



ASSOCIATION
of OLD CROWS

Electronic
Warfare **Asia**

The Australian Defence Force's Evolving Approach to Information Operations: The View from 2020

Presentation to EW Asia 2020 Conference

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Caveat

- This presentation reflects my personal views and should not be construed as reflecting the official position of the Australian Government
- This presentation is UNCLASSIFIED in entirety

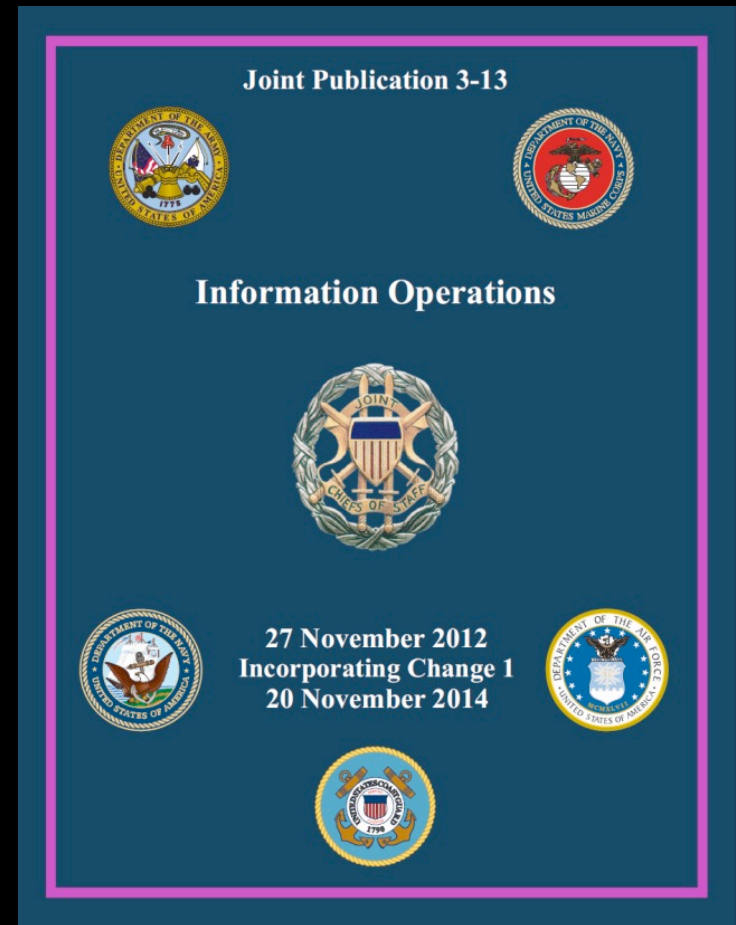
Agenda

- Fundamental Terminology and Concepts
- The Evolving Strategic Environment
- Australia's Current Approach to Information Operations
- Current and Emerging Challenges

