MODERNISING AT SCALE: DELIVERING AUSTRALIA'S NEXT-GENERATION AIR TRAFFIC MANAGEMENT SYSTEM
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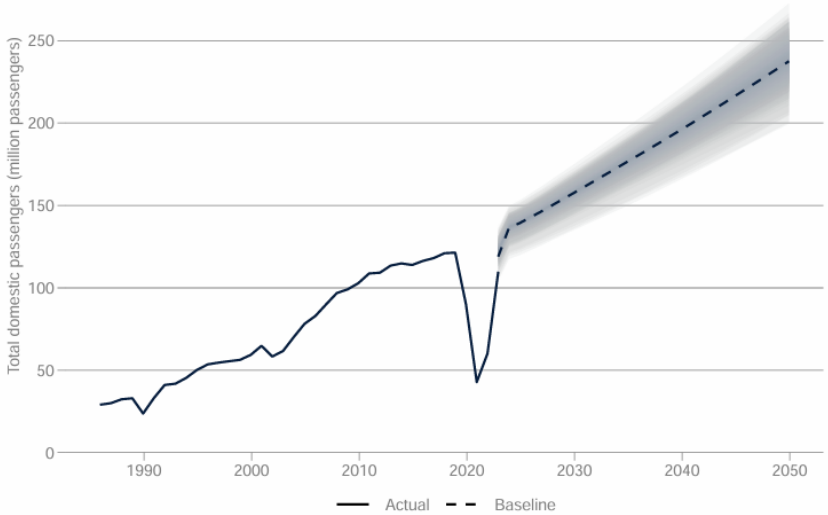




Australian Aviation is becoming more complex

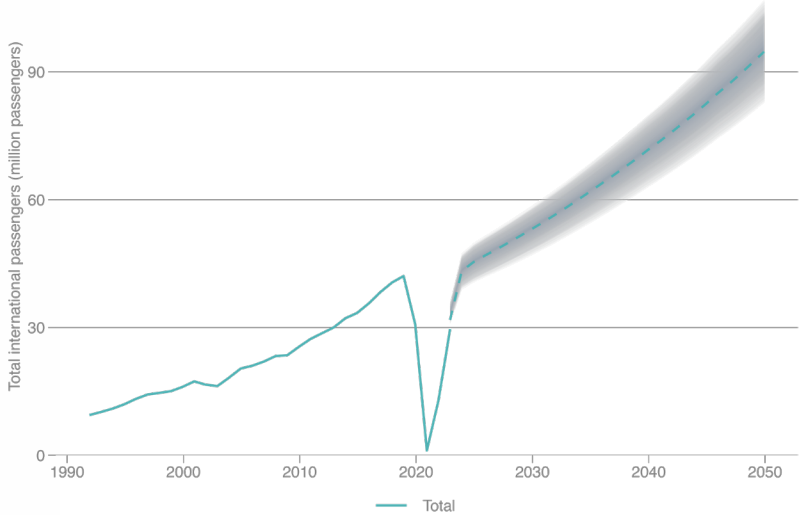
Passenger volumes forecast to double by 2050

Figure 6.2 Actual and forecast domestic air passengers (UD-basis), 1985–2050



Note: The shaded area shows the 95 per cent forecast prediction interval.
Sources: BITRE (2023c) and BITRE estimates.

Figure 6.6 Actual and forecast total international passengers, 1992–2050



Note: Shaded areas show the 95 per cent forecast prediction interval.
Sources: BITRE (2023e) and BITRE estimates.

OneSKY

A common platform for civil and military airspace

Route Optimisation



Airspace users can fly preferred routes to suit their needs and use dynamic reroute procedures.

Trajectory Based Operations



Airspace users will be further supported by continuous descent operations during the arrival phase, enabling opportunity to decrease noise, save fuel and reduce carbon emissions.

Shared Use of Airspace



Providing greater access for all users to available airspace. This enables optimal use of airspace, allowing for better fuel planning, preferred routes and optimal flight levels.

Business Continuity



Uninterrupted service provision for all portions of the Australian airspace, improving resilience for unplanned events and optimising use of resources.

Productivity



Optimisation of our resource utilisation to ensure a sustainable workload. Achieved through improved decision support tools and dynamically redesigned airspace.

Western Sydney Airport

Digital Aerodrome Service

Proven technology already in use at international airports around the world

WSIA is now operational – with Canberra upcoming

Redundancy is key with 25 cameras on the mast sending a live feed via a secure network to the control centre.

Cameras provide object tracking, infrared enhances night and low visibility capability



Flight Information Management System (FIMS)

Preparing for the future of aviation

Near-instant approvals for faster authorisations in more airspace

Critical, reliable, and timely airspace information.

Better airspace awareness enabling strategic flight planning & coordination, across Australia.

Digital and automated, improving efficiency.



Australia’s role as regional leader

Promoting ATM Modernisation and Interoperability Across Flight Information Regions



Asia-Pacific ANSPs

Other International ANSPs

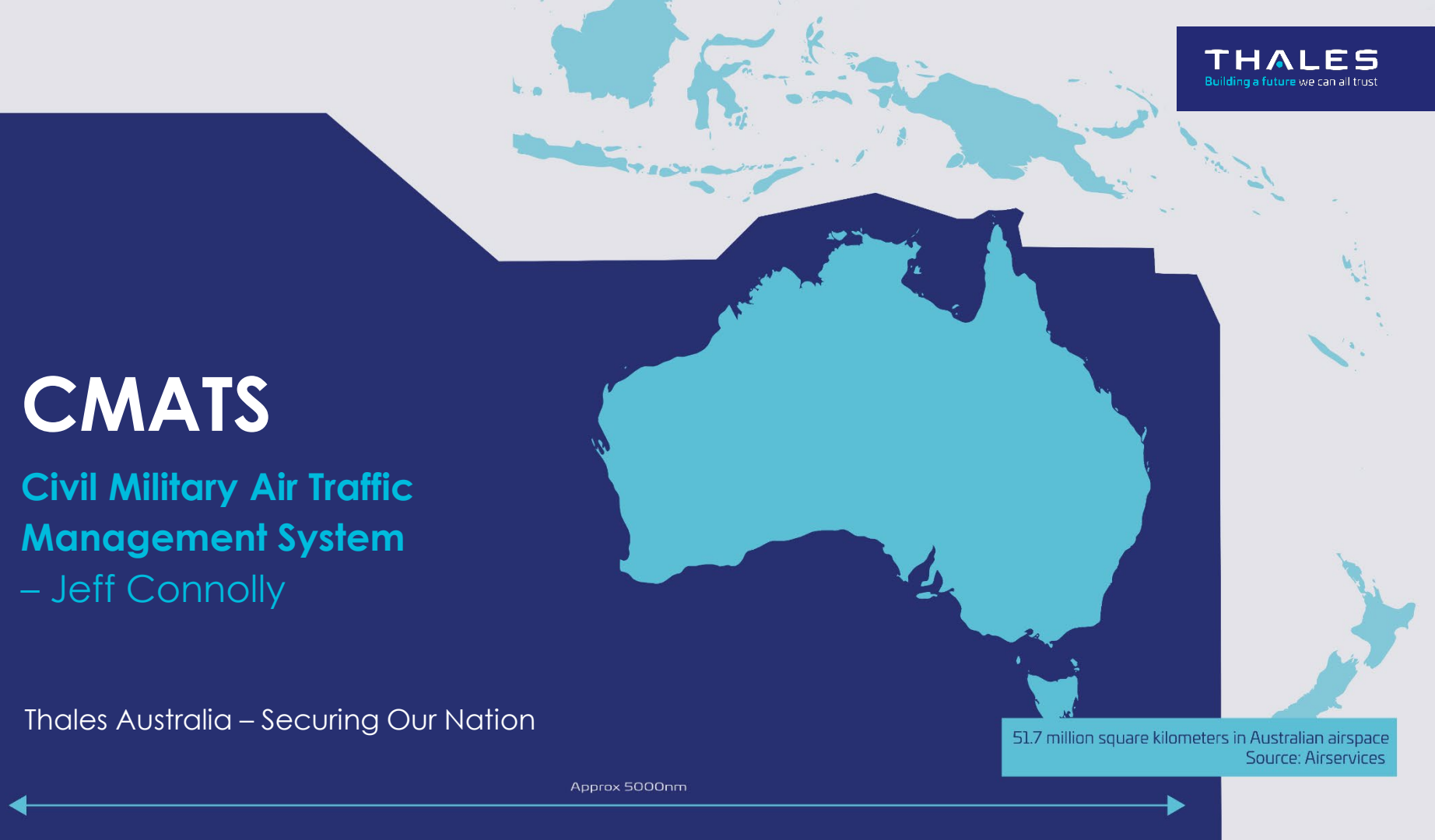
THALES
Building a future we can all trust

CMATS

Civil Military Air Traffic Management System

– Jeff Connolly

Thales Australia – Securing Our Nation



OVERVIEW

Civil Military Air Traffic Management System (CMATS)

Current Challenges:









What is CMATS?

Digital & Collaboration

The next-generation and global – leading digital system supplied by Thales to support the OneSKY collaboration with Airservices Australia and ADF.

Real Time Data

Cutting-edge digital technologies and real-time data exchange capabilities – enabled by more than 500 engineers working on the system since 2019. The data empowers air traffic controllers.

Seamless Coordination of All Airspace

Aims to deliver seamless, secure coordination across the country's vast airspace – enhancing efficiency, safety, and national security.

Sovereign, adaptable and future proof

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CMATS KEY FACTS

CMATS:
Safe and Secure Skies

Efficiency of control to support air traffic controllers

Air traffic control at any point from any location at any time



Civil and Military common systems, common safety

Built-in future-proof cybersecurity

Sustainability

CMATS: THE THALES AUSTRALIA ROLE

THALES

- **Sovereign**
- **Leading Technology**
- **Cyber capabilities**
- **Local Engineering**
- **Defence Pedigree**

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