

# **DEFENCE WEEK PREMIUM EDITION**



Defence Science and Technology Group have released a new report into ethical Al.

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# ETHICAL AI REPORT RELEASED FROM DST GROUP

Based on a work held in August 2019, Defence Science and Technology Group have released a new report into ethical Al uses in a Defence context.

# **KATHERINE ZIESING | CANBERRA**

Gathering thought leaders from Defence, academia, industry, government agencies and the media the format allowed for a blend of lectures, tutorials and break out brainstorming sessions along a number of themes.

20 topics emerged from the workshop including: education command, effectiveness, integration, transparency, human factors, scope, confidence, resilience, sovereign capability, safety, supply chain, test and evaluation, misuse and risks, authority pathway, data subjects, protected symbols and surrender, de-escalation, explainability and accountability.

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These topics were categorised into five facets of ethical Al:

- 1. Responsibility who is responsible for Al?
- 2. Governance how is Al controlled?
- 3. Trust how can AI be trusted?
- 4. Law how can AI be used lawfully?
- 5. Traceability How are the actions of Al recorded?

The technical report entitled A Method for Ethical AI in Defence summarises the discussions from the workshop, and outlines a pragmatic ethical methodology to enhance further communication between software engineers, integrators and operators during the development and operation of AI projects in Defence.

"THE FOLLOW UP AND ENGAGEMENT FACILITATED BY KATE DEVITT AND HER TEAM WAS IS AN EXCELLENT MODEL FOR COLLABORATION AND INNOVATION"

Chief Defence Scientist, Professor Tanya Monro, said Al technologies offer many benefits such as saving lives by removing humans from high-threat environments and improving Australian advantage by providing more in-depth and faster situational awareness.

"Upfront engagement on AI technologies, and consideration of ethical aspects needs to occur in parallel with technology development," Professor Monro said.

The significant potential of AI technologies and autonomous systems is being explored through the Science, Technology and Research (STaR) Shots from the More, together:

Defence Science and Technology Strategy 2030 as well as meeting the needs of the updated National Security Science & Technology Priorities.

"Defence research incorporating AI and human-autonomy teaming continues to drive innovation, such as work on the Allied IMPACT (AIM) Command and Control (C2) System demonstrated at Autonomous Warrior 2018 and the establishment of the Trusted Autonomous Systems Defence CRC (TASCRC)."

A further outcome of the workshop was the development of a practical methodology that could support Al project managers and teams to manage ethical risks. This methodology includes three tools: an Ethical Al for Defence Checklist, Ethical Al Risk Matrix and a Legal and Ethical Assurance Program Plan (LEAPP).

**ADM Comment**: I was involved in the initial consultation/brainstorming day at the ANU Shine Dome as part of this program. I was impressed with the level of engagement from the TASCRC and Plan Jericho teams in particular with the delegates.

In particular, I was part of a syndicate of thinkers looking at the role of big data and AI in a health monitoring/logistics context. The hypotheticals were mind bending. For example, a deployed soldier becomes pregnant on operations; the smart health



monitoring system knows before they do. Who does the system tell and when? All the flow on effects are enormous and this is but one example.

The follow up and engagement facilitated by Kate Devitt and her team was is an excellent model for collaboration and innovation that could be applied in other areas of Defence thinking. An excellent report and absorbing topic for those in our community.

# NASA ROVER DESCENDS TO MARS

NASA's Perseverance rover is today making its final descent into the Jezero Crater, 19 degrees north of the Martian equator, where it will look for signs of ancient life. The landing (if successful) will mark a major milestone in Mars exploration, but may also raise questions of the Australian government's strategic approach to space.

# EWEN LEVICK AND ROYA GHODSI | MELBOURNE AND SYDNEY

The 45 kilometre-wide crater is an ancient lakebed from a time (several billion years ago) when Mars was a warmer and wetter planet than it is today. Although it's still unclear as to how the ancient Martian atmosphere sustained flowing water, evidence for that flow is everywhere, not least through geographic features like Jezero.

The Perseverance rover will land near the crater's rim before heading to a nearby ancient river delta to look for evidence of past life in its rocks and sediments.

