
Building the future, piece by piece

Modular 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 independent Financial Review Client Choice Awards (Australia & New Zealand).

2019 Financial Review Client Choice Awards Winner:

- Most Client Focused Consulting Engineer

2017 Financial Review Client Choice Awards Winner:

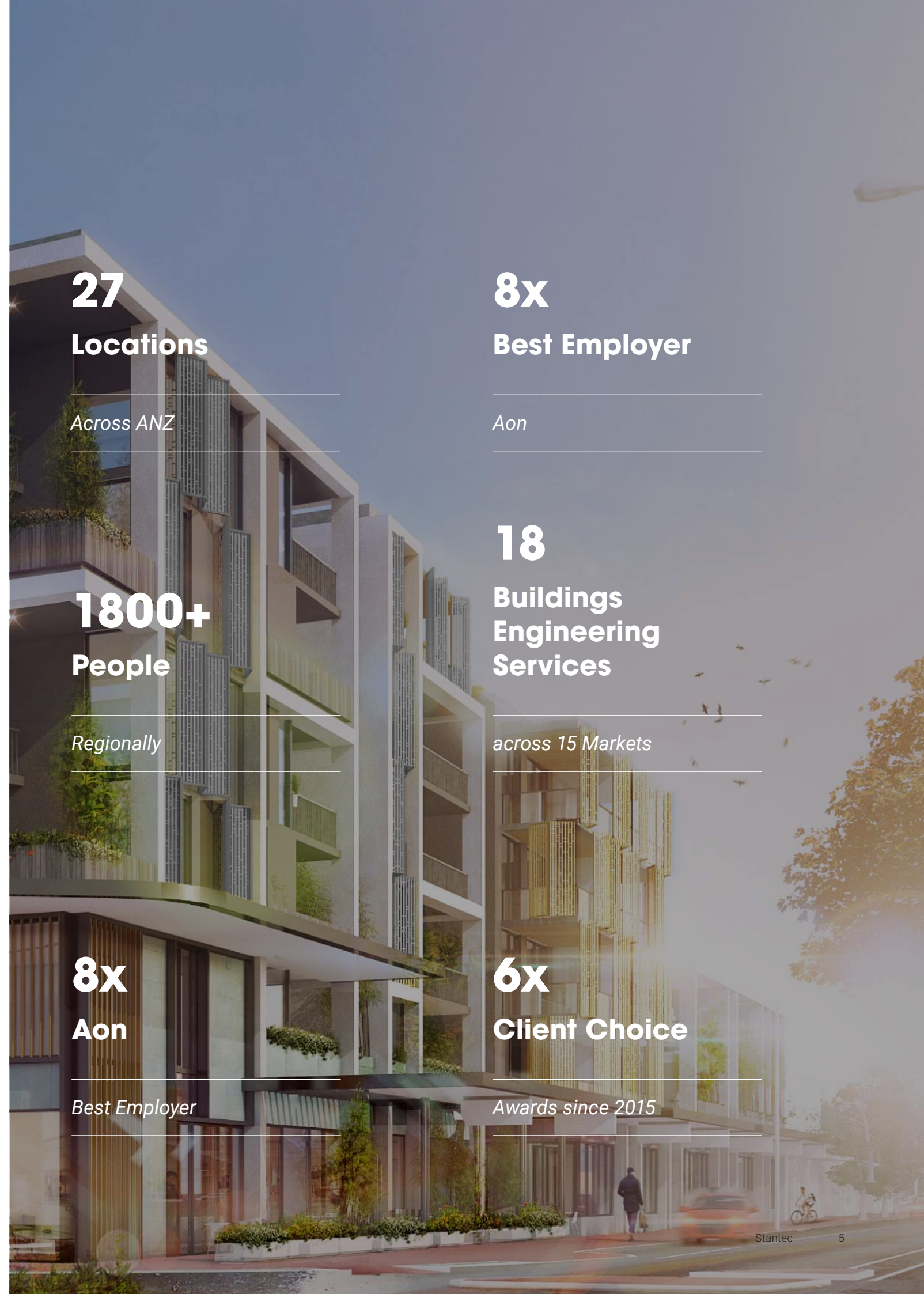
- Best Consulting Engineering Firm (revenue \$50m-\$200m)

2016 Financial Review Client Choice Awards Winner:

- Best Provider to Property Sector

2015 Financial Review Client Choice Awards Winner:

- Best Consulting Engineering Firm (revenue \$50m-200m)
- Best WA Firm
- Most Client Focused Consulting Engineer



27
Locations

Across ANZ

8x
Best Employer

Aon

1800+
People

Regionally

18
Buildings Engineering Services

across 15 Markets

8x
Aon

Best Employer

6x
Client Choice

Awards since 2015

Modular Construction

WHY CLIENTS GO MODULAR

Projects are completed with potential cost savings, reduced program time, less overall waste, and opportunities for environmentally sustainable design and recycling.

