Boeing Australia, New Zealand and South Pacific

Boeing is unique in the Australian aerospace industry. Boeing’s history, presence, mix of commercial and defence business, original research and development activities and supplier network form the basis of a strong partnership with Australia.

Boeing Australia represents the company’s largest operational footprint outside the United States and the broadest portfolio of products and services in Australian aerospace. With more than 3,000 employees at 38 locations and a heritage stretching back over 90 years, Boeing plays an integral role in Australia’s aerospace and defence industry.

Boeing has field service representatives located in Adelaide, Brisbane, Sydney, Melbourne and Auckland that help customers get the most from their Boeing airplanes and optimize their operations.

Boeing’s Australian businesses:

- **Boeing Australia Holdings, Ltd.** Established in 2002 and headquartered in Sydney.
- **Boeing Aerostructures Australia.** Australia’s largest manufacturer of complex aerostructures, Boeing Aerostructures Australia produces components including the moveable trailing edge control surfaces for Boeing’s 737, 747, 777 and 787 airplanes.
- **Boeing Defence Australia.** One of Australia’s leading defence companies, Boeing Defence Australia specializes in the support, maintenance, modification and upgrade of defence platforms and provides communications, training and logistics.
- **Boeing Training & Professional Services Australia.** A world-class provider of commercial flight and technical training to domestic and international airlines.
- **Aviall Australia.** A leading supply-chain management provider of new aviation parts and aftermarket services that distributes products to aerospace and defence customers.
- **Insitu Pacific.** A provider of unmanned aerial systems for commercial and military applications. Its Brisbane office acts as the regional headquarters for the Asia-Pacific region.

Boeing also strengthens the Australian economy. In September 2017, Boeing issued an economic impact report summary based on data prepared by BIS Oxford Economics. It showed that in 2016, Boeing generated nearly AU$1.3 billion for the Australian economy, supported more than 9,300 Australian jobs (directly and indirectly) and invested AU$47 million in Australian research and development activities.
Boeing Commercial Airplanes

The Asia-Pacific market is a dynamic region that makes up more than half the world’s population. This growing region has been a critical market for Commercial Airplanes for many decades. Boeing forecasts that by 2037, the region will need 16,930 new airplanes with a total market value of US$2,670 billion.

Commercial Airplanes opened its Australian support office in 1959 and continues to have a strong presence and relationship with airlines in the region.

Airlines

In 1956, Qantas became the first international customer for the Boeing 707. Since then, Qantas Group, including Jetstar, has ordered hundreds of Boeing airplanes including the 747, 767, 717, 737 Classic and Next-Generation and 787 Dreamliner.

Under the Virgin Blue brand, Virgin Australia domestic services were launched in 2000. Today, the airline operates Next-Generation 737s and 777-300ERs (Extended Range). In 2012, Virgin Australia became the first Australian airline to order the 737 MAX. In July 2014, Boeing and Air New Zealand celebrated the delivery of the first 787-9 Dreamliner. Air New Zealand operates 777-200ERs, 777-300ERs, and 787-9s. In April 2015, Air Tahiti Nui finalized an order for two 787-9s. In December 2018, Fiji Airways became the first MAX operator in the Oceania region when it took delivery of a 737 MAX 8.

Suppliers

Boeing Aerostructures Australia (BAA) employs more than 1,000 people at Fisherman’s Bend in Melbourne. Boeing Aerostructures Australia is Australia’s only designer and manufacturer of structural composite components for Boeing’s commercial airplanes. Its core capabilities cover design, test, certification and manufacture of advanced structures for commercial airplanes. As a Tier 1 partner to the 787 program, BAA is the sole source supplier of 787 moveable trailing edges, comprising an inboard flap, flaperon, outboard flap and aileron. The 787 contract is Australia’s largest aerospace contract.

BAA also produces sole-source flight control surfaces such as 737 ailerons, 747 moveable leading edges, and 777 cove lip doors, elevators and rudders. BAA Engineering is supporting 777X and 737 MAX development work with teams located in both Puget Sound and Melbourne, and the site took on a work package to produce 737 MAX winglets.