Fundamental Terminology and Concepts

IO: US Joint Doctrinal Definition

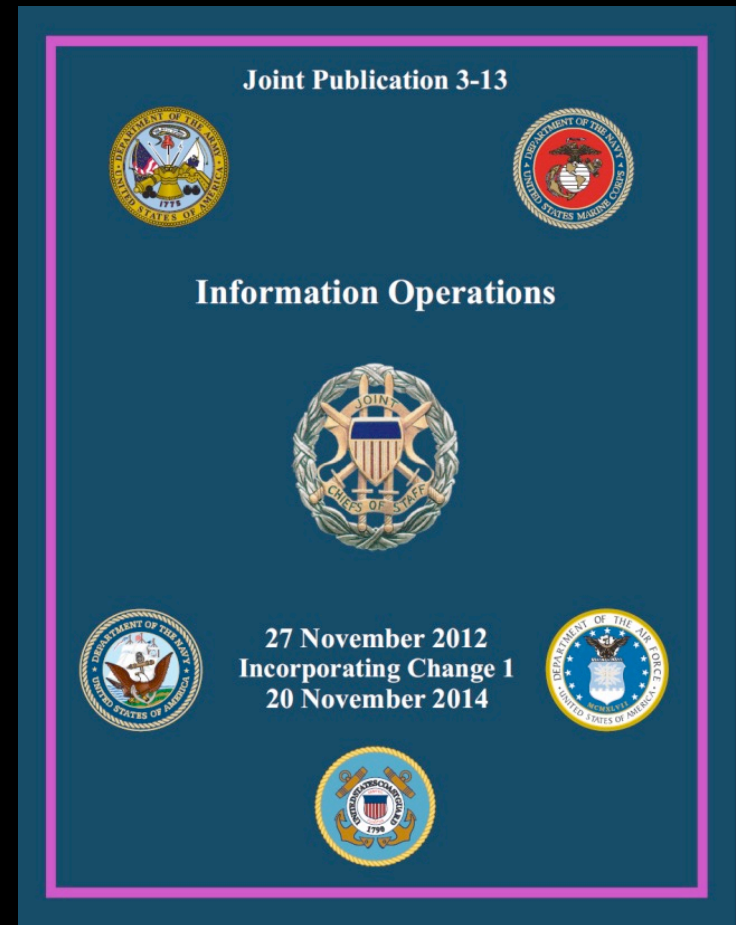
- “The integrated employment, during military operations, of information-related capabilities in concert with other lines of operation to influence, disrupt, corrupt, or