

South Australian Defence Summit

27 – 29 August 2024 | Adelaide Convention Centre, SA

SPEAKERS INCLUDE:



The Hon Matt Thistlethwaite MP,
Assistant Minister for Defence



The Hon Stephen Mullighan MP, **Treasurer and Minister for Defence and Space Industries, South Australia**



Jim McDowell, *Deputy Secretary Naval Shipbuilding and Sustainment*, **Department of Defence**



Kate van Hilst, *First Assistant Director General – SSN Construction*, **Australian Submarine Agency**



Emily Hall, *Assistant Secretary Defence Export Control*, **Department of Defence**



Prof Emily Hilder, *Head, Advanced Strategic Capabilities Accelerator*, **Department of Defence**



Michael Humphreys, *Director Pillar 1 (AUKUS)*, **Huntington Ingalls Industries**



Mia Romeo, *Regional Manager*, **Department of Commerce, Maryland USA**



Dr Robert Hunjet, *Associate Professor, Program Leader – Australian Defence Science and Universities Network*, **DSTG**



Dr Sylvie Perreau, *Chief Sensors and Effectors Division*, **DSTG**



Ben Knabe, *Director, Product Support, Training and Maintenance (PST&M) Capability*, **Boeing**



Rachel Botting, *Head of People and Culture*, **ASC**



LTCOL Jake Penley, *Commanding Officer 1st Armoured Regiment*, **Australian Army**



LTCOL Sharon Mascall-Dare OAM PhD, *Cognitive and Information Warfare Directorate*, **ADF**



Gary Stewart, *Chief Executive Australia Sector*, **Qinetiq**



Dr Mel McDowall, *Director*, **Defence Artificial Intelligence Research Network**

FEATURING

27TH AUGUST
DEFENCE TRADE
CONTROLS FORUM



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29TH AUGUST
DEFENCE AI AND INDUSTRY
SYMPOSIUM



DEFENCE TRADE CONTROLS AMENDMENT ACT FORUM, TUESDAY 27TH AUGUST

Defence Export Controls will provide an understanding of why, when and what changes are occurring to Australia's Defence Export Controls framework resulting from the new *Defence Trade Controls Amendment Act 2024*. Hear how these changes might affect you.

Learn about DSSL Technology – What is it?; Self-Assessment – How can you do it?; Joining the AUKUS Community – What steps are involved?; Exporting in a new context – How will Defence support you in your compliance obligations?

Speaker

Emily Hall, *Assistant Secretary Defence Export Controls, Department of Defence*

DEFENCE EXPORT CONTROLS INFORMATION SESSION

13:00 Regulatory Amendments and Compliance Support

Defence Export Controls will introduce the key changes that are occurring to Australia's Defence Export Controls framework resulting from the new *Defence Trade Controls Amendment Act 2024*.

WELCOME RECEPTION | 17:30 – 19:00

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South Australian Defence Summit

Wednesday 28 August 2024 | Plenary Sessions

8:20 OPENING | Opening remarks from the Chair

8:30 STATE GOVERNMENT ADDRESS

Stephen Mullighan MP, **Treasurer and Minister for Defence and Space Industries, South Australia**

8:50 How South Australia is best placed to deliver future capability for Australia's fighting forces

- Building on the advantages of our world-class research, innovative delivery, and highly skilled workforce
- Addressing the key challenges for future growth in South Australia's Defence sector
- Easing the path for SA contractors to access global supply chains

Matt Opie, *Chief Executive, Defence SA*

9:10 INTERNATIONAL ADDRESS | Accessing US Supply Chains

- Implications of the South Australia and Maryland AUKUS pact
- A collaborated approach to developing the skilled defence workforce
- Connecting South Australian companies with US organisations with shared areas of expertise
- Developing common research projects

 Mia Romeo, *Regional Manager, Department of Commerce, Maryland USA*

9:30 FEDERAL GOVERNMENT ADDRESS

The Hon Matt Thistlethwaite MP, **Assistant Minister for Defence**

10:00 KEYNOTE ADDRESS | The Future of Naval Shipbuilding and South Australia's role in this

