

# ADM **DEFENCE WEEK** AUSTRALIAN DEFENCE MAGAZINE SERVING THE BUSINESS OF DEFENCE **PREMIUM EDITION**



The SAP S/4HANA baseline will theoretically allow Defence to use a number of plug-in modules to address its wide and varied ICT needs.

DEFENCE

## Defence ERP moving after hiatus

Katherine Ziesing | Canberra

**After we broke the news last week that MILIS is [on track to fall over](#) without serious intervention, Defence announced that IBM [had been selected](#) to do the initial design phase of the billion dollar Enterprise Resource Planning (ERP) program.**

The first phase of the ERP program of work will look at the finance system in Defence which is due to go live next year. As *ADM* has previously reported, the system will be based on SAP under a [whole-of-government](#) arrangement.

It must be noted that SAP is the base system, with each department customising it for their own use with the help of industry partners such as IBM, Accenture and others.

SAP products are used by over 425,000 people in 180 countries, with the German company the most valuable corporation the nation has, turning over 24.4 billion euro in 2017 with over 88,000 employees globally. This

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is also a company that has bought an average of 10 ICT firms every year for the past decade to grow its reach and capabilities. Its products are industry standard for a number of applications such as ERPs.

The SAP S/4HANA baseline will theoretically allow Defence to use a number of plug-in modules to address the wide and varied needs of the organisation, across its various agencies and sites both in Australia and abroad. Given the legacy nature of many of Defence's systems, the migration and transition path will have to be [well mapped](#) to maintain the day to day running of the organisation.

**“For a program that began in 2014 it seems strange that only now has an 18-month \$95.5 million contract for initial design been released”**

### ERP milestones

The Defence ERP program has been running now for some time, with the program first coming up on *ADM*'s radar in 2016 with a [tender release](#) and [industry briefing](#).

*ADM* understands that the program had been scoped for internally within CIOG for at least two years before that point. Defence's ICT agency had also engaged the services of both KPMG and EY to look at how run the program in 2018 after multiple approaches to market.

In updating the delegates at [MilCIS](#) last year, Chief Information Officer Steve Pearson was confident that the timelines for ERP could be met.

*ADM* can report that the timelines and delivery methodology have [indeed changed](#) from its initial form as the program falters.

For a program that began in 2014 it seems strange that only now has an 18-month \$95.5 million contract for initial design been released. During this period, CIOG has seen three Chief Information Officers and three to four ERP program directors come and go.

### IBM gets the nod

IBM and Accenture had been vying for the Systems Integrator role for the better part of three years, with the program seemingly in paralysis after second pass approval until this latest announcement.

“The platform will initially enhance the Department's logistics, land maintenance and engineering capabilities, replacing a wide range of existing end of life systems,” according to a statement from IBM on the announcement.

“It will provide Defence personnel with an integrated platform to significantly improve productivity and effectiveness in their operations, ensuring the right equipment is in the right place, at the right time.

“IBM was selected due to its extensive global experience working with Defence agencies across the world on similar implementations. IBM plans to work with delivery partners including COSOL, Dalmation 6, DASC, DXC, Ernst & Young (Plaut), Fujitsu, Infosys, KBR, Noetic, Southern Cross, Synchrony Global, TAMS, XKG and Veritec.”

The agreement comes one year on from IBM's [whole-of-government announcement](#) that sees the company engaging with the federal government under five-year \$1 billion agreement across multiple mega agencies such as

Health, Human Services and Immigration.

"This is a testament to our 40-year partnership with the Australian Government, and more than two decades of working with the Department of Defence," David La Rose, Managing Director IBM Australia and NZ, said.

"Making the best-informed decision is key for the Department of Defence," Damien Bueno, President and Managing Director, SAP Australia and NZ said. "With SAP S/4HANA, Defence can leverage embedded intelligence and deliver real-time insight to critical business operations. As the foundation of an organisation-wide transformation, SAP S/4HANA will help optimise the value of important defence investments and resources, in addition to underpinning future innovation."

ADM also notes at this point that the recent design contract announcement falls under the [\\$100 million ICT contract cap](#) from the Digital Transformation Agency.