A number of Australian scientists are supporting the Perseverance mission. David Flannery, a planetary scientist at the University of Queensland, is working as a long-term planner and instrument co-investigator; Australian geologist Abigail Allwood is leading the team that developed an instrument capable of detecting past life on the



The Perseverance rover launched from Florida in July last year

NASA/JOEL KOWSK

rover; and software from the Queensland University of Technology will analyse data that the rover returns from Mars.

These are the type of contributions heralded by the Australian Space Agency's Moon to Mars initiative, which intends to showcase Australian capabilities that can support NASA. The initiative has three investment arms, including the signature Trailblazer program to invest in capabilities that will play a 'direct role' in NASA's goal of sending humans back to the Moon and onwards to Mars.

Since its beginnings in 2018, the ASA has emphasised a jobs and industry-first

"ENGINEERS AND PRIVATE
INDUSTRY WORK WITH SCIENTISTS
WHO CONCEIVE AND OPERATE
SPACECRAFT IN PURSUIT OF TRUTH"

approach. At *ADM*'s last Space Summit in December 2020, Adam Seedsman, Executive Director of Strategy and Policy at the ASA, again stressed its role as a business facilitator rather than a traditional space agency.

"We're different to other space agencies," Seedsman said. "We're an economic development agency. We have a mandate to establish

growth through space in other core industries, such as agriculture."

But Flannery himself has been critical of this 'jobs, jobs, jobs' approach. In a **2019 piece for The Conversation**, he argued that Australia's involvement in deep space has been 'serendipitous rather than intentional'. By contrast, Canada – with a comparable economy and population – has contributed hugely to international space missions through manipulator systems on the Space Shuttles, Space Station and the upcoming Lunar Orbital Platform-Gateway, a launchpad for people heading to Mars.

Flannery argues that Australia is uniquely placed to support the possible return of samples from the Perseverance rover in Jezero crater, but is hampered by the 'jobs' mandate that the ASA has been handed.

"The planning of the nascent Australian Space Agency has largely focused on creating jobs and nurturing industry, but it needs a list of scientific priorities to guide investment in space missions," he wrote in <u>a subsequent piece</u>. "Otherwise, we risk building a car that is missing the driver's seat.

"At successful space agencies overseas, engineers and private industry work with scientists who conceive and operate spacecraft in pursuit of truth. Employment and innovation come from scientific projects, not the other way around."

So for some observers, the landing of the Perseverance rover may raise a question for the ASA's political overseers in the Department of Industry and higher. Is a 'jobs' mandate for the Space Agency truly showcasing Australia's space expertise? Or will Australia's contribution to the global space sector again be measured by the contributions of Australians living and working overseas?



Solving SWaP-C power challenges for MIL-COTS applications

VICOR
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# CODAN BUYS US TACTICAL COMMUNICATIONS FIRM

Australian tech company Codan will pay more than \$100 million to buy US-based Domo Tactical Communications (DTC) from a private equity firm.

**D**TC is an established technology provider for high bandwidth wireless communications with specialist capabilities to provide wireless transmission of video and other data applications to predominantly first world customers, including military and special forces, intelligence agencies, border control, first responders and broadcasters.

SA-based Codan has been on a steep trajectory in the past 12 months, reporting a record profit of \$64 million in August for the 2020 financial year. The result included record sales in its communications and metal detection divisions totalling \$348 million.

Under the DTC deal, Codan will make an upfront payment of about \$113 million with the possibility of an additional payment of up to US\$16 million if certain earn-out targets are achieved in calendar year 2021.

The acquisition is on a cash-free, debt-free basis and is expected to complete by 30 April 2021, subject to US and UK regulatory conditions.

In the first full year of Codan's ownership, DTC is expected to contribute approxi-

mately \$90 million in sales and \$9 million in profit before tax.

"THIS ACQUISITION FILLS A
TECHNOLOGY GAP AND WILL
BE ABLE TO LEVERAGE CODAN'S
GLOBAL DISTRIBUTION CHANNELS"

Codan chief executive Donald McGurk said the acquisition will allow Codan to provide total communications solutions with the addition of video and data to traditional voice-only platforms.