- Implications of the Enhanced Lethality Surface Combatant review
- Sustaining over 2,000 jobs and creating at least 500 more positions over the next decade
- Pipeline for the construction of the Hunter Class at Osborne
- The planned Hobart class destroyer capability enhancement upgrade
- Future destroyer replacement
- South Australia's role in the delivery and maintenance of conventionally-armed nuclear-powered submarines

Jim McDowell, *Deputy Secretary Naval Shipbuilding and Sustainment, Department of Defence*

10:20 KEYNOTE ADDRESS | Transforming the way breakthrough military solutions are delivered

- Addressing the concept of minimum viable capability
- Embracing risk while articulating the problem but not the solution
- Pulling asymmetrical innovations into capabilities
- Implementing new approaches for agile contracting and procurement

Prof Emily Hilder, *Head, Advanced Strategic Capabilities Accelerator*

10:40 INDUSTRY KEYNOTE | The key challenges for Defence industry to delivery future capability

Gary Stewart, *Chief Executive Australia Sector, Qinetiq*

11:00 Morning tea

South Australian Defence Summit

Wednesday 28 August 2024 | Streams

STREAM A: DELIVERING DEFENCE CAPABILITY	STREAM B: DEFENCE RESEARCH AND INNOVATION
<p>11:30 The role of The SA Office for AUKUS</p> <ul style="list-style-type: none">— Supporting South Australia's Defence sector— Enhancing access to AUKUS supply chains— Establishing a single point of contact for Commonwealth agencies	<p>11:30 CASE STUDY Delivering and integrating emerging technologies for frontline troops</p> <p>LTCOL Jake Penley, <i>Commanding Officer, 1st Armoured Regiment, Australian Army</i></p>
<p>11:50 Streamlining and accelerating access into AUKUS Supply chains</p> <ul style="list-style-type: none">— Improving processes to facilitate integration into AUKUS supply chains— Collaboration between AUKUS partners to optimise supply chain efficiency— Utilising technology and innovation <p>Kate van Hilst, <i>First Assistant Director General – SSN Construction, Australian Submarine Agency</i></p>	<p>11:50 CASE STUDY High Frequency Radar Technology</p> <ul style="list-style-type: none">— Developing world-leading capability in HF systems and Over The Horizon Radar (OTHR)— A new era of collaboration with industry— Improving aircraft detection sensitivity <p>Dr Sylvie Perreau, <i>Chief Sensors and Effectors Division, Defence Science and Technology Group</i></p>
<p>12:10 Understanding the impact of the ITAR and Export Controls reforms</p>	<p>12:10 Investing in innovation</p> <p>Sumen Rai, <i>Director, Defence Innovation Partnership</i></p>
<p>12:30 PANEL Accessing AUKUS supply chains</p> <ul style="list-style-type: none">— Assessing the opportunities AUKUS presents for South Australia's defence industry— Key challenges in accessing AUKUS supply chains— Understanding the impact of the ITAR and Export Controls reforms <p>Mel Slater, <i>Director Maritime, Defence SA</i> Mike Humphreys, <i>Director Pillar 1 (AUKUS), HII Australia</i> Dr James Palmer, <i>CEO, Silentium Defence</i></p>	<p>12:30 PANEL Financing Defence innovation</p> <ul style="list-style-type: none">— Assessing the scope and potential of private finance in Australia's Defence capability— What the investment community is seeking from Defence innovators— What could Governments be doing to further attract private investment and superfunds into Defence assets and companies— Understanding and assessing risks in Defence contracting coupled with ESG concerns— Defence as an Asset class <p>Mark Stevens, <i>Managing Partner, Periscope Partners</i> Tim Haden, <i>Director of Origination, Australian Business Growth Fund</i> Kirsten Bernhardt, <i>Investment Manager, South Australia Venture Capital Fund</i></p>
<p>13:00 Lunch</p>	
<p>14:00 The challenges and opportunities of implementing AUKUS Pillar 2</p> <ul style="list-style-type: none">— The role of Joint Capabilities Group with space and cyber— Test and Evaluation of systems in a joint integrated force— South Australia Electronic Warfare capabilities— Requirements for supporting Battlespace Awareness— The opportunities within changes to Army force posture <p>Reg Carruthers, <i>Executive Director Defence and Space, Defence SA</i></p>	<p>14:00 CASE STUDY Working with ILaunch Trailblazer to commercialise two disruptive space energy technologies</p> <ul style="list-style-type: none">— Developing a Radioisotope Heater Unit to provide thermal management for multiple lunar night survival— Commercialising long-term power sources to spacecraft where solar energy cannot be relied upon— How the partnership between entX and ILaunch works <p>Bryn Jones, <i>Managing Director, ent X</i></p>
<p>14:20 Considerations for Defence AI</p> <ul style="list-style-type: none">— Embracing AI's potential to deter, shape, and change the character of warfare— Unique challenges for AI when applied to the Defence context— Developing more resilient AI capabilities— AI as an enabler for autonomy <p>Dr Robert Hunjet, <i>Associate Professor, Program Leader – Australian Defence Science and Universities Network, DSTG</i></p>	<p>14:20 CASE STUDY Delivering manufacturing data intelligence</p>

