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# Design to engage, excite and inspire

## Stadiums Capability Statement

Buildings | Australia & New Zealand







## A community of experts

**Stantec's global network of designers, engineers, scientists and project managers work together at the intersection of community, creativity and client relationships. Careful balancing of these priorities results in projects that advance the quality of life in communities across the globe.**

But wherever Stantec is located it is our local teams who have the skills, experience and knowledge to drive the projects in their own back yards. In Australia and New Zealand (ANZ), our local offices of award-winning multi-disciplinary engineers have been helping both private and government clients build communities for over 60 years.

Our people have long-standing client relationships and are inspired to advance the communities in which they live, delivering cost-effective, quality consultancy services.

Whether we're partnering with clients to design a hospital or mixed-use development, a research facility or industrial park, an education campus or airport, we design with community in mind because we believe in the **power of places to transform lives, to meet the needs of a community today, to help fulfil its potential tomorrow.**

Our global business

25K

Employees

400+

Locations

6

Continents

### #01

**From start to finish.** Our team leaders continue to manage the projects for which they tender, right through to completion. Change in team management causes delays and undermines a project's stability and design direction. Continuity is more conducive to achieving your goals within programme and budget.

### #02

**Value-adding innovation.** Stantec's Creativity & Innovation program encourages our global network of engineers to develop tools, processes and technology. These creative ideas might save time at the design stages of a project, reducing client costs. Others offer powerful marketing potential for stakeholder engagement. Celebrating our best ideas with investment means they are fully developed to benefit all our clients and communities, wherever they may be.

### #03

**The right experience.** From research stations in Antarctica to solar projects in rural Australia. From bespoke luxury residences to affordable high-rise apartments. From stadiums to play parks... and everything imaginable in between. We have the right skillsets to help you achieve your construction goals.

### #04

**Focus on buildability.** Engaging with engineers in the early stages can save time and money in the long-term. Pragmatic spatial considerations, site-appropriate construction methods, informed materials selection, compliance with legislation and consideration of the operational environment. Our advice gives reassurance to stakeholders, boards and financiers that all factors have been fully considered.

### #05

**We're at the right tables.** Our people are active proponents within Australia's property industry, seeking positive change on behalf of their communities. The influential tables at which we sit include the Urban Development Institute of Australia, the Property Council of Australia, Consult Australia and Green Building Council of Australia.





**We don't just say we deliver outstanding solutions and client service. We prove it.**

Stantec has been recognised numerous times at the independently assessed Beaton Client Choice Awards in Australia and New Zealand.