It must also be noted that [the ANAO](#) will be looking at CIOG and their multi-billion dollar [program of work](#) for the first time in coming months.

**ADM Comment:** In searching for best practice examples of SAP-based ERP roll outs, the field [is not great](#) for a number of reasons. When an ICT system works, it goes unnoticed in many ways, as it should. But when it goes wrong, [everybody hears about it](#) with large scale programs [making headlines](#), usually for the eye watering dollar values involved.

When I asked my network about ERP program roll outs that had gone well, in any industry of any size, the horror stories rolled in. My personal favourite was an SAP system: when it was rolled out to a medium sized company, it lost nine months' worth of orders when it went live (with no back up) and then went on to win an award for best practice.

There are good news stories though, with large scale organisations such as [Coca-Cola Amatil](#) and BHP with their [SAP1 work](#).

With the Internet of Things becoming reality, the reliability and security of military systems is more key than ever. I think it would also be fair to say that the vast majority of users just want a system that works, no matter where they are or what device they're on that they don't have to work around in order to get their job done. This seemingly simple requirement remains unattainable for most organisations; Defence is not alone in their battles with their ICT environment.

ADM is very keen to see what the ANAO report into CIOG program highlights

## "Defence is not alone in their battles with their ICT environment"

### MOST READ ONLINE AT [WWW.AUSTRALIANDEFENCE.COM.AU](http://WWW.AUSTRALIANDEFENCE.COM.AU)



1. [Nuclear and conventional submarines are not mutually exclusive](#)
2. [The ADF's logistics system is about to fall over](#)
3. [Defence releases Tiger replacement RFI](#)
4. [France launches first next-gen nuclear submarine](#)
5. [2019 Essington Lewis Awards: a closer look at major acquisitions](#)

in due course. We'll let you know more as we do.

# Putin exploits Turkey's glass ceiling

Ewen Levick | Sydney

**News came in late last week that the US has officially [jettisoned Turkey](#) from the global F-35 program after the country received shipments of Russia's S-400 air defence system.**

Turkey's decision may seem strange. Washington had been warning Ankara for months that accepting the S-400 meant it would be barred from operating F-35s. A statement from the White House suggested that the US had even offered to move Turkey to the front of the queue to receive Patriot missile defences instead.

"This administration has made multiple offers to move Turkey to the front of the line to receive the Patriot air defence system," the statement said.

"Turkey has consistently hit a glass ceiling"

So why did Turkey press ahead with Russian air defences over an American system and a highly advanced fighter jet? Even if Washington had not made such public warnings and behind-the-scenes offers, the Turkish decision still seems strange: surely it is obvious that one country cannot procure both Russian air defences and a fighter jet specifically designed to penetrate Russian air defences?

This exact point was made by the White House: "The F-35 cannot coexist with a Russian intelligence collection platform that will be used to learn about its advanced capabilities."

Yet there are always two sides to a story. In this case, Turkey's decision – regardless of its merits – is best understood from its own point of view.

For decades, Turkey has sought to integrate into the West. It was the 13th state to join the Council of Europe in 1950, joined NATO in 1952, signed the Ankara Agreement in 1963 to form a customs union with Europe (completed in 1995),



Turkey's ejection from the F-35 program is a product of misunderstanding and Russian exploitation.

CREDIT: US DOD



joined the European Economic Community in 1987, and began negotiating to become a full member of the EU in 2005. In many ways Turkey has been more committed to the European project than the UK.

Unlike the UK, however, Turkey has consistently hit a glass ceiling. Only a [third of Europeans](#) supported Turkish EU membership when negotiations were first opened in 2005; polls taken in Germany, Austria, and France showed up to 80 per cent opposed. France and Austria even took the unusual step of promising to hold national referendums on Turkish membership. Negotiations to join the EU are now frozen after years of delay. Even attempts to liberalise visa restrictions have gone nowhere.