BAA exports 100 percent of its products to Boeing final assembly sites in the United States.

The unit’s capabilities include design and analysis, materials and process technology, testing, structural bonding, traditional composite pre preg, resin infusion, nondestructive testing, automated trim and drill assembly and paint. BAA’s capabilities at Fisherman’s Bend are complemented by the on-site support of Boeing Research and Technology—Australia, engaging in advanced composite and automation programs.
Boeing Training & Professional Services Australia (BT&PS) offers flight and technical training to airlines. Boeing operates five full-flight simulators and one fixed-base training device at a US$45 million Brisbane training campus in partnership with Virgin Australia and provides training for Boeing 717, Next-Generation 737 and 777 aircraft. In Melbourne, BT&PS partners with Ansett Aviation Training and focuses on Next-Generation 737 and Airbus A320 training. BT&PS also provides pilot training on the Wedgetail aircraft in Williamtown.

Key Jeppesen Australia customers have included the Civil Aviation Safety Authority, Air Services Australia, the Royal Australian Air Force, Qantas and Virgin Australia.

Aviall Australia is a subsidiary of U.S.-based Aviall, a leading supply-chain management provider of new aviation parts and aftermarket services that distributes products to aerospace and defence customers.

Boeing Defense, Space & Security

Boeing Defense, Space & Security is committed to providing innovative and affordable platforms, services and Command, Control, Communications, Computers and Intelligence, Surveillance and Reconnaissance (C4ISR) solutions for defence forces.

Australian Defence Force

The Australian Defence Force has made a number of strategic acquisitions from Boeing over the years, including:

- Twelve Super Hornet EA-18G Growler electronic attack aircraft.
- Twenty-four F/A-18F Super Hornets and sustainment services.
- Seventy-one F/A-18 Classic Hornets.
- Twelve Poseidon P-8A aircraft.
- Five CH-47D Chinook helicopters.
- Ten CH-47F Chinook helicopters and sustainment services.
- Eight C-17 Globemaster III aircraft and sustainment services.
- Six Wedgetail Airborne Early Warning and Control aircraft and sustainment services.
- Two 737 Boeing Business Jets for VVIP transport.
- The Vigilare ground-based defence command and control system.
- The Modernized High Frequency Communications system.
- Harpoon Block II and JDAMs including JDAM Extended Range.
- Argon early warning/electronic support measures systems.
- The Insitu ScanEagle unmanned aircraft system.
Royal New Zealand Air Force

The Royal New Zealand Air Force (RNZAF) operates two 757-200 aircraft in a variety of roles. In August 2016, Boeing was awarded a contract to upgrade RNZAF’s fleet of six P-3K2 Orion anti-submarine and maritime surveillance aircraft with an undersea acoustics and intelligence technology to more effectively find, monitor and deter submarine threats. In July 2018, the New Zealand Government approved the acquisition of four P-8A Poseidon aircraft.

Boeing Defence Australia

Boeing Defence Australia (BDA) is based in Brisbane and has approximately 2,200 employees. It focuses on support, maintenance, modification and upgrade of Boeing and non-Boeing aircraft; military aircrew training design and delivery; and design, development and support of C4ISR solutions. Key programs include:

- **LAND 2072 Phase 2B Battlespace Communications System (Currawong).** BDA is supporting the Australian Defence Force’s goal of a modern, networked Army by providing an enhanced, integrated battlespace communication system to deployed Australian land forces. The solution will provide commanders with an increased level of situational awareness, command and control, and information sharing capability in theatre.

- **Helicopter Aircrew Training System.** Under this 25-year contract, BDA will deliver to the Australian Defence Force a modern helicopter training system that will support the next generation of Army and Navy aircrew transitioning to Australia’s future combat helicopters.

- **CH-47 delivery and operational maintenance support.** Located in Townsville, BDA manages the delivery and operational maintenance support of the Australian Army’s new fleet of seven CH-47F Chinook helicopters.

- **F/A-18 Classic Hornet deeper maintenance.** BDA conducts deeper-level maintenance activities on the RAAF’s fleet of F/A-18 Classic Hornet aircraft from RAAF Base Williamtown in New South Wales.

