

10th AUSTRALIAN SPACE FORUM 25 NOVEMBER 2020



Government of
South Australia



Supported by the:



10th AUSTRALIAN SPACE FORUM

WEDNESDAY 25 NOVEMBER 2020

Facilitated by:
Carolyn Miller, Managing Director
The Honeycomb Effect

 **Session recordings will be posted on our YouTube Channel:**
South Australian Space Industry Centre

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#SASPACEFORUM

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 South Australian Space Industry Centre

PREMIER'S WELCOME



IT IS MY PLEASURE TO WELCOME YOU TO THE 10TH AUSTRALIAN SPACE FORUM.

While 2020 has provided our world with many challenges, the South Australian Government is pleased to be able to host such a significant event for our national space industry.

This year began with the opening of both the Australian Space Agency headquarters and the SmartSat Cooperative Research Centre (CRC). Since then we have seen construction of the \$6 million national Mission Control Centre and Space Discovery Centre commence at Lot Fourteen, located in the heart of the Adelaide CBD.

In September, South Australia entered the history books when Australia's first privately owned rocket successfully launched a payload to the edge of space. The launch of the T-Minus Engineering Dart rocket with DEWC Systems payload, from the Southern Launch Koonibba Rocket Test Range, marked the start of new era of space launches from Australia, bringing with it exciting opportunities not only for the state, but the nation.

The Australian Government's investment in space over the past 12 months has seen a number of innovative small to medium enterprises receive funding from the Next Generation Technologies Fund and Defence Innovation Hub contracts. The development of a strong and globally competitive space industry is vital to our national interest and the grants awarded to South Australian companies demonstrates our state's support of the Australian Space Agency's goal of tripling the size of the space sector by 2030.

Australia's space industry is underpinned by important research and partnerships between industry and academia. Earlier this year, the Defence Science and Technology Group announced their partnership with industry and academia through the CRC, proposing an ambitious research program aimed at delivering enhanced capability to the Australian Defence Force's satellite communications.

Our collaboration with international space partners remains key to our success. Australia has had the pleasure of working with the Japan Aerospace Exploration Agency (JAXA) to prepare for the momentous return of the Hayabusa II to Earth. We are immensely proud that the Woomera Range Complex, located in the South Australian outback, will serve as the re-entry location for the capsule in December 2020.

The opportunities for Australia in space are endless. As we emerge post-COVID-19, we must ensure our momentum in this sector is not lost. If we grab these opportunities with both hands, we will ensure a bright future for all Australians.

I would like to thank our sponsors, speakers and the all the fantastic space organisations for their support and commitment to this important event in the face of these unprecedented times. We trust the 10th Australian Space Forum will provide a great platform for networking and ideas generation for this exciting and rapidly developing industry.

Hon Steven Marshall MP
Premier of South Australia

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ABOUT SASIC



Now is a pivotal time to engage with the space sector in Australia, particularly in the vibrant space economy emerging in South Australia. Home to over 80 space-related organisations, research organisations and educational institutes, South Australia is committed to further growing the local industry, building on the state's proud history of space activity.

Established in 2017 by the South Australian Government, the South Australian Space Industry Centre (SASIC) was created to drive space industry innovation, research and entrepreneurial development.

SASIC is supporting the state's emerging space industry by providing annual funding to grow jobs and build South Australia's space ecosystem through the Space Innovation Fund. The Fund is responsible for invigorating South Australia's space innovation ecosystem by supporting promising entrepreneurs, new start-ups and early stage businesses to scale-up and activate their ideas.

SASIC is now focused on growing a sustainable space industry, challenging the innovative skills of our best researchers and engineers, while inspiring young people to develop the skills to push the frontiers of scientific knowledge.

The space industry will also continue to contribute to the development of other priority sectors for South Australia, including defence, agriculture, mining and tourism, and services for the community such as health and education. SASIC remains committed to exploiting disruption, harnessing innovation, and leveraging strong support to strengthen our space industry.

For more information please contact SASIC via:

SASIC.SA.GOV.AU

T +61 8 8463 7140

E spaceoffice@sa.gov.au

Darin Lovett

Director, Space

South Australian Space Industry Centre



Moon to Mars initiative

Accelerating the growth of Australia's space industry

The Moon to Mars initiative gives Australian businesses and researchers the opportunity to showcase their knowledge and capabilities in projects that can support NASA's Moon to Mars endeavours.

The Supply Chain and Demonstrator grant programs are now open



Supply Chain Program

Supports Australian businesses by getting their products and services into local and global space supply chains.



Demonstrator Program

Supports Australian businesses and researchers in developing and launching space projects that showcase the country's strengths to the world.

Apply for a grant now

For more information and to apply visit space.gov.au

FORUM SCHEDULE

Facilitated by Carolyn Miller, Managing Director, The Honeycomb Effect. Times displayed are Australian Central Daylight Savings Time (ACDT).

TIME SESSION

8.30	<p>Welcome from the Premier of South Australia – The Hon. Steven Marshall MP</p> <p>Welcome from the Minister for Industry, Science and Technology – The Hon. Karen Andrews MP</p> <p>Message from Adj Prof Nicola Sasanelli AM, Senior Advisor - South Australian Space Industry Centre</p>
9.00	<p>NATIONAL AND INTERNATIONAL SPACE TRENDS</p> <p>Anthony Murfett, Deputy Head, Australian Space Agency Dr Hiroshi Yamakawa, President, Japan Aerospace Exploration Agency (JAXA)</p>
10.00	<p>MORNING TEA</p>
10.30	<p>AUSTRALIA-JAPAN: COMMON AREAS AND HOW TO IMPROVE THE EXISTING BILATERAL COLLABORATION</p> <p><i>Facilitator:</i> Anntonette Dailey, Executive Director, Operations and Communications, Australian Space Agency</p> <p><i>Panellists:</i> Akira Kosaka, Manager, International Relations, Japan Aerospace Exploration Agency (JAXA) Alisa Starkey, Founder, Ozius Masatoshi Nagasaki, Co-founder and CEO, Space BD Shinobu Doi, Manager, Japanese Experiment Module, Japan Aerospace Exploration Agency (JAXA) Dr Sarah Pearce, Deputy Director, CSIRO Astronomy and Space Science</p>
11.45	<p>CENTRE OF GRAVITY. THE IMPACT OF SPACE ON EARTH</p> <p><i>Speakers:</i> Darin Lovett, Director Space, South Australian Space Industry Centre Rosie Jonas, Gravity Program Manager, Deloitte Siobhan Gardiner, Climate Change & Environment Lead, Deloitte UK Sam Adlen, Chief Strategy Officer, Satellite Applications Catapult</p>
12.15	<p>LUNCH</p>

FORUM SCHEDULE

TIME SESSION

13.30 EVOLVING THE VENTURE CAPITAL INVESTMENT MODEL FOR DEEP TECH

Facilitator:

Dr Stephen Rodda, Executive Director, Innovation & Commercial Partners, The University of Adelaide

Panellists:

Barbara Swanson, Chief Revenue Officer, Myriota

Laetitia Garriott de Cayeux, Cofounder and CEO, Global Space Ventures

Reg Carruthers, Executive Director, Defence and Space, South Australian Space Industry Centre

Chris Kirk, General Manager, Stone & Chalk

Ulric Ferner, Principal, Right Click Capital

14.50 AFTERNOON TEA

15.30 SMARTSAT CRC AND NATIONAL SECURITY AND DEFENCE PARTNERS IN THE STAR SHOTS STRATEGY, DEVELOPING LEAP-AHEAD AUSTRALIAN CAPABILITIES

Facilitator:

Andrew Seedhouse, Chief Intelligence, Surveillance and Space Division, Defence Science and Technology Group

Panellists:

AVM Catherine Roberts AM CSC, Head of Air Force Capability, Royal Australian Air Force

Dr Thomas Cooley, Chief Scientist, Space Vehicles Directorate, U.S. Air Force

Prof Allison Kealy, Research Director, Advanced Satellite Systems, Sensors & Intelligence, SmartSat Cooperative Research Centre

Julie Cooper, Non Executive Director & Interim Group CEO, Nova Group

Dr Matthew Tetlow, CEO, Inovor Technologies

16.50 CONCLUSION

17.00 EVENT CLOSE

AUSTRALIAN INTERNATIONAL AIRSHOW AND AEROSPACE & DEFENCE EXPOSITION

AVALON 2021

23 - 28 NOVEMBER

AVALON AIRPORT, GEELONG, AUSTRALIA

Australia's own international industry event, the most comprehensive aviation, aerospace and defence exposition in the Southern Hemisphere.



