



AUKUS Electronic Warfare Innovation Challenge
Australian Market Briefing
Commences 1100 AEST



Defence acknowledges the Traditional Custodians of Country throughout Australia. Defence recognises their continuing connection to traditional lands and waters and would like to pay respect to their Elders both past and present.

OFFICIAL

ASCA
Advanced Strategic
Capabilities Accelerator



AUKUS Electronic Warfare Innovation Challenge

Australian Market Briefing

16 April 2024

Agenda for Market Briefing

Item	Activity
1.0	Welcome & Housekeeping
2.0	Introduction to Speakers
3.0	AUKUS Pillar II Overview
4.0	ASCA – AUKUS Electronic Warfare Innovation Challenge
5.0	Q&A
6.0	Conclusion

Housekeeping

AUKUS EW Innovation Challenge

- The AUKUS Electronic Warfare (EW) Innovation Challenge was released 26 March 2024, in conjunction with our US & UK Counterparts
- Information about ASCA's AUKUS EW Innovation Challenge can be located through AusTender or visit www.asca.gov.au/opportunities.

Submission of Questions

- Question may be submitted at any time during the presentation using the Question box
- The MC will moderate the Q&A to our speakers
- Questions may be grouped to themes or taken on notice
- An addendum will be uploaded to the AusTender page post market briefing

Speakers for market briefing

- Acting/ First Assistant Secretary, Kim Moy , AUKUS Advanced Capabilities Division
- Dr Anthony Schellhase, Program Lead Electronic Warfare, Defence Science Technology Group
- Head of ASCA, Prof Emily Hilder, Advanced Strategic Capabilities Accelerator

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AUKUS Pillar II Innovation Challenge

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AUKUS Electronic Warfare Innovation Challenge

AUKUS Innovation Challenge

- At the AUKUS Defence Ministers' Meeting in California on 1 December 2023, it was announced that AUKUS partners would launch the Innovation Challenge Series in the first half of 2024.
- The AUKUS Innovation Challenge Series will enable governments, industry, and academia to co-design solutions to operational problems.
- The first AUKUS Innovation Challenge was drawn from a trilaterally agreed problem set that our defence forces are facing, and will focus on electronic warfare.

AUKUS Innovation Challenge

- The AUKUS Innovation Challenge series will be run initially through national innovation organisations – the Advanced Strategic Capabilities Accelerator (ASCA) in Australia, the Defence and Security Accelerator (DASA) in the United Kingdom, and the Defense Innovation Unit (DIU) in the United States.
- The opportunity for each nation to deliver this challenge separately allows us to learn how each of our innovation system work, so that in future we can better integrate to deliver future challenges in the AUKUS series.
- What each nation does with those solutions is a sovereign decision based on national interests.

ASCA – Innovation Incubation Program

- The Innovation Incubation Program is focussed on identifying opportunities to partner with Australian industry and universities to rapidly adapt, test and acquire new or commercial technology for military purposes.
- The program is funding projects to identify and develop solutions that address capability priorities as approved by the Vice Chief of the Defence Force.
- Challenge statements are used to elicit industry and university responses for short-term funding on projects.

AUKUS EW Innovation Challenge

- On 26 March 2024, ASCA released the first challenge of the AUKUS Innovation Challenge series for AUKUS Pillar II, focusing on electronic warfare.
- This challenge will focus on Defence's ability to leverage electromagnetic Spectrum (EMS) technologies and capabilities that provide a competitive advantage to electromagnetic (EM) targeting, and those that protect Defence from adversary EM targeting capabilities.
- Successful companies will enter into a contract to deliver a project execution plan and attend a co-development workshop.

AUKUS EW Innovation Challenge

Challenge Statement

The electromagnetic spectrum (EMS) is a heavily congested, contested, complex and competitive environment, and there is an increasing need for low cost, disposable, high volume and highly autonomous capabilities to achieve asymmetric advantage.

