S P A C E I N D U S T R Y

Queensland
G o v e r n m e n t
released the Queensland
Aerospace 10-Year Roadmap
and Action Plan in June 2018,
setting out their vision for the future of
the state's aerospace industry. Development of
space technologies is a key part of this plan, with
Brisbane home to much of the state's space capabilities.

The

Brisbane's space industry ready for take-off



Since the establishment of Boeing's Australian headquarters in Brisbane in 1998, we've been at the forefront of building capability, adding considerable value to the national research sector and the economy.

FOUNDATIONS FOR A SUCCESSFUL SPACE INDUSTRY

- We've established the Queensland Space Industry Reference Group of prime
 contractors, SMEs and research institutions to help guide the industry's development.
 This group is chaired by the Queensland Government's strategic advisor to the air
 sector, Air Vice-Marshal (ret) Neil Hart AM. This group works alongside a whole-ofgovernment working group to ensure a coordinated approach between industry,
 government and the research sector.
- We've commissioned a technical analysis to identify and assess priority space infrastructure developments in the state.
- A Queensland representative currently chairs the ANZLIC Spatial Information Council, the peak government body in Australia and New Zealand responsible for spatial information.

OUR STRENGTHS



SPACE-BASED SENSING

Earth observation

Data analysis and exploitation



SPACE-BASED SERVICES

Communications
Position, navigation and timing



SPACE SYSTEMS SUPPORT

Launch and recovery

Monitoring and

control

SPACE SYSTEMS DESIGN & MANUFACTURE

Vehicles and orbital propulsion

Payloads

Ground stations and equipment

Autonomous systems, artificial intelligence and machine learning



World-class research

Brisbane-based institutions are conducting world-class research that feeds into the space sector. This includes:



>> Centre for Advanced Materials **Processing and Manufacturing** (AMPAM) has significant expertise in materials engineering and

manufacturing activities >> Centre for Hypersonics is a world leader in the development of hypersonic technology and has been

conducting targeted research in this area for more than 20 years >> Hosts the Terrestrial Ecosystem

Research Network (TERN), which has recently collaborated with NASA to study global climate

>> Has an X3 expansion tube capable of studying superorbital gas dynamic flows (i.e. the properties and behaviour of fuels in space propulsion systems)

OUT

>> The former host of the Australian Research Centre for Aerospace Automation (ARCAA). ARCAA played an integral role in building Australia's unmanned aircraft system industry over a 10-year period and the work of ARCAA is now captured under QUT's robotics and autonomous systems discipline.

>> Home to the Asia Pacific-leading **Australian Centre for Robotic Vision**

>> Institute for Future **Environments** is developing new technologies and methods for collecting and analysing big data through its IntelliSensing program

>> Has the country's only lowhumidity electro-manufacturing dry rooms that support production of commercial-grade lithium-ion batteries

CSIRO

>> CSIRO's Brisbane facility includes the Queensland Centre for Advanced **Technologies** (QCAT). This is Australia's largest integrated research and development precinct for the resources and associated advanced technology industries. Research areas include autonomous systems, smart mining and advanced aeronautical engineering.

GRIFFITH UNIVERSITY

>> Specialises in artificial intelligence, computer image processing and robotics through its Institute for Integrated and Intelligent Systems (IIIS)

>> IIIS's quest to incorporate human behaviours into intelligence devices has secured consistent global recognition and is an international leader in the field

PRIME CONTRACTORS WITH A OLD PRESENCE

Airbus BAE Systems Boeing Defence Australia Elbit Systems of Australia **DigitalGlobe Harris Corporation**

A WORLD-CLASS

INDUSTRY BASE

as aerospace technologies

We have a world-class industry base in

Brisbane, with expertise in areas such

advanced intelligent surveillance, data

processing, advanced manufacturing,

thermal treatment, niche machining

Brisbane also has many companies

Brisbane also has the opportunity to

draw on its strengths in sectors like

mining and agriculture, and connect

potential to tap into new markets such

them to the space sector. There is

as asteroid mining and precision

knowledge base in conjunction with

agriculture using the existing

emerging space research and

technologies.

and composites development.

contracting to national and international defence forces. This means our industry is accustomed to producing products and services of the highest standard and working in a tightly regulated environment.

advancement, propulsion systems,

unmanned systems development,

Northrop Grumman **Nova Systems** Qantas Raytheon Virgin Australia

SMALL AND MEDIUM ENTERPRISES

Black Sky Aerospace Crystalaid Manufacture **EM Solutions** Esri Australia Ferra Engineering Gilmour Space Technologies

Absolute Data Group

Heat Treatment Australia **Hypersonix Imagus ImmersaView** Insitu Pacific Intellidesign L3 Micreo

Lavender Composites Ozius Products for Industry (PFi) QinetiQ **Teakle Composites** Teledyne Australia





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