100 YEARS OF THE
ROYAL AUSTRALIAN AIR FORCE
1921 - 2021

AVALON 2019 Highlights

- 38,952 Trade Visitor Attendances
- 698 Participating Companies
- Inaugural SIAA Space Industry Conference
- 41 International Air Chiefs and Representatives
- 161 Official Delegations



Australian Government
Department of Defence

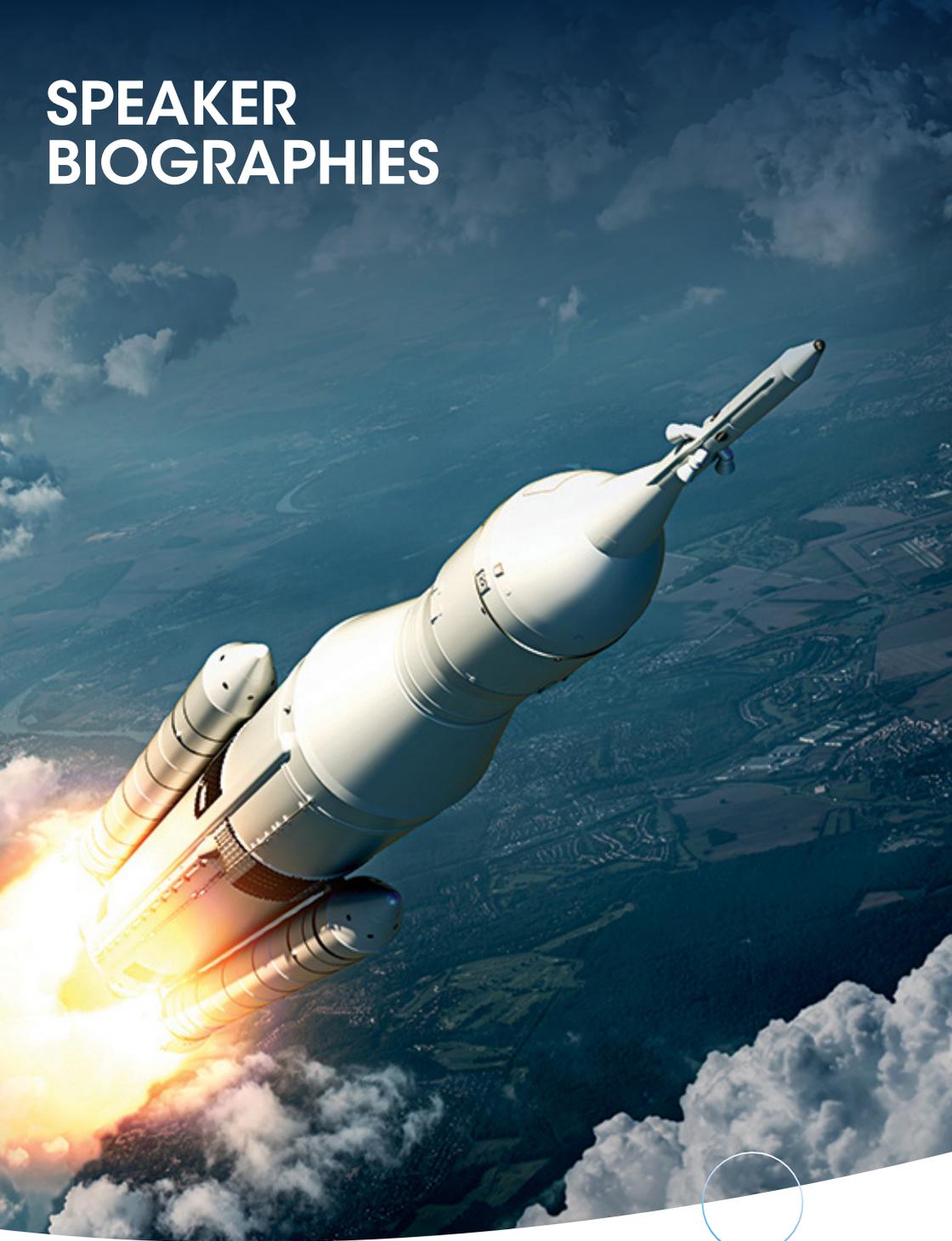


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SPEAKER BIOGRAPHIES



DR THOMAS COOLEY

CHIEF SCIENTIST FOR THE SPACE
VEHICLES DIRECTORATE | AIR FORCE
RESEARCH LABORATORY, KIRTLAND AIR
FORCE BASE



Dr Thomas Cooley is the Chief Scientist, Space Vehicles Directorate, Air Force Research Laboratory, Kirtland Air Force Base, New Mexico, where he is responsible for the technical quality of a USD\$200+ million annual Air Force space science-and-technology investment. He coordinates USD\$500+ million of DoD Space S&T investments with other government agencies and industry internal research and development to avoid duplication of effort and/or gaps.

He began his career at NASA's Jet Propulsion Laboratory developing advanced microwave communications and remote sensing technologies while attending graduate school at Caltech. After completing his doctorate at the University of Arizona in Optical Sciences under a NASA fellowship, he spent a year as a Post-Doc Researcher advancing optical calibration techniques in Toulouse, France. He joined AFRL in 1998, and has contributed to a wide range of technologies focused on Electro-Optic sensors and imaging spectroscopy from space. In 2004, he became the Principal Investigator of TacSat-3/ARTEMIS satellite, a hyperspectral sensor built to demonstrate the value of the data for a wide range of military applications. In 2015 he became the lead for Space Situational Awareness technology efforts at AFRL, before stepping into his current role in 2017. He is a Fellow of SPIE and of AFRL.

JULIE COOPER

NON EXECUTIVE DIRECTOR & INTERIM
GROUP CEO | NOVA GROUP



Julie joined Nova as a Non-Executive Director in July 2017 and became the Interim Group CEO in July 2020. During her career as a Management Consultant for the global consulting firm, McKinsey & Company, she supported clients in Australia, the UK, Europe, Asia and the Middle East. As a Consultant she worked across multiple sectors including Health, Retail, and Oil and Gas. Prior to becoming a Management Consultant Julie held operational roles in the Brewing, Banking, and Defence sectors. She held senior management positions in BAE Systems in both Australia and the UK, including working on the merger between BAE and GEC Marconi and as a Director of Royal Ordnance Defence. Julie is a Fellow of the Australian Institute of Company Directors (FAICD) and contributes actively as a member of the 'Tomorrow's Director' Committee. She is also a Non-Executive Director of Credit Union SA; and is Chair of the Audit and Risk Committee for the Adelaide Crows Foundation. Julie is also a Board Advisor to the Sarah Group, one of South Australia's most successful construction companies.

ANNTONETTE DAILEY

EXECUTIVE DIRECTOR, OPERATIONS
AND COMMUNICATIONS | AUSTRALIAN
SPACE AGENCY



Anntonette is an Executive Director at the Australian Space Agency and commenced in the Agency soon after it was established in July 2018. Anny is responsible for the operations of the Agency and ensuring it meets its government requirements as well as establishing its governance arrangement. In addition to managing the parliamentary interaction, finances, human resources and event management, Anny is also responsible for all communications for the Agency and has a personal goal to meet the key values of the Agency - namely to inspire Australians and 'do cool stuff'.

In 2019, Anntonette was identified in the Financial Review's as one of Australia's 100 Most Influential Women.

As a chartered professional engineer, Anny graduated with honours at the University of Technology Sydney and took on a career in sustainability. Working across multiple Government agencies as well as not for profit and consultancy - Anny brings more than 12 years as a senior executive capability to the Agency.

SHINOBU DOI

MANAGER, JAPANESE EXPERIMENT
MODULE | JAPAN AEROSPACE
EXPLORATION AGENCY (JAXA)



Mr Doi started to work in NASDA (currently JAXA) in 1994. He has worked for the development and the mission integration of the Exposed Facility including Robotics Arm for so-called Kibo Module on the International Space Station since 1996. Now, he is in charge of promoting the utilisation of Kibo Exposed Facility and the commercial utilisation of inside and outside Kibo module.

JAXA is enhancing the utilisation of Kibo Exposed Facility with JAXA selected commercial service providers through its unique capability as easy-to-use technology demonstration platform such as the CubeSat deployment capability (J-SSOD) and the small experimental device adapter on the i-SEEP.

In addition, as an only country from the Asia Pacific Regions, JAXA is also promoting the international collaboration with these countries so that these countries will be strategic partners for future human spaceflight activities on the Low Earth Orbit and beyond through the "Kibo" utilisations.

ULRIC FERNER

PRINCIPAL | RIGHT CLICK CAPITAL



Ulric is a Principal at Right Click Capital, a VC fund that invests in startups with global ambitions. He leads Right Click's deep tech. practice, including space system investments (e.g. Myriota). He is an ex-founder and has also done product development at a number of startups. He did his Ph.D. in Computer Science and S.M. in Aeronautics, both at MIT in Boston and is an alumni of BCG. For kicks, he has a few patents and loves coming up with creative tests for product/market fit.

LAETITIA GARRIOTT DE CAYEUX

COFOUNDER AND CEO
| GLOBAL SPACE VENTURES



Laetitia Garriott de Cayeux is a technology entrepreneur and investor. She serves as CEO of Global Space Ventures, on the Board of America's National Museum of Mathematics, and as a member of the Council on Foreign Relations, the Truman Security Project, the Economic Club of New York, and Women Corporate Directors. Her entrepreneurial and investing activities focus on frontier technologies including space. She was instrumental in beamed energy technology becoming onboarded to NASA's technology roadmap, as cofounder of Escape Dynamics, which Fast Company ranked third of the "Top 10 World's Most Innovative Space Companies", and was featured in Scientific American as a "World Changing Idea". She is an early investor in US technology champions SpaceX and Lynk, which demonstrated the first "cell tower in space". Her 20 years career in finance has spanned the US, Europe and Asia and included leadership roles at global investment firms Renaissance Technologies and TPG-Axon, serving as an investment banker at Goldman Sachs, and starting her own investment firm. Laetitia has contributed her expertise to Council on Foreign Relations study groups on transformative technologies and briefed members of the US Senate on commercial space. She holds an MBA for Harvard Business School.

ROSIE JONAS

GRAVITY PROGRAM MANAGER

| DELOITTE



Rosie is a Senior Manager in Deloitte's Strategy & Transformation Office with a remit to drive engagement within the startup ecosystem by pairing disruptive startups, scale ups and high growth businesses with market demand, to solve some of the world's greatest challenges and achieve an impact that matters.

As the Program Manager for the GRAVITY Challenge, Rosie is responsible for the design and delivery of the global technology innovation program which supports corporates, entrepreneurs and universities in the space ecosystem to design and build solutions to real industry, social and environmental problems using space data and capability.

