PIS) and way finding systems consist of digital signage screens and interactive kiosks.



IPTV SYSTEMS

Placed at bedside terminals to provide entertainment for patients, including free to air digital TV, radio, and the Facility's internal broadcast channels over the ICT network infrastructure.

As the facilities management subcontractor, Honeywell manages the building with the well-being of the patients and the staff in mind – responds to requests for service, tracks and reports their performance, continually improves in every area, and aims to hand back the facility to the Victorian Government in good order and condition at the end of the 25-year operating term.

THE BENEFITS

- Seamless integration of building solutions enable VCCC accreditation of critical facility functions, including Pharmacy Manufacturing, GMO Works, Hospital Accreditation, Cleaning and Maintenance Standards for Hospitals, Quarantine Imports, and Animal Welfare.
- Honeywell BMS controls empower a comfortable, efficient, and compliant environment, with improved responsiveness and control.
- Improved energy savings and extension of asset lifecycles through mechanical controls that automatically adjust temperature and humidity levels.
- Well-managed services and assets using the Honeywell Building Information Model (BIM), which plans future upgrades based on precise site data.
- On-site support from the Honeywell Total Asset Management Team, which provides guidance on optimal use of the BIM, including how to capture and model data for decisions on asset lifecycles.
- Potential issues are identified early, before escalation, reducing clinical waste and operational disruptions.
- Improved building performance and energy consumption, thanks to Honeywell Connected Services.
- Improved connectivity and productivity via third-party integration with the Ascom Facility Management Messaging system.
- Better resource deployment and better personnel-patient interactions using the Nurse Call system.

For more information

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FUTURE
IS
WHAT
WE
MAKE IT

Honeywell