usurp the decision-making of adversaries and potential adversaries while protecting our own.”



Source: Joint Publication 3-13, *Information Operations*, 27 November 2012 (update 2014)

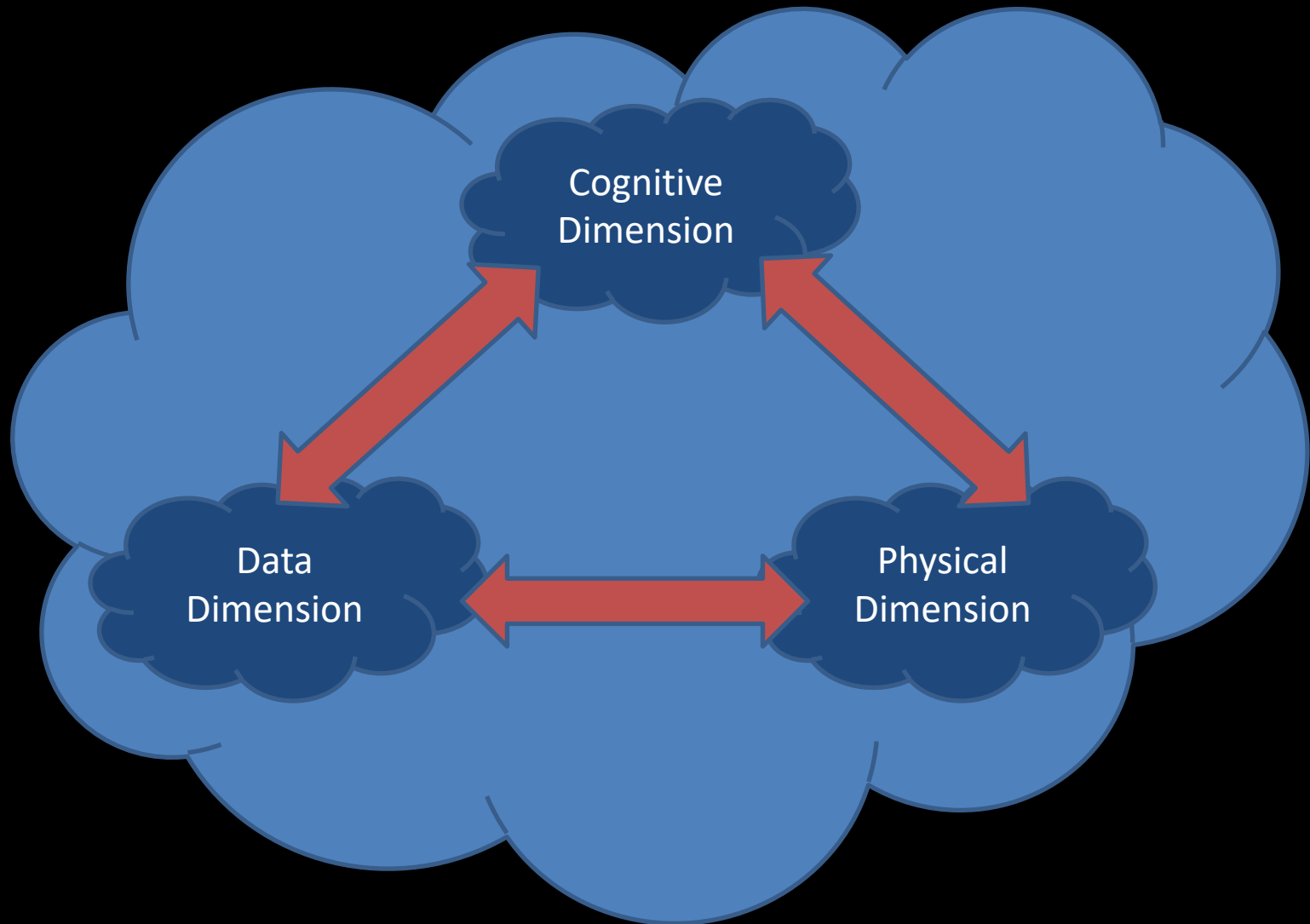
Information-Related Capability (IRC)