Rosie is passionate about innovation having studied a Bachelor of Entrepreneurship and founding two startups before settling on her career path as an innovation specialist at Deloitte, where she has been honing her craft and sharing her knowledge for the past seven years.

PROF ALLISON KEALY

DIRECTOR RESEARCH PROGRAM
ADVANCED SATELLITE SYSTEMS, SENSOR
& INTELLIGENCE | SMARTSAT COOPERATIVE
RESEARCH CENTRE



Dr Allison Kealy is a Professor in GeoSpatial Science at RMIT University, Australia. She holds a BSc in Land Surveying from The University of the West Indies, Trinidad, and a PhD in Satellite Positioning and Geodesy from the University of Newcastle upon Tyne, UK. Allison is the Research Director, Program 2, Advanced Satellite Systems, Sensors and Intelligence, SmartSat CRC, President of the International Association of Geodesy (IAG) Commission 4 - Positioning and Applications, Deputy Director of the Sir Lawrence Wackett Centre for Defence Research at RMIT University and a technical representative on the US Institute of Navigation Council. Allison's multi-disciplinary research extends across high performance PNT applications, GNSS quality control, sensor fusion and estimation theory.

CHRIS KIRK

GENERAL MANAGER

| STONE & CHALK



Stone & Chalk exists to identify, nurture, connect and propel those entrepreneurs seeking to solve the world's most pressing business and social challenges. In 2019 Stone & Chalk partnered with the South Australian Government to launch the Startup Hub at Lot Fourteen. Founded in Fintech, today Stone & Chalk provides access to collaborative workspace and growth and commercialisation support for over 700 entrepreneurs across a range of emerging tech sectors. In early 2021 Stone & Chalk will launch a dedicated Space Tech hub, co-located with SmartSat CRC and the Australian Space Agency at Lot Fourteen. Prior to Stone & Chalk, Chris held various roles in banking and financial services. Since 2015 he has supported startups to raise over \$550m in direct investment.

AKIRA KOSAKA

MANAGER, INTERNATIONAL RELATIONS

| JAPAN AEROSPACE EXPLORATION
AGENCY (JAXA)



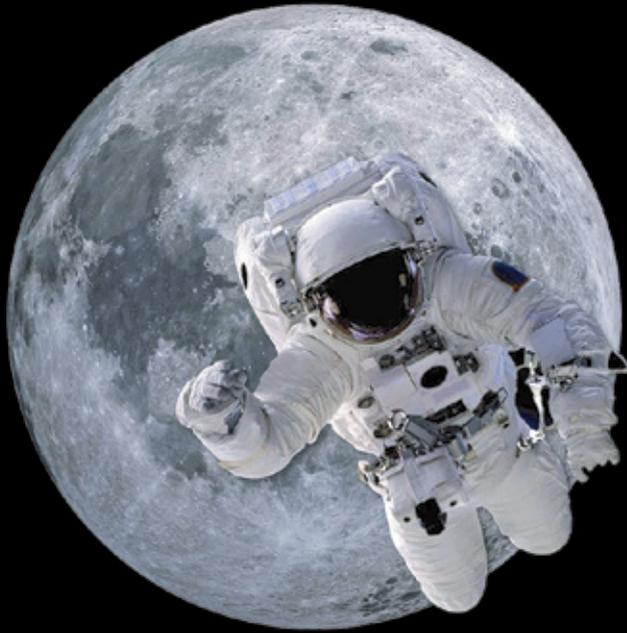
Mr Kosaka has been involved mainly in the human space flight programs including the International Space Station (ISS) for more than 15 years out of his 30 year career at JAXA.

He served as Deputy Director of JAXA Washington Office from 2000 to 2003, and he was assigned as the first Director of JAXA Moscow Office when it was established in 2011, and served 3 years through 2014 to explore the cooperative relations with Russian space organizations including ROSCOSMOS.

In April 2017, he was assigned as Manager of JAXA International Relations Division and took the responsibility of Executive Secretary of Asia-Pacific Regional Space Agency Forum (APRSAF).

He studied on the disarmament negotiations between the United States and the former Soviet Union during the Cold War period, and received B.A. in International Political Science from Waseda University in 1990.

He lives in the suburbs of Tokyo with his wife, 3 children and a dog.



Space

Uncharted territory or the final frontier?

Deloitte is committed to proactively supporting purposeful growth of the Australian space ecosystem. Our vision is to see the Australian space ecosystem recognised globally as a leader in delivering value to the world's key industry sectors and society through new disruptive space-enabled capabilities, business models and by the way we collaborate.

That's why we've established the Gravity Challenge, an Australian conceived and led space innovation program, now operating globally, focused on accelerating new commercial opportunities for the Australian space sector.

That's why we're actively involved supporting Saber Astronautics in the design and implementation of Australia's Mission Control Centre to help democratise access to space.

To explore how we can make an impact that matters with your organisation, let's connect.

DARIN LOVETT

DIRECTOR SPACE | SOUTH AUSTRALIAN SPACE INDUSTRY CENTRE



Darin Lovett is Director of Space at the South Australian Space Industry Centre. His focus is on leveraging disruption, innovation, and strong support to build a sustainable space industry in South Australia.

He brings more than 25 years' experience in strategy and capability development for the Air and Space domains. His diverse background includes space operations and policy, university lecturer, weapons test and evaluation, airborne anti-submarine and surveillance operations, coalition partnering, and working on large-scale transformation projects.

His space credentials include working as a staff officer in Australia's joint Defence Space Coordinating Office, four years at the US Executive Agent for Space within the Pentagon, graduate of the International Space University, and Chief of Australia's Space Operations Centre within HQ Joint Operations Command.

Darin holds Masters degrees in Philosophy (Military Strategy), Arts (Strategy and Policy) and Science (Technology Management); and a Bachelor of Engineering (Aerospace). He is a graduate of the Australian Defence Force Academy (ADFA), Canadian Forces Aerospace Systems Course (ASC), Australian Command and Staff Course (ACSC), and the US Air Force's School of Advanced Air & Space Studies (SAASS).

FACILITATOR CAROLYN MILLER

MANAGING DIRECTOR
| THE HONEYCOMB EFFECT



For over 20 years Carolyn Miller has been working in the marketing and advertising industry and has been a strategist at multiple award-winning agencies. She's also a regular panellist on the highly popular ABC Television Program 'Gruen', where advertising industry experts review and discuss marketing creative concepts. Carolyn regularly features in a variety of television shows discussing advertising, including Sunrise on Channel 7 and The Today Show on Channel 9.

Carolyn loves seeing brands and businesses succeed, and is passionate about bringing ideas to life. Her background as a strategist not only gives her great insight into the brand and advertising world, but also the heartland of consumer sentiment and shifting cultural trends.

She's the Founding Director of Communications Consultancy 'The Honeycomb Effect' where her client base includes high profile brands such as Nespresso, Yahoo!7, Pfizer, Lend Lease and The Australian Institute of Sport amongst many others.

She has a Bachelor's Degree in Communications, and an Executive MBA from the University of Technology Sydney.

ANTHONY MURFETT

DEPUTY HEAD | AUSTRALIAN SPACE AGENCY



Anthony Murfett is Deputy Head of the Australian Space Agency, where Anthony has oversight of strategy, policy and day-to-day operations and supports the Agency Head in monitoring the performance of the Agency.

Anthony has worked as Minister Counsellor, Industry, Science and Education at the Australian Embassy in Washington DC and as General Manager of the Growth Centres Branch within the Department of Industry, Innovation and Science in Canberra.

Anthony ensures the Agency delivers on its purpose to transform and grow a globally respected Australian space industry that contributes to productivity and employment across the Australian economy.

Dedicated to purpose, Anthony brings an entrepreneurial spirit to the Agency, valuing partnerships while drawing strength from diversity and pushing the boundaries of our knowledge.

As a road bike enthusiast, Anthony is not only at the forefront of space industry development, he is well on his way to cycling the distance to the moon (238,855 miles or 384,400 km), having ridden and competed across the country and the globe.

MASATOSHI NAGASAKI

CO-FOUNDER AND CEO | SPACE BD



Masa co-founded Space BD Inc. in September 2017. As a seasoned expert in business development in diverse industries including mining, steel, and education, he embarked on his new challenge in the space industry. Less than a year since his establishment of Space BD, the company was selected by JAXA as the official operator of satellite deployment services from the International Space Station Japanese Experiment Module "Kibo" which was the first commercialisation initiative taken by JAXA. Space BD is now a leading Japanese company in satellite launch services as well as ISS utilisation service. Prior to this, he founded Nagasaki & Co. in 2014, where he mainly engaged in business development in the field of education.

At the start of his career, he served at Mitsui & Co., Ltd., one of the biggest conglomerates in Japan. He spent four years working in Brazil and Australia, mainly for iron ore resource development and investment business.

He graduated from Waseda University with a bachelor's degree in education.

DR SARAH PEARCE

DEPUTY DIRECTOR | CSIRO ASTRONOMY AND SPACE SCIENCE



As the Deputy Director CSIRO Astronomy and Space Science, Dr Pearce leads engagement in the international Square Kilometre Array (SKA) project and was part of the negotiating team for the SKA Treaty. Sarah also leads CSIRO's space research, including operating a share of the NovaSAR-1 satellite facility.

Prior to joining CSIRO, Sarah was project manager of the UK's computing for particle physics program and a science advisor in the UK Parliament. She holds a PhD from the University of Leicester and an undergraduate degree in Physics from the University of Oxford.

