

A2AD

LAND AIR SEA SPACE CYBER

A2AD ASIA PACIFIC 2018

CANBERRA, AUSTRALIA
JULY 2018

DEVELOPING A MODERN UNDERSTANDING AND CONCEPT OF ANTI-ACCESS AND AREA DENIAL

CHALLENGE

Modern A2AD has changed the nature of current warfare, and presents a significant challenge to coalition forces and freedom of use of advanced military systems.

In order to conduct successful military operations in the A2AD environment military commanders are now faced with the serious realisation that A2AD is a new way of conflict and must now take into account – and fully appreciate – the associated challenges.

LAUNCH

Tangent Link is launching a new strategic and technology-driven Anti-Access Area Denial (A2AD) conference to stimulate debate and discussion relating to the core challenges faced by the Australian Defence Forces up to 2040.

With potential flashpoints in the South China Sea and the Korean Peninsula as well as the proliferation of precision strike capabilities and cross-domain threats from cyber and space, Australia faces the most challenging strategic environment in its recent history.

In response, Australia has unveiled its biggest ever investment in the nation's defence capabilities in the face of this mounting military presence on its doorstep and wider global security threats. Australia is spending \$195 billion over the next decade in an exponential expansion of its Navy, Air Force and Army including a huge boost to its Intelligence Services.

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FUNDAMENTAL QUESTIONS

With an international and national speaker line up, the conference will set out to debate over some fundamental questions including:

- What should the military force look like in 2040?
- What implications will the “Multi-Domain Battle” have on procurement, training and doctrine?
- Cross-domain threats - what are they?
Including:
 - Network cyber attacks
 - Undersea cable-cutting
 - Conventional bombing of database farms
 - Anti-space attacks on navigation and targeting satellites
- Which counter A2AD concept of operations are Coalition forces likely to employ?
- Imagine a day without electro-magnetic spectrum - what would the effects of an EMP explosion have on defence forces and what research is emerging to counter the EMP threat?
- Has the future stealth of a submarine now been compromised?
- What are the industry solutions?

THE EVENT

The event will provide clarity as to how Australia's Defence Forces might integrate and interoperate with Coalition forces in the future. The conference will also deconstruct A2AD into its component parts addressing both the military and non-military solutions.

International case studies will be presented identifying potential adversarial A2AD strategies and developing A2AD alliances in the Asia Pacific Rim region and will spotlight the latest A2AD technologies and training required to meet the needs of Australia and coalition Defence Forces.

CONFERENCE

With presentations from senior representatives of international Navies, Armies and Air Forces; A2AD analysts from some of the world's leading strategic study institutions and war colleges; and providers of technologies to attack and defend the A2AD environment, A2AD Asia Pacific is set to light the touch-paper on this vital topic.

CONFERENCE SESSIONS WILL INCLUDE:

- Cross-domain threats and multi-domain battle
- The laying down of cyber effects in modern day warfare
- Current regional naval opinion on A2AD
- A2 and the non-military constructs of Anti-Access Warfare
- AD-Aerial Denial - the military solution
- International case studies
- Technology and training
 - Missiles - anti ship cruise missiles (ASCM), land attack cruise missiles (LACM), anti-ship ballistic missiles (ASBM), surface to air missiles (SAM)
 - C4ISR - primary enablers, space-based assets, over-the-horizon back scatter radars, anti-satellite (ASAT) weapons, cyber and EW technologies
 - The role of land, sea, air unmanned systems in an A2AD environment

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