## “Turkey’s ejection is also a product of the US administration’s failure to understand Turkey’s point of view”

Then, in 2015, Turkey shot down a Russian fighter jet. The pilot was killed. Ankara claimed the Russians were repeatedly using its airspace to bomb Turkmen-led rebel groups in Syria. These groups are predominantly Turkish citizens, are allied to Turkey and support the politics of Turkish President Recep Tayyip Erdogan. They are also Turkey’s bastion against a hostile Kurdish state on its southern frontier.

Turkey’s European and NATO allies, however, seemed to side with the Russians. US military officials went [on the record](#) saying that the Russian jet was actually in Syrian airspace. European officials [expressed concern](#) over ‘Turkish aggression’, hoped the alliance would not be called to support Turkish troops fighting against Russian-backed forces in Syria, and asserted that Turkey would not be able to invoke Article 4, which mandates NATO consultation when a member state feels its territory or security is threatened. Would NATO and Europe have responded with such a cold shoulder if Estonia, Latvia, or Sweden had downed a Russian jet over their borders? The question must surely have been asked in Turkey.

So Turkey began to look elsewhere. NATO had already pulled Patriot missiles batteries out of the country and seemed slow to offer replacements. Meanwhile, hostile Kurdish groups were now close to controlling Turkey’s southern border, but Russian threats prevented Turkish forces from engaging. The US would not help – in fact it was actively supporting those same Kurdish groups – and a coup attempt against Erdogan in July 2016, which he believes was organised by a US-based cleric, had sent relations with Washington to a new low.

Russian President Vladimir Putin saw an opportunity and [reportedly offered](#) Erdogan a deal: make a major Russian arms purchase as compensation for killing the pilot, mend relations, and Turkey is free to send soldiers into northern Syria. Operation Euphrates Shield began in August 2016 and Turkey officially signed the S-400 deal seven months later. Russia has now offered Su-35 jets as a replacement for the F-35s. In short, Putin has just exploited Turkey’s mounting frustration with the glass ceiling: he has prevented a fleet of NATO F-35s from threatening the home port of the Russian Black Sea Fleet and secured valuable opportunities for Russian industry.

Turkey’s ejection from the F-35 program is not just its own fault – it is also a product of the US administration’s failure to understand Turkey’s point of view. The only winner, it seems, is Putin.

# Naval Group markets local torpedo countermeasures to RAN

Julian Kerr | Sydney

**Naval Group wants to produce its CANTO torpedo countermeasures in Australia should this technology be selected by the RAN, and says it has already identified several potential partner companies.**

The Future Submarine design and construction partner said in a statement that it welcomed the opportunity to work with Australian industry to develop what it described as “this next generation defence technology”.

“Naval Group has already identified various Australian companies in relation to CANTO countermeasures local manufacturing and in-country maintenance”, the statement said. However, no partnerships or proposals had yet been formalised.

Jean-Martin Hepp, Naval Group’s Marketing and Business Development Manager, pointed out that the French Navy had already selected the CANTO soft-kill decoy system for its surface combatant and nuclear-powered submarine fleets, including the first-of-type Barracuda-class attack submarine launched on 12 July.

CANTO capabilities and technology had already been discussed with the Future Submarine and Future Frigate programs, and in relation to Collins-class submarine and Air Warfare Destroyer (AWD) upgrades, he told *ADM*.

Although there was no official requirement in place at this time, “our vision is to provide one system that can be used on each platform”, he said, confirming that local manufacture would include both the effectors and the launch tubes.

Naval Group says CANTO is unique in the field of anti-torpedo defence, applying a ‘dilution/confusion’ concept that involves generating a high-level, 360-degree

“CANTO is unique in the field of anti-torpedo defence”



Terma's C-Guard Decoy Launching System with a CANTO Anti-Torpedo Decoy and a Chemring Launch Module – together designated NATO standard CANTO 130mm.

NAVAL GROUP

acoustic signal as soon as it enters the water, to jam the full frequency range of an attacking torpedo.

CANTO then creates and constantly renews hundreds of false targets, saturating the torpedo's sonar and data processing capability and ultimately dissipating all the weapon's energy or fuel supply.

Naval Group says the compact tube launching system can be easily installed both outside the pressure hull on any submarine type, and on surface ships, where CANTO is also compatible with existing deck-mounted 130mm (mortar) decoy launchers – four of which equip each Hobart-class AWD.