RICHARD PRICE

CHIEF EXECUTIVE | SOUTH AUSTRALIAN SPACE INDUSTRY CENTRE



Richard Price was appointed Defence SA Chief Executive in October 2017. In this role, he was simultaneously appointed to the position of Chief Executive of the South Australian Space Industry Centre (SASIC).

Richard has worked within the defence and public safety sectors for over 25 years and has international industry experience in leadership, business development and engineering.

Prior to joining Defence SA and SASIC, Richard led a Stockholm based business unit for Saab AB with operations in Sweden, Denmark, Australia, South Africa and the UK. The focus was the global market for communication and control room solutions.

Before moving to Sweden in 2013, Richard was Managing Director of Saab's Australian operations.

Richard is an engineering graduate of the University of Wales (BSc Hons, 1985) and a graduate of the Melbourne Business School Advanced Management Program (2006) and the Australian Institute of Company Directors (2010).

Richard is also the Chair of Autism SA who help people on the autism spectrum live the life they choose in an inclusive society.

AVM CATHERINE ROBERTS AM CSC

HEAD | AIR FORCE CAPABILITY, ROYAL AUSTRALIAN AIR FORCE



Air Vice-Marshal Catherine Roberts has been a member of the Royal Australian Air Force for over 35 years, and is the most senior female aerospace engineer in the Australian Defence Force.

She became the inaugural Head of Air Force Capability on 01 Jul 2019 and is responsible for conceptualising and shaping the development and delivery of Air and Space power across the capability life cycle.

Cath's background includes flight test, aircraft maintenance, airworthiness and safety, support to operations, design and acquisition of aircraft and support systems, contracting, diplomatic postings and engagement with Australian and international industry.

Cath holds a Master's Degree in Defence Studies from University of Canberra and a Bachelor's Degree in Aerospace Engineering from RMIT. She is a Fellow of Engineers Australia, Member of Australian Institute of Company Directors and Defence representative on the Australian Space Agency Advisory Group.

STEPHEN RODDA

EXECUTIVE DIRECTOR | INNOVATION & COMMERCIAL PARTNERS THE UNIVERSITY OF ADELAIDE



A strategist with significant experience at Chief Executive and Director levels within technology development driven companies and the not-for-profit sector.

Stephen is committed to the successful translation of research into outcomes that deliver social and economic benefit to our communities. He has actively driven the formation and financing of more than 15 companies, securing more than AU\$300 million in investment, grants and other funding.

With a proven record for structuring and negotiating a variety of deals including strategic corporate partnerships, company acquisition, technology licences, joint venture, co-development and assignment transactions, Stephen has a truly international outlook with an established and demonstrated network of executive-level contacts across a variety of academic, government, commercial and investment groups in Asia, Europe, North America, New Zealand and Australia.

Stephen was educated at the University of Adelaide gaining a first-class Honours degree, a PhD in Biochemistry and was awarded the University Medal. Subsequently he was awarded the prestigious CJ Martin and Arthritis Foundation Fellowships for post-doctoral training at Harvard University.

STEPHEN RODDA (CONTINUED)

Stephen holds a Masters of Business Administration, is a Fellow of the Australian Institute of Company Directors and has undertaken the Advanced Management Program (AMP) at the Harvard Business School.

Stephen serves on The Hospital Research Foundation Group Board as Chair, which has grown to become the largest private funder of medical research in SA. He is Chair of BiomeBank, Australia's first stool bank, developing treatments for a variety of medical conditions.

ADJ PROF NICOLA SASANELLI AM

SENIOR ADVISOR | SOUTH AUSTRALIAN SPACE INDUSTRY CENTRE



Nicola graduated from the University of Bari, Italy in 1987 with a degree in Electronic Engineering. He went on to work as a researcher in microelectronics high-reliability components at Tecnopolis S&T Research Centre, Bari before being appointed as Scientific Attaché at the Embassy of Italy in Canberra from 2001 to 2008.

In 2009, Nicola joined the South Australian Government as a Special Envoy for higher education research and technology transfer to Europe and later became Director for International R&D Collaborations.

From 2003 to 2013 he was appointed as Adjunct Professor of Science and Technology at the University of Canberra, Australia, and in 2007 he became an Honorary Member of the Order of Australia.

In September 2017 the South Australian Space Industry Centre was created with Nicola as Director. His focus was to support space industry growth and increase international R&D collaborations in South Australia's space sector.

In 2018 Nicola was appointed Adjunct Professor at the University of South Australia – Division of Information Technology, Engineering and the Environment and he was appointed on the board of the Space Industry Association of Australia. In the same year he was also appointed to the Order of Merit of the Italian Republic by

ADJ PROF NICOLA SASANELLI AM (CONTINUED)

ANDREW SEEDHOUSE

CHIEF INTELLIGENCE, SURVEILLANCE AND SPACE DIVISION | DEFENCE SCIENCE AND TECHNOLOGY GROUP



the Italian Government for 'promoting high-tech industry and R&D collaborations between Italy and Australia'.

In 2019 Nicola joined the SmartSat Cooperative Research Centre as Director of Communication and Outreach, becoming Senior Advisor of South Australian Space Industry Centre. In 2020 Nicola founded the Andy Thomas Space Foundation, of which he is now CEO.

Nicola's main passion, outside of his interest in space, is painting.

Mr Andrew Seedhouse is Chief of the Intelligence, Surveillance and Space Division (ISSD) which is part of the Defence Science Technology Group (DSTG).

Andrew joined DSTG in 2017 after a long and distinguished career at the Defence Science and Technology Laboratory (DSTL) in the United Kingdom.

Andrew is responsible for the science and technology advice on surveillance and multi-sensor fusion. The Division research activities also cover space-based imaging to computational linguistics; from hyperspectral sensing to multi-hypothesis tracking; from facial biometrics to space-time adaptive radar processing; from electronic protection to first-order logics for symbolic reasoning.

Andrew is the Senior Responsible Officer for the DSTG STaR Shot Resilient Multi-Mission Space. This STaR Shot is part of the 'Defence 2030 S&T Strategy' where the introduction of a new Science, Technology and Research (STaR) Shot concept was introduced.

The STaR Shot hopes to strengthen and harness the national science and technology enterprise to deliver impact for Defence. The ambition is to stimulate innovation, build Australian Industry Capability (AIC) and support industry partners. The STaR Shot program will underpin Defence's commitment to growth in the national innovation sector, including in space research.

ALISA STARKEY

FOUNDER | OZIUS



Alisa Starkey is the founder of Ozius, an Earth Observation Analytics company based in Brisbane, Australia.

With a background in Marine Ecology, Alisa learned the benefits of utilising Earth Observation data when completing her Honours at the University of Wollongong. Over the next 19 years, Alisa dedicated her career to fusing artificial intelligence, earth observation data and environmental science to solve complex environmental questions.

Alisa founded Ozius in 2014 with a dream to make advanced Earth Observation analytics more accessible to end users outside of research and government. Ozius has since analysed millions of square kilometres of the earth's landscape on four continents and delivered new business intelligence to some of the world's largest enterprises.

Alisa has authored and contributed to numerous publications relating to Earth Observation science to assess environmental impacts of natural and man-made change including monitoring gully erosion and change, vegetation trend analysis, and more recently collaborating with aquatic ecologists from New South Wales and Queensland Governments to integrate Earth Observation into Water Resource Planning projects.

Alisa has recently commenced her PhD studying "Water dynamics in the landscape from Earth Observation analytics" at the University of Queensland.

BARBARA SWANSON

CHIEF REVENUE OFFICER
| MYRIOTA PTY LTD



Barbara Swanson is the Chief Revenue Officer of Myriota, the global leader in low-cost, low-power, secure direct-to-orbit satellite connectivity for the Internet of Things.

Barbara's 20 years as a global sales executive with specialised experience in SaaS technology has led her to become an industry leader today. She has achieved repeated success in scaling businesses globally by developing strategies that transform initial traction into lasting growth. Her expert knowledge and customer empathy enabled her to lead and scale organisations from AUD20-150+ million in revenue.

Utilising her genuine curiosity and understanding of customer pain, coupled with her fearlessness to ask the right questions, Barbara is able to devise global sales strategies tailored to overcome numerous pain points. Her in-depth knowledge and experience are taking Myriota global; introducing new satellite IoT solutions to a multitude of industries, including agricultural, transport and logistics, maritime, defence, environment, mining and utilities.

DR MATTHEW TETLOW

CHIEF EXECUTIVE OFFICER
| INOVOR TECHNOLOGIES



Dr Matthew Tetlow, founder and Chief Executive Officer (CEO) of Inovor Technologies, has worked in the space and defence sectors for more than 20 years.

After completing a Bachelor of Engineering in Adelaide, Matthew performed his PhD research at the Space Systems Institute in Stuttgart, Germany. Working as part of a European Space Agency funded program, he performed trajectory and system design studies, and developed an advanced guidance algorithm for application on future launch systems.

Matthew has worked on guidance and navigation algorithms for the Australian Scramjet program and performed stand-off and close air support weapon modelling for Defence. He has also undertaken systems engineering projects for Defence capability development and performed submarine design optimisation studies and analyses of aircraft stores.

In 2012, Matthew founded Inovor Technologies to work closer with Defence and to develop satellite technologies, focusing on small satellite platforms, space domain awareness, earth observation and remote sensing. As CEO he is responsible for strategic direction and innovation as well as customer and market development across the Defence and commercial sectors. In 2020, Inovor Technologies employs more than 35 staff at its headquarters in Adelaide, South Australia. The company's clients include the CSIRO and the Australian Department of Defence.

