

DEFENCE WEEK PREMIUM EDITION



Kim Gillis of CASG speaking at the 2018 D+I conference.

IRENE DOWDY

2018 Defence and Industry conference: *ADM's* Summary

Katherine Ziesing | Canberra

The 2018 Defence and Industry conference saw representatives from SMEs, primes, Capability Acquisition and Sustainment Group (CASG), and the military convene in Canberra for a day of presentations from all facets of the Defence community.

Secretary of Defence Greg Moriarty opened the day with a state of the union; an overview of the policy landscape and how the evolution of the past two years is performing.

"My job is to ensure that defence is well positioned in the coming decades in a complex and highly contested world," Moriarty said explained to the 1,000-plus crowd.

According to Moriarty, that is becoming increasingly difficult as the growing capabilities of Australia's neighbours pose a challenge to Canberra's regional military superiority.

"What does maintaining regional superiority mean?" he asked. "This is no longer a comfortable assumption

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for us. The neighbourhood is making greater investments in defence and security, and this trend is only set to continue.”

This strategic challenge was also a central theme for the three service representatives: Major General Kathryn Toohey, Head Land Capability; Vice Admiral Michael Noonan, Chief of Navy; and Air Vice Marshal Gavin Turnbull, Deputy Chief of Air Force.

“The nature of joint warfare is evolving,” AVM Turnbull said. “The ADF’s future will require a joint force that can provide significant deterrence capability. To do that, RAAF needs to invest in its people.”

“We need to be bold but risk aware; we want to be Apple and not Kodak”

Chief Defence Scientist Dr Alex Zelinsky spoke of how Defence is seeking to foster innovative approaches in order to maintain the ADF’s capability edge.

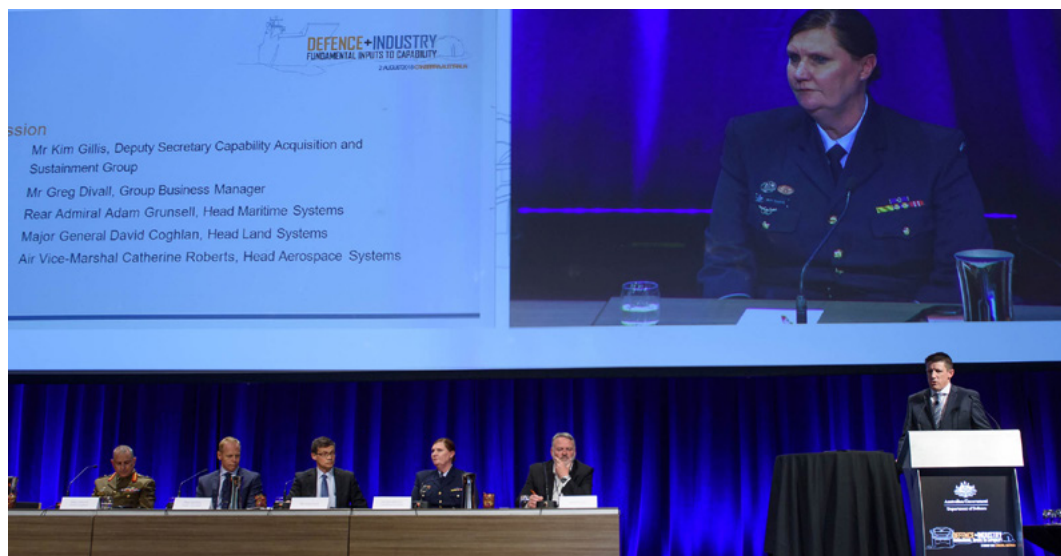
“Technology is moving faster than the Defence procurement cycle,” Dr Zelinsky said. “We’re looking at more of a plug-and-play approach, adopting more open standards. We’re thinking about how to pull that innovation in.”

Industry leaders also weighed in on how to foster innovation in industry and in Defence. A panel discussion from the Centre for Defence Industry Capability saw both SMEs and primes weigh in on how the Defence innovation ecosystem is functioning.

“Innovation is so much more than technology,” SYPAQ CEO Amanda Holt said. “We wouldn’t be building tech without the mindset we’ve developed in our workforce. It’s a culture that enables conversation. We need to be bold but risk aware; we want to be Apple and not Kodak.”