"This acquisition fills a technology gap and will



SA-based Codan makes manpack radios

CODA

be able to leverage Codan's global distribution channels into the developing world," McGurk said. "DTC's products are complementary to Codan's tactical communications solutions and serve similar markets and customers. A number of key members of our tactical communications sales team have previously worked in the MIMO Mesh and surveillance markets, and therefore have significant experience in this industry segment."

# MOST READ ONLINE AT WWW.AUSTRALIANDEFENCE.COM.AU



- 1. Vehicles delivered for Land 400 Phase 3 RMA
- 2. RAAF Classic Hornets get a new lease on life
- 3. First F-35 inducted into BAE Systems maintenance depot
- 4. BTB Marine workboat chosen for survey program
- 5. Northrop Grumman teams with Ultra on unmanned ASW

# NEW PROGRAM TO CONNECT SMES WITH GLOBAL SUPPLY CHAINS

An Australia-first program designed to help SMEs get a foothold in global markets and supply chains for the trillion-dollar defence, advanced manufacturing and cyber security sectors has launched this week.

Team.eX is a specialist business program that helps SMEs develop business maturity and come together to build the capacity and capability often needed to realise export success.

Developed by the Defence Teaming Centre, at the core of Team.eX is an eightmonth executive education style program, which SMEs can join at varying levels of participation.

Depending on the level of involvement, participants will have access to face-toface workshops, online modules, networking opportunities, legal templates, facilitated

introductions, market research and one-on-one export coaching.

"WE STRONGLY BELIEVE TEAM.
EX WILL SUPPORT BUSINESSES
TO MATURE AND COMPETE"

Defence Teaming Centre Chief Executive Officer Audra McCarthy said Team.eX will enable businesses to take on larger projects, diversify their revenue streams and achieve export success, as well





as capitalise on the massive growth in the defence, cyber security and advanced manufacturing sectors worldwide.

"For Australian SMEs wanting to access global markets and the supply chains of large, multi-national organisations, it isn't as simple as picking up the phone and talking to the right person," McCarthy said. "To be considered, even the amount of paperwork required can be overwhelming. It requires a huge amount of preparation and commitment from a business.

"The teaming concept will bring together like-minded SMEs with complementary capabilities to offer an improved, integrated solution to global customers and overcome many perceived risks such as size.

"Combined, the knowledge, skills and relationships provided by the program will build capability and scale, making it easier for SMEs to compete domestically and globally for work across a range of sectors."

Tony Martin, the Global Access Program Manager at BAE Systems Australia, said the Team.eX program supports the company's existing efforts to build the capability of its supplier community.

"There are significant opportunities for Australian industry in the BAE Systems' global supply chain," Martin said. "We strongly believe Team.eX will support businesses to mature and compete domestically and globally for work.

"We find within the Australian supply community, there are many SMEs with a niche – unique capabilities which they apply very well in their own selected field. But bringing together companies with complementary capabilities, as Team.eX aims to do, can often achieve a far greater effect."



# CHANGE IN MANAGEMENT FUELS NAVY CAPABILITY

The management and operation of refuelling services at HMAS Coonawarra in Darwin were this month handed back to Navy personnel from contractors.

# LIEUTENANT GORDON CARR-GREGG | DEFENCE

The move is part of an ongoing transformation of the base and the Larrakeyah Defence Precinct.

Commanding Officer Coonawarra Commander Moses Raudino said he was pleased to be able to sign off on the handover from the previously contracted workforce.

"The Defence Fuelling Installation is a key capability that ensures Navy is ready to

respond to tasking at a moment's notice," he said.

"THE DEFENCE FUELLING
INSTALLATION IS A KEY
CAPABILITY THAT ENSURES
NAVY IS READY TO RESPOND TO
TASKING AT A MOMENT'S NOTICE"

"The complete control of our fuelling evolutions in-house' so to speak, is part of providing comprehensive service and support to HMA Ships at our establishment.