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STREAM A: DELIVERING DEFENCE CAPABILITY	STREAM B: DEFENCE RESEARCH AND INNOVATION
<p>14:40 PANEL Developing South Australia's Defence Infrastructure</p> <ul style="list-style-type: none"> — Key challenges in successfully delivering Defence infrastructure — Exploring opportunities to enhance delivery and improve outcomes — Do we have the people and the talent to deliver multiple complex projects on-time and on-budget? — Innovative contracting for infrastructure projects <p>Matthew Theoharous, <i>Executive General Manager, Lendlease</i></p>	<p>14:40 Advancing Australia's Information Warfare capability</p> <ul style="list-style-type: none"> — Are misinformation and disinformation now the biggest global short-term risks? — The role of social influence in grey zone conflicts — Declassifying information and effective information campaigning: lessons from the Ukraine conflict — Understanding the impact emerging technologies will have of the future of Information warfare <p>Assoc Prof Brad West, <i>University of South Australia</i> Dr Damien Spry, <i>Senior Researcher, DSTG</i> Prof Emma Thomas, <i>Matthew Flanders Professor, College of Education, Psychology and Social Work, Flinders University</i> LTCOL Sharon Mascall-Dare OAM PhD, <i>Cognitive and Information Warfare Directorate, Australian Defence Force</i></p>
<p>15:10 Afternoon tea</p>	
<p>15:40 The SA Defence Industry Workforce Action Plan</p> <ul style="list-style-type: none"> — Taking a coordinated approach to support defence industry workforce requirements — What's underway to address immediate challenges — Importance of integrated initiatives on a learner journey from primary school to mid-career transitions — Recognising supporting measures that address constraints and opportunities relevant to the defence industry <p>Callan Markwick, <i>Executive Director, Industry and Workforce Capability, Department for Industry, Innovation and Science, South Australia</i></p>	<p>15:40 CASE STUDY Additive Manufacturing for AUKUS</p>
<p>16:00 CASE STUDY Recruiting for the upgrade of the P-8A Poseidon</p> <ul style="list-style-type: none"> — Finding the right people with the right skills — Creating upskilling and pathway opportunities — Addressing workforce diversity challenges <p>Ben Knabe, <i>Director Product Support, Training and Maintenance (PST&M) capability, Boeing</i></p>	<p>16:00 The role robotics and autonomous systems can play in defence innovation</p> <p>Distinguished Prof Saeid Nahavandi, <i>Associate Vice Chancellor and Chief of Defence Innovation, Swinburne University of Technology</i></p>
<p>16:20 PANEL Can South Australia develop the skills required to deliver future capability?</p> <ul style="list-style-type: none"> — Developing a coordinated approach to address skills requirements — What skills are industry most in need of now? What about in 10 years' time? — How effective are current program such as <ul style="list-style-type: none"> > South Australia's Career Education and Pathways Program — South Australia's Flexible Industry Program for secondary schools — Women in STEM cadetships — Advanced Apprenticeships Program — TAFE SA's training for naval shipbuilding and sustainment projects — Industry partnering with universities and TAFE — Will Fee-Free TAFE help increase demand for skills of need? — Clearing pathways into Defence and Defence industry — Challenges to increasing diversity in Defence workforces — Skilled migration amidst a cost of living crisis <p>Nick Howie, <i>Director of Strategic Industry Partnership (Defence & Space), TAFE SA</i> Rachel Botting, <i>Head of People and Culture, ASC</i> Libby Day, <i>CEO, Defence Teaming Centre</i></p>	<p>16:20 PANEL Advancements in the deployment of AI in Defence Capability</p> <p>Dr Mel McDowall, <i>Director, Defence Artificial Intelligence Research Network</i> Dr Robert Hunjet, <i>Associate Professor, Program Leader – Australian Defence Science and Universities Network, Defence Science and Technology Group</i></p>
<p>17:00 Networking drinks 🍷🍷</p>	