“Innovation is about new ways of doing things. It doesn’t come from a superstar member of your team, but from your whole team,” Chris Williams of H.I Fraser said.

Another key theme of the day was centred around relationships and culture, both internal to Defence, primes and SMEs but also how those three entities interact. A panel of some of the biggest primes in the land (BAE Systems, Boeing and Thales) alongside SMEs in the form of EM Solutions, Daronmont and Tectonica was a particular highlight covering issues from commercialisation paths and IP to diversity and gender balance.



A panel of senior military leadership and CASG's Kim Gillis at D+I 2018.

IRENE DOWDY

“It is now easier to contract directly with Defence rather than the primes”

“We recognise that some interactions are transactional and some are about building a long term relationships,” Darren Edwards, head of Boeing Defence Australia said. “We need to act accordingly from the start.”

Head of Thales Chris Jenkins was blunt in his assessment of how the defence community is performing in terms of gender diversity and indigenous representation – “we have massive work to do.”

Perhaps one of the more surprising insights came from Daronmont’s Lee Stanley who said that ‘it is now easier to contract directly with Defence rather than the primes’ when reflecting on how the relationship between the different sectors performs in practice.

This news was met with jubilation from outgoing Deputy Secretary of CASG Kim Gillis – “it only took 20 years but here we are!” He also hopes that true gender diversity, which is one way to get diversity of thought in an organisation, doesn’t take quite as long.

Ex Pitch Black takes off

Nigel Pittaway | Darwin

A full gallery of images from Ex Pitch Black is available to view [here](#).

Australia’s largest air combat exercise got underway in the Top End this week, with the first Force Introduction Training (FIT) sorties launched from RAAF Bases Darwin and Tindal on July 30.

Pitch Black is a biennial exercise held in the relatively empty skies of the NT and regularly involves aircraft and personnel from Australia’s allies and partners in the region.

According to Pitch Black exercise director, Air Commodore Mike Kitcher, Pitch Black 2018 is the largest ever, with up to 140 aircraft involved over a three-week period.

“We have about 4,000 people participating in the exercise, mainly based here in Darwin but RAAF Tindal down at Katherine is also quite full,” he said. “We have people down at Batchelor, we’ve aircraft based at Kununurra, our ground



Ex Pitch Black 2018 has taken off in the Top End.

NIGEL PITTAWAY



French Dassault Rafales fly in formation with a No. 33 Squadron KC-30A Multi Role Tanker Transport aircraft en route to Australia to participate in Ex Pitch Black 2018.

DEFENCE

control agencies are based at a further five or six other locations in the Top End and we're using the Delamere and Bradshaw ranges as well, so it's a fairly big exercise."

AIRCDRE Kitcher said that some estimates have suggested that up to \$30 million will be injected into the NT economy as a result of Pitch Black 2018.

"The first week of the exercise has been dedicated to Force Integration Training"

The exercise this year marks the first time the RAAF's EA-18G Growler airborne electronic attack aircraft and C-27J Spartan battle-field airlifter have participated and another first is the participation of the Indian Air Force, which has brought four Sukhoi Su-30 fighters and a C-130J Hercules to Darwin.

"We have the IAF here for the first time. They were part of the international observer group for Pitch Black 16 and they decided to come along this year with their Sukhoi Su-30 aircraft and a C-130J and that's a wonderful addition to what is a great exercise," AIRCDRE Kitcher added.

"We also have French Air Force Rafales here for the first time and the Indonesian Air Force is here again this year as well, so those additions, along with partners and allies who have been coming for many years to Pitch Black, such as the Republic of Singapore Air Force, the Royal Thai Air Force, the US Air Force and the US Marine Corps make this truly an international exercise."

The first week of the exercise has been dedicated to Force Integration Training, which has seen aircraft from different countries flying joint missions to familiarise themselves with the airspace and to learn how to operate with one another. The second and third weeks build gradually to large packages, which could include up to 100 aircraft, flying both day and night missions.

"Those missions might be for example, escorting some strike aircraft down to Delamere to strike a target; it might be escorting a C-27 or a C-130 or a C-17 or another aircraft into Delamere to pick people up or to drop them people off," AIRCDRE Kitcher explained.

"So, whilst there is a focus on air combat at Pitch Black, we involve multiple other aircraft deliberately."