**2022 Beaton Client Choice Awards Winner:**

- Best Provider to Property

**2019 Beaton Client Choice Awards Winner:**

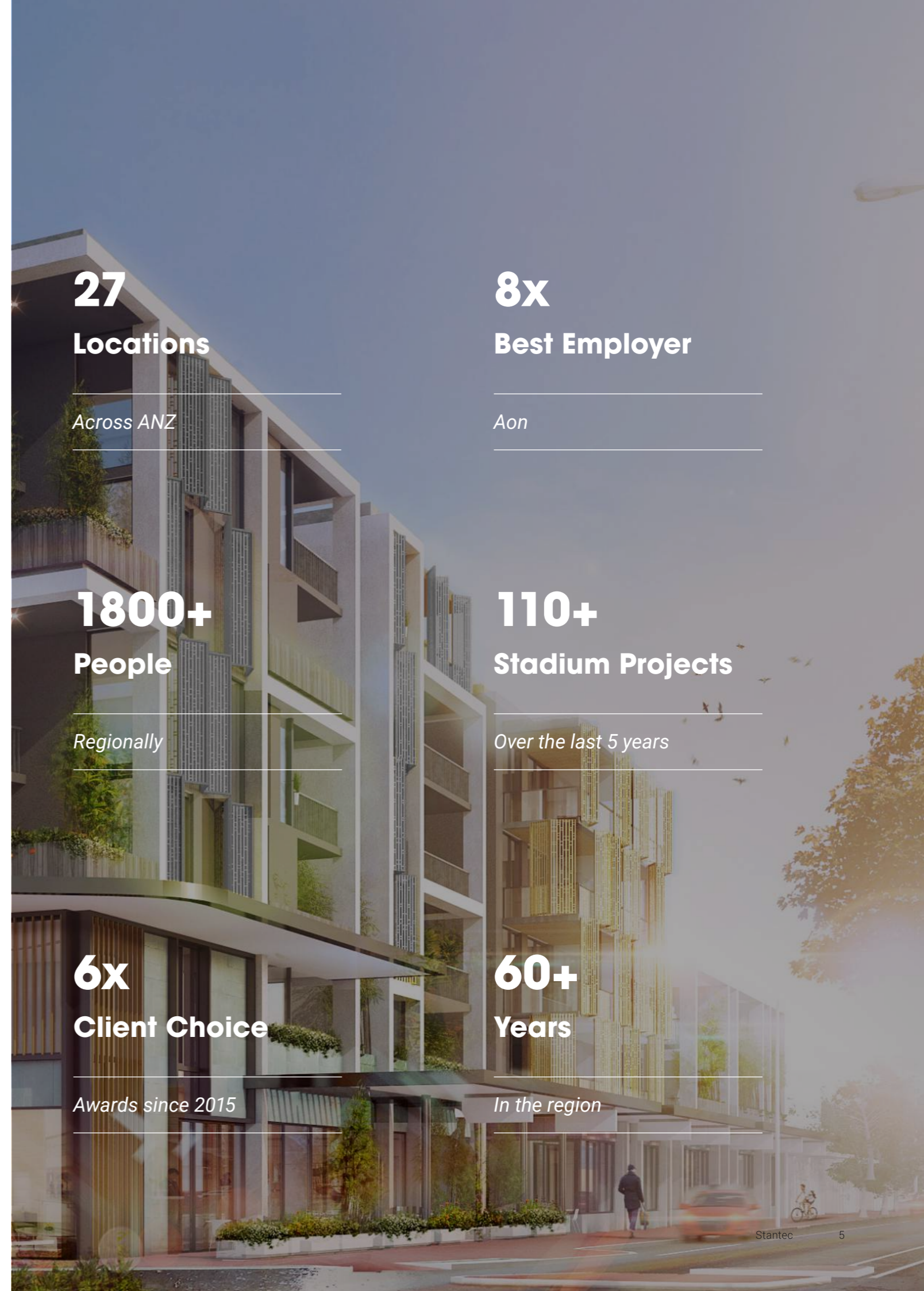
- Most Client Focused Consulting Engineer

**2017 Beaton Client Choice Awards Winner:**

- Best Consulting Engineering Firm (revenue \$50m-\$200m)

**2016 Beaton Client Choice Awards Winner:**

- Best Provider to Property Sector



**27**  
**Locations**

*Across ANZ*

**8x**  
**Best Employer**

*Aon*

**1800+**  
**People**

*Regionally*

**110+**  
**Stadium Projects**

*Over the last 5 years*

**6x**  
**Client Choice**

*Awards since 2015*

**60+**  
**Years**

*In the region*



# We put the audience in the box seat

## We're a nation that loves our downtime

If we're not at home entertaining family and friends, we're out entertaining ourselves – whether it be indulging in art and culture, exploring the outdoors, or cheering on our favourite sports team.

Entertainment is what Australians do well and it's what Stantec loves to do.

Our experienced and widely qualified engineers are experts at building entertainment facilities – including state-of-the-art stadiums.

Our focus is on the 'fan first' experience in every venue we work on. Using the latest technology and green initiatives has allowed us to be proudly involved with some of Australia's greatest venues, including Hobart's Blundstone Arena, the new Optus Stadium in Perth, and the redevelopment of Western Sydney Stadium.

Our role as engineers is to design fully compliant services that always contribute to the overall experience of every user. We understand that the building plays only a small part of the experience and that in reality it must enhance, not interfere with, the performance.

It's the entertainment itself that matters most.



"Understanding the requirements of stakeholders is the key to success for every project. For stadium developments, it's imperative to talk to the very people who create the entertainment, including fan representatives, players, staff and venue management.

The outcomes of the interactive and innovative thinking will give your whole development team a fresh perspective to deliver a truly world class entertainment venue to be proud of."