"We kicked off by filling up HMAS Ararat with a fresh 28,780 litres of marine diesel as soon as it came alongside," Chief Petty Officer Peter Strzeleck, who leads the team, said. "It was the



Leading Seaman Jeffrey Drew, left, and Seaman Lachlan Bucknell, prepare to refuel HMAS Ararat at HMAS Coonawarra, Darwin. LEADING SEAMAN SHANE CAMERON/DEFENCE

first fuelling evolution at *Coonawarra* conducted end to end by uniformed Navy personnel with our complete new team.

"These additional billets ashore (land-based jobs) ensure that uniformed personnel are providing a high quality service to our ships that is always available, even on weekends or after hours when it would be difficult to quickly get a contractor in.

"Increased billets ashore also offer our people up here respite from back-to-back sea postings as part of the new Navy Workforce Generation System reset phase."

Coonawarra conducts more than 200 fuelling evolutions per year on average, depending on the operational tempo of local and visiting navy fleet units.

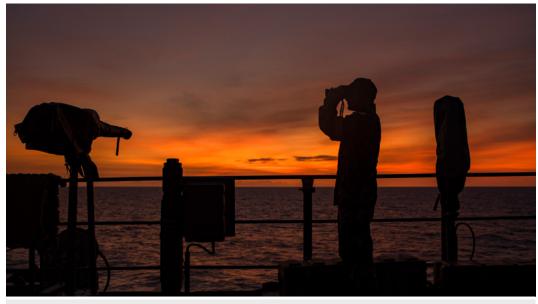
# VETERAN-LED CHARITY OFFERS FREE MENTAL HEALTH APP TO ALL

More than 3000 Australian military veterans are currently using the Swiss 8 app to improve their mental health. Now, Swiss 8 is making this app available to all Australians.

Swiss 8 founder Adrian Sutter said the app has been built to prevent mental health decline in veterans experiencing isolation, unstructured lifestyle, loss of identity and loss of purpose. These are all issues veterans face when they leave the military. Now with COVID-19, they are issues which all Australians are facing.

"We launched Swiss 8 as a charity in 2019. The

"THE OBJECTIVE WAS TO REDUCE THE NUMBERS OF VETERANS TAKING THEIR OWN LIVES"



A sailor keeps watch in the Coral Sea

DEFENCE

objective was to reduce the numbers of veterans taking their own lives as a result of anxiety and depression," Sutter said. "Then Covid hit and we knew suicide and mental ill-health was going to be a crisis faced by all Australians. We had to offer this tool to everyone, we just didn't know how we would afford it."

Australian mining company BHP, through the Vital Resources Fund, offered to provide the financial support required to get the app ready for a national launch.

Swiss 8 Chief People and Culture Officer, Anthony Meixner, said the charity now has an even stronger purpose: using veteran lived experience to provide interventions for all Australians.

"We have improved the app features, allowing users to create teams, stay connected while working remotely and keep teammates accountable as they workout, follow nutrition plans, meditate, and become better at life," Meixner said.

The Swiss 8 app is available in the Appstore and Google Play store.

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# CHANGING OUR WORLD



# FORTHCOMING EVENTS

# **ADM EVENTS**

#### More detail on ADM Events can be found on our dedicated website.

- Defence Estate and Base Services Summit 07 July 2021, Hotel Realm |
   Canberra
- STEM in Defence Summit 16 August 2021, Emporium Hotel | Brisbane
- Northern Australia Defence Summit 28 October 2021 | Darwin

# **WOMEN IN STEM**

DATE 25 February 2021

LOCATION Online (NSW, VIC, QLD)

**WEBSITE** eventbrite.com.au/e/women-in-stem-join-event-eeon-neeopa-dpa-tick-

ets-135113336627?aff=DPA

DPA, NEEOPA and EEON are joining forces to present a panel conversation discussing women in STEM and how to tackle the prevailing barriers in creating more gender-equal industries. The expert panel will explore the following themes and provide practical strategies you can use immediately in your workplace, or in your entrepreneurial endeavours: attraction and how to inspire the next generation and end under-representation; how we reshape the stories we share about STEM to address enduring myths; rethinking attraction to grow our pipeline, including the role of research and universities; why women leave STEM: the challenges of culture and covert discriminatory practices; and practical strategies to make schools, universities and workplaces ready and more inclusive. This virtual event will be free to attend.