The opening day of Pitch Black 18 was unfortunately marred when one USAF F-16C fighter experienced engine problems shortly after take-off from Darwin. The pilot jettisoned the centreline fuel tank as part of USAF emergency procedures and was able to make a safe recovery.

Fortunately, the tank fell into scrubland near the airport and did not injure anyone on the ground or cause any significant damage.

Next week's issue of *Defence Week* will focus on the Indian Air Force's [debut at Pitch Black](#) and in-depth coverage of the exercise will appear in the October issue of *ADM*.

Regional customers want more patrol boats: ASPI

Ewen Levick | Canberra

Following this week's [news](#) that Trinidad and Tobago will buy two Cape Class patrol boats from Austal, ASPI has released a [report](#) examining the growing role of coastal surface combatants in ASEAN member states.

The report's authors (Dr John Boyne, Ashleigh Sharpe, and Dione Hodgson) argue that coastguards have become an "important strategic cushion" between south-east Asian navies.

That is because they are seen as "less threatening" during at-sea encounters, with less potential to inflame situations thanks to "increased freedom of movement" and a lower fear of conflict.

The report opens with a summary of threats facing ASEAN navies. Foremost amongst those are piracy, particularly by the Abu Sayyaf group in the Sulu Sea, which is looking to fund terrorism and insurgency operations on land.



The report argues that there'll be continued regional demand for vessels ranging from small riverine craft to fast patrol boats and offshore patrol vessels.

AUSTAL

Rising fish prices are another driver of increased demand on regional coast-guards. Competition over stocks is increasing as fish numbers dwindle, fuelling fears of food insecurity and socio-political instability.

Finally, China's distant-water fishing fleet is operating as the advance party of a hybrid strategy aimed at increasing Beijing's strategic presence. In addition to fishing, the Chinese vessels collect intelligence, challenge exclusive economic zones (EEZ) boundaries, and occupy maritime territory.

In response to these threats, the report argues, ASEAN states are stepping up patrols and responses within their EEZs. Many states are buying more patrol boats, increasing the size of the boats they buy, and modernizing existing boats.

"Many states are buying more patrol boats, increasing the size of the boats they buy, and modernizing existing boats"

So, what does this mean for Australia, and for industry looking to capitalize on growing coast guard investments in south-east Asia?

The authors argue that Australia's Maritime Border Command and the RAN often have overlapping responsibilities, and are assigned tasks according to "which gives the Australian Government more options and flexibility."

Whilst the report does not advocate for the creation of an Australian coastguard, it does want to see the "continued development of a whole-of-government integration of MDA (maritime domain awareness) functions that supports strategic, operational and tactical decision-making."

In regards to industry opportunities, the authors highlight the potential competitiveness of Australian companies looking to jump in on regional tenders.

"There's certainly some evidence that there'll be continued regional demand for vessels ranging from small riverine craft to fast patrol boats and offshore patrol vessels. Australian industry would need to be quite price-competitive and well supported by the Australian Government to realise those opportunities."

"The ad hoc, short-notice nature of defence acquisition in ASEAN means that industry will need to be agile to meet short-notice demands. Furthermore, the often-limited capacity of the region to operate and maintain sophisticated defence capabilities could create a market for reliable and easy-to-maintain platforms."

"Australian companies could also assist with the broader challenge of integrating and fusing all-source unclassified MDA data. At the very least, there could be opportunities to support further system-of-systems integration of MDA."

Trinidad and Tobago, of course, is not a regional state, and has [bought](#) from Austal before. Yet it seems Australian industry may soon find similar opportunities closer to home.

MOST READ ONLINE AT WWW.AUSTRALIANDEFENCE.COM.AU



1. [Defence announces truck upgrade under Land 121 5B](#)
2. [ADM announces Women in Defence award winners](#)
3. [Indian aircraft participate in first Pitch Black](#)
4. [Land 121 delivers a game changer for Army](#)
5. [Abrams tanks feature next gen battle management on Hamel](#)

Chemring and Quickstep to develop F-35 countermeasures

Chemring Australia and Quickstep Holdings Ltd have secured funding for product development and cost reduction initiatives for F-35 Lightning II countermeasure flares.

"Chemring and Quickstep are excellent examples of leading-edge Australian companies succeeding in winning work in international supply chains," Minister for Defence Industry Christopher Pyne said.