Rowan Stokes,  
Structural Section Manager, Australian  
Discipline Leader,  
Principal



Marvel Stadium (Previously Etihad Stadium), Melbourne Victoria, Australia





## HBF Park

**Enhancing the fan experience.**

**Project value:**  
\$95 million

**Completion:**  
2017

The Stage 1 redevelopment of Perth's nib Stadium was completed in 2013, with Stantec providing design and documentation for electrical, hydraulic, mechanical and sustainability components.

The development included:

- A new east stand with undercover and corporate seating
- A new south stand
- New ticketing, retail, beverage, catering and merchandise outlets
- Two permanent big screens, four pitch floor lights and LED signage along the east perimeter
- Toilet blocks

- Additional seating in the north stand
- New power substation and control room
- Extensive CCTV coverage, AV/PA, video and communication systems

Working closely with various stakeholders, Stantec were able to design the stadium to suit modern facility requirements. Some features of the design include a common services trench throughout the concourse to maximise the efficiency of site ground works and integrated services metering to ensure full and accurate reporting of utility usage.

Stantec provided coordinated Building Information Modelling (BIM) MEP models throughout the project's design phase through to construction documentation, providing benefits of coordination, live dynamic, intelligent design and, importantly, a new method of communication that brought together this fantastic team and exceptional stadium structure.



## RAC Arena (formally known as Perth Arena)

**Project value:**  
\$550 million

**Completion:**  
2012

A world class facility in the heart of the CBD, RAC Arena can host a range of musical, cultural and sporting events due to the agile nature of the building – it provides a minimum of 12,000 seats for sporting events and 14,000 for concerts.

Stantec provided civil engineering services incorporating an \$8 million forward works remediation and services diversions package.

The inner city project incorporated a number of challenging engineering factors including drainage treatment, remediation, bulk earthworks and service diversion.





## Optus Stadium

**The multi-purpose 60,000-seat Optus Stadium is a world-class venue, with Stantec providing design and documentation for the electrical, fire engineering, fire protection, mechanical, sustainability, technology and vertical transportation components of the project.**

The commitment to a 'fans first' stadium resulted in an innovative design ensuring an exceptional event atmosphere and home ground advantage that can only be experienced by being there.

**Project value:**  
\$700 million

**Completion:**  
2018

Key design and 'fans first' features include:

- Future-proofed stadium technology, including full 4G WiFi coverage across the stadium and sports precinct
- The widest range of seating and hospitality options of any stadium in Australia, which has been designed to increase within the existing structure, adding up to 10,000 additional seats
- The unique bronze façade uses anodised aluminium, which reflects WA's unique geology by day and, by using state-of-the-art LED lighting, home team colours by night
- The seating bowl maximises the atmosphere, giving fans exceptional views and bringing them closer to the action
- The lightweight fabric roof covers 85% of seats and responds to Perth's climatic conditions. At night, it presents a spectacular glowing halo effect

The design acknowledges Western Australia's unique sporting, cultural and Aboriginal heritage and the sports precinct landscape provides a spectacular vista across the Swan River to the CBD.





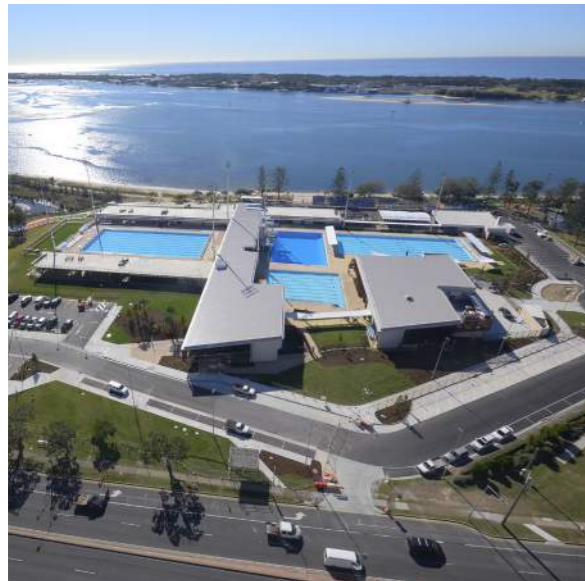
### Eagle Farm Racecourse

Stantec's Brisbane office designed and installed electrical infrastructure to power the biggest LED screen in the southern hemisphere at Brisbane's Eagle Farm Racecourse. Spanning 44m and reaching 12m in height, the screen requires 220 amps of three-phase power at full load – equivalent to 30 small-to-medium sized homes.