## First Boxers arrive in Brisbane

Julian Kerr | Sydney

**The first of 25 Rheinmetall Defence Boxer 8x8 Combat Reconnaissance Vehicles (CRV) being built in Germany as the initial tranche for Project Land 400 Phase 2 arrived in Brisbane in mid-July.**

Rheinmetall Defence Australia (RDA) declined to comment, but the sources said the drive module of the multi-purpose vehicle (MPV) variant would be joined at an interim facility at Damascus Barracks early in August by a turreted reconnaissance variant.

The platforms are the first of 13 reconnaissance vehicles and 12 MPVs that are being constructed in Germany as part of the Mounted Combat Reconnaissance

Capability program, under which RDA was selected in March 2018 to provide 211 Boxer CRVs between 2019 and 2026 at a cost of \$3.3 billion.

The balance of the vehicles will be produced in Ipswich at RDA's \$170 million Military Vehicle Centre of Excellence (MILVEHCOE) which will be completed next year.

The ADF will deploy several CRV variants. The reconnaissance variant, accounting for 133 of the 211 vehicles, is equipped with Rheinmetall's

**“The platforms are the first of 13 reconnaissance vehicles and 12 MPVs”**



The Rheinmetall Boxer CRV at Defence Establishment Fairbairn during air transportability trials in 2017.

DEFENCE

digital LANCE turret system and armed with a 30mm automatic cannon.

The CRVs will replace Army's ageing fleet of 257 Australian Light Armoured Vehicles (ASLAVs) and will undertake missions ranging from regional stability and peacekeeping through to high-end operations.

Some Australian industry content is being incorporated in the 25 German-manufactured vehicles, the sources said.

## DroneShield wins DIN grant

Lincoln Parker | Sydney

**They began working with Boston Police just five years ago protecting the Boston Marathon, moved on to the Olympic Games in South Korea, and were just featured on French national TV during the 2019 [Bastille Day Parade](#) with President Macron. This Sydney start-up is now exporting across 70 countries after listing on the ASX in 2016.**

If you haven't heard of DroneShield, you soon will.

"DroneShield's technology is designed and delivered by Australians using Aussie know-how – a great example of an innovative defence industry business excelling on the world stage," Minister for Defence Industry Melissa Price said to *ADM*.

This is the second article in our series of innovative Aussie companies taking on the world. In this case, protecting the world from the storm of drones they saw coming over five years ago when drones were thought of as just toys for kids. I sat down in Sydney with Oleg Vornik, CEO of DroneShield to discuss the start-up's success and where it's headed.

DroneShield started operations about five years ago, back when drones were still quite basic. At the time, a drone used to have about a five-minute battery life and a 100-metre flight distance without any kind of sophistication in terms of sensors or control. How things have changed. Off-the-shelf drones can now carry payloads in excess of 25 kilograms, travel on autopilot, delivering anything



The DroneShield has a range out to two kilometres.

DRONESHIELD



from drugs across borders or books from Amazon, or spraying large crops.

But what if you were to replace a crop spraying drone with biological or chemical agents? What if a tiny drone got sucked into the engine of an aeroplane? Or, easier still, what would happen if you just dropped a drone into the cooling stack of a power station with a nasty payload?

Five eyes forces in numerous current theatres have found themselves without substantial control of the air space in which they operate. Of course, they control the higher air space under fast jets and AEW&C platforms, but the middle air space is uncontrolled. I have heard anecdotes from Australian special forces; when responding to a terrorist attack, they saw the enemy's drones report their every move.

### Your drone is spying on you

The largest global manufacturer of drones is China's DJI, accounting for almost 85 per cent of the world's drone sales. Bloomberg's recent article ["Banned Chinese Security Cameras Are Almost Impossible to Remove"](#) outlined how some Chinese-made security cameras have been identified as having covert back doors allowing unauthorised people to tap into them and send information

to China. Well, there's nothing to stop the same thing happening with the data from a drone. It is understood the Pentagon has banned the US military from using Chinese made drones for this reason.