"This initiative will position Australian industry to take advantage of emerging opportunities to supply countermeasures to the burgeoning F-35 market and beyond. Chemring and Quickstep have both invested heavily in this initiative, and have also received funding from the US F-35 Lightning II Joint Program Office."

Chemring has announced it will expand its Lara facility in Victoria to design, test and manufacture F-35 countermeasures; something CEO Joe Farrah mentioned to ADM in May's [From the Source](#) interview.

"We have a degree of perspective on what might be required to support any future development of indigenous countermeasures; something we're keenly exploring the possibility of with Joint Electronic Warfare Operational Support Unit and DST Group as part of the five-year collaboration agreement," Farrah said.

"That could possibly lead to us standing up an even more advanced research and development capability at Lara."

Quickstep will develop and commission new advanced manufacturing technology at its facility in Bankstown, NSW, to supply countermeasure housings to Chemring. The New Air Combat Capability – Industry Support Program, which is administered by the Department of Defence, also granted the company \$1 million.

Quickstep supplies 40 per cent of the materiel to Marand Precision Engineering

"We have a degree of perspective on what might be required to support any future development of indigenous countermeasures"



An F-35 releasing countermeasure flares during training.

LOCKHEED MARTIN

to produce each F-35 conventional take-off and landing vertical tail.

Marand [recently delivered](#) its 50th vertical tail to the F-35 program.

According to Minister Pyne, more than 50 Australian companies have shared in more than \$1 billion worth of global F-35 production contracts to date.

“Further opportunities are expected for Australian companies to increase production contract values over the next four years as F-35 production rates continue to increase,” Minister Pyne added.

Australian industry involvement in F-35 production is expected to exceed \$2 billion by 2023.

Milestone reached on Future Submarine yard

In a major development for the Future Submarine program, a development application has been submitted to the Port Adelaide Enfield Council for Phase 1 of work on the Osborne North construction yard in SA.

Due to the scale and complexity of the works required, the yard will be developed in a staged approach.

Phase 1 works will focus on site establishment, earth works and piling for the new facilities.

Australian Naval Infrastructure (ANI) will oversee the delivery of the construction yard where 12 Future Submarines will be built.

“This is an important step towards the development of the yard and we are on schedule to turn the first sod later this year,” said Minister for Defence Industry Christopher Pyne.

“KBR and Aurecon have been working with Naval Group to finalise the concept design of the yard, which will be owned by the Commonwealth as part of our national naval shipbuilding infrastructure.”

ANI will shortly engage a managing contractor to oversee the continued design development and eventual build of the yard.



The Osborne North yard will complement the Osborne South precinct, pictured.

DEFENCE

"Development of the yard will deliver more opportunities for Australian industry to get involved in the Future Submarine Program," Minister Pyne said.

"This next step in redeveloping the Osborne North naval shipyard will ensure we also have a world-class submarine manufacturing precinct in Australia," Minister for Finance Mathias Cormann concluded.

PEOPLE ON THE MOVE

Ocean Software has announced the appointment of Rodney Bloom as CEO to drive the company's growth strategy and strengthen its leadership group. Rodney has extensive experience in the technology, digital, training, and professional services sectors. He has held executive leadership positions at Deloitte and CSIRO and has worked closely with Defence and Government globally. He has most recently led the model design for the ADF's \$740 million Next Generation Technologies Fund.



NSW and Defence announce grants to accelerate technology

The NSW Defence Innovation Network and Defence's Next Generation Technologies Fund have both announced grant funding to accelerate the rate of technological uptake.

Grants of up to \$50,000 are up for grabs to provide seed funding for NSW SMEs to help develop early stage defence technologies, whilst funding of up to \$650,000 is being provided by the Next Generation Technologies Fund for the cyber research program.

"The NSW Government established the Defence Innovation Network (DIN) last year with a \$1.25 million investment to bring together leading scientists and engineers from seven of the state's public universities to focus on areas crucial to Australia's defence needs," NSW Defence Advocate Air Marshal (Retd) John Harvey said.

"The \$50,000 grants being offered are a fantastic opportunity for NSW SMEs to harness the world-class research skills within our university system to help bring their technology concepts to reality for the benefit of Defence."

