



# SPACE SECTOR STRATEGY

Image: SITAEL Australia

## THE NEWSPACE ECOSYSTEM

The Australian Space Agency has a clear objective to grow Australia's space industry, tripling the space sector's contribution to GDP to AUD\$12 billion per year, and creating an additional 20,000 jobs by 2030.

South Australia, with its vibrant space ecosystem, is already playing an important role in achieving this goal.

Major innovation precincts in South Australia—including the space industry and research hub at Lot Fourteen—facilitate dynamic collaboration and new ideas priming our state as Australia's space pioneer and economic driver.

With national and international organisations acknowledging Adelaide and South Australia as a major hub for NewSpace+ activity, we will build on the success of previous work and become an exemplar for the NewSpace ecosystem.

**“Space is growing at an unprecedented rate across South Australia and the nation. We are focused on ensuring that we can create opportunities in the space industry right here in South Australia, creating the jobs of the future and bolstering our economic prospects.”**

*Hon Steven Marshall MP, Premier of South Australia*



Government of  
South Australia



19 September 2020 marked the day of Australia's first ever commercial space-capable rocket launch from Southern Launch's Koonibba Test Range. Image: Sean Jorgensen-Day, DEWC Systems, Southern Launch



**“Space is energising. It conjures dreams of going to the moon, of science and technology overcoming unsurmountable problems. Space acts as a catalyst to unleash innovative thinking and help create gravity-defying solutions.”**

*Jason Bender, Head of Innovation, Deloitte*

## EMBRACING DISRUPTION

Building on the state's strong starting position in the NewSpace economy, the South Australian Government will continue contributing to the growth rate of the national space industry and aim to increase the nation's share of the global space economy.

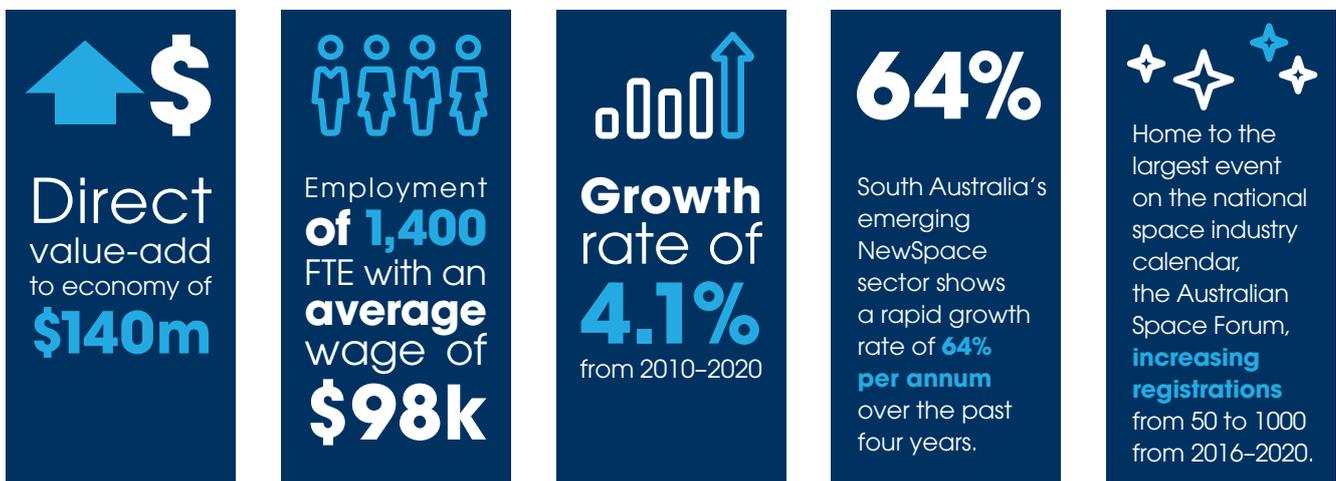
As a complement to a national space strategy seeking aspirational growth, South Australia's priorities are selective and niche to maximise the opportunities presented by disruption and NewSpace.

## VISION FOR GROWTH

Create a thriving and enduring South Australian space ecosystem, supporting Australia's national space strategy, building on the opportunities of NewSpace.

South Australia will design, manufacture, launch and operate small satellites (SmallSats) to deliver actionable, space-derived intelligence for sovereign Australian missions.

