



# Aviation Meteorological Services Transformation

OCTOBER 2018



Enhancing the safety and economy of aviation operations every day through world-class meteorological services and insight

## OVERVIEW

The Bureau of Meteorology (Bureau) is progressing a three-year programme to transition the majority of aviation forecast production into two Aviation Forecasting Centres, with support and funding from the aviation industry. These centres will be in Brisbane and Melbourne and are scheduled to deliver most aviation services across Australia by June 2020.

Meteorological forecasting for aviation is changing rapidly, driven by advances in weather observations, forecasting science and systems. At the same time improvements in mobile computing and having aircraft systems connected to the internet mean that more meteorological information can be made available in cockpits in real-time. To take advantage of these new capabilities the International Civil Aviation Organization (ICAO) has defined a future services roadmap that the Bureau intends to provide across Australia.

In 2017 we determined that changing how aviation services are delivered was essential for the Bureau to keep pace with the ICAO service roadmap and continue to provide Australian aviation with world-class services. The future service model is based on establishing specialised teams of aviation meteorologists, who focus on forecasting for aviation every day. These specialists will develop deeper understanding of how aviation operations are affected by the weather, enabling the Bureau to continually improve the quality of aviation services throughout Australia. The operating model was developed with advice from our staff, stakeholders, international aviation experts and representatives of the aviation industry.

## OBJECTIVES

1. To enhance operational effectiveness and flexibility by implementing a national aviation meteorological service with dedicated aviation forecasting teams.
2. To enable aviation specialists to spend more time with our customers and thus develop an even greater appreciation of how weather impacts aviation operations.
3. To more rapidly employ advances in technology and meteorological science that deliver value to aviation operations.
4. To develop and deliver enhanced digital and graphical aviation services in line with the International Civil Aviation Organization (ICAO) global air navigation plan and provide additional services tailored to the Australian regulatory and operating environment.
5. To ensure continuous improvement by routinely measuring performance using industry endorsed indicators.

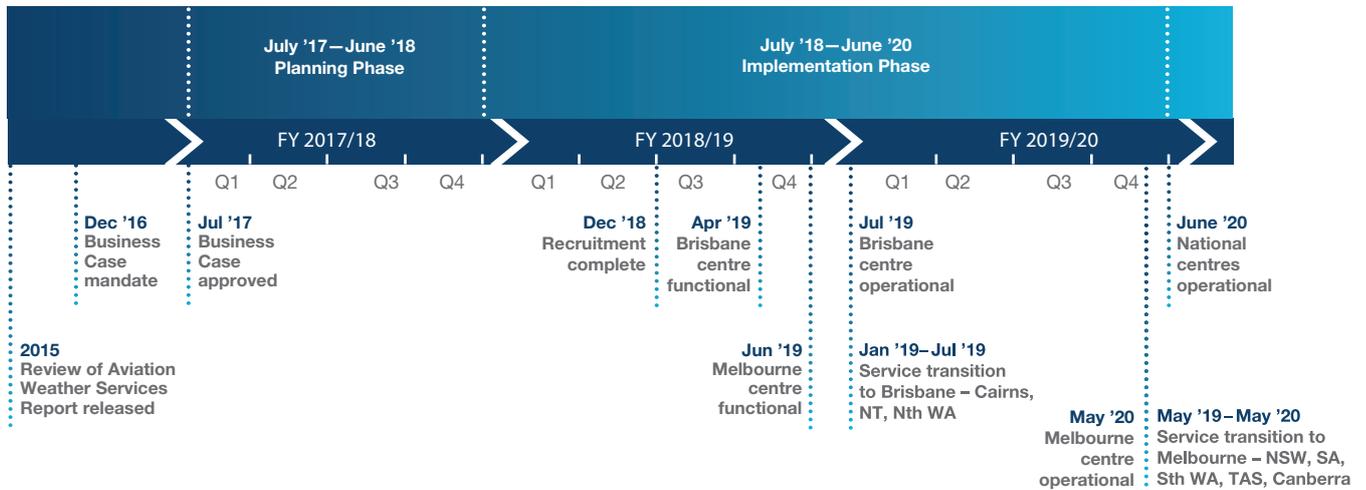


## BENEFITS

The proposed changes and overarching benefits for the aviation industry are summarised below, focusing on improved quality, responsiveness, resilience and flexibility.



## TIMELINE AND MILESTONES



## KEY ACTIVITIES AND MILESTONES

### FY 2017/18

- Complete Implementation Plan and future operations design.
- Obtain staff intentions via survey and complete Recruitment Strategy.
- Complete design and commence development of enhanced forecasting and