MODULAR CONSTRUCTION BENEFITS:

- Improved health and safety performance on site through cleaner and safer building process
- Reduced overall build time, resulting in cost savings, reduced disruption to neighbouring residents and ensures faster return on investment
- Improved building performance and sustainability through thermal and environmental innovations
- High quality construction with improved quality assurance
- A greener outcome due to reduced waste during manufacturing process and on site
- Lighter construction with less cost in the foundations

Stantec have maintained a position of market leadership in modular and pre-fabricated construction, and are actively involved in the leadership of this industry.

We frequently work for and with many different modular manufacturer's for the delivery of modular projects.

WHAT DOES THE RESEARCH SAY?

- Programme (time) savings average 45%, range from 25% to 60% (reference: 2015 Off-Site Report, Modular Building Institute)
- 90% waste reduction through modular construction (reference: Waste Resources & Action Program)
- Up to 70% of buildings/building products are recycled at end of life (reference: Seiksui)





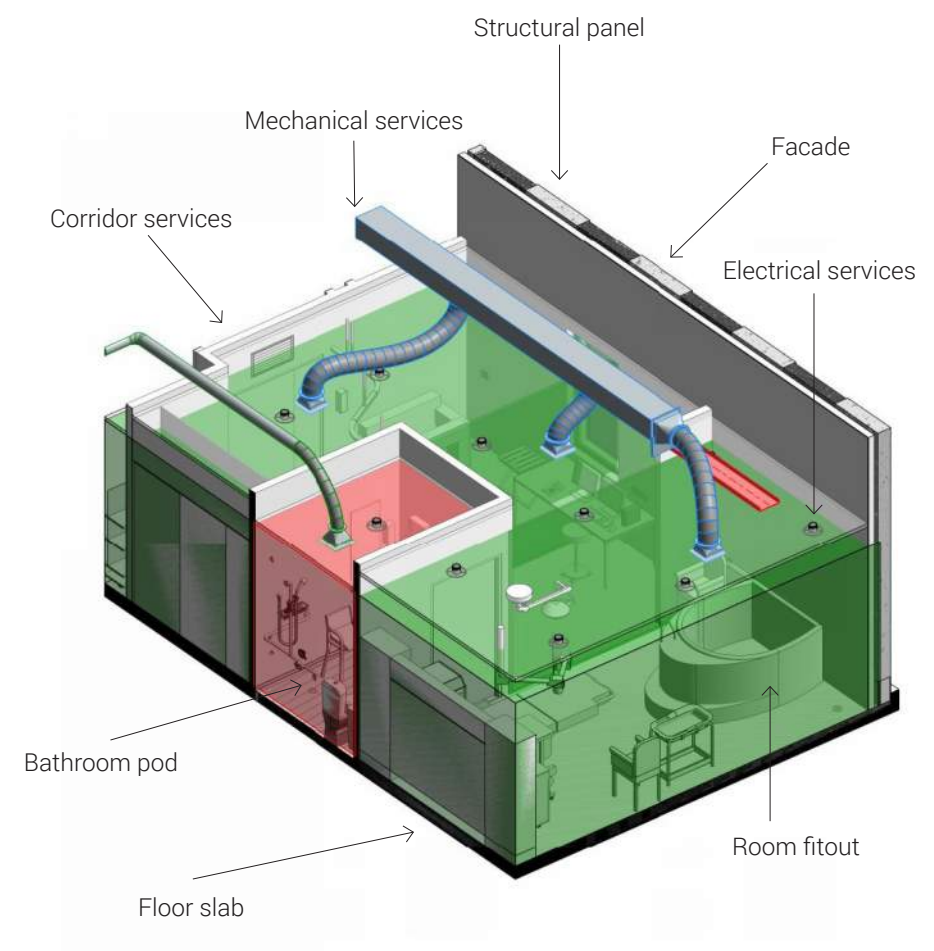
Spaces we are in

- Pod and pre-fab bathrooms and kitchens
- Cross-Laminated Timber (CLT)
- On and off-shore fabrication and manufacture
- Ensuring all modular elements are BCA compliant
- Fire engineering
- 3D printed concrete
- Pre-fabricated facades
- Modular foundations
- Unitary and elemental modular construction
- Transportable units

Cost & efficiency are two key factors driving construction projects – modular techniques help reduce cost and drive efficiency

A modular or pre-fabricated approach can be applied to all aspects of a build to deliver a superior and cost effective alternative to traditional building construction.

This is just an example of the innovative solutions that can be achieved through modular design.





Building the future

WHY STANTEC?