How might Defence harness the EMS to project force to target adversaries and counter their ability to target AUKUS partners?

Challenge Statement

The challenge statement identifies six key elements of the targeting cycle, that Defence is interested in improving through development and transition of innovative technologies are;

Key capabilities

Find: Identify a target using the EMS

Fix: Identify a target's location using the EMS

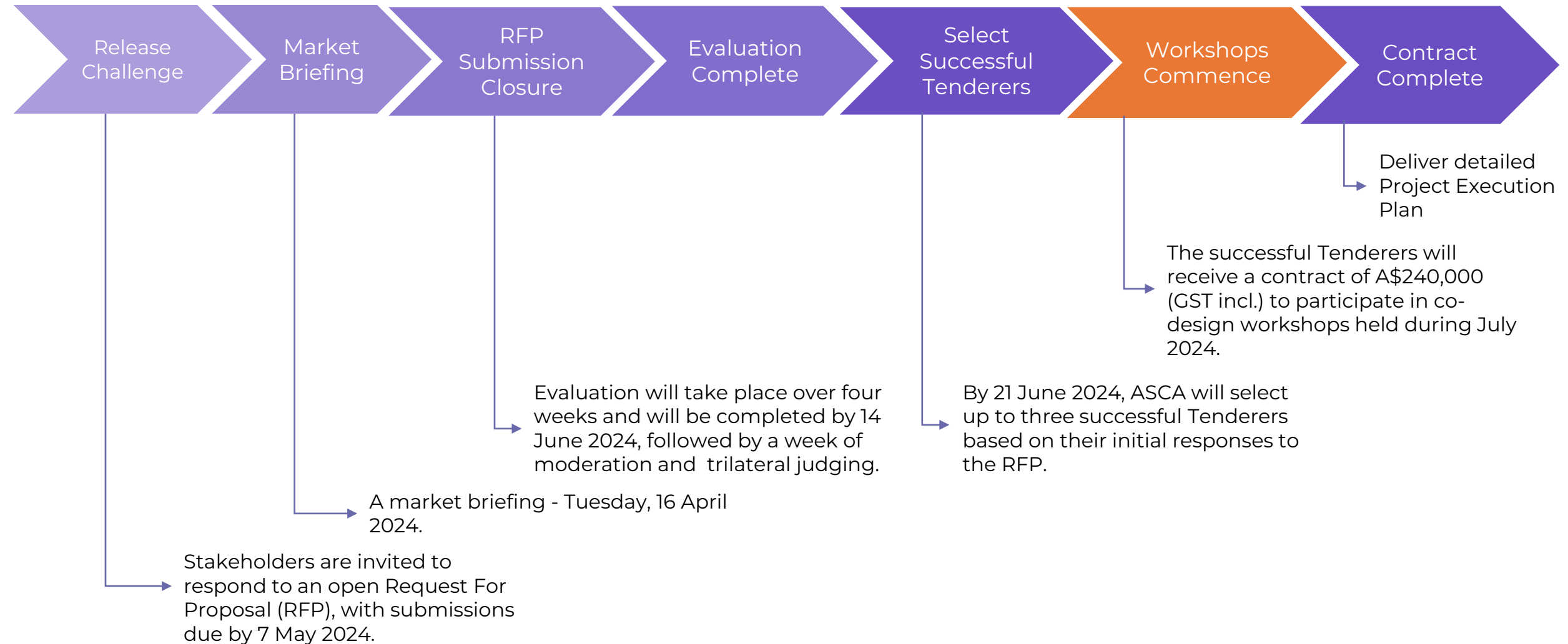
Track: Monitor a target's movement using the EMS

Target: Select and apply appropriate EMS assets and/or EMS enabled weapon systems

Engage: Apply EMS assets and enabled weapons to a target

Assess: Evaluate effects of an attack using the EMS.

Challenge Procurement Approach



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Questions & Answers

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Summary

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