The Daktronics screens were imported from the United

States and are made up of 3,600 high definition LED modules with a fibre optic link to a head-end communications rack. The screen forms part of the site-wide redevelopment with Stantec providing electrical, fire engineering, fire protection, hydraulics and mechanical services to the project.

**Project value:** Undisclosed  
**Completion:** 2016



### Gold Coast Aquatic Centre

An official venue of the 2018 Gold Coast Commonwealth Games, the Gold Coast Aquatic Centre has a capacity of 10,000 seated spectators.

Stantec provided acoustic and fire engineering services to the project, which comprises of a new 10-lane 50m international competition pool, new hydrotherapy and program pools, new club, café, amenities and gymnasium facilities, and the refurbishment of the

existing diving pool and the existing 50m pool.

The complex was awarded both "Building of the Year" and "People's Choice Award" at the 2015 Gold Coast and Northern Rivers Architecture Awards.

**Project value:** \$50 million  
**Completion:** 2018

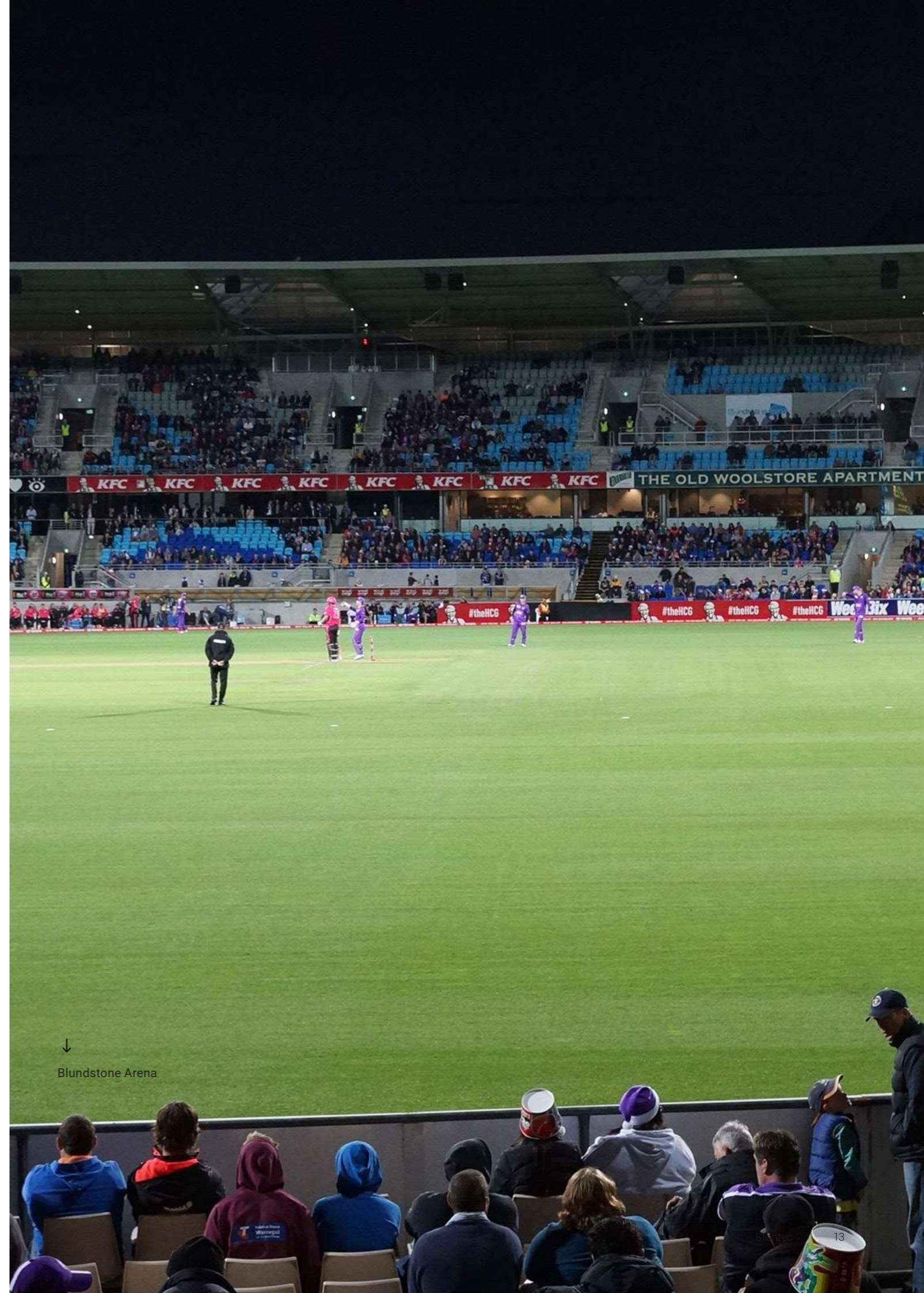


### Bankwest Stadium

This project involves a complete stadium redevelopment after it was originally announced. The Stadium (formerly Pirtek Stadium) was to increase the seating capacity and facilities of the west stand only. Since then and following NSW Government-commissioned reviews, funding was secured to improve the overall stadium and facilities, including increasing overall seating capacity.

Stantec has been engaged to write the technical functional brief for the redevelopment, which included reviewing previous documentation and case study work.

**Project value:** \$300 million  
**Completion:** 2019







## Blundstone Arena

**Project value:**  
\$30 million

**Completion:**  
2015

Hobart's Blundstone Arena has a longstanding tradition of hosting international and domestic cricket; however, more recently, AFL fixtures have also added to the range of sports being hosted at the venue. With the increased demand for quality seating, together with the much anticipated ICC World Cup, Cricket Tasmania added a new 5,000 seat boutique grandstand on the western side of the ground.

Stantec worked closely with all stakeholders to deliver the new Ricky Ponting stand, which houses state-of-the-art facilities, including a warm-up area complete with public viewing areas, flexible change room facilities and corporate hospitality provisions. In addition to the game day facilities, the Ricky Ponting stand also houses Cricket Tasmania's new headquarters.

With a strong underlying sustainable approach and