- “A tool, technique, or activity employed within a dimension of the information environment that can be used to create effects and operationally desirable conditions.”
- Examples:
 - Electronic Warfare
 - Cyberspace Operations
 - Physical Targeting
 - Operations Security
 - Military Deception
 - Psychological Operations
 - Key Leadership Engagement
 - (and many others)



Source: Joint Publication 3-13, *Information Operations*, 27 November 2012 (update 2014)

The Information Environment



Source: Joint Publication 3-13, *Information Operations*, 27 November 2012 (update 2014)

The Evolving Strategic Environment

Force in the International System



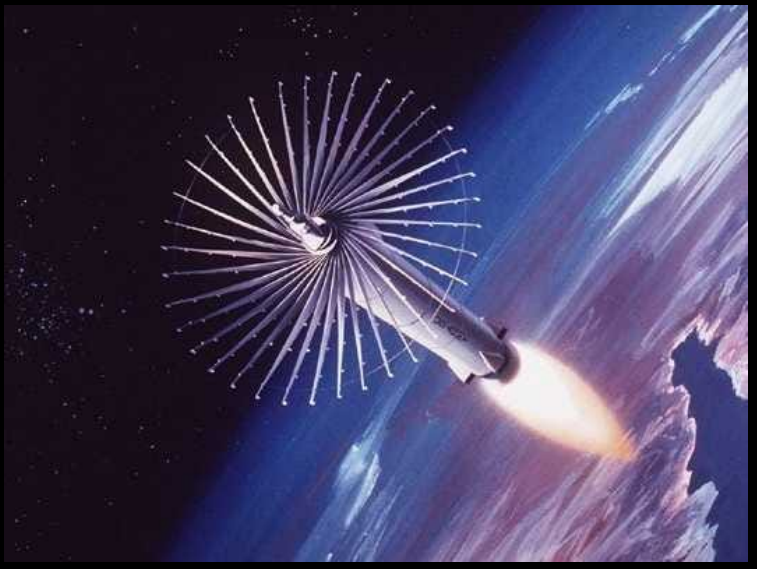
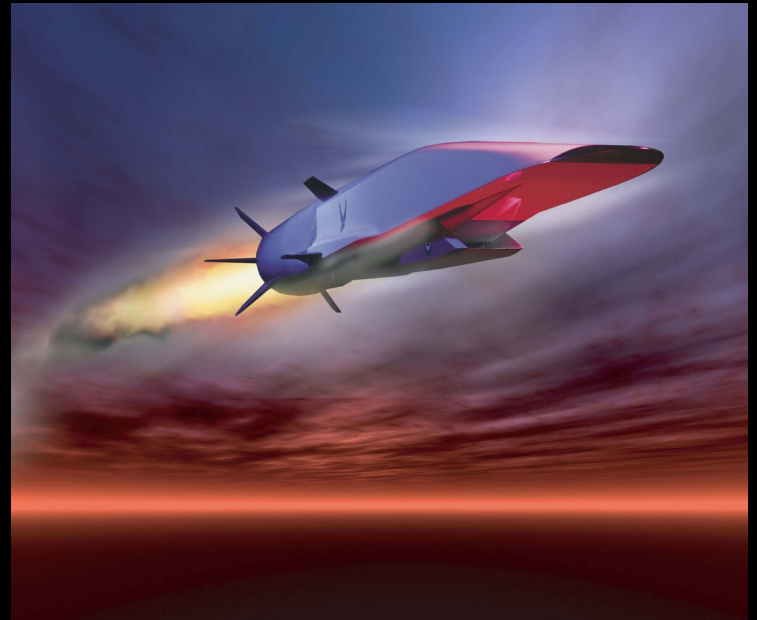
Climate Change