In answer to this increasingly contested space, DroneShield recently released their smaller, lighter [DroneGun MarkIII](#). It is a two-kilogram pistol shaped device designed to be carried on patrol. It complements the larger DroneGun Tactical which has a range out to two kilometres. But where DroneShield really excels is in detection. Without being able to detect a drone,

there's no point to counter measures. And this is an exciting point, because their fixed site systems, [DroneSentinel](#) and [DroneSentry](#) are able to use triangulation, listening for both the uplinks and the downlinks, to pinpoint the location of the pilot.

**"What would happen if you just dropped a drone into the cooling stack of a power station with a nasty payload?"**

### NSW Defence Innovation Network (DIN) Grant

This month, the NSW DIN were proud to announce a Seed Project grant to DroneShield where they will be working in conjunction with University of Technology Sydney (UTS) researchers.

"DroneShield is one example of the innovation coming out of the state, with industry-leading ideas in defence and other sectors from Armidale to Albury getting a boost from the NSW Government," Stuart Ayres, NSW Minister for Jobs, Investment, Tourism and Western Sydney stated to *ADM*.

"We're really excited to work with NSW' universities and we thank the NSW Government for their ongoing support," DroneShield's Oleg said. "I think the structure is well developed in terms of having an alignment between the university and the private sector."

*Note: Lincoln Parker works for the NSW Defence Innovation Network (the DIN is an initiative of the NSW Government, Defence Science & Technology Group and seven NSW universities). The author's views are his own.*

# UK and Sweden partner on F-35 successor

**Former British Defence Secretary Penny Mordaunt, who lost her job overnight as new PM Boris Johnson took office, and her Swedish counterpart Peter Hultqvist have signed a landmark agreement to partner on 'future combat air', a sixth-generation fighter jet.**

The Memorandum of Understanding (MOU) commits both governments to work on a joint combat air development and acquisition program, including the development of new concepts to meet both nations' future requirements.

"The UK and Sweden have an enduring defence relationship, with our two industries sharing a rich history of collaboration in air power," Mordaunt said.

"Not only do we share the same commitment to tolerance, freedom and free trade, we also share the same determination to defend those values, including in Afghanistan, Iraq and today as part of the UK's Joint Expeditionary Force.

"This agreement further deepens this partnership and sees us look to the future with a bold and shared vision of UK and Swedish air power."

"I'm delighted that we have signed this Memorandum of Understanding, endorsing a shared and ambitious vision for future combat air systems which lays firm foundations for future collaboration," British Minister of Defence Procurement Stuart Andrew said.

"Today we usher in an exciting new era in which the talents of two great combat air nations will be combined to lift Swedish and British airpower into the stratosphere."

The UK and Sweden's defence relations include: joint exercises in the Arctic and in Exercise Ramstein Alloy over the Eastern European skies; Swedish-made chaff and flare dispensers that are used on UK Typhoons; Saab's Giraffe radar, which is a key part of the UK's Sky Sabre ground-based air defence system;



An artist's depiction of the 'Tempest' sixth-generation aircraft.

BAE SYSTEMS

and Swedish Gripen aircraft, which are equipped with radars designed and built by Leonardo in Edinburgh.

The UK, working with European partners including Sweden, has also developed beyond-visual-range Meteor air to air missiles.

Hultqvist confirmed both governments intend to remain at the forefront of 'combat air'.

He stressed the opportunities to put advanced technologies onto Gripen and Typhoon jets before inserting these technologies onto a future combat air system.

Hultqvist also highlighted the strong industrial base shared by both countries as central to securing future Combat Air power, as well as the existing Gripen fighter systems.

Discussions between industries and governments had been ongoing since the publication of the UK's Combat Air Strategy in July 2018.

"12 months ago, industry and Government launched a bold and exciting vision for the future for the UK Combat Air sector on the BAE Systems stand at the Farnborough International Air Show. This was a vision that was encapsulated by the launch of the UK's combat air strategy and the unveiling of our Tempest concept, a glimpse into the future of combat air," Michael Christie, Director of Future Combat Air Systems – BAE Systems, said.

Other nations have been encouraged to join the UK/Swedish dialogue on the condition that they have similar requirements.