DR HIROSHI YAMAKAWA

PRESIDENT | JAPAN AEROSPACE
EXPLORATION AGENCY (JAXA)



Dr Hiroshi Yamakawa has been the President of the Japan Aerospace Exploration Agency (JAXA) since 2018. His previous work experience includes Member of Committee on National Space Policy, and Secretary General, Secretariat of Strategic Headquarters for Space Policy, Cabinet Secretariat.

Dr Yamakawa held a professorship at Research Institute for Sustainable Humanosphere, Kyoto University, and was appointed to Project Manager for the Mercury Exploration Mission "BepiColombo," JAXA Institute of Space and Astronautical Science (ISAS).

Dr Yamakawa also took various research positions including a visiting Scientist of the European Space Research and Technology Centre (ESTEC), European Space Agency (ESA); and a visiting Scientist of the Jet Propulsion Laboratory (JPL), National Aeronautics and Space Administration (NASA).

Dr Yamakawa earned his PhD (Engineering) from the Department of Aeronautics School of Engineering at the University of Tokyo.

EXHIBITOR PROFILES



ADVANCED TECHNOLOGY PROGRAM / DEPARTMENT FOR EDUCATION

DLB.SA.EDU.AU/ATMOODLE

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The Advanced Technology Program (ATP) is funded as part of the Defence Industry skilling and STEM Strategy School Pathways Program. Our aim is to help reduce skills shortages in defence industry by increasing the pool of STEM educated students, informing Australia's youth about industry employment opportunities and pathways and increase student awareness of defence industry (including space) as an employer of choice. We provide secondary students with positive career experiences in defence (and allied) industries through programs such as the Space Passport and Space Industry Work Experience. ATP also provides student activities and teacher professional development opportunities to enhance STEM capability, education and enterprise skills as well as enhancing student engagement, participation and enrolment in STEM subjects. We aim to increase focus on indigenous and female participation within all our activities and events. The ATP team is very excited about the space industry career opportunities for our students.

AIRBUS DEFENCE AND SPACE

AIRBUS.COM/SPACE.HTML

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AIRBUS

SILVER SPONSOR

Airbus is a global leader in aeronautics, space and related services. Airbus offers the most comprehensive range of passenger airliners. Airbus is also a European leader providing tanker,

combat, transport and mission aircraft, as well as one of the world's leading space companies. In helicopters, Airbus provides the most efficient civil and military rotorcraft solutions worldwide.

Airbus has over five decades of presence in Australia. With a strong local team of more than 1,500 employees working across 21 sites for civil and military fixed-wing and rotary wing aircraft.

Airbus is looking to substantially increase sovereign industrial space and defence capability in Australia through its bid to deliver sovereign military satellite communication capability for Australia and the Asia-Pacific Region. Through Team Maier, Airbus will bring Australian expertise and capabilities to the forefront of their solution, developing workshare and export opportunities for SMEs, job creation, technology transfer and innovation.

AMDA FOUNDATION LIMITED

AMDA.COM.AU

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PLATINUM SPONSOR

AMDA Foundation Limited is an Australian not-for-profit corporation established to promote the development of aviation and Australia's industrial, manufacturing and information/communications technology resources in the fields of aviation, aerospace, maritime, defence and security.

The Foundation achieves these goals by delivering Australia's most prominent and respected world-class biennial industry expositions as platforms for interaction between industry, defence, government and academia.

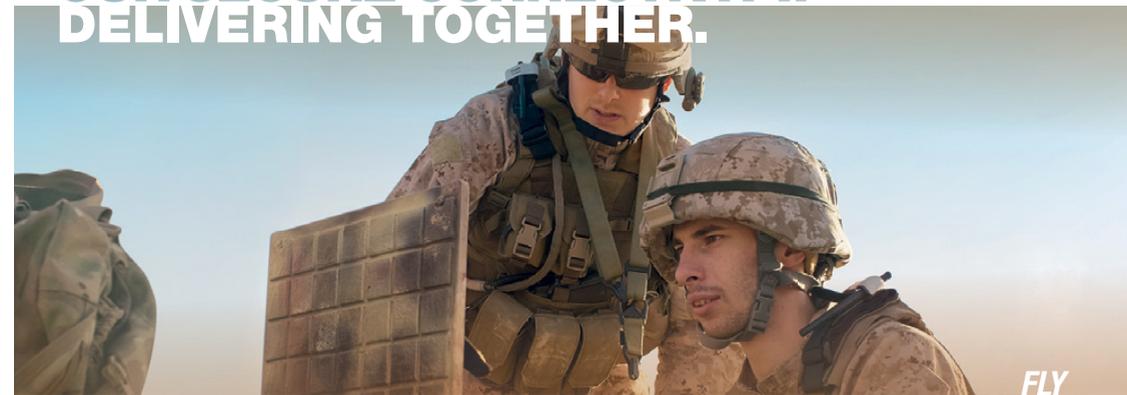
They connect Australia's key industry players with each other and with their counterparts from around the world, in the national interest, on an international scale.

The major events conducted by AMDA include:

- AVALON Australian International Airshow and Aerospace & Defence Exposition
- INDO PACIFIC International Maritime Exposition
- LAND FORCES International Land Defence Exposition
- ROTORTECH Helicopter and Unmanned Flight Exposition
- CIVSEC International Civil Security Conference

AMDA's expositions take Australia to the World by bringing the World to Australia.

YOUR CAPABILITIES. OUR SECURE CONNECTIVITY. DELIVERING TOGETHER.



Keeping your communications secure has never been more important. Our infrastructure expertise provides unparalleled protection and delivery. In fact we offer the most trusted, versatile and secure connectivity in the world. And that's not all. We'll help you manage a huge range of data sources to give you a clearer, more informed picture, so whatever the mission, you'll always have the upper hand.

Connectivity-secured. We make it fly.

airbus.com

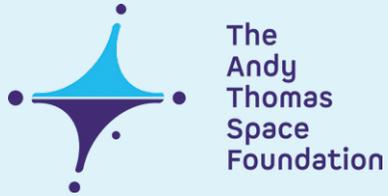
**FLY
WE MAKE IT**

AIRBUS

ANDY THOMAS SPACE FOUNDATION

ANDYTHOMAS.FOUNDATION

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The Andy Thomas Space Foundation was incorporated in 2020 as an Australian charity dedicated to supporting the education and outreach goals of the Australian Space Agency by identifying new ways to enhance space awareness among the Australian community to better tell the space story that touches every part of life on Earth.

Our main mission is to overcome disadvantage by supporting space outreach and education in Australia and inspiring young people to pursue careers in space - by building a culture of entrepreneurship and igniting a curiosity for space and related scientific activities among young Australians.

The Foundation will support a range of space education and outreach initiatives. It will be able to receive sponsorship, grants and tax-deductible donations from corporations and private individuals.

ARROW ELECTRONICS | ANALOG DEVICES INC. (ADI)

ANALOG.COM/SPACE

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MIL-PRF electronic and electromechanical components, radiation-tolerant microprocessors, FPGA's, converters, amplifiers, multiplexers, RF & microwave, sensors, specialized lightweight space cabling, connectors solutions from the world's most recognised global OEM component manufacturers.

Analog Devices, Inc. (ADI), is a global semiconductor company with a 50+ year history of delivering a full range of aerospace, defence and space qualified components and radiation-hardened electronics and technology solutions. ADI specialises in SWaP+C, COTS, Enhanced Products (EP), GaN, data conversion, signal processing and power management space-grade technologies. With QMLV-certified facilities, extensive experience with traditional space products, and end-to-end signal chain capabilities, ADI is your best opportunity to achieve new heights in space.

COFFEE CART SPONSOR

Arrow Electronics is the world's largest semiconductor distributor of space and defence grade electronic components and technologies. Arrow specialises in the supply of high-reliability space and

AUSTEST LABORATORIES

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With test facilities in Adelaide, Melbourne and Sydney, Austest Labs offers the most comprehensive range of aerospace testing services in the country, including shock, vibration, altitude, temperature inc thermal shock, humidity, pressure, salt-fog and solar test chambers. Austest Labs is formally accredited for major aerospace and defence standards such as MIL-STD-461, MIL-STD-810, MIL-STD-167, MIL-STD-202, DEF STAN 00-35 and RTCA DO-160 along with testing capabilities for Accelerated aging, UV-A and UV-B radiation, Solar radiation and Salt (Corrosive) Atmospheres.

AUSTRALASIAN SOCIETY OF AEROSPACE MEDICINE

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Australasian Society of Aerospace Medicine - Promoting the science of aerospace medicine.

ASAM aims:

- To cultivate and promote aerospace medicine and related sciences;
- To provide an authoritative body of opinion on matters of aerospace medical significance; and
- To increase the awareness of the aerospace industry, government, and the general public of the importance of aerospace medicine to flight safety.

The aims of ASAM are supported by the John Lane Aerospace Medicine Trust. The John Lane Aerospace Medicine Trust provides an opportunity for members and others to support ongoing research into aerospace medicine.

COFFEE CART SPONSOR

AUSTRALIAN SPACE AGENCY

SPACE.GOV.AU

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T 1800 497 182 (within Australia)
or +61 2 6276 1166



SUPPORTING SPONSOR

AVALON 2021 - AUSTRALIAN INTERNATIONAL AIRSHOW AND AEROSPACE & DEFENCE EXPOSITION

AIRSHOW.COM.AU

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AUSTRALIAN INTERNATIONAL
AIRSHOW 2021

From 23-28 November 2021, the Australian International Airshow and Aerospace & Defence Exposition (AVALON 2021) will provide a key engagement and

The Australian Space Agency's purpose is to transform and grow a globally respected space industry to lift the broader economy, inspire and improve the lives of Australians. As Australia's national space agency, it coordinates civil space matters across government and supports the growth of the Australian space sector.