Urbanisation and Demographic Change

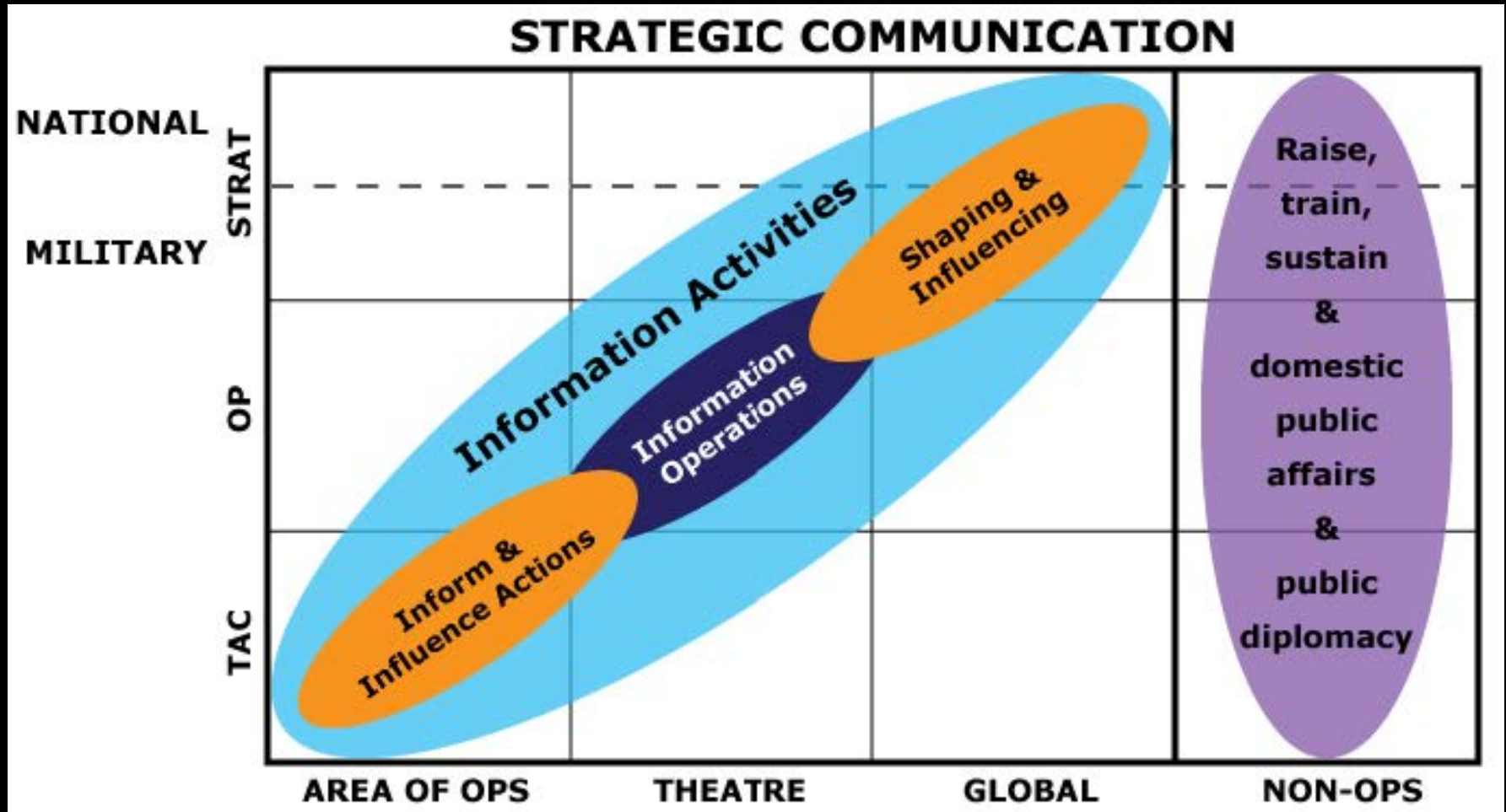


Disruptive Technologies



Australia's Current Approach to Information Operations

Joint Approach



Source: Australian Defence Doctrine Publication 3-13, *Information Activities*, 6 November 2013

Joint Arrangements and Capabilities

- Strategic
 - Military Strategic Planning Division (plans)
 - Military Strategic Commitments Division (operations)
 - Information Warfare Division (capability manager)
 - Chief Information Officer Group (network operations)
- Operational
 - HQ Joint Operations Command
- Tactical
 - Joint Task Force Headquarters
 - Assigned Service capabilities



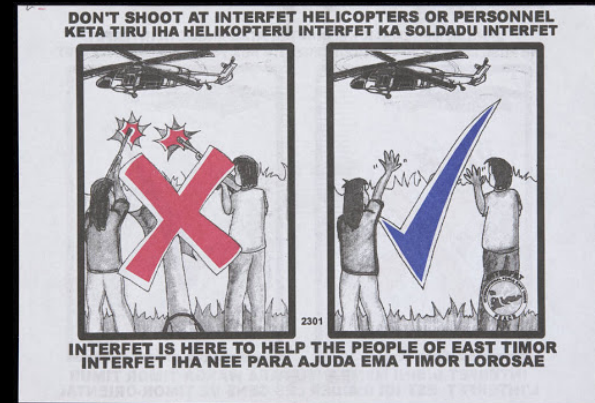
Royal Australian Navy Capabilities

- Key platforms and fittings
 - Hobart Class Destroyers
 - ANZAC Class Frigates
 - Hunter Class Frigates
 - Nulka decoy system
- Royal Australian Navy Information Warfare Force
 - Structure incorporating a range of information-related capabilities
- Royal Australian Navy Tactical Electronic Warfare Support Squadron
 - Embarked specialist electronic support teams
- General operations contribute to 'showing the flag'



Australian Army Capabilities

- 6 Combat Support Brigade
 - 1st Intelligence Battalion (Psychological Operations)
 - 7 Signals Regiment (Electronic Warfare; defensive cyber operations)
- Civil Affairs Staffs
- Force Protection Electronic Countermeasures
- Presence-Posture-Profile aspect of land operations



