



THE CONCOURSE
Chatswood

THE CONCOURSE CHATSWOOD

PROJECT DETAILS:

Location	Chatswood, Sydney NSW, Australia
Type of Building	Civic Centre
Investor	Willoughby City Council
Architect	Francis-Jones Morehen Thorp
Builder	AW Edwards
Electrical Consultant	Lincolne Scott
Electrical Contractor	Stowe Australia

ABOUT THE BUILDING

Opened in September 2011, The Concourse is an innovative civic building precinct designed with a clear focus on sustainability and user comfort.

Located on a 14,000m² site in the heart of Chatswood's CBD the building has been designed to operate with minimal water and energy consumption and houses a 5,000m² library, a 1,000 seat concert hall, 500 seat theatre as well as art and outdoor open spaces.

This multi-award winning building uses a combination of passive design elements, energy efficient heating, ventilation and air conditioning systems and a high performance lighting control solution by mySmart. Due to the different operating requirements the lighting control solution is optimised to each of the unique spaces. Faced with this challenge the mySmart team chose a platform based around a C-Bus operating system. This gives a lighting control solution that allows easy accessibility, versatility and tremendous reliability.

mySmart is immensely proud to be associated with such a project, one that redefines the performance of civic buildings throughout Australia.

THE CONCOURSE AT THE HEART OF CHATSWOOD



LIGHT CONTROL

The lighting control system utilises a Clipsal C-Bus microprocessor based control system incorporating relay and dimmer units, touch screens, switches, sensors and interfaces to automatically control various forms of lighting throughout the precinct. The structure of the lighting control system incorporates nine areas or zones that are interconnected on an Ethernet based network with central control and management via a dedicated PC in order to provide maximum end-user flexibility.

LIBRARY

Key to the configuration of the library is ensuring the balance of natural and artificial light is correct to ensure user comfort. With high levels of natural light included as part of the architect's design it would be very easy to have too much artificial lighting in perimeter areas thus wasting energy. To ensure correct lighting levels are maintained light level sensors are strategically placed around the perimeter to manage daylight harvesting. Lights in the perimeter areas are programmed to dim below 50% of full power level.

All other functions in the main library space are controlled via touch screens, timer schedules stored in the Head End software and movement sensors for after hours control in open areas.

THEATRE AND CONCERT HALL

Due to the need for lighting in the Theatre and Concert Hall to be operated by the C-Bus system and a performance lighting desk, a solution utilising C-Bus Architectural Dimmers and Colour Touch Screens has been implemented.

The Architectural Dimmer allows control by the lighting desk via DMX when performance mode has been selected. At all other times lighting scenes are activated through the colour touch screens. The touch screens include the selection and adjustment of pre-set or created scenes combining different house light circuits, comprising;

- Dimmed fluorescent lighting through DSI dimmers
- Dimmed 'acoustically sensitive' lighting through Sine Wave Dimmers
- Feature optic fibre wall panel lighting through Sine Wave Dimmers
- Aisle seat and LED feature lighting switched through C-Bus relays

Foyer areas are controlled via pre-set or programmed scenes activated via the touch screen with movement sensors for outside of event hours.

EXTERNAL LIGHTING

External lighting around the precinct is controlled using an automatic seven day time schedule activated by the Lighting Control PC. Each area has a separate time schedule whilst sunset, sunrise and any required fixed times may activate these events.

Additionally light level sensors are located around the building to activate lights outside of pre-set times if required.

FOYER AND ART SPACE

As one of the signature areas of the building the foyer and art space utilises a series of touch screens activating programmed scenes as well as time scheduled events. These pre-sets can all be adjusted via the touch screens.



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EMERGENCY LIGHTING

Emergency lighting controls throughout the building are linked to the EWIS network. On activation lighting levels will increase to maximum regardless of the scene currently in operation. The EWIS and House Lighting Emergency Override mushroom pushbutton switches work in tandem to activate and deactivate the emergency lighting.

CAR PARK

Located underground in the basement the car park lighting control is designed to use sensors to ensure drivers can safely enter, navigate and exit the carpark. Sensors are used to ensure that light levels in the car park are aligned to the ambient external light levels assisting the vision of entering drivers.

Motion sensors and infra-red beams are used throughout the car park to ensure that only lights in the areas of the car park being trafficked are active. These are on a timer function to further reduce the amount of energy used for lighting in the car park whilst ensuring safety of users.

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mySmart is an Australian company at the forefront of creating intelligent environments across a wide range of sectors from smart buildings to smart agriculture. Our solutions are customer centric and incorporate innovative technologies and the latest sensor design, control, functionality and analytics.