The Agency is responsible for delivering key space programs that develop national space capability and infrastructure, unlock international space collaboration, and inspire and build a future space workforce. It is also the regulator of Australian space related activities and a facilitator for collaboration across industry, government and academia.

This is all supporting the Australian Space Agency's goal to triple the size of Australia's space industry to AU\$12 billion and create up to 20,000 new Australian jobs by 2030.

promotional platform for Australia's developing space industry.

The Space Industry Association of Australia and AVALON jointly hosted the inaugural Australian Space Industry Conference at AVALON 2019, and will return with an expanded conference program at AVALON 2021.

AVALON 2021 will also feature a dedicated space industry exhibition precinct, adjacent to the Australian Space Agency's presence at the event. This precinct will provide visibility for small to medium Australian space businesses, offering exposure and engagement alongside major international prime contractors and government and civil customers.

Offering a unique scale and diversity of industry participation, AVALON 2021 will foster the engagement and interaction that are fundamental to achieving the Australian Space Agency's goal of tripling the size and revenue of Australia's space sector.

AXIOM PRECISION MANUFACTURING

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Axiom Precision Manufacturing is a family owned 40 year old Australian Precision Manufacturing company that services the aerospace, space and defence industries. Axiom specialises in the design and precision manufacture of Electromechanical hardware/components, assemblies and sub-assemblies. Certified to AS9100D Aerospace & Space.

BOEING

BOEING.COM.AU

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SILVER SPONSOR

Boeing has a long history of space-related projects in Australia. The company's defence programs include the Boeing-built Wideband Global SATCOM (WGS) and IS-22 satellites used by the Australian Defence Force (ADF) and the Currawong Battlespace Communications System,

which includes Australian-developed satellite terminals for accessing the WGS network. Boeing Australia is also developing innovative approaches to astronaut training, spacecraft design and crew health that will be transitioned to the United States and applies its industry leading modelling and simulation capabilities to enhance decision support and concept exploration in the space domain. Our research partnerships span CSIRO, the Air Force Research Laboratory, Defence Science and Technology Group, University of Queensland and Adelaide-based Myriota to help develop technology that will build new jobs for Australia's future. Boeing Australia's strategic R&D investments support the Australian Space Agency to grow Australia's space industry and the ADF expand its space-based and space-enabled capabilities.

BUREAU OF METEOROLOGY

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Australian Government
Bureau of Meteorology

EVENT SPONSOR

The Bureau of Meteorology is Australia's national weather, climate and water agency. Its expertise and services assist Australians in dealing with the harsh realities of their natural environment,

including drought, floods, fires, storms, tsunami and tropical cyclones. Through regular forecasts, warnings, monitoring and advice the Bureau provides one of the most widely used services of government. Earth observations from space underpin most of the services delivered for emergency management, defence, aviation, and general public. The Bureau also provides space weather information and warning services working closely with key industries to support operations and infrastructure exposed to space weather risks, such as the space, aviation, energy, telecommunications and defence industries. The Bureau is working with the Australian Space Agency and Government partners such as CSIRO and Geoscience Australia to support the growth of the Australian space industry, to ensure Australia is a trusted and responsible participant in the global space economy.

CAPRICORN SPACE PTY LTD

CAPRICORNSPACE.COM.AU

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Capricorn Space is a proudly Australian owned and operated company providing ground segment services to the satellite and space markets. Our initial site near Geraldton in Western Australia possesses many unique aspects not found elsewhere in Australia: including the ability to readily secure ACMA licences, redundant power, diverse high speed communications, on-site support and a pristine atmosphere for supporting higher frequency and optical based services.

We offer three service models to support all aspects of the market: Retail (use our antennas and modems to communicate with your satellite), Hybrid (connect your customised indoor equipment rack to our antennas) and Landlord (establish your own capability by placing your antennas and indoor equipment at our site).

If always-on service availability and long-term investment certainty are important to you then please come and talk to us.

CITY OF SALISBURY

SALISBURY.SA.GOV.AU

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EVENT SPONSOR

Located 15 kilometres north of the Adelaide CBD, the City of Salisbury is the fourth largest economy in the State and at the centre of South Australia's economy. Home to the Edinburgh Defence Precinct including Defence Science and Technology Group - Edinburgh, RAAF Edinburgh, Technology Park and Edinburgh Parks, and with an active civil and defence space community of industry, universities, research centres, and government, the City of Salisbury holds an important position in the Australian defence and space industries. We are the location of choice for international primes including BAE Systems Australia, Lockheed Martin Australia, SAAB Australia, L3 Harris, Northrup Grumman, General Dynamics Land Systems Australia, and Raytheon Australia, supported by a growing number of innovative SMEs that are playing a crucial role in the future of defence and space activity. If you are a defence or space company, Salisbury is where you need to be.



INNOVATION THAT'S OUT OF THIS WORLD

Vision and perseverance are the launch pads of innovation. Boeing is proud to salute those who combine vision with passion to turn dreams into reality.



CSIRO

CSIRO.AU

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T 1300 363 400



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TECHNOLOGY PARTNER

CSIRO have a range of industry support mechanisms to help businesses – both large and small – overcome barriers to innovation. We collaborate with industry, including the start-up sector, providing technical support based on our leading-edge capabilities in space

technologies to help streamline and enhance both the R & D and the operation of projects.

We have a long and accomplished heritage in the space sector including our work with NASA, ESA and JAXA as well as other international space agencies – exploring our Solar System and beyond, providing mission support activities and managing complex facilities for space object tracking.

We're also a world leader in advanced manufacturing technologies, radio astronomy and recognised experts in developing remote sensing technologies used for Earth observation as well as our work in data modelling, analytics and development of applications such as Data Cubes.

Our investment in high-performance computing infrastructure and expertise in handling big data allows us to develop insights and solutions to tackle Australia's biggest challenges and opportunities.

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DEDICATED SYSTEMS AUSTRALIA

DEDICATEDSYSTEMS.COM.AU

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E team@dedicatedsystems.com.au
T +61 8 8299 9333



Dedicated Systems have been a supplier to the space industry in Australia and NZ since 2014. Our products were designed from the ground up to address the challenges of space and include:

- Ruggedised compute platforms
- Software to ensure reliable operation of critical components
- Cost effective data acquisition solutions.

DELOITTE

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Deloitte.

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At Deloitte, we are driven to create an impact that matters at every opportunity

Over our 175-year history, we have built a reputation for impactful delivery across audit and assurance, consulting,

financial advisory, risk advisory, tax, and technology services. Supported by a strong leadership team, and member firms from over 150 countries across the globe, Deloitte Australia is in the business of solving complex problems. Innovation is the oxygen that powers us, enabling us to embrace the unknown, the chaos, the mayhem, because we know this is where the magic can happen.

Today's environment of accelerating change requires creative problem-solving generated by the fusion of different disciplines. Deloitte's multi-dimensional approach addresses the breadth of perspective needed to deliver breakthrough solutions. We connect the talents of more than 310,000 professionals and our IP and technology alliances—collaborating to drive impact.

To explore how we can make an impact that matters with your organisation, let's connect.



Serafino Wines, a family owned business since 1972, has developed a reputation as one of Australia's most respected wineries and leading producers.

If the 'vines by the sea' vibe of the region hasn't already charmed, then the incredibly scenic setting for the Serafino Cellar Door, restaurant, accommodation, conference facilities, major events and function centre surely will.

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DEPARTMENT OF DEFENCE

DST.DEFENCE.GOV.AU

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Australian Government
Department of Defence

EVENT SPONSOR

As Australia's second-largest national science agency, the Defence Science and Technology Group at Department of Defence, brings together interdisciplinary expertise from Australia and the world to

address Defence and national security challenges. Our role is to work closely with the Australian science, technology and innovation eco-system to deliver scientific advice and solutions that provide capability enhancement for Defence and the national security community.

Our scientists work with our counterparts from universities, co-operative research centres, academies and industry to tackle a range of problems, across the maritime, land, air, space and cyber domains.

Our partnerships with industry and universities are integral to giving Australia a technological and capability edge. Through More, Together: Defence Science and Technology Strategy 2030 we are building a comprehensive, coherent and agile innovation system. We are collaborating across Government, industry and academia to grow our talent pipeline and inspire future generations of Australians into science, technology, engineering and mathematics careers.

DEPARTMENT OF FOREIGN AFFAIRS AND TRADE

DFAT.GOV.AU

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Australian Government
Department of Foreign Affairs and Trade

DFAT's primary role is to make Australia stronger, safer and more prosperous, to provide timely and responsive consular and passport services and to ensure a secure Australian Government presence overseas. In the Space sector, as innovation flourishes, DFAT collaborates with federal and state government agencies to pursue economic opportunities, whilst developing international cooperation on the peaceful uses of outer space. Australia aims to ensure the benefits of long-term sustainability, safety and security in space are shared internationally. Space is also an increasingly contested domain which brings both opportunities and risks for Australia. Nurturing and protecting our interests in space is core business for the Australian Government, so DFAT works to shape rules and norms on responsible behaviour in space within the United Nations and other forums.

DEPARTMENT OF HOME AFFAIRS

IMMI.HOMEAFFAIRS.GOV.AU/VISAS/WORKING-IN-AUSTRALIA/VISAS-FOR-INNOVATION/GLOBAL-TALENT-INDEPENDENT-PROGRAM

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GlobalTalent@homeaffairs.gov.au
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Australian Government
Department of Home Affairs

The Global Talent Visa Program is a streamlined visa pathway for highly skilled professionals to work and live permanently in Australia. The Program is designed to help grow our innovation and tech economies. This will create opportunities for Australians by transferring skills, promoting innovation, and creating jobs.