#### **MARCH 2021 AVIATION AUCTION**

**DATE** 12 March 2021

LOCATION 80 Beach Road, Lara, Victoria

WEBSITE australianfrontlinemachinery.com.au/march-2021-aviation-auction

With Australian Frontline Machinery – This huge ex-Military Aviation Auction includes 8 Pilatus PC-9/A Aircraft, 4 Schleicher ASK 21 Mi Gliders, an Aermacchi MB-326 'Macchi' grounded Jet Training Aid and over 200,000 Spare Parts direct from ADF up for auction on the 12th March 2021. Please check individual listings for each aircraft. Inspection held on 15th – 19th March 2021\*. Inspection advised, video inspections available. \*Subject to change

#### LOCATE21

DATE 30 March – 1 April 2021 (rescheduled dates)
LOCATION Brisbane Convention and Exhibition Centre

**WEBSITE** locateconference.com/2021

Due to COVID-19, Locate20 has been rescheduled for Locate21 happening in Brisbane March 30 – 1 April 2021. The event will focus on how geospatial technologies are intersecting with business, Government and defence to address national challenges. It's Australia's premier spatial conference with the inclusion of over 50 inspiring thought-leaders including speakers from government, academia, the defence force, technology, mining, natural resources and more. We believe this conference is of interest to defence personnel.

# **CHIEF OF ARMY SYMPOSIUM**

**DATE** 19-20 April 2021

**LOCATION** Brisbane Convention and Entertainment Centre

In previous years, the Chief of Army's Land Forces Seminar (CALFS) was an event focused on counterpart engagement and featured as part of the broader Land Forces Exposition. In 2021, the Chief of Army's Symposium (CAS) will replace CALFS and will include a number of activities focused on partnerships, technology, innovation and people. It is scheduled to be held at the Brisbane Convention and Entertainment Centre over the period 19-20 April.

# **ARMY ROBOTICS EXPOSITION 2021**

**DATE** 20 April 2021

**LOCATION** Brisbane Convention and Entertainment Centre

Army is hosting the Army Robotics Exposition 2021 (ARX 2021) to facilitate observation and demonstration of RAS concepts and technologies. ARX 2021 will provide an opportunity for Defence personnel including Capability Manager Delegates to view available technologies and innovations which may be applied to the future operating environment.



# **AAUS RPAS IN AUSTRALIAN SKIES 2021**

DATE 09-11 March 2021
LOCATION Hotel Realm Canberra

WEBSITE aaus.org.au/rpas-in-australian-skies-2021

The Australian Association for Unmanned Systems' "RPAS in Australian Skies 2021" conference is an important strategic event aimed at the continuing discussion on the safe integration of RPAS into Australian Airspace. It is supported by key government and industry participants and has established itself as a landmark event in the Australian RPAS calendar.

# TRUSTED AUTONOMOUS SYSTEMS SYMPOSIUM 2021

**DATE** 20-22 April 2021

**LOCATION** Townsville

WEBSITE tasdcrc.com.au/symposium2021

Trusted Autonomous Systems is pleased to launch information and registrations for the Accelerating Trusted Autonomous Systems Symposium, 20-22 April 2021 at 'The Ville' Townsville. There will be a breadth of perspectives on offer and interactions for those in academia and industry to senior Australian Defence Force (ADF) in leadership roles in Robotics, Autonomous Systems and Artificial Intelligence (RASAI). The Symposium is focussed toward a physical audience with a comprehensive technical capability to support virtual attendance and participation.

# **HUNTER DEFENCE CONFERENCE**

**DATE** 22-23 April 2021

**LOCATION** Crown Plaza, Hunter Valley **WEBSITE** www.hunterdefence.org.au

The Hunter Defence Conference will be held in April next year at the Crown Plaza in the Hunter valley. More details will be available soon.