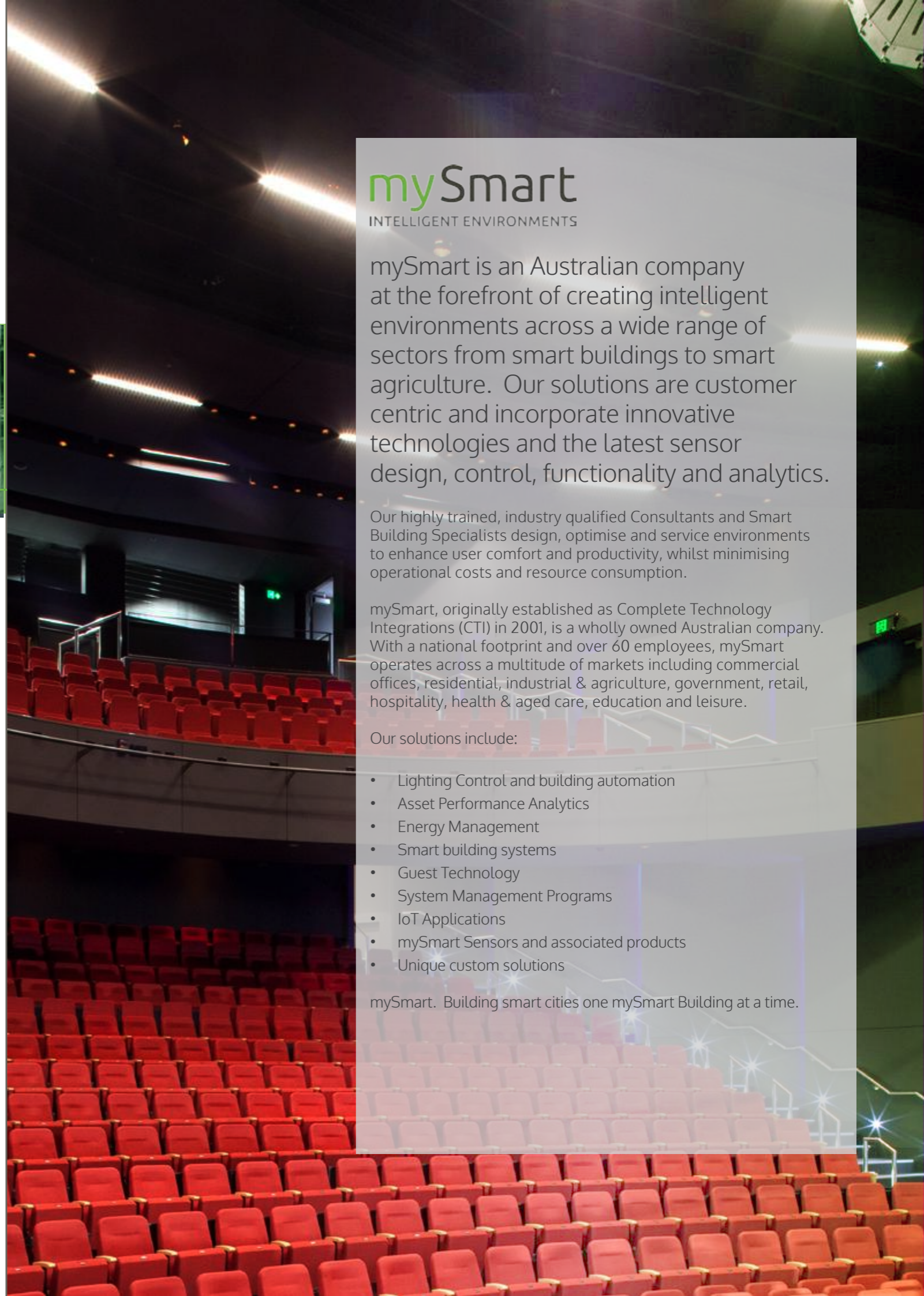
Our highly trained, industry qualified Consultants and Smart Building Specialists design, optimise and service environments to enhance user comfort and productivity, whilst minimising operational costs and resource consumption.

mySmart, originally established as Complete Technology Integrations (CTI) in 2001, is a wholly owned Australian company. With a national footprint and over 60 employees, mySmart operates across a multitude of markets including commercial offices, residential, industrial & agriculture, government, retail, hospitality, health & aged care, education and leisure.

Our solutions include:

- Lighting Control and building automation
- Asset Performance Analytics
- Energy Management
- Smart building systems
- Guest Technology
- System Management Programs
- IoT Applications
- mySmart Sensors and associated products
- Unique custom solutions

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