- **F/A-18 Super Hornet sustainment.** Under this contract, BDA manages various aspects of the Super Hornet weapons system including engineering, logistics, maintenance, operations support and capability upgrades.

- **P-8 training system support.** BDA is providing in-country support to Boeing’s Training Systems and Government Systems division for the installation and initial support of the P-8A Poseidon training devices being delivered as part of the Project Air 7000 Phase 2B, the RAAF program to acquire eight P-8A Poseidon aircraft.

- **Wedgetail In-Service Support.** This is a performance-based logistics contract for the sustainment of the Royal Australian Air Force’s E-7A Wedgetail fleet, under which BDA provides engineering, maintenance and supply chain services, and aircrew and maintenance training. Boeing Defence Australia will also support the global Boeing team in the United Kingdom and the United States in support of mission system development, ground support segments, and ground-based aircrew and maintenance training for the U.K. Royal Air Force, which contracted for five E-7 AEW&C aircraft in March 2019.
BDA also maintains the region’s leading concepts development and experimentation centre — the **Systems Analysis Laboratory** (SAL), located in Brisbane. The SAL provides a window into the wider Boeing organisation and investment in world-leading modelling and simulation technologies via the Phantom Works organisation. Phantom Works also supports a long-standing relationship with the **Defence Science and Technology Group** (DSTG) in Australia.

**Insitu Pacific**

Insitu Pacific, based in Brisbane, is a Boeing subsidiary. Insitu Pacific provides unmanned aircraft systems to Asia-Pacific customers such as the Japanese Ground Self-Defense Force, the Malaysian Armed Forces and the Republic of Singapore Navy. Insitu Pacific’s **ScanEagle** was deployed in support of Australian troops in Afghanistan, where it flew more than 40,000 combat hours.

Insitu Pacific is also exploring the use of unmanned aircraft systems applications in the commercial arena, such as agriculture, mining, oil and gas, monitoring of wildfires and marine mammals. In November 2017, Insitu Pacific announced a contract with Queensland Gas Company (QGC) to use the Insitu ScanEagle to inspect QGC’s gas wells, pipelines and processing facilities within Queensland in a first-of-its-kind program in Australia.

**Boeing Airpower Teaming System**

Reflecting the growing importance of autonomous systems and related R&D in Australia, on 1 March 2018, Boeing announced Australia will be home to the company’s largest autonomous systems development program outside of the United States following a new partnership agreement with the Queensland government.

In February 2019, Boeing announced its newest unmanned platform, the Boeing Airpower Teaming System, at the Avalon Airshow. Designed and engineered for global defence customers by Boeing Australia, the aircraft will complement and extend airborne missions through smart teaming with existing military aircraft.

**Boeing Research & Technology—Australia**

BR&T—Australia was established in early 2008 to support the future growth and profitability of the Boeing Australia businesses and the broader Boeing enterprise. BR&T—Australia maintains a balanced and focused portfolio measured against the following key success factors:

- Researching products and services transitioning into profitable Boeing Australia business units in a timely manner (*Performance & Productivity*).
- Working with local partners across the Australian Innovation System on highly collaborative and leveraged research programs (*Innovation and Growth*).
- Investing in the development of the next generation of in-country aerospace scientists and engineers (*Best Team and Talent*).
The BR&T–Australia research portfolio primarily supports the following Boeing Australia businesses:

- Boeing Aerostructures Australia
- Boeing Defence Australia
- Insitu Pacific
- Boeing Training & Professional Services

BR&T–Australia is the largest research investment for the company outside of the United States. It has world-class tech centres at Fishermans Bend in Melbourne (co-located with Boeing Aerostructures Australia) and in Brisbane (located at the University of Queensland with a few employees co-located at Boeing Training & Professional Services Australia).

