

SOUTH AUSTRALIAN DEFENCE SUMMIT

28 August 2024 | Adelaide Convention Centre

ADM
SERVING THE BUSINESS OF DEFENCE

Hosted by
 University of
South Australia

Plenary Sessions

All times ACST

08:20 OPENING | Opening remarks from the Chair

08:30 State Government Address |

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

08:50 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**

09:10 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**

09:30 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

- How a new risk-based approach to procurement decision-making may impact defence industry.
- Can we get the right people with the right skill sets to deliver future capability?
- Sustainability issues: Effectively greening future capability
- Working effectively with SMEs to enhance South Australia's enviable reputation for innovation.

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

11:00 Networking and Morning tea break

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>Dylan Jones, <i>Director, Office for AUKUS</i>, Department of Premier and Cabinet</p>	<p>11:30 Case study: Delivering and integrating emerging technologies for frontline troops</p> <p>LTCOL Jake Penley, <i>Commanding Officer, 1st Armoured Regiment</i>, Australian Army</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</i>, Australian Submarine Agency</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</i>, Defence Science and Technology Group</p>
<p>12:10 Understanding the impact of the ITAR and Export Controls reforms</p>	<p>12:10 Investing in innovation</p> <ul style="list-style-type: none">• The role of innovation intermediaries like the Defence Innovation Partnership• South Australia's R&D strengths• Case studies of funded projects• Future engagement and funding opportunities <p>Sumen Rai, <i>Director</i>, Defence Innovation Partnership</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>Mike Humphreys, <i>Director Pillar 1 (AUKUS)</i>, HII Australia</p> <p>Graham Priestnall, <i>President</i>, AIDN South Australia</p> <p>Dr James Palmer, <i>CEO</i>, Silentium Defence</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</i>, Periscope Partners</p> <p>Tim Haden, <i>Director of Origination</i>, Australian Business Growth Fund</p>

<p>Andy Semmler, <i>Head of Australian Industry Capability, ASC</i></p> <p>Moderated by Mel Slater, <i>Director Maritime, Defence SA</i></p>	<p>Kirsten Bernhardt, <i>Investment Manager, South Australia Venture Capital Fund</i></p>
<p>13:00 Networking and Lunch break</p>	<p>13:00 Networking and Lunch break</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>Senior Representative, Defence SA</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> Prof Drew Evans, <i>Professorial Lead, Future Industries Institute, University of South Australia</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>
<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>Tim Tape, <i>Development Director, Industrial and Defence, Renewal SA</i></p>	<p>14:40 Advancing Australia's Information Warfare capability: The Power of Culture</p> <ul style="list-style-type: none"> • Misinformation and disinformation as a global security risk • The role of social influence in grey zone conflict • Information campaign lessons from the Ukraine conflict • Emerging technologies and the future of Information Warfare <p>Assoc Prof Brad West, University of South Australia</p> <p>Dr Damien Spry, <i>Senior Researcher, DSTG</i></p> <p>Prof Emma Thomas, <i>Matthew Flinders Professor of Psychology, College of Education, Psychology and Social Work, Flinders University</i></p> <p>LTCOL Sharon Mascall-Dare OAM PhD, <i>Cognitive and Information Warfare Directorate, Australian Defence Force</i></p>
<p>15:10 Networking and Afternoon tea break</p>	<p>15:10 Networking and Afternoon tea break</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</i>, Department for Industry, Innovation and Science, South Australia</p>	<p>15:40 Case study: Additive Manufacturing for AUKUS</p> <ul style="list-style-type: none"> • Role of AM in the Australian manufacturing ecosystem • Role of AM in the defence supply chain (Blue Forge, US navy, DST, BAE, ASC, etc) • Repair and remanufacture = platform sustainment = AM – replacing obsolete parts via AM
<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</i>, Boeing</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</i>, Swinburne University of Technology</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)</i>, TAFE SA</p> <p>Rachel Botting, <i>Head of People and Culture</i>, ASC</p> <p>Libby Day, <i>CEO</i>, Defence Teaming Centre</p>	<p>16:20 Panel: Advancements in the deployment of AI in Defence Capability</p> <p>Dr Mel McDowall, <i>Director</i>, Defence Artificial Intelligence Research Network</p> <p>Dr Robert Hunjet, <i>Associate Professor, Program Leader – Australian Defence Science and Universities Network</i>, Defence Science and Technology Group</p>

Prof Tom Raimondo, <i>Dean of Programs UNISA STEM</i> , University of South Australia	
17:00 Networking drinks	17:00 Networking drinks