Program at a Glance

TUESDAY 27 AUGUST 2024

13:00 Defence Trade Controls Amendment Act Forum

Led by Emily Hall,
Assistant Secretary, Defence Export Control, Department of Defence



17:30 WELCOME RECEPTION

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WEDNESDAY 28 AUGUST 2024

THE SOUTH AUSTRALIAN DEFENCE SUMMIT

8:00 Plenary Sessions including

The Hon Matt Thistlethwaite MP,
Assistant Minister for Defence

The Hon Stephen Mullighan MP,
Treasurer and Minister for Defence and Space Industries, South Australia

Jim McDowell, *Deputy Secretary Naval Shipbuilding and Sustainment, Department of Defence*

Prof Emily Hilder, *Head, Advanced Strategic Capabilities Accelerator, Department of Defence*

11:30 STREAM A: Delivering Defence Capability including

Kate van Hilst, *First Assistant Director General – SSN Construction, Australian Submarine Agency*

11:30 Stream B: Defence Research and Innovation hosted by Uni SA including

Dr Sylvie Perreau, *Chief Sensors and Effectors Division, DSTG*



17:00 Networking Drinks

THURSDAY 29 AUGUST 2024

9:00 – 12:30

DAIRNet Defence AI Symposium

Led by Dr Mel McDowall, *Director, Defence Artificial Intelligence Research Network*



Defence Artificial Intelligence and Industry Symposium 2024

Thursday, 29th August 2024 | 9:00 – 13:00

InterContinental Adelaide | North Terrace, Adelaide, South Australia, 5000

Enhancing AI capabilities is crucial for the Defence sector. Achieving decision superiority, making decisions faster and with higher degrees of accuracy, will increasingly benefit from advancements in sovereign AI capabilities. These advancements will enable Defence to manage extensive quantities of data in complex operational environments, offering significant data-driven performance advantages to the Australian Defence Force.

DAIRNet is pleased to be hosting the second annual Defence AI Symposium, as part of the ADM South Australian Defence Summit. The Symposium is a forum for the exchange between the Australian Defence and AI communities. It will assess developments in research that will enhance sovereign AI capability, provide impactful solutions to the Australian Defence Force, and enable data-driven decision-making in complex operating environments.

The Defence AI Symposium is an exciting opportunity for Defence, industry and researchers to come together and explore priorities, opportunities and commonalities. DAIRNet is an initiative of the Department of Defence and is managed in partnership with the University of South Australia. To learn more, visit www.dairnet.com.au

SPEAKERS INCLUDE

Dr Mel McDowall, *Director, Defence Artificial Intelligence Research Network*

Dr Ralph Gailis, *Specialist Science Advisor for AI, DSTG*

Assoc Prof Belinda Chiera, *Deputy Director, Industrial AI Research Centre, University of South Australia*

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