Melbourne Tech Centre

BR&T–Australia’s most significant investment is through the Melbourne Tech Centre, which is delivering cost and productivity advantages to Boeing Aerostructures Australia. The Melbourne Tech Centre is leading the global research portfolio focused on low-cost, out-of-autoclave resin infusion composites:

- **Materials development.** Developing next-generation materials for resin-infused composites to meet targets for improved performance, rapid processing and reduced environmental impact.
- **Integrated structures.** Using resin-infused composites with a focus on reduced recurring cost and weight through parts count reduction and unitized architectures.
- **Light robotics.** Developing light robotics for manufacturing and repairs automation, including automated dry fibre layup, automated composite repairs for in-factory and in-service applications, and more ergonomic and productive manufacturing.

Brisbane Tech Centre

The BR&T–Australia Brisbane Tech Centre at the University of Queensland primarily supports Insitu Pacific, Boeing Training & Professional Services and Boeing Defence Australia. The Centre is pursuing the following research programs:

- **Human factors.** The application of advanced virtual reality, eye-tracking technology and biometric assessment to support more efficient and effective aircrew training.
- **Advanced autonomy.** Enabling commercial UAS operations in civilian airspace through certification of automated flight controls, development of appropriate regulations, wide-area multiband communications, sense-and-act technologies and mobile aircraft-tracking systems.
- **Live virtual constructive modeling & simulation.** Aimed at dramatically accelerating the creation and utilisation of virtual and constructive simulation and visualisation tools, such as global weather services and simulated pattern-of-life models.
- **Advanced manufacturing technologies.** Supporting aircraft maintenance and repairs through technologies such as incremental sheet forming.
Supplier Partners

Boeing Australia contributes significantly to the Australian economy by providing work for many small and medium-sized enterprises (SME) as part of Boeing’s global supply chain. Fifty percent of Boeing’s Australian supply chain are SMEs (i.e., fewer than 200 people, independently owned and operated). In 2016, Boeing spent more than AU$400 million with more than 1,500 Australian suppliers and partners.

Boeing Office of Australian Industry Capability

The Boeing Office of Australian Industry Capability (OAIC) is a highly successful partnership between Boeing, the defence industry and local companies. Since its inception, the OAIC has engaged more than 150 Australian companies; more than 50 of them and their associated supply chains have received contracts, resulting in approximately AU$484 million of exports.

The OAIC provides more than contracts to Australian industry; it also offers a variety of training and mentoring programs, including program management; business development and communications training; and hands-on classes in subjects such as high-speed titanium and aluminum machining, geometric dimensioning and tolerancing, and quality assurance and lean manufacturing — essential aerospace skills required by global companies.

Commonwealth Scientific Industrial Research Organisation

Boeing has enjoyed a successful collaborative relationship for more than three decades with Australia’s national science agency, the Commonwealth Scientific Industrial Research Organisation (CSIRO). In 2011, CSIRO was recognised as Boeing Supplier of the Year in the academia category. The joint Top Coat Reactivation project between BR&T, Boeing Commercial Airplanes and CSIRO was awarded a CSIRO Medal for Research Excellence in 2012. In 2017 and 2018, CSIRO was named a Boeing Supplier of the Year in the technology category.

Sustainability and the Environment

Environmental issues and climate change remain key areas of interest and concern to Boeing in Australia. Boeing continues to work with stakeholders across industry, government and academia to develop the commercial viability of advanced manufacturing technologies that reduce energy and material consumption. Employees work together to increase energy efficiency and reduce environmental impact at Boeing facilities.

All BDA operations work under an integrated environment, health and safety management system externally certified by TQCSI-Yaran to ISO 14001 for environmental management, and certified by OHSAS 18001, AS 4801 and ISO 45001 for health and safety.

Further, many Boeing sites in Australia also have environmental initiatives, created with input from all employees to identify energy- and waste-reduction opportunities. Initiatives have included separating and recycling materials, installing sensor lights and water efficiency devices, reducing water consumption and eliminating waste.
Boeing Global Engagement

Across the globe, good corporate citizenship is a core value of The Boeing Company and integral to the way its business is conducted. Giving back to the communities in which we live and work is essential, and in Australia, this is no exception.

Boeing Australia employees support various charities throughout the year during fundraising or awareness drives as well as during the company’s annual **Boeing Global Month of Service**, when employees volunteer to work in areas of need in their local communities. Further, Boeing employees can make contributions to charities through Boeing’s **Employees Community Fund**.