The Program targets the brightest and best global talent in seven future-focused sectors – Space and Advanced Manufacturing; AgTech; FinTech; Energy and Mining Technology; MedTech; Cyber Security; Quantum Information, Advanced Digital, Data Science and ICT.

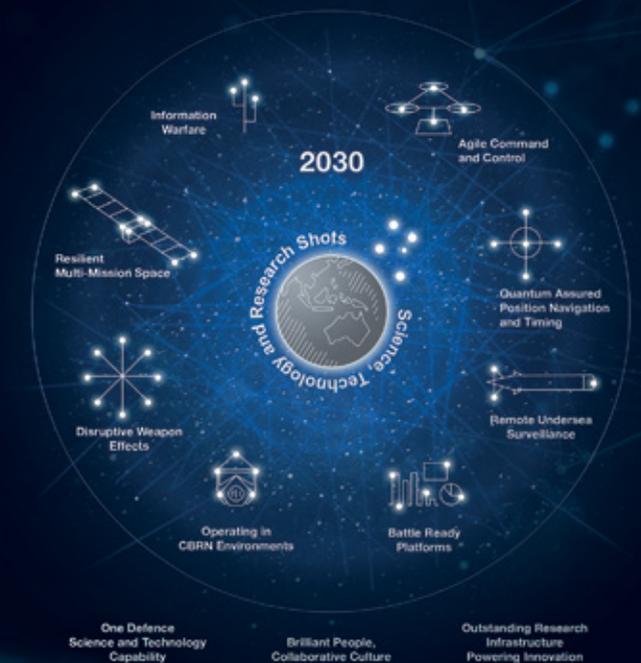
The Space and Advanced Manufacturing sectors are both focus areas for the Australian Government. These sectors are undergoing significant global transformation and are important parts of our economy, now and into the future. In 2020-2021, there are 15,000 places available under the program. For more information, visit www.homeaffairs.gov.au/global-talent



Australian Government
Department of Defence

More, together: Defence Science and Technology Strategy 2030 marks an important step in taking Defence into the future to deliver strategic advantage across the full spectrum of Defence capabilities. If you would like to come on this journey, and have innovations or ideas that would be of interest to Australia's defence and national security, we want to hear from you.

Learn more about our space focused STaR Shot at dst.defence.gov.au/strategy



DEWC SYSTEMS

DEWC.COM

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T +61 479 133 392



Conceive. Innovate. Deliver. Repeat.

DEWC Systems primarily develops novel and effective solutions to sophisticated challenges faced by the Australian Defence Force and the defence industry in the electromagnetic battlespace. We have collaborated with universities, DSTG, Defence and other industries to solve interesting problems from the outset.

DEWC Systems developed a strong reputation for innovation and helped lead Australia into the Space 4.0 era being the first Australian company to launch a payload on a space capable rocket from Australian soil.

Our work in defence and space has given us a line of products that have application across various industries, including Mining, Information Technology, IoT and Cyber Security. DEWC Systems can offer truly sovereign alternatives and develop solutions that can be tailored for industry needs.

ELMTEK PTY LTD

ELMTEK.COM.AU/SPACE

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elmTEK is a leader in Simulation and Test and Evaluation (T&E) systems development. We are a focussed team of scientists and engineers across physics, mathematics, cognitive science, systems, software, and mechatronic engineering disciplines. Central to our value proposition is our ability to collaborate with our clients and supply chain partners to blend science, technology, innovation and reliable engineering principles to get the right information and technology into the field faster.

Our Space Capabilities include:

- Human Performance Measurement Systems
- Human Health Countermeasures Technologies
- Earth & Environment Observation Sensors
- Ground Systems
- Data Visualisation & Data Analytics.

GENTEX CORPORATION

GENTEXCORP.COM

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GENTEX Corporation is an Innovation Partner for many of today's Advanced Aerospace platforms including the Joint Strike Fighter (JSF 35) Program. GENTEX Corporation is called upon for specialized projects that require customization of personal protective products for NASA programs, such as the early Space Shuttle missions, and commercial projects, such as Burt Rutan's Scaled Composites and SpaceShipOne repeated launch as part of the race for the Ansari X Prize. Over 126 years of superior performance has firmly established a "world's best" reputation and pedigree and as such GENTEX Corporation, is recognised as a global leader in personal protection and situational awareness solutions for defense forces, emergency responders, and industrial personnel. We provide product, services and support for end users within the Commercial Air, Military, Space and Life Support Equipment sectors.



NASA bound, people focussed.

Australian developed neuro-sensory performance monitoring and rehabilitation systems.



Australian Government
Geoscience Australia

Geoscience Australia Bringing the benefits of space to all Australians



ga.gov.au/space

GA PP-3682

GEOSCIENCE AUSTRALIA

GA.GOV.AU

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Australian Government
Geoscience Australia

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Geoscience Australia is Australia's pre-eminent public sector geoscience organisation. We are the nation's trusted advisor on the geology and geography of Australia, and apply science and technology to describe and understand the Earth. Geoscience Australia has a long history of bringing the benefits of space down to Earth – both globally and locally. Under the Australian Civil Space Strategy, we lead the delivery of operational earth observations and a world-class positioning infrastructure to boost economic growth and improve the lives of all Australians.

GRAVITY CHALLENGE

GRAVITYCHALLENGE.SPACE

Contact: Rosie Jonas
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Deloitte, AWS and the UK Space Applications Catapult and supported by Lot Fourteen, Pivotal, Airbus, Land Services SA, Maxar, Planet, Geoscience Australia, Southern Launch, Saber Astronautics, Stone & Chalk and SmartSat CRC.

Since inception the GRAVITY Challenge program has experienced a stellar 350% growth, boasts a space innovator community of 300+ teams (and growing!) and tackles high value industry, government and community challenges across a range of sectors and issues including defence, mining and energy resources, insurance, utilities, telecommunications, transportation, agriculture, healthcare, environmental and emergency management.

Leveraging space data and space capability, the program brings together entrepreneurs, universities, government and businesses and is making an impact that matters to real world issues.

The GRAVITY Challenge is a compelling demand driven space innovation program initiated in Australia, now scaling out globally, through a purposeful collaboration involving the Government of South Australia, the Australian Space Agency,

HAMILTON SECONDARY COLLEGE

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HAMILTON
SECONDARY COLLEGE
Space
SCHOOL

Our vision is to create innovative STEM leaders of tomorrow who confidently build a better future. We strive to deliver a contemporary and rigorous curriculum that excites our students and instils passion and love for STEM learning. Our graduates will be forward thinkers, innovators, leaders and shapers in the space and medical sector. Our core commitments consist of delivery of cutting edge teaching and learning that enables our graduates to be globally competitive and building dynamic partnerships so that our students know about and are at the forefront of career opportunities that exist for them. Hamilton Secondary College Space School offers programs in challenging and immersive space curriculum, clubs, challenge camps, excursions, conferences, competitions and Mission to Mars challenges.

INOVOR TECHNOLOGIES

INOVOR.COM

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INOVOR
TECHNOLOGIES

Inovor Technologies is a world-leading supplier of next generation small satellite technology.

Our unique low-cost, disaggregated technology has the flexibility to host an extensive range of technical applications including communications, remote sensing, imaging, and scientific payloads.

We are positioned at the centre of Australia's growing space hub at Lot Fourteen, and uniquely, all hardware is manufactured in Australia.

In addition to providing turnkey solutions for commercial, government and research clients who want missions flown in space, Inovor is also developing a satellite-based Space Domain Awareness (SDA) mission called Hyperion to enhance Australia's SDA capability. Further missions in Earth Imaging and Remote Sensing are also under development.

Inovor has developed significant intellectual property related to its satellite platform and SDA mission technology. We have a robust Engineering Management System to support the delivery of reliable, world-class satellites, and we do it all in Australia.

ITALIAN CHAMBER OF COMMERCE & INDUSTRY IN AUSTRALIA INC.

ICCIAUS.COM.AU

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ITALIAN CHAMBER OF COMMERCE AND INDUSTRY
in australia inc.

The Italian Chamber of Commerce and Industry in Australia was established in 1922 with the objective of promoting trade and commerce between Italy and Australia. ICCIAUS has helped a countless amount of companies in both Nations become successful in their business ventures, as well as fostering a range of trade developments. Our Chamber of Commerce is at the forefront of business both in Australia and in Italy, assisting in trade and investments in both directions in all sectors: from infrastructure to aerospace and from manufacturing to retail. ICCIAUS is the oldest and most active Italian Chamber of Commerce in Australia and it is part of the Sistema Italia together with the Italian Embassy, the Consulate General, the Italian Trade Agency and other Italian Institutions. Our network counts 81 Italian Chambers worldwide, operating in 58 countries, assisting 25,000 members, a global turnover of \$75Mln and over 2,500 employees.

JAPAN AEROSPACE EXPLORATION AGENCY

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The Japan Aerospace Exploration Agency (JAXA) was established in 2013 as a core performance agency to support the Japanese government's overall aerospace development and utilisation. JAXA therefore, can conduct integrated

operations from basic research and development, to utilisation and took a new step forward to achieve optimal R&D achievements for Japan, according to the government's purpose of establishing a national R&D agency.