**"The talents of two great combat air nations will be combined to lift Swedish and British airpower into the stratosphere"**

## PEOPLE ON THE MOVE

NIOA has established a US office and appointed Doreen Chaplin as Regional Manager in North America. Chaplin has served in the US Army for more than 26 years. Chaplin will be responsible for establishing NIOA's first office location in New Jersey and guiding the company's growth strategy within the US.

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# Forthcoming Events

## ADM EVENTS

More detail on **ADM** Events can be found on our dedicated website:

- [ADM STEM and Defence Summit](#) – 14 August 2019
- [ADM Defence Estate and Base Services Summit](#) – 12 September 2019
- [ADM North Australian Defence Summit](#) – 23-24 October 2019

## ADM Essington Lewis Awards

**Date** 31 July 2019

**Location** National Convention Centre, Canberra

**Website** [www.defence.gov.au/casg/dplusi](http://www.defence.gov.au/casg/dplusi)

ADM's Essington Lewis Awards will return to the National Convention Centre on Wednesday 31 July 2019 to recognise excellence in Defence projects. The event is limited to the first 1000 attendees wishing to network and interact with Defence and defence industry leaders, celebrate the achievements of their peers and be entertained by our celebrity MCs. This black tie gala event is not to be missed!

## Defence + Industry Conference

**Date** 01 August 2019

**Location** National Convention Centre, Canberra

**Website** [www.defence.gov.au/casg/dplusi](http://www.defence.gov.au/casg/dplusi)

The Defence + Industry Conference is the premier Defence and industry conference held in the national capital. Consistently attracting in excess of 1100 delegates to hear from Defence and industry leaders discussing collaboration in the acquisition and sustainment space. Thursday 1 August will see the National Convention Centre come alive with informative, thought-provoking presentations from Defence decision makers and industry leaders, along with interactive Q&A sessions and networking opportunities.

## Behind Closed Doors

**Date** 06 August 2019

**Location** Kedron Wavell Services Club

**Website** [www.eventbrite.com/e/behind-closed-doors-brisbane-tickets-63931133742](http://www.eventbrite.com/e/behind-closed-doors-brisbane-tickets-63931133742)

This is a rare chance to look at submissions through the eyes of the evaluators, the realities of bid panels, and how writing winning content is at the heart of tender success. This seminar is particularly relevant to SME suppliers bidding to primes for supply chain contracts. This seminar, brought to you by Aurora Marketing and The Australian Industry & Defence Network Queensland (AIDN QLD), takes you behind the scenes with our tendering experts to learn what evaluators really want from suppliers and their proposals.



## Lockheed Martin Industry/CDIC Cairns Briefing Opportunities

**Date** 08 August 2019

**Location** 119-145 Spence St, Cairns.

**Website** [www.eventbrite.com.au](http://www.eventbrite.com.au)

AIDN QLD in partnership with DEFNO would like to invite you to attend the Lockheed Martin Industry/CDIC Briefing Opportunities for Australian Industry in Cairns. Lockheed Martin is engaged in the integration and sustainment of advanced technology systems, products and services across space, air, land, sea and cyber domains. The CDIC helps transform the Defence and industry relationship, facilitate innovation and exports, and fund defence industry development, critical defence business maturity and skilling.

## WA Indo-Pacific Defence Conference

**Date** 12 August 2019

**Location** Crown Towers, Perth

**Website** [www.perthusasia.edu.au](http://www.perthusasia.edu.au)

Senior government officials, leaders from industry and the WA SME sector will come together to discuss critical issues and partnership opportunities for WA defence at the WA Indo-Pacific Defence Conference on Monday 12 August. Attendees will hear from Premier Mark McGowan; as well as Minister for Defence Senator Linda Reynolds, Minister for Defence Industry Melissa Price, Shadow Minister for Defence Richard Marles and Shadow Minister for Defence Industry Matt Keogh.

## DST Scindicate 2019: Partnering for Impact

**Date** 15-16 August

**Location** Adelaide, SA

**Website** [Scindicate@dst.defence.gov.au](mailto:Scindicate@dst.defence.gov.au)

Once again, industry, universities and research agencies are invited to participate in the two-day activities which will include technology demonstrations, business matchups, workshops, briefings and laboratory tours, as well as opportunities for networking and forging new collaborations. A Next Generation Technologies Fund Showcase will be a special feature of the event.