Being part of a community also means being there when times get tough, and Boeing has played a part in making financial donations to communities at times of need. Both Australia and New Zealand have been afflicted by severe **natural disasters** in the recent past, including bushfires in Victoria, flooding and cyclones in Queensland and the devastating Christchurch earthquakes. Boeing employees worldwide made donations that were combined with a donation from Boeing.

Boeing Australia provides grants to civic, environment, health, education and veterans organisations, including the following.

*Our heroes (veterans)*

- **The Australian War Memorial (AWM)** is an iconic Australian institution widely regarded as being the custodian of its nation’s soul. Most recently, Boeing funded the AWM’s Centenary of Anzac – Stories from the Western Front Exhibition, a representation of the ANZAC’s involvement in World War I, and a virtual reality project that allows the Australian War Memorial to use immersive technologies to educate visitors about past historical stories.

- **Soldier On’s** Veteran and Family Support Program provides frontline, hands-on services to veterans and their families to ensure successful experiences and employment outcomes as they seek to reintegrate into civilian life.

- **Legacy** is supported by Boeing Defence Australia. Legacy provides services to Australian families suffering financially or socially after the incapacitation or death of a spouse or parent, during or after their Defence service.

- **American Australian Association** Veterans’ Scholarship Fund enables eligible veterans to enroll in an accredited course of one year’s duration or longer that leads to the award of an undergraduate or postgraduate degree program at a tertiary institution.

In December 2017, Boeing Australia announced it committed nearly AU$1M to veteran organisations during 2017 and 2018 including to Invictus Games Sydney 2018, the Australian War Memorial, Soldier On and a veterans’ scholarship fund.

In March 2018, Boeing Defence Australia (BDA) was honoured to receive the inaugural Prime Minister’s Veterans’ Employment award for Veterans’ Employer of the Year – Large Business. Presenting the awards, Prime Minister Malcolm Turnbull said that veterans have impressive résumés, they’re motivated, resilient and proven problem solvers. “We’re celebrating the organisations across Australia who are going that extra mile to employ or support our veterans – organisations that recognise the remarkable benefits of having veterans as employees,” said Turnbull.
Our future (education)

- **FIRST Australia** and **FIRST New Zealand** are not simply about building robots. Student team members learn life skills such as leadership and collaboration by experiencing real-world engineering project competitions.

- The **Centre for Sustainability Leadership's** Future Environmental Leaders Program is a hands-on, experiential leadership development program for high school students in years 9 and 10 who are passionate about addressing local environmental and social issues. Equipping them with skills in critical thinking, teamwork and action-oriented learning, students are encouraged and provided with guidance on future educational and career selections.

- The **YMCA Canberra Space Squad** introduces students in years 7 to 9 to STEM career options in the Australian space industry and provides hands-on activities in design, engineering, robots, drone piloting and geo-mapping.

- Boeing also has strategic relationships with a number of Australian universities including the University of Queensland, Queensland University of Technology, the University of Melbourne and the Royal Melbourne Institute of Technology (RMIT).

Our homes (environment and community)

- **Landcare Australia's** Community Streamside Habitat Improvement Project works to improve the area and quality of habitat present along the rivers and creeks beside Adelaide Airport and the city, improving links between the coast and the hills by planting approximately 10,000 plants in conjunction with local community environmental groups and local government.

- **Mission Australia** provides services to reduce homelessness and strengthen communities across Australia by helping people secure jobs, receive an education, find housing and develop important life skills.

- **Beyond Blue** is supported by both Boeing Defence Australia and Boeing Aerostructures Australia. Beyond Blue's objective is an Australian community that understands depression and anxiety, empowering all Australians, at any life-stage, to seek help.

- **White Ribbon Day** is supported across all Boeing Australia entities to help build a future free from violence and abuse. White Ribbon Day supports vital prevention work in schools, workplaces and communities.

In summary, Boeing Australia continues to make significant investments in local talent, technology, innovation and communities. Australia is more than just an important market for the company; it is a place where, as an enterprise, Boeing is finding and creating value so that the company can be both more competitive in Australia and more agile and successful globally.

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