JAXA formulate implementation plans based on the goals of Japan's space policy:

- (1) Contributing to a wide range of national interests
 1. Ensuring space security
 2. Contributing to disaster management, national resilience, and resolving global issues
 3. Creation of knowledge through space science and exploration
 4. Realising economic growth and innovation for which space is the driving force
- (2) Strengthening the comprehensive basis of Japan's space activities including industrial, scientific and technological basis.
Budget: 188.8 Billion JPY (JFY2020)
Staff: 1,552 (As of April 1, 2020)

JARMYN ENTERPRISE SPACE PTY LTD

JARMYNENTERPRISESPACE.COM

Contact: Malcolm Jarmyn
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T +61 423 124 891



Jarmyn Enterprise Space Pty Ltd was officially established in August 2020. Jarmyn Enterprise Space has been planning its space activities since 2018, with long term ambitions until 2050, in areas involving advanced aerospace propulsion, launch vehicles, aerospace UASs, space infrastructure, etc. Current operations focus on the growing space market in South Australia, catering for cubesat and nanosat launches.

NEUMANN SPACE

NEUMANNSPACE.COM

Contact: Herve Astier
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T +61 406 801 550



Neumann Space is a South Australian company developing an efficient and scalable in-space electric propulsion system for satellites. The Neumann Space thruster marks a revolution in the field of satellite propulsion. Our lightweight products use our patented Centre-Triggered Pulsed Cathodic Arc Thruster (CT-PCAT) technology to convert solid conductive propellants into plasma and produce thrust. Our product range creates value for our customers in all space operations and travel. For example, our thruster can fulfil all requirements for Low Earth Orbit (LEO) mission profiles such as extending mission lifetimes, station keeping, orbit raising, constellation phasing, inclination changes, de-orbiting and more. Neumann Space is the only Australian company able to provide a sovereign in-space electric propulsion system capability. With Neumann Space, Australia will be poised to take advantage of the rapidly growing global CubeSat and SmallSat markets.

LEONARDO AUSTRALIA

LEONARDOCOMPANY.COM/EN/GLOBAL/OCEANIA/AUSTRALIA

Contact: Mr George Coulloupas
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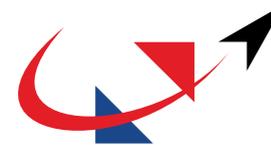


Leonardo Australia is the regional subsidiary of Leonardo, a global high-tech company and a key player in aerospace, defence and security. Leonardo Australia has been supplying Australia since 1885 and has a mandate to represent all Leonardo Lines of Business, Subsidiaries and Joint Ventures in Australia and New Zealand. The principle business activities of Leonardo Australia rest within helicopters, naval projects and electronics as well as a new Maintenance Repair and Overhaul Facility, currently being established in Victoria. Alongside developing projects with SmartSat CRC, Leonardo Australia is preparing to deliver world leading geo-information expertise and unique access to dual military and civil satellites provided by e-GEOS, a joint venture of Telespazio (80%) and the Italian Space Agency (20%).

NOVA SYSTEMS

NOVASYSTEMS.COM

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Nova Systems

Nova Systems is celebrating its 20th year of participation in Australia's defence industry. Since 2000, we have been successfully solving complex challenges that matter for organisations, in Australia, and around the world.

Nova Systems has strong capabilities in remote sensing, mission planning, geospatial intelligence and space operations. In South Australia, the company's Nova IGS Network is providing space ground connectivity for small satellite operators with the site now being used by international clients including Tyvak USA and RBC USA. Based on a 21 hectare site in Peterborough in South Australia's mid north, the site is used to track low earth orbit satellites through customer's own terminals and Nova has plans to attract further European companies over upcoming years. Nationally, Nova Systems has signed an agreement with the Australian Space Agency for the provision of specialist advice in support of turnkey launch, re-entry and ground capability services.

ROHDE & SCHWARZ (AUSTRALIA)

ROHDE-SCHWARZ.COM.AU

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T +61 402 590 264

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The Australian subsidiary of Rohde & Schwarz, has been operating in Australia since 1981. In the space domain we can assist with:

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- Antenna and EMC test systems and solutions

- Multi-constellation GNSS simulation and receiver testing
- Ground station and ground terminal testing
- Timing Systems and Solutions
- Communication System Monitoring
- Quality of Service Monitoring
- Satellite Uplink Amplifiers
- Air Traffic and Marine Radio Systems
- Spectrum Monitoring

Rohde and Schwarz develops and manufactures electronic goods for defence, industry, infrastructure operators and government customers.

The independent group is among the technology leaders in integrated communications solutions, including wireless communications and RF test and measurement, broadcast and media, air traffic control and military communications, cybersecurity and network technology.

SABER ASTRONAUTICS

SABERASTRO.COM

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Saber Astronautics' mission is the democratisation of space, reducing barriers to space flight, and making space as easy as driving a car. Saber uses next-generation space mission control software developed by an experienced team of space operations, systems control, UX, and robotics experts. Saber brings together the latest techniques in human factors, artificial intelligence, and dynamic 3D data visualisation to make it easy for spacecraft operators to monitor, fly, and rapidly diagnose faults in spacecraft systems in various innovative ways.

Saber Astronautics has recently been selected for a \$6 Million grant for the development of Australia's Mission Control Centre, located at Lot Fourteen, Adelaide. Branded as the "Responsive Space Operations Centre" (RSOC), Saber will bring next generation space mission control technologies to make it easier to fly new spacecraft. Capabilities include concurrent design, pre-flight testing, launch support, as well as live operations during flight.

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SITAE AUSTRALIA

SITAEAUSTRALIA.COM

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Sitae is the largest privately-owned space company in Italy and worldwide leader in Small Satellite production (50kg to 300kg), Satellite Avionics and Electric Propulsion. Sitae Australia was established in 2018 to design and manufacture small satellites in Australia for Australian and regional customers, and is currently working on multiple spacecraft programs locally.

SMARTSAT CRC

SMARTSATCRC.COM

Contact: Andy Koronios
E Andy.koronios@smartsatcrc.com
T +61 438 851 905



SMARTSAT COOPERATIVE RESEARCH CENTRE

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Established in July 2019, the SmartSat Cooperative Research Centre brings together over 100 national and international partners who have invested over \$190 million, along with \$55 million in Federal Government funding under its Cooperative Research Centres Program, in a \$245 million research effort over seven years. Working closely with the Australian Space Agency, SmartSat will make a strong contribution to the Australian Government's goal of tripling the size of the space sector to \$12 billion and creating up to 20,000 jobs by 2030. Priority industry sectors for SmartSat include telecommunications, agriculture and natural resources, transport and logistics, mining, and defence and national security.

SOLINNOV

SOLINNOV.COM.AU

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solinnov

Solinnov Pty. Ltd. is a privately-owned Australian company (SME) focussing on providing customised solutions in high-performance embedded signal processing systems. We design innovative real-time signal processing algorithms with the capacity to interpret and transmit signals within software defined radios. With a sophisticated intellectual property (IP) library and successful track record of exceeding customer expectations, we are competitive both locally and on an international scale, delivering to Defence and commercial sectors.



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Australian Government
Department of Industry, Science,
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Cooperative Research
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SOUTHERN LAUNCH

SOUTHERNLAUNCH.SPACE

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Southern Launch is a privately owned Australian space launch services company headquartered in Adelaide, South Australia. Southern Launch evaluates, designs and operates rocket and UAV test ranges around the world, as well as providing launch service provisions to payload customers. In South Australia, Southern Launch owns and operates the Koonibba Test Range (KTR), a 145km long sub-orbital range in the Australian Outback, and are developing the Whalers Way Orbital Launch Complex (WWOLC) on the southern coastline of South Australia to address an identified emerging gap in the high inclination orbital rocket launch market.

STONE & CHALK

STONEANDCHALK.COM.AU

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Stone & Chalk is a non-profit that exists to nurture, connect and propel entrepreneurs seeking to solve the world's most pressing business and social challenges. In 2019 Stone & Chalk partnered with the South Australian government to launch the Startup Hub at Lot Fourteen in Adelaide, where it supports leading Australian SpaceTech companies and acts as a center of gravity for entrepreneurship in South Australia.

TCL HOFMANN

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Adelaide Section,
American Institute of Aeronautics
and Astronautics

AIAA - The American Institute of Aeronautics and Astronautics, is the world's largest professional society dedicated to aerospace activities, with over thirty thousand members worldwide. The Adelaide Professionals Chapter of the AIAA is proud to carry out the mission of the Institute here in Adelaide and more broadly throughout our community and region by advocating for aerospace at all levels. For more information about the AIAA, please visit <https://www.aiaa.org/>

THE UNIVERSITY OF ADELAIDE

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innovation and preparing the educated leaders of tomorrow. Australia's third oldest university, the University of Adelaide is proudly ranked in the top one percent of universities in the world. Adelaide has more than 100 Rhodes Scholars among its distinguished alumni and is associated with five Nobel Laureates. We attract academic staff who are global leaders in their fields, along with the best and brightest students.

The Andy Thomas Centre for Space Resources is the University of Adelaide's hub of sustainable planetary resource research, offering a pathway to a unique education and research ecosystem for space resources research and commercialisation.

The Centre brings together research strengths in areas such as resources, processing, manufacturing and engineering to address the challenges faced by long term planetary exploration whilst also ensuring the near-term application here on Earth.

VENTURE CATALYST SPACE - UNISA

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VENTURE
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University of
South Australia

Venture Catalyst Space is a globally competitive program which supports founders of startups to develop and grow innovative or disruptive ideas that contribute to the space sector. Delivered by the University of South Australia's Innovation & Collaboration Centre and supported by the State Government's Space Innovation Fund, the equity-free program gives founders funding, mentoring, and industry networks to help successfully build a scalable and investment ready business.

The one-of-a-kind program delivers individualised support and guidance working with a global pool of industry experts including former NASA astronaut Pam Melroy, the Australian Space Agency, Airbus, Nova Systems, Fleet, Saber Astronautics, Myriota and the SmartSat CRC as well as access to Entrepreneurs in Residence based onsite. Applications for the next cohort are closing soon. lcc.unisa.edu.au



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