## PGCS 2019

**Date** 20 – 22 August 2019

**Location** The Canberra Rex Hotel, Canberra

**Website** [www.pgcsymposium.org.au](http://www.pgcsymposium.org.au)

Now in its 7th year, PGCS 2019 will focus on ways to build the foundations needed to create project and program success. Creating the organisational capability needed to underpin the consistent delivery of successful projects in the 2020's starts at the top. Leadership and a sustained focus are required to build a culture of excellence that can balance innovation with surveillance and accountability, encourage learning, and manage knowledge effectively.

## Hunter Defence Conference 2019

**Date** 23 August

**Location** Crown Plaza Hunter Valley

**Website** [www.trybooking.com/book/event?eid=503298](http://www.trybooking.com/book/event?eid=503298)

The 2019 10th anniversary Hunter Defence Conference will focus on driving collaboration between Defence Primes, NSW regional SMEs, academia and the Department of Defence. Key presentations at this year's conference will include capability development staff from Army, Navy and Air Force Headquarters, Defence Primes articulating the support requirements they will have over the coming decade from regional SMEs. Former Minister for Defence Christopher Pyne will present a keynote at the dinner.

## Australasian Simulation Congress

**Date** 02 – 05 September 2019

**Location** Gold Coast Convention and Exhibition Centre, Gold Coast

**Website** [www.simulationcongress.com](http://www.simulationcongress.com)

The Australasian Simulation Congress provides a focused opportunity for industry development, business growth, training, discussion and distribution of information related to Simulation, Modelling, Training and Decision Support. Simulation Australasia can help you directly engage with industry, policy makers, Government and relevant stakeholders to facilitate you and your organisation achieving the success only a truly international Congress can provide.

## Synthetic Environment Working Group (SEWG)

**Date** 06 September 2019

**Location** Gold Coast Convention and Exhibition Centre

**Website** [www.defence.gov.au](http://www.defence.gov.au)

The Synthetic Environment Working Group (SEWG) 2019 is a one-day Conference/Working Group sponsored by the Department of Defence, ADSTC and managed by the Simulation Governance Directorate.

## Australian Naval Institute's Goldrick Seminar

**Date** 18 September 2019

**Location** ADFA

**Website** [www.trybooking.com/BDYHF](http://www.trybooking.com/BDYHF)

The 2019 ANI Goldrick Seminar will discuss defence issues associated with the maintenance of Australia's maritime trade. Speakers will be drawn from senior levels of Defence, academia and industry. As in previous years, the theme – Maritime Trade and its Implications for Australia's Defence – was selected by the Chief of Navy; an outcomes report will be provided to the Chief of Navy and it is anticipated that the proceedings will be subsequently published by ACSACS.

## Army Innovation Day 2019

**Date** 25 September, 2019

**Location** Adams Auditorium, ADFA

**Website** [www.army.gov.au](http://www.army.gov.au)

AID19 will be held on 25 September and the purpose is for selected respondents to pitch their proposed innovations to assessors, Capability Managers and Defence Innovation Hub personnel. Respondents may also be able to verify, validate and clarify their Request for Proposal response. Request for Proposal submissions closes on 3 September and on 12 October respondents will be notified of outcomes.

## Australian Cyber Conference 2019

**Date** 07-09 October 2019

**Location** Melbourne Convention and Exhibition Centre

**Website** [cyberconference.com.au](http://cyberconference.com.au)

The Australian Cyber Conference 2019 will provide business leaders with insights and best practices taught by the industry's top experts through keynotes, panel sessions and live demonstrations. Attending the conference will enable you to network with these practitioners to help you better understand and manage current threats, as well as identify and prepare to meet emerging challenges.

## Pacific 2019

**Date** 08-10 October 2019

**Location** Sydney Convention Centre

**Website** [www.pacificexpo.com.au](http://www.pacificexpo.com.au)

As the only comprehensive international exhibition of its kind in the Indo-Asia-Pacific region, PACIFIC 2019 will again provide the essential showcase for commercial maritime and naval defence industries to promote their capabilities to decision-makers from around the world.