#### **LAND FORCES 2021**

**DATE** June 1-3 2021

**LOCATION** Brisbane Convention Centre

**WEBSITE** landforces.com.au

The biennial LAND FORCES exposition is an international industry event to show-case equipment, technology and services for the armies of Australia and the Indo-Asia-Pacific. The Land Forces 2021 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.

#### **ROTORTECH 2021**

**DATE** 15-17 June 2021

**LOCATION** Royal International Convention Centre, Brisbane

**WEBSITE** rotortech.com.au

The new dates for Rotortech will be Tuesday 15 June to Thursday 17 June 2021. The venue, the Royal International Convention Centre in Brisbane, is unchanged. Rotortech is the region's premier helicopter and unmanned flight systems showcase and forum, featuring more than 100 participating companies and key speakers from industry and government. We believe that deferring Rotortech to its new June 2021 dates will achieve this goal by moving the event to a time where the COVID situation will have improved and the current uncertainties will have passed.



# PROJECT AND PROGRAM MANAGEMENT SYMPOSIUM

DATE 10 – 12 August 2021 (rescheduled dates)

LOCATION Canberra Rex Hotel
WEBSITE pgcsymposium.org.au

Foresight is more valuable then hindsight! PGCS 2021 is designed to help project and program managers, and their sponsors and senior managers, develop the skills and understanding needed to deliver projects success in the next decade. Creating the organisational capability needed to underpin the consistent delivery of successful projects in the 2020s starts at the top. Now in its 8th year, PGCS 2021 will focus on ways to build the foundations needed to create project and program success

# **2022 MARITIME ROBOTX CHALLENGE**

**DATE** 11-17 November 2022

**LOCATION** Sydney International Regatta Centre

WEBSITE https://www.dst.defence.gov.au/event/2022-maritime-robotx-challenge

Robonation and Defence Science and Technology Group are hosting the 2022 Maritime RobotX Challenge, an international autonomous maritime robotic vehicles competition. This competition will give teams of university students a unique opportunity to develop their autonomy skills. Using the WAM-V surface craft, participants will develop an autonomous maritime system that will be put through its paces in a series of tasks in the maritime domain.

# **AVALON 2021**

**DATE** 23-28 November 2021

**LOCATION** Avalon Airport

The Australian International Airshow and Aerospace & Defence Exposition is one of Asia-Pacific's most prestigious aviation and aerospace events and the most comprehensive aviation, aerospace and defence exposition in the southern hemisphere. Avalon hosts multiple concurrent conferences and expo streams, across the spectrum of Defence, Airlines, Business and General Aviation, Sport and Recreational Aviation, Airports, MRO, Space, Unmanned Systems, Air Safety and Ground Equipment.



# 2022

#### **INDO PACIFIC 2022**

DATE 12 May 2022 LOCATION ICC Sydney

**WEBSITE** pacificexpo.com.au

INDO PACIFIC, the biennial International Maritime Exposition, will combine an extensive exhibition presence, a comprehensive conference program and a schedule of networking and promotional opportunities. It will be the 12th iteration of this internationally renowned event, and will be a critical link event for Defence, government and industry as Australia defines how it will invest \$90 billion on new ships, submarines and their systems and support.

# **VARIOUS DATES**

# **ASDEFCON TD /IP ONLINE COURSES**

**DATE** Various **LOCATION** Online

**WEBSITE** defence@majortraining.com.au

Defence have begun online delivery of its short course on the Technical Data / Intellectual Property (TD/IP) clauses in its ASDEFCON suite of templates. These clauses provide far more flexibility and scope to deal with TD/IP issues than the previous ones. Defence will offer a number of spaces to Defence Industry on each online course to ensure the new TD/IP regime is successfully adopted by industry. These positions are centrally funded by Defence.

# **ICCPM ONLINE WORKSHOPS**

**DATE** Various **LOCATION** Online

WEBSITE iccpm.com/online-workshop-webinars

Designed to support project teams who are experiencing new challenges due to COVID-19 concerns – Learn how to mitigate new risk levels, effectively deploy virtual teams, manage messy problems and more. ICCPM Online Workshops and Webinars provide you with an easily accessible and engaging option to continue your training from anywhere in the world. These options provide you and your team with a conducive learning environment to support your complex project success.