- We have a dedicated team of modular construction experts
- We understand the complexities around how to deliver a project that has been manufactured in one jurisdiction and constructed in another
- We understand the importance of needing to clearly detail delineations between on-site and modular works
- We have experience in dealing with modular projects constructed in Australia, China, and Thailand
- We are actively involved in steering the modular construction industry
- We ensure that your modular project is delivered with quality, speed and ease

INDUSTRY ENGAGEMENT

- We are a proud founding member of the Prefab Aus industry body
- We provide knowledge and expertise to the Modular Construction Codes Board
- John Lucchetti, Principal at Stantec is on the Board of Directors for Prefab Aus and is also a Member of the Modular Construction Codes Board

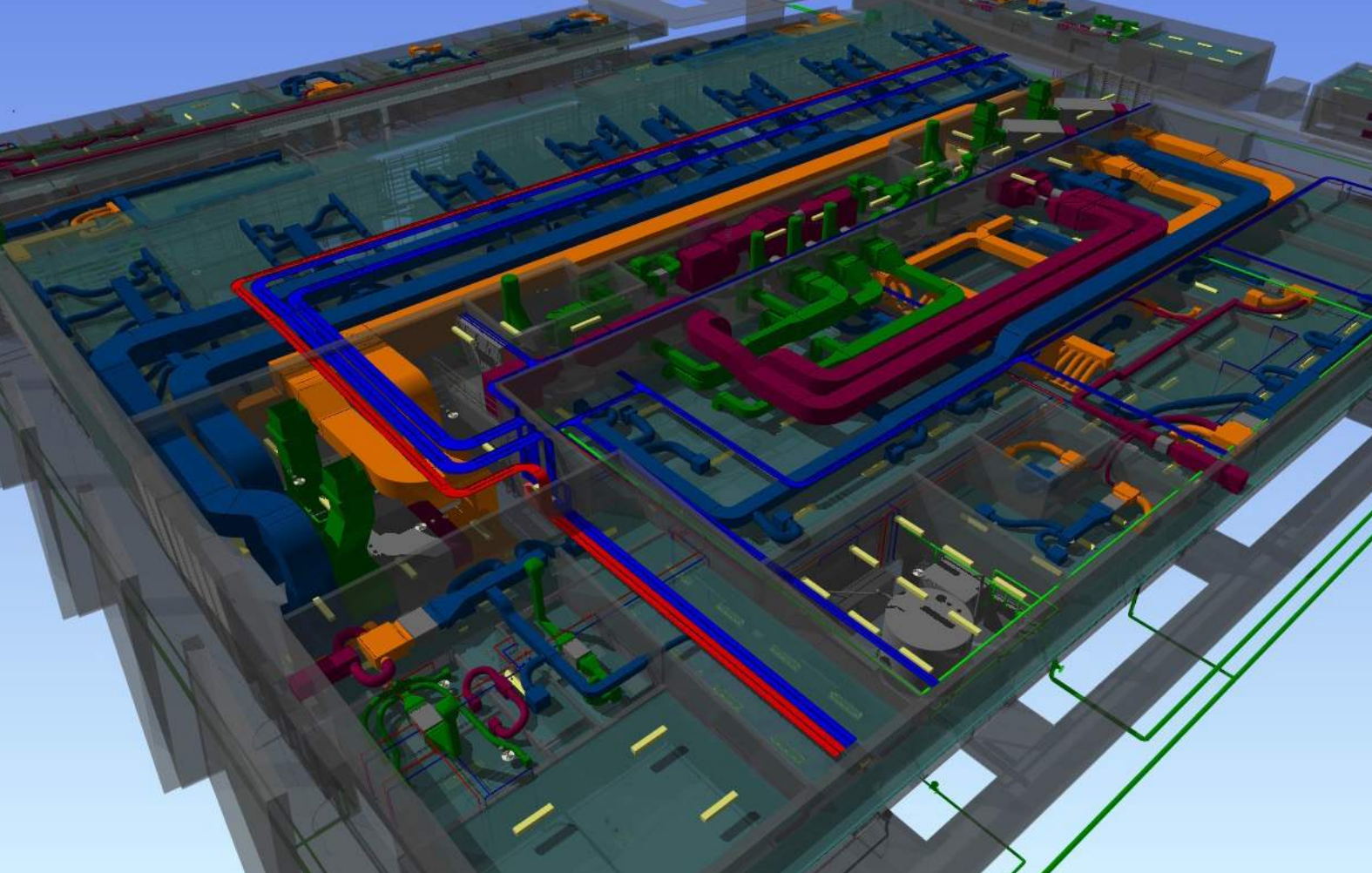
Our teams are focused on discovering opportunities to improve technology and construction methodology.

THE FUTURE OF MODULAR

CONSTRUCTION

- Modular construction allows clients to unlock otherwise unaffordable projects
- Additive manufacturing and 3D printing are emerging technologies that offer exciting possible applications in construction
- Flat pack solutions seek to simplify the construction process, making it quicker and safer
- Increasing modernisation of the prefabricated and modular construction industry will see rapid future developments
- Alignment of industry and government will further drive development and growth of modular construction

- Offshore manufacture of bespoke modules will become a cost effective solution for modular projects
- Increased use of innovative building materials such as waffle pods, bubble deck, pre-stressed and pre-cast concrete floors, smarter glazing products, expanded polystyrene building insulation, cross-laminated timber and carbon fibre reinforced plastic
- Exciting new possibilities with BIM and OpenBIM



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.



Connect with us



stantec.com/australia