## Williams Foundation Seminar – The Requirements of Fifth Generation Manoeuvre

**Date** 24 October 2019

**Location** National Gallery of Australia

**Website** [www.williamsfoundation.org.au/event-3161281](http://www.williamsfoundation.org.au/event-3161281)

Since 2013, the Sir Richard Williams Foundation seminars have focused on building an integrated fifth generation force. The seminar in October 2019 is titled 'The Requirements of Fifth Generation Manoeuvre' and will examine the differences and potential gaps in how the ADF must equip and organise for multi-domain operations.

## 2019 Parari Australian Explosive Ordnance Safety Symposium

**Date** 05-07 November

**Location** ADFA

**Website** [parari@defence.gov.au](mailto:parari@defence.gov.au)

This year's symposium brings together delegates from around the world to discuss the latest innovations and advances in explosives, munitions and weapons safety. International and local experts from industry, academia, military and government will share their research to explore Explosive Ordnance Safety opportunities and challenges as a community.

## MilCIS 2019

**Date** 12-14 November 2019

**Location** Canberra Convention Centre

**Website** [www.milcis.com.au](http://www.milcis.com.au)

In November each year, the Defence Chief Information Officer Group (CIOG) partners with the UNSW Canberra and the Institute of Electronic and Electrical Engineers (IEEE) to present MilCIS. The annual Military Communications and Information Systems (MilCIS) Conference welcomes military and government organisations, academia, and defence industries to contribute to the future direction of military communications and information systems.

## SubSTEC 5 Conference

**Date** 18-21 November

**Location** Esplanade Hotel, Fremantle

**Website** [www.submarineinstitute.com](http://www.submarineinstitute.com)

The 5th Submarine Science, Technology and Engineering Conference (SubSTEC 5) will be held at the Esplanade Hotel, Fremantle, WA 18th-21st November 2019. The theme of the Conference will be: 'Innovation and Investment in the Sub-Sea Environment'. SubSTEC5 will be held with the support of the Institute of Marine Engineering, Science and Technology (IMarEST).

## Corrosion and Prevention 2019

**Date** 24-27 November

**Location** Crown Promenade, Melbourne

**Website** [conference.corrosion.com.au](http://conference.corrosion.com.au)

Corrosion and Prevention 2019 will bring together leading researchers and industry practitioners who combat corrosion daily. Diverse technical streams will showcase the latest developments in corrosion, ranging from fundamental corrosion science to hands-on application.



## 2020

### CIVSEC 2020

**Date** 24-26 April 2020

**Location** Melbourne Convention and Exhibition Centre

**Website** [www.civsec.com.au](http://www.civsec.com.au)

CIVSEC 2020 International Civil Security Congress and Exposition is your gateway event to the growing Indo-Asia-Pacific civil national security environment. CIVSEC 2020 is a premium international event with exceptional opportunities to reach key driver organisations in an evolving, tech-savvy regional marketplace.

### Rotortech 2020

**Date** 16-18 June 2020

**Location** Royal International Convention Centre, Brisbane

**Website** [www.rotortech.com.au](http://www.rotortech.com.au)

RotorTech 2020 is the region's premier helicopter and unmanned flight systems showcase and forum, bringing together operators, manufacturers, suppliers, regulators and government across the Indo-Asia-Pacific. With a comprehensive three-day free industry conference program, RotorTech 2020 will also feature manufacturers technical workshops and an industry exhibition showcasing more than 100 helicopter and unmanned flight related companies.

### Land Forces 2020

**Date** 01-03 September 2020

**Location** Brisbane Convention Centre

**Website** [www.landforces.com.au](http://www.landforces.com.au)

The biennial LAND FORCES exposition is an international industry event to showcase equipment, technology and services for the armies of Australia and the Indo-Asia-Pacific. The Land Forces 2020 team is now setting about ensuring the event will achieve its goals of providing an effective platform for the exchange of ideas on key land forces issues and of taking Australian industry to the world.