



2018 Land Forces AUSTRALIA INDO ASIA PACIFIC

4 - 6 SEPTEMBER
ADELAIDE CONVENTION CENTRE
AUSTRALIA

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5 SEPTEMBER 2018

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LAND FORCES 2018 PRESENTS \$30,000 DEFENCE INNOVATION AWARDS

Seven Australian organisations and individuals have been rewarded for innovation in the defence industry field at the 2018 LAND FORCES exposition in Adelaide today. Australian Minister for Defence, the Hon. Christopher Pyne, presented the 2018 LAND FORCES Innovation Awards in five categories, from 18 finalists.

- LAND FORCES 2018 National Innovation Award
- LAND FORCES 2018 SME Innovation Grant
- LAND FORCES 2018 Young Innovator Award
- LAND FORCES 2018 Innovation Award for Combat Equipment and Mobility
- LAND FORCES 2018 Innovation Award for Intelligence, Surveillance and Reconnaissance (ISR) and Cyber

Please see next page for a complete list of winners, with links to on-line interviews.

Award winners received a trophy, while the winners of the SME Innovation Grant and the Young Innovator Award received cheques for \$15,000 each. All 18 Australian innovators shortlisted for the Innovation Awards are featured at LAND FORCES 2018 in a dedicated Innovation Awards Showcase.

This is the third LAND FORCES to feature the Innovation Awards, developed by not-for-profit LAND FORCES organiser Industry Defence and Security Australia Limited (IDSAL).

The awards are open to Australian companies or the Australian subsidiaries of overseas parent companies. The innovation can involve a new product or service or a new approach to business, with entries judged on their understanding of user needs.

“The LAND FORCES 2018 Innovation Awards recognise the growing pool of research and innovation evident in the Australian defence industry, and the commitment to take concepts all the way from brilliant idea to tangible products and services,” said LAND FORCES 2018 CEO Ian Honnery.

“This year’s record 31 entries reflect recent greater focus on Australian innovation from industry, Defence and government.”

LAND FORCES 2018 is organised by Industry Defence and Security Australia Limited (ABN 31 091 148 837)
PO Box 4095, Geelong VIC 3220, Australia T: +61 (0)3 5282 0500 F: +61 (0)3 5282 4455 E: landdefence@amda.com.au www.landforces.com.au



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The Land Forces Industry Innovation Awards are part of a program also involving Maritime, Aerospace and Civil Security Industry Innovation Awards, presented biennially at the Pacific International Maritime Expo in Sydney, the Australian International Air Show and Aerospace and Defence Exposition at Avalon Airport and the CivSec Civil Security Congress and Exposition in Melbourne.

The program has awarded \$275,000 in Innovation grants and awards across all events since it began in 2013.

About LAND FORCES 2018

LAND FORCES 2018 is an international industry exposition to showcase equipment, technology and services for the armies of Australia and the Indo-Asia-Pacific. It is supported by the Australian Defence Force, in particular the Australian Army, the Defence Science & Technology Group and the Department of Defence's Capability Acquisition and Sustainment Group (CASG).

The LAND FORCES 2018 Exposition is being held at the Adelaide Convention Centre from 4 to 6 September 2018.

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THE WINNERS

LAND FORCES 2018 SME INNOVATION GRANT

DroneShield Limited – DroneGun Tactical

The DroneGun Tactical is a fully integrated rifle-style safe countermeasure against a wide range of drone models. Its design allows it to be highly portable and it can disrupt multiple RF frequency bands simultaneously. Activation of RF (2.4GHz, 5.8GHz, 433 MHz and 915MHz) and GNSS (GPS, GLONASS) signal jamming disrupts commercial drone control functions including video transmission to the drone operator.

No damage results to the drone or surrounding environment as once the drone is effectively jammed it will perform one of its inbuilt suspension operations such as entering a controlled landing or returning to the flight starting point (assisting authorities to track the operator). The drone remains intact and available for forensic investigation.

<http://landforces.com.au/innovation-awards/SME-Innovation-Grant.asp>

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LAND FORCES 2018 YOUNG INNOVATOR AWARD

Mr Angus Bean, DroneShield Limited – designer of the DroneGun Tactical

Mr Angus Bean was largely responsible for designing the DroneGun Tactical, a fully integrated rifle-style safe countermeasure against a wide range of drone models. In response to user feedback, he designed it to be much smaller and lighter than its predecessor, the DroneGun Mk2, but just as effective. Its design allows it to be highly portable and it can disrupt multiple RF frequency bands simultaneously. Activation of RF (2.4GHz, 5.8GHz, 433 MHz and 915MHz) and GNSS (GPS, GLONASS) signal jamming disrupts commercial drone control functions including video transmission to the drone operator.