The NSW DIN grants are being offered on a competitive basis and require a commitment of matching funds from applying SMEs. Successful SMEs receiving grants will be matched with university teams that can offer the best expertise and capacity to deliver projects.

AIRMSHL Harvey said technology areas considered to have the greatest potential for defence innovation are being targeted.

"These include cutting edge areas for defence like trusted autonomous systems, quantum technologies, hypersonics and medical countermeasures."

The announcement follows a separate call from Defence inviting research proposals from industry and universities to enhance the cyber capabilities of the ADF.

Initial proposals will be funded for 12 months with the option of future funding



The government is encouraging researchers and scientists to develop national cyber capabilities.

NATO

for promising projects.

According to Minister for Defence Industry Christopher Pyne, Australia must respond urgently to cyber threats which are becoming widespread and persistent.

"Malicious cyber activity costs Australian business and families over \$1 billion every year, and malicious cyber activity from state and non-state actors is a threat to Australia's national security," Minister Pyne said.

"The government encourages Australia's scientists and researchers to contribute to the development of cyber capabilities, which is a priority for national security.

"We want academia and industry to collaborate with Defence Science and Technology, and CSIRO's digital research network, Data61, to deliver technology developments and demonstrator systems within three to five years.

"It is critical that Australia develops a sovereign capability to protect our nation."

The deadline for NSW DIN grant applications is 6 August, with more information available [here](#). The deadline for Next Generation Tech Fund grant applications is 15 August, with more information available [here](#).

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Forthcoming Events

ADM EVENTS

More detail on **ADM** Events can be found on our dedicated website: admevents.com.au

- [ADM STEM in Defence Summit](#) – 21 August 2018
- [ADM Defence Estate & Base Services Summit](#) – 19 September 2018
- [ADM Defence in Northern Australia Summit](#) – 10-11 October 2018

BMT's Submarine Design and Engineering course

Location Adelaide

Date 6-10 August

Website trainingcourses@bmttdt.com.au

This course is ideal for anyone currently working or considering working with submarines; offering a comprehensive design and operational appreciation of conventional submarine technologies. This course is accredited by the Royal Institution of Naval Architects. Since its inception in 2009, this Australian course has earned a reputation for providing delegates with practical and current knowledge, and is an important collaboration between BMT and other submarine experts from around the world. The network of presenters provides significant professional development and networking opportunities for those working in the submarine industry.

Project and program management symposium

Date 14-15 August

Location Rex Hotel, Canberra

Website www.pgcsymposium.org.au

The annual Project and Program Management Symposium provides a forum that brings together project management people to share knowledge and improve the governance and controls skill sets available to deliver successful project outcomes for the nation. A highlight of the symposium is its access to thought leaders from the USA and Europe. Each year, selected speakers from overseas are brought to the symposium to share knowledge and provide an international perspective on project and portfolio management.

Scindicate 2018

Date 29-30 August

Location Scindicate Labs, Fisherman's Bend, Melbourne

Website <https://scindicate2018.eventbrite.com.au>

SCINDICATE is the new brand name for the previous annual external engagement event called Partnerships Week. SCINDICATE delegates will experience technology demonstrations, workshops, briefings and laboratory tours, as well as opportunities for networking and forging new collaborations. Delegates can choose to attend on either day, and the program will include key elements repeated across both days.

Williams Foundation Seminar: The Imperative for an Independent Deterrent

Date 23 August 2018

Location National Convention Centre

Website <http://www.williamsfoundation.org.au/events>

With the retirement of the long-range F-111, Australia's future air strike capability now rests in the capabilities of the F/A-18F Super Hornet and F-35A, both equipped with appropriate long-range strike weapons and supported by a capable air-to-air refueling force. An independent strike capability expands the range of options to achieve Australia's strategic ends; signals a serious intent and commitment about Australia's national security; and has the capacity to influence strategic outcomes short of resorting to armed conflict.

Hunter Valley Defence Conference 2018

Date 30-31 August 2018

Location Crowne Plaza Hunter Valley

Website HunterNet

The 2018 Defence Conference will focus on driving collaboration and engagement between Defence Primes, the region's SME's, academia and Defence. A highlight of the conference will be the spectacular low flying aerial show from Matt Hall Racing, followed by a gala dinner.