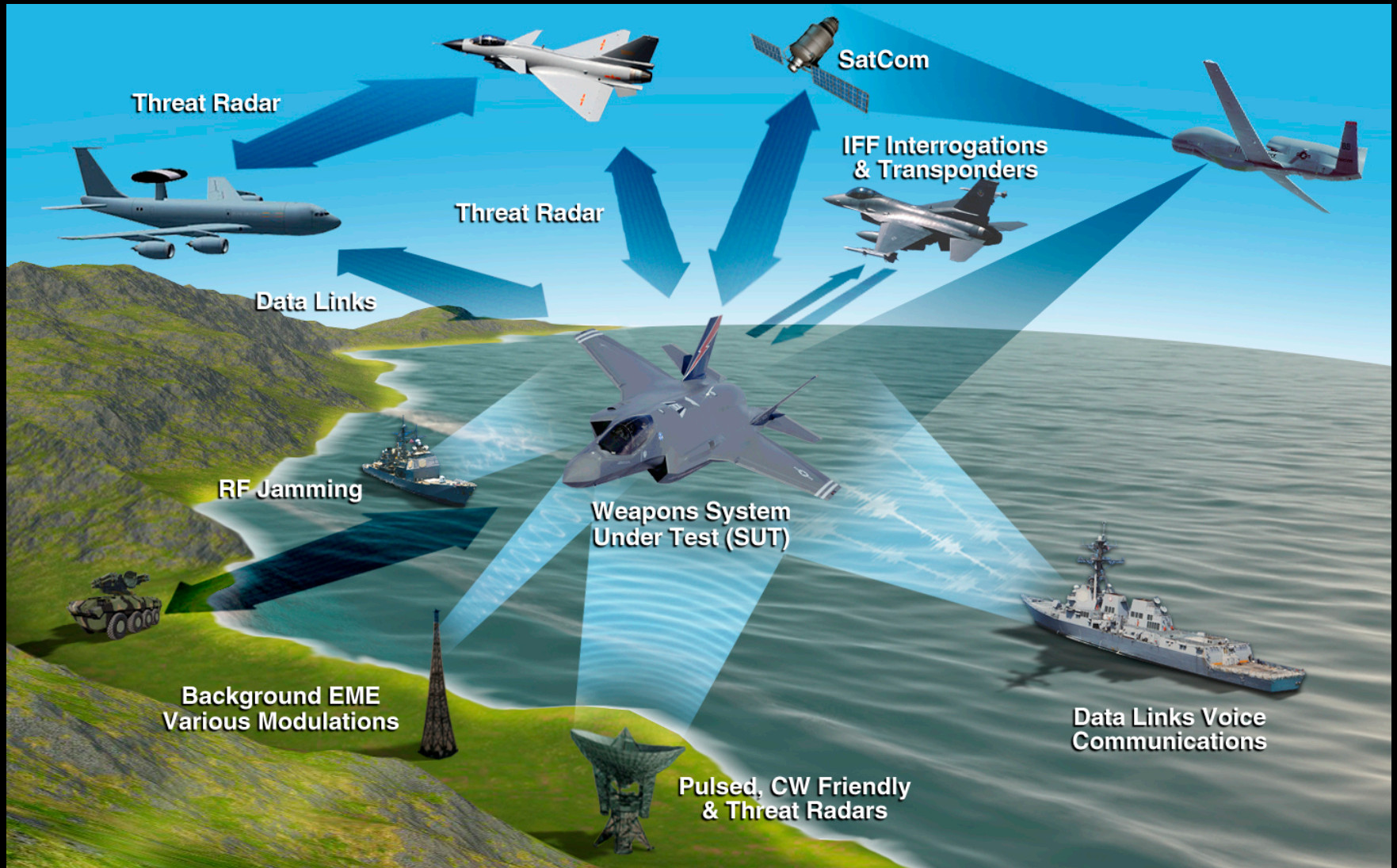
Royal Australian Air Force Capabilities

- Key platforms
 - EA-18G Growler
 - MC-55A Peregrine
 - E-7A Wedgetail
 - P-8A Poseidon
 - MQ-4C Triton
 - F-35A Lightning II
- Air Warfare Centre (Directorate of Information Warfare)
 - Joint Electronic Warfare Support Unit (countermeasures)
 - 462 Squadron (defensive cyber operations)



Emerging Issues and Challenges

Joint Electromagnetic Spectrum Operations



Integrating Cyber Operations



Artificial Intelligence and Machine Learning



National Level Challenges



Conclusion

Summary

- Australia's approach to Information Operations is in a state of evolution
- The emerging global security environment will provide new opportunities for the conduct of Information Operations
- A range of challenges exist for conducting Information Operations effectively into the future
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Questions?