## SOUTH AUSTRALIA'S SPACE SECTOR CONTRIBUTION IN 2020



+ NewSpace. The NewSpace sector is rapidly growing globally, and largely underpins the potential for Australia's space sector growth. It is typified by commercial developments (vice government with a traditional national security focus), access to venture capital (previously unavailable for space ventures) and disruption.

**“The key ingredients for success for South Australia’s space industry are collaboration, locally and internationally to access the global markets but also, and very importantly, training a new generation of space qualified engineers and researchers.”**

*Herve Astier, CEO, Neumann Space*

## OUR MISSION

To grow a thriving and enduring South Australian space sector, in partnership with industry.

## STRATEGIC PRIORITIES

Chosen in consultation with industry, three pillars for growth will be the strategic foundation of a thriving and enduring South Australian space sector.

### Contribute

#### Contribute to the national space strategy

|   |  |
|---|--|
| Launch into accessible lower Earth orbits | GOAL: Enable industry to develop space qualified, or ‘flight heritage’ products.   |
| Support positive norms for space actors   | GOAL: Support the establishment and enforcement of rules that enable industry growth through responsible access to space.                      |
| Moon to Mars – food production in space   | GOAL: South Australia leverages its expertise in food production for extreme environments to support international human spaceflight missions. |

### Capitalise

#### Capitalise on opportunities of NewSpace

|   |   |
|---|---|
| Many, small, connected satellites                     | GOAL: Support the development of many, small, connected satellites with disruptive approaches to design and technology.         |
| Machine learning and AI to exploit space derived data | GOAL: Boost the productivity of the South Australian economy through accurate, timely and easily accessible space-derived data. |

### Cultivate

#### Cultivate a centre-of-gravity for space activities

|                           |   |
|---------------------------|---|
| An expanding workforce    | GOAL: Develop a comprehensive space education program that leads to a sizeable interdisciplinary space workforce with depth that supports healthy exchange of professionals between industry and/or academia. |
| An innovation ecosystem   | GOAL: A steady pipeline of start-up and scale-up space related companies with strong investment potential in South Australia.   |
| Supportive infrastructure | GOAL: The South Australian space sector has access to the infrastructure needed to promote the space industry, demonstrate investment potential, and unlock business opportunities.                           |
| Globally competitive      | GOAL: A globally competitive South Australian space industry exporting their products and services directly and through international partnerships.   |
| Attractive to investors   | GOAL: Significantly increase the level of external investment in the South Australian space sector.   |



ResearchSat working in their lab on a satellite prototype in the Venture Catalyst Space tech room. Image: University of South Australia.

**“One of the exciting things about South Australia’s space industry is that all aspects of the space ecosystem are represented in it. We have companies making satellites, companies developing launch facilities, companies developing propulsion systems, companies developing payloads and services to be hosted on the satellites, and companies developing Space Domain Awareness solutions to support their operations.”**

*Dr James Palmer, CEO Silentium Defence Pty Ltd*

## ACTION PLAN FOR GROWTH

A concerted effort from all states and territories, industry, academia and government is needed to achieve the ambitious targets set by the Australian Space Agency. South Australia will work closely with other jurisdictions and space stakeholders to collaborate, deliver on Defence’s security challenges, enhance resilience, and provide sovereign capability for the future.

## INDUSTRY AND GOVERNMENT AS PARTNERS

### South Australian Space Industry Centre (SASIC)

SASIC’s mission is to lead the state’s space industry development efforts and offer focused and responsive support to drive the growth of South Australia’s space sector. It provides a prominent national platform for South Australia to promote and attract investment in the space industry, works closely with the Australian Space Agency to align with the national space strategy, and implements the actions outlined in this strategy.

SASIC will work in partnership with universities, industry, research organisations, private enterprise, industrial associations, and government agencies to deliver the space sector vision.

### South Australian Space Council

The key objective of the South Australian Space Council is to support the growth and development of the space industry in South Australia and encourage and enhance innovation within the sector. The Council has representation from space research organisations, universities, private enterprise, government and stakeholders in the space sector.

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South Australia Growth State Space Sector Strategy 2030 can be accessed at [www.sasic.sa.gov.au](http://www.sasic.sa.gov.au)

A South Australian space industry directory can be accessed at [www.sasic.sa.gov.au/industry/industry-directory](http://www.sasic.sa.gov.au/industry/industry-directory)

This publication was produced by the South Australian Space Industry Centre © November 2020