utilising full 3 dimensional documentation, the new stand is impressive in more ways than one.

Stantec designed the upgraded CCTV and public address systems, with particular consideration for the stadium acoustics. Stantec also provided the fire engineering for the project designing cutting edge evacuation modelling throughout the new and existing stands.



**Project value:**  
Undisclosed

**Completion:**  
2011

## Etihad Stadium (Marvel Stadium)

This project at Melbourne's Docklands consisted of a complete review and assessment of the condition, maintenance and lifecycle of all elements of the stadium, as well as development of a sinking fund financial model based on a 25+25-year operational life. Stantec's initial task was to develop an asset management policy, framework and plan to be used as the guiding principles for the overall review. This followed with the development of the sinking fund financial model to ensure that the stadium remained a state-of-the-art premium facility for sports, music and cultural events.

The review highlighted the critical nature of the infrastructure, including electrical

supply, lighting and audio visual facilities, to ensure operations were not interrupted. Reporting, operational and maintenance practices were formalised and improved to ensure critical plant, equipment and facilities remained serviceable in the event of external failures, emergencies and when under high demand. The revised procedures also covered statutory requirements for operations and maintenance.

Lifecycle replacements were reviewed in the light of both condition of equipment and the need to remain at the leading edge of technology for sporting venues and broadcasting. The plan also guaranteed the operator met obligations to ensure the stadium would be handed back to the Stadium Trust in 2025 in a suitable condition to operate for an additional 25 years.





# Project delivery and offering

## Buildings ANZ project coordination

No matter what the project, no matter what your needs are, we have the team to help make it happen.

A Stantec Project Engineer will be:

- Responsible for ensuring cohesive team delivery
- The first point of contact for the client

### What does this mean for our clients?

Not only will you receive the very best from all Stantec consultants, you will receive seamless design integration across all Stantec disciplines. This will result in identifying and minimising scope-gap, cost or programme risks.



PROJECT DISCIPLINES





# Working together

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.



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