Land Forces 2018

Date 4-6 September 2018

Location Adelaide

Website www.landforces.com.au

Presented in collaboration with the Australian Army, LAND FORCES 2018 is an international industry exposition to showcase equipment, technology and services for the armies of Australia and the Indo-Asia-Pacific.

ISCILP 2018

Date 5-6 September 2018

Location Adelaide Convention Centre

Website <https://www.landforces.com.au/ICSILP/program.asp>

This year's conference brings Army and Defence Science and Technology closer than ever before in exploring future capability options for warfighting success in a fast-changing environment. Many of the delegates attending ICSILP18 will play key roles in harnessing novel technologies for the development of the required solutions. This presents an excellent networking and knowledge exchange opportunity.

ANI Goldrick Seminar

Date 17 Sep, 2018

Location ADFA, Canberra

Website <https://navalinstitute.com.au/>

ANI will be holding its annual Goldrick Seminar at ADFA – with the title Naval Shipbuilding as Strategy. The event is well-attended every year by senior serving officers and by defence industry.

ICCPM 2018 Thought Leadership Roundtable

Date September 21, 2018

Location Canberra, Melbourne

Website admin@iccpm.com

The International Centre for Complex Project Management (ICCPM), in collaboration with the John Grill Centre for Project Leadership and our sponsors, the QUT Graduate School of Business, KPMG and Bright Consulting, are delighted to invite you to attend this open discussion workshop which seeks to bring together the collective wisdom of senior leaders from both public and private sector organisations to share perspectives on project leadership.

18th Australian Space Research Conference

Date 24 Sep – 26 Sep, 2018

Location Mantra on View Hotel, Gold Coast

Website <http://www.nssa.com.au/18asrc/>

The 18th Australian Space Research Conference (ASRC), will be held at Gold Coast in Queensland over September 24-26. The ASRC is intended to be the primary annual meeting for Australian space research. It welcomes space scientists, engineers, educators, and workers from across the university, industry and government parts of the space sector, and is not limited to Australian-based research. International participants are most welcome. The scope of the conference includes fundamental and applied research, operational matters, technology, and use of space data and facilities. We are accepting [abstracts](#) until July 14.

NZDIA 2018 Forum

Date 30 October – 1 November 2018

Location Central Energy Trust Arena, Palmerston North (NZ)

Website <http://www.nzdiaforum.co.nz/page/528148>

The 2018 NZDIA Forum is our 21st forum. We aim to bring together industry (local, regional and international) and a wider range of government interests than has been achieved previously. The NZDIA forum has, for 20 years, been the most important event on NZ soil for defence and industry to come together. This year we are creating the opportunity and space for a wider cross section of industry: local, Australasian and global with a broader interest in national security encompassing defence, to come together. The speaking and workshop program is coming together as we identify how best to deliver excellent value to our traditional constituency and new attendees.

Veterans Film Festival

Date 1 November – 3 November

Location Palace Electric Theatre, ADFA, Canberra

Website www.veteransfilmfestival.com

The RSL National Veterans Film Festival (VFF) is an annual event, putting the spotlight on stories about veterans, first responders, their families and the influence of warfare on our society. The festival presents a curated program of carefully

selected feature films, short films and media art from Australia and around the globe. Our focus is on recent work by talented indie filmmakers. However, within our program we also present mainstream films, retrospectives and provide opportunities to meet with filmmakers and content creators via Q&A's, panels, etc. All films submitted to the official competition will be eligible to compete for the coveted Red Poppy Awards.

SIA Biennial Conference

Date 7-8 November 2018

Location Rex Hotel, Canberra

Website www.submarineinstitute.com/sia-conferences

Join submarine professionals and key decision makers as the ninth in the biennial series of conferences run by the Submarine Institute of Australia returns to Canberra to explore the issues and opportunities emerging from the decision to extend the lives of the Collins class submarines.

MilCIS 2018

Date 13-15 November 2018

Location National Conference Centre, Canberra

Website 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.

TEAM DEFENCE AUSTRALIA EVENTS

- **AUSA 2018** – 8-10 October 2018, Washington DC, US
- **Indo Defence 2018** – 7-10 November 2018, Jakarta, Indonesia
- **Euronaval 2018** – 23-26 October 2018, Paris, France

For more information go to the business.gov.au TDA webpage [here](#). TDA EOIs will open a few months prior to the event – to keep up to date [register](#) for the CDIC newsletter.