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<http://landforces.com.au/innovation-awards/young-innovator-award.asp>

LAND FORCES 2018 NATIONAL INNOVATION AWARD

Boeing Defence Australia Limited – Currawong Battlespace Communications Systems

The Currawong Battlespace Communications System automates deployment and management for the Australian Defence Force, transferring secure data, voice and video between Australian headquarters and deployed forces globally. Extensive side by side development and testing conquered complexity, schedule and budget. This Australian technology has shifted the signals unit's role from managing delicate links to supplying a dynamically optimised network resource.

Key program features include:

- Agile sprint methodology
- Flexibility to adapt contract requirements and design
- Smart investment, growing Australian small businesses' genuine capability

This innovative approach has delivered the world's most advanced Battlespace Communications System with:

- Improved deployability, availability and performance
- Resilience to damage, denial and environment
- Reduced equipment size, weight and power
- Global reach using modern technology

<http://landforces.com.au/innovation-awards/national-innovation-award.asp>

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LAND FORCES 2018 INNOVATION AWARD FOR ISR AND CYBER

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<http://landforces.com.au/innovation-awards/isr-and-cyber.asp>

LAND FORCES 2018 INNOVATION AWARD FOR ISR AND CYBER – HIGH COMMENDATION

L3 Microe and Defence – SILVERSHIELD System Development Collaboration

In 2017, as part of the Australian Department of Defence's REDWING Program Phase 2, L3 Microe provided professional, specialist engineering resources to assist Defence in the development of the next generation vehicle-mounted electronic force protection system to protect Afghan National Defence Security Forces from Improvised Explosive Devices (IEDs).

Five specialist L3 Microe design engineers were deployed from Brisbane to work within Defence Science & technology (DST) Group's facilities in Adelaide for a 10-month period through the design and prototype phases. It was a collaborative product development project and a new and unique way of Defence and Industry working together.

The outcome is SILVERSHIELD – an effective solution which inhibits remotely triggered IEDs.

<http://landforces.com.au/innovation-awards/isr-and-cyber-high-commendation.asp>

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LAND FORCES 2018 INNOVATION AWARD FOR COMBAT EQUIPMENT AND MOBILITY

DMTC Limited and Planet Innovation – Nplex – a Rapid, Field Deployable Diagnostic System

Australia needs a sovereign industrial medical countermeasures capability in order to be ready to respond to a range of natural or man-made threats, diseases and pandemics.

This DMTC project, through its industry partner Planet Innovation, is investigating a range of novel technology improvements to enable rapid detection of security sensitive biological agents. The DMTC team's solution, Nplex, offers a high sensitivity diagnostic device that can quickly identify causative infectious disease agents at the point of care, reducing the time of diagnosis from hours or days to just 10-15 minutes and allowing appropriate response/treatment action to be taken immediately.

The project is also developing an in-country supply chain of capable, Australian-based SMEs to manufacture components that historically have only been sourced from overseas. In this way, the project is not only providing an important national health security capability but also creating new market and export opportunities for Australian industry.

<http://landforces.com.au/innovation-awards/combat-equipment-and-mobility.asp>

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LAND FORCES 2018 STATISTICS AND INFORMATION.

1. Statistics for the previous LAND FORCES in 2016.

- 501 participating companies from 23 Countries
- 66 Official Defence, Government and Trade delegations
- 11 Conferences, Symposia and Seminars
- 13,450 total attendances during the event

2. LAND FORCES 2016 benefit to the local economy.

IDSAL did not initiate an economic impact survey for LAND FORCES 2016. However, a media release from the Hon Christopher Pyne MP, Minister for Defence Industry, quotes “Land Forces, the largest land defence conference of its type, which injected \$16.6 million into the SA economy in 2016”.

3. Expected statistics for LAND FORCES 2018.

A recently completed upgrade to the Adelaide Convention Centre has seen an increase in available exhibition space for this year's event.

- 624 participating companies from 26 Countries
- 328 Small to Medium Enterprises
- 67 Official Defence, Government and Trade Delegations
- 16 Conferences, Symposia and Seminars
- Expected greater than 15,000 total attendances during the event

4. LAND FORCES is a hub for Defence debate and policy information.

- Chief of Army Land Seminar (CALFS18)
- Land Environment Working Group (LEWG) Defence Engagement With Industry Briefings
- CASG 3rd Army Aviation Symposium

5. LAND FORCES is a hub for innovation and technical development.

- DST International Conference on Science and Innovation for Land Power 2018 (ICSILP18) Conference
- Defence Industry and Innovation Programs and Policy Settings Conference
- Showcasing Australian Industrial Capability – A Discussion With Industry Leaders
- Australian Association of Unmanned Systems – Unmanned Systems in Defence Conference
- Simulation, Immersive Environments and Human Interactions Conference
- Land Forces Innovation Awards and Pitchfest

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