



Delivering Improved Outcomes and Services to Industry

34th Airline/ATS safety Forum: Preparing for a safer ATM future
June 2017

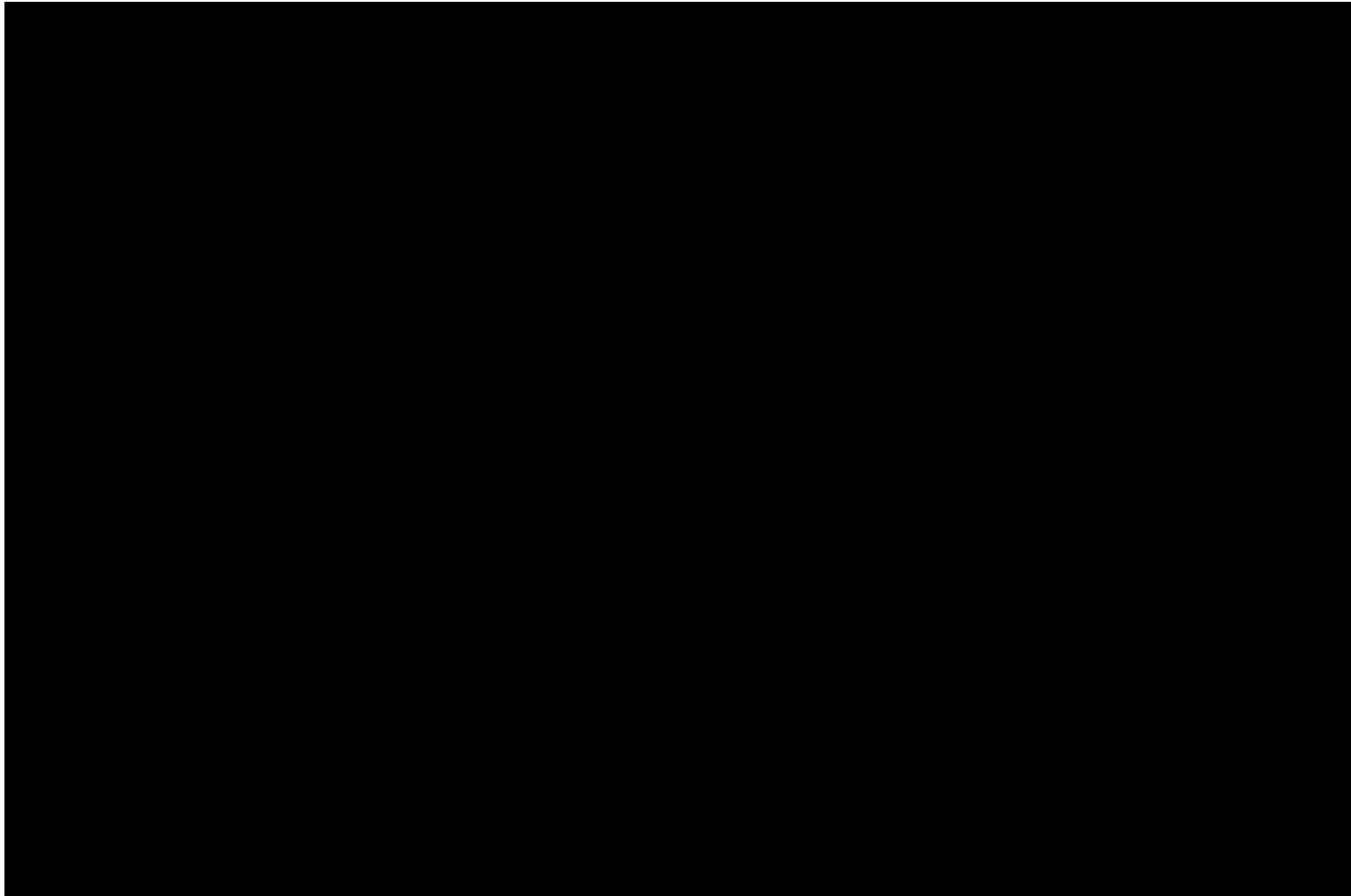
Stephen Angus

Executive General Manager, Air Navigation Services

Our service performance

	2017
Movements per annum	4 million
Number of passengers in 12 months	154 million
Numbers of ARFF safety responses (previous 12m)	7,100+
Predicted growth	2% per annum over next five years

24 hours in Australia's airspace



Safety and OneSKY

- Australian aviation industry needs a system that supports future growth and new technology while achieving safety improvements
- Harmonised civil/military air traffic management system (CMATS)
- Enhanced safety and efficiency tools are required to deliver customer value e.g. conflict detection, continental User Preferred Routes
- Industry must be confident we can deliver successful, value for money enhancements safely
- The system must be capable of continuous evolution, meeting future ATM growth and increasing complexity
- Harmonising data sharing is a critical need for customers
- Customers need to be put in the driving seat through a new concept in enterprise data sharing



OneSKY Program safety value

Route Optimisation

Integration of tools and systems to further optimise routes flown safely

Safety Net Enhancements

Strategic conflict management tools

Single Flight Information Region

Improved national standardisation

Business Resilience

Enhanced business resumption/business continuity

System Adaptability

Controller sector flexibility

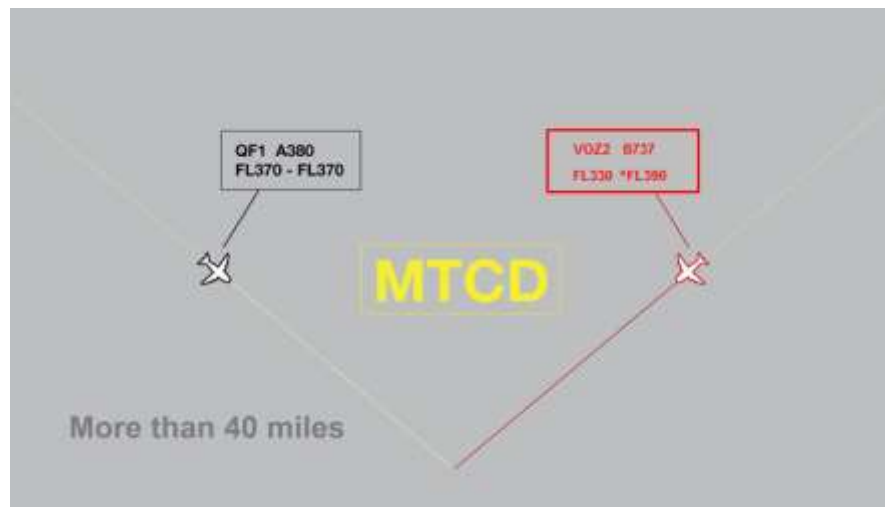
Broader skilled workforce



Enhanced safety detection

CMATS

- Medium-term conflict detection looks ahead, recognises conflict
- Look ahead predictability
- Enhanced safety net





Greater staff opportunities



Flexibility

CMATS

- National rosters
- Flexible ATC endorsements
- Flexible airspace volumes
- Adaptable voice switch
- Short-term and medium-term safety detection





Service resilience



Business Continuity

CMATS

- Dynamic reorganisation of ATC sectors
- Seamless service transfer between centres
- Technology led service resumption
- Business resumption in minutes
- Operational confidence and resilience
- Highly flexible ATC-Pilot-ATC communication technology
- Harmonised with military

Nats: computer failure behind London airport chaos was unprecedented

British airspace controller says inability of operators to see all flight plan data prompted restrictions on departures and landings

50 aircraft above New Zealand during outage



Software upgrade grounds hundreds of flights over US east coast

FAA says 'technical issues' with an air traffic control computer undergoing a software update caused 492 flight delays and 476 cancellations over weekend



Big financial and
environmental savings



Flexible Use of Airspace

CMATS

- Harmonised civil and military ATM system
- Prior to departure – predictability
- Reduced fuel
- Reduced emissions
- Reduced track miles





Other safety features include...

Wake turbulence alert

Conflict detection with
special use airspace

Workload management tools

Enhanced conflict detection

Surveillance integration display

Integrated display for
weather and aeronautical information

Service continuity

Seamless upgrade

Enhanced resilience

ATC sector flexibility