



Australian Government
Department of Defence



Australian Civil-Military Collaboration

Mr Andrew Waye, Airservices Australia

Wing Commander Andrew Gilbert, Royal Australian Air Force

Civil-Military Cooperation Seminar / Workshop

28 February – 1 March 2012

Bangkok, Thailand



Presentation Overview

- History of ATM in Australia
- Australian government aviation policy
- Collaboration and governance
- Envisaged benefits of ATM harmonisation
- Recent key achievements



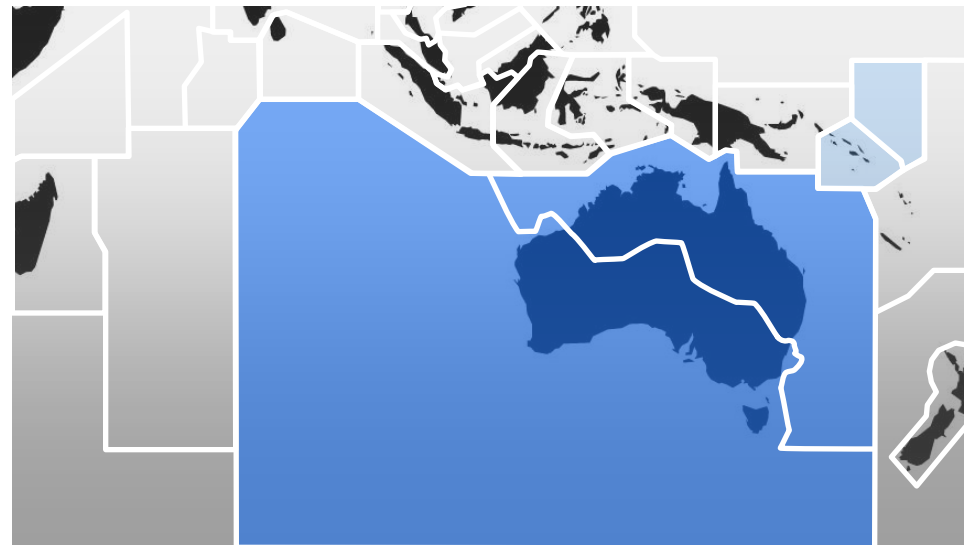
Australian Timeline

- 1920 Civil Aviation Branch formed as part of Department of Defence
- 1938 Department of Civil Aviation was formed
- 1980s Development of the (joint) Manual of Air Traffic Services
- 1988 Department of Civil Aviation splits into Civil Aviation Authority and the Federal Airports Corporation
- 1990s Separate procurement of new ATM systems
- 1995 Civil Aviation Authority splits into Civil Aviation Safety Authority and Airservices Australia
- 2008 Establishment of joint ATM facility at Perth
- 2012 Current ATM systems approaching end of life



Current ATM Systems

- Airspace organised around rigid airspace jurisdictions
- Airservices provides ATC services in Australian airspace
- Defence provides ATC services at Defence/joint airfields, restricted airspace
- Largely independent military and civilian systems
- Separate regulatory systems





Current Airservices ATM System Architecture





Current Defence ATM System Architecture





Current Defence ATM System Architecture





Defence Joint Battlefield Airspace Controller (JBAC)

In addition to regular ATC:

- Control in contested environments
- Contribution to air – surface integration
- Airspace to support joint fires and effects
- Utility in response to humanitarian disasters





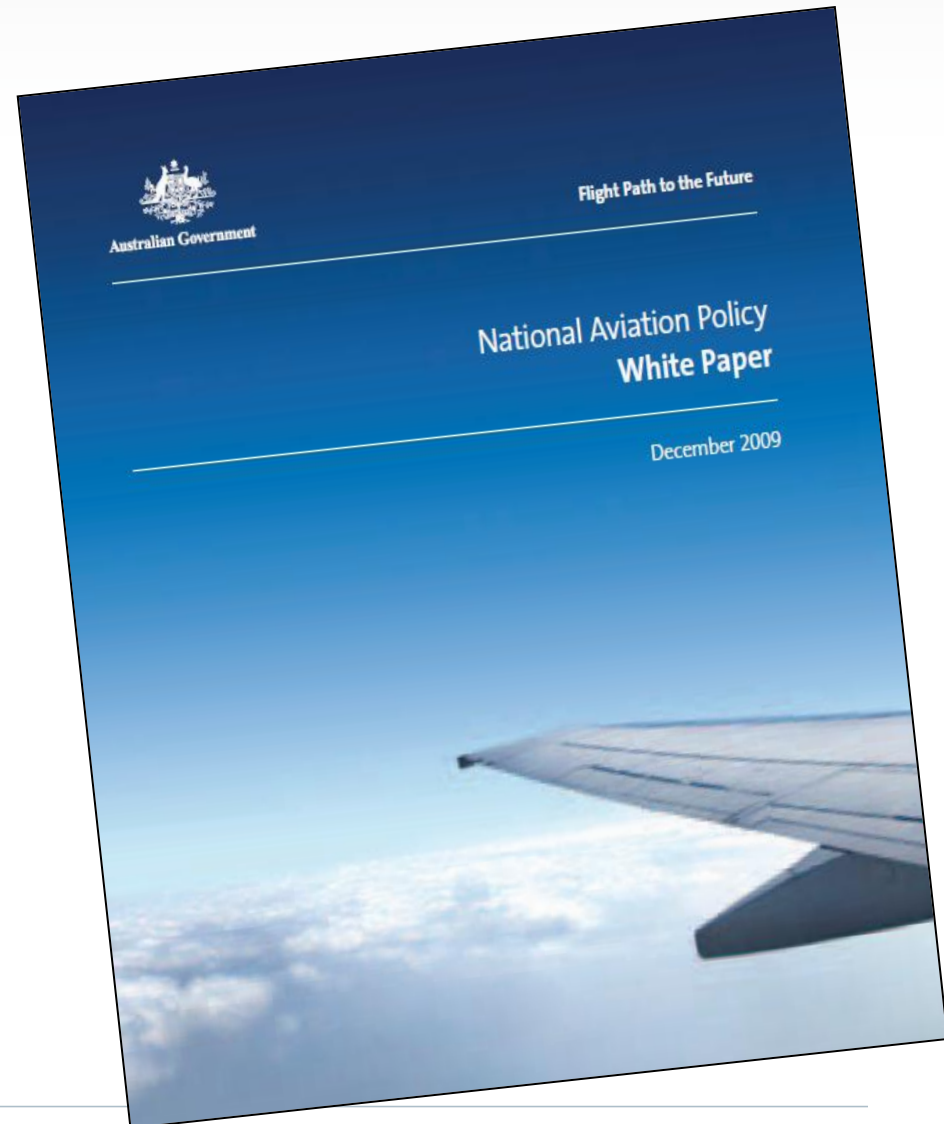
Strategic Policy

2009 National Aviation Policy White Paper

- “Developing and implementing a national, harmonised civil-military ATM system...”

2009 Defence White Paper

- Situational awareness of Australia’s airspace
- Improve military ATM





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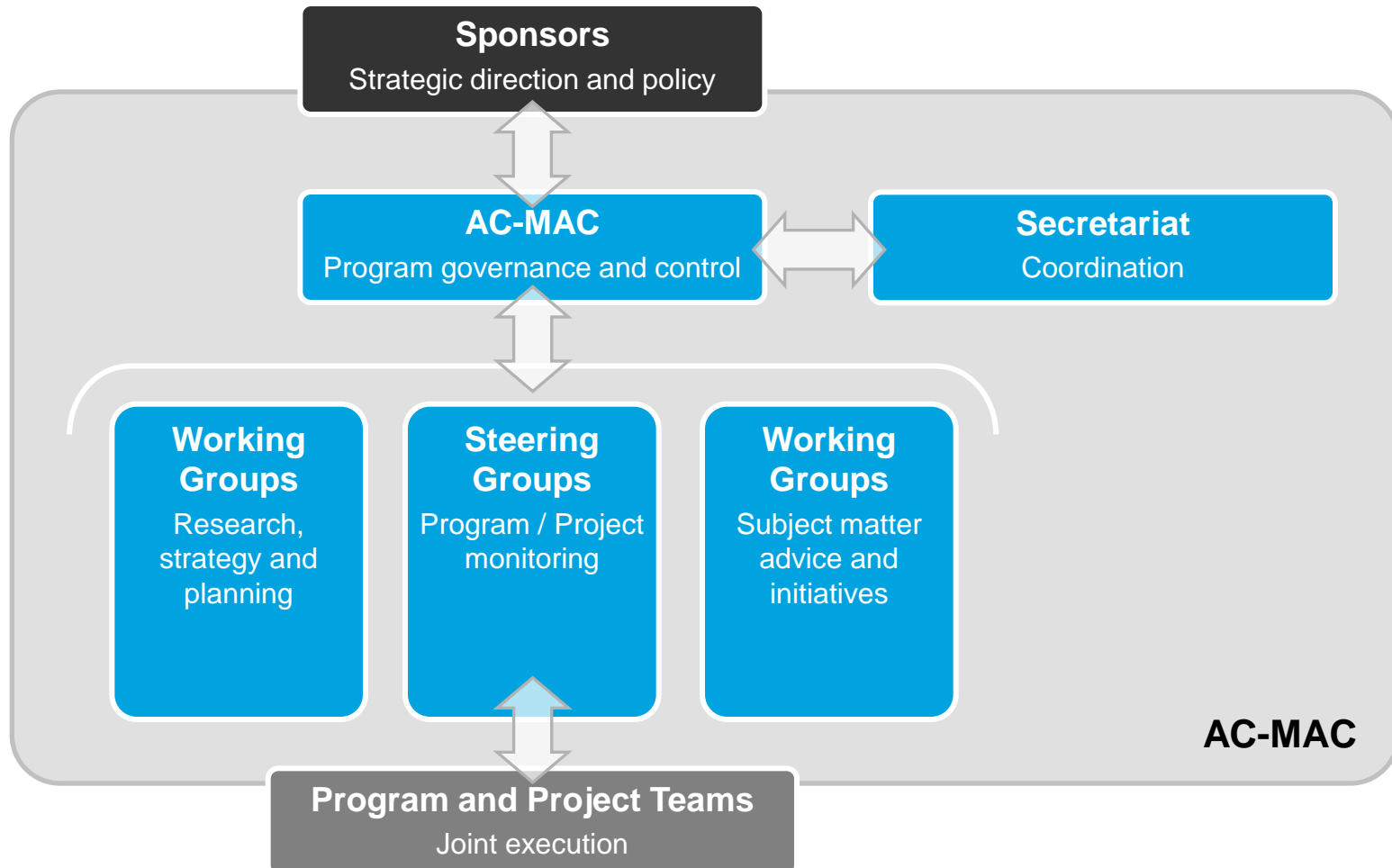
2009 Defence White Paper

- Situational awareness of Australia’s airspace
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AC-MAC Governance: A Collaborative Approach





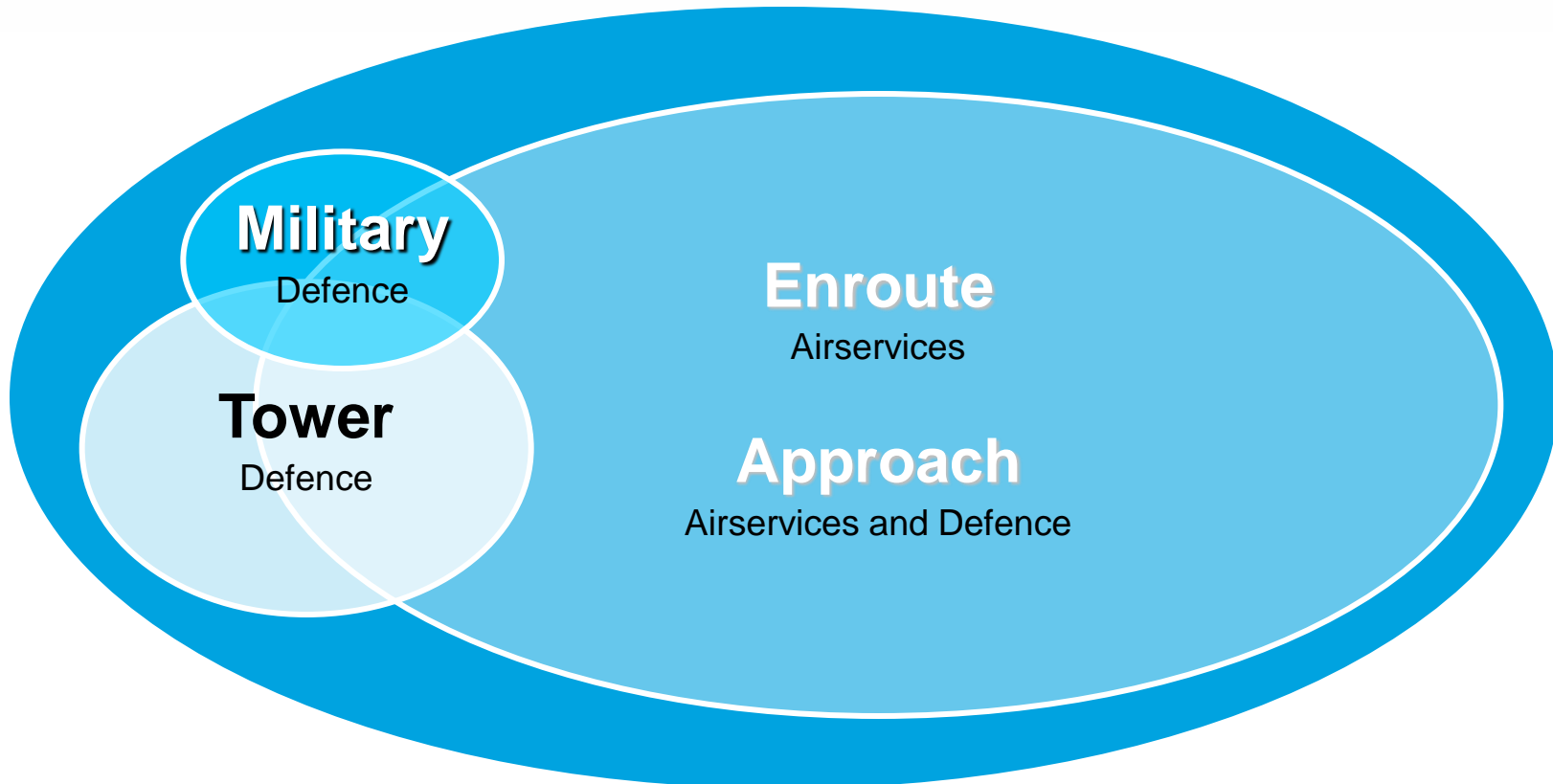
Joint Vision

“A national air traffic management system delivering the safety, security, efficiency and adaptability required to meet future civil and military demands.”

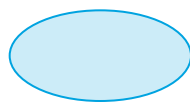
A key enabler of this vision is the Joint Program, in particular, the core ATM automation system



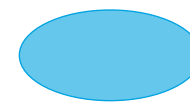
Joint Program Scope



Military performed using ATM, Tower and/or Military systems



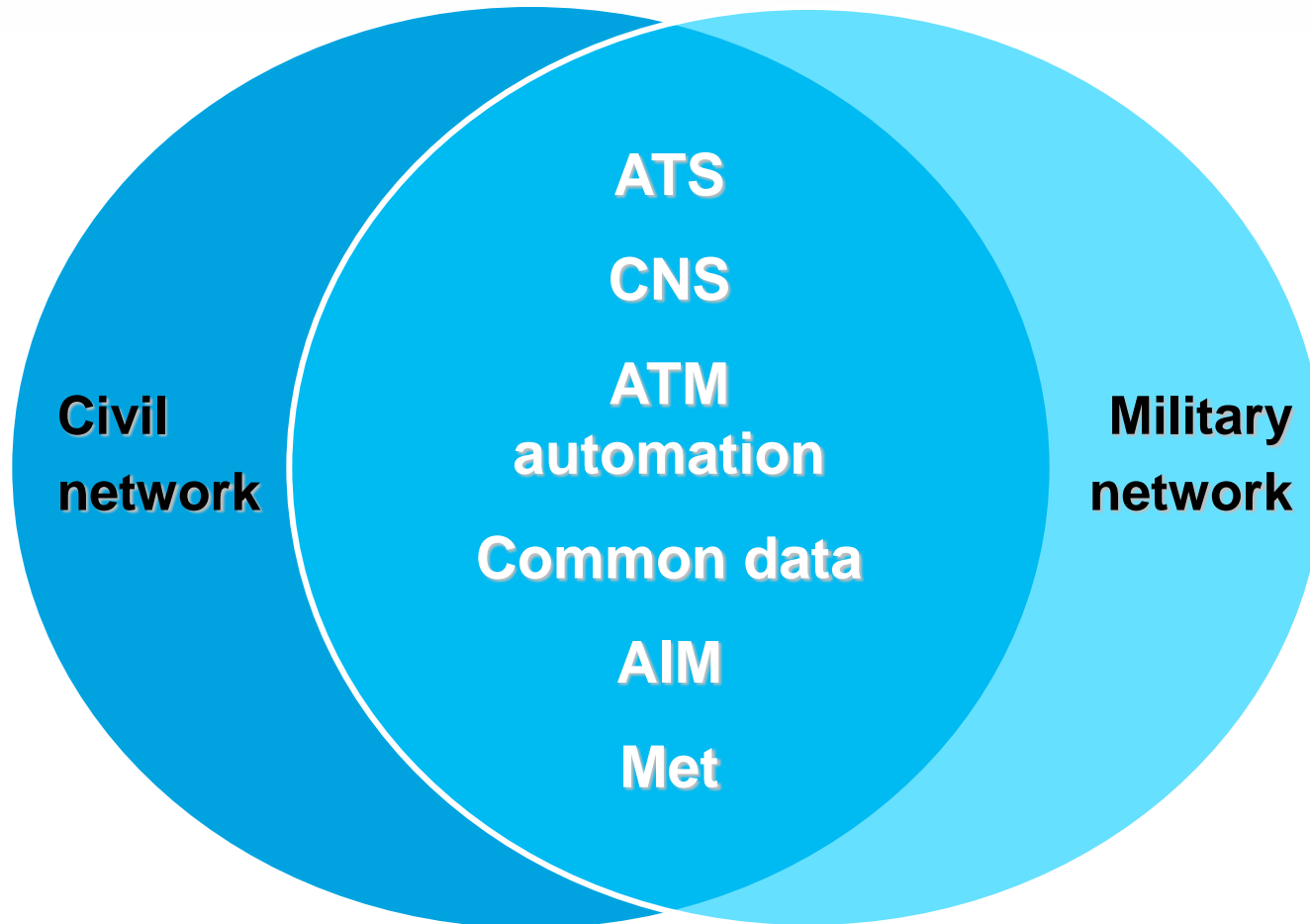
Tower performed using ATM and Tower systems



Enroute and Approach performed using ATM system



Harmonisation Focus





“Broad View” of Harmonisation

- Not just ATM equipment harmonisation
- Harmonisation benefits realisation needs a strategic and whole-of-capability approach:
 - Systems
 - Operations
 - Procedures
 - Safety
 - Commercial
 - Training
 - Development
 - Regulation
 - Support
 - Industry cost recovery



Benefits of Harmonisation

Needs

- Address ageing hardware / software
- Responsiveness to change
- Remove system design limitations
- Accommodate projected air traffic growth
- Contingency management
- Shared awareness

Opportunities

- Seamless interfacing
- Continue to improve safety and efficiency
- Define future requirements
- Flexible management of airspace
- New national system architecture
- Cooperative relationship based on mutual support

Benefits

- Positive effect on safety
- Efficiencies in through-life support and workforce training
- Increased capability for future airspace demands, enabling contingency operations
- Improved national security



Recent Harmonisation Key Achievements

- 2010
 - Release of Request for Information (RFI)
 - Future Leaders initiative agreed
 - Memoranda of Understanding agreed
 - Joint Work Program agreed
- 2011
 - Terms of Reference for Working Groups agreed
 - Lead Regulator Implementation Procedure agreed
 - Joint Program Team established
 - ATC Surge Training Agreement
 - Updated Joint Operational Concept Document
 - Updated AC-MAC Charter
 - Data Sharing Agreement
 - Release of draft specification for industry comment



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Questions and Answers

Mr Andrew Waye, Airservices Australia

Wing Commander Andrew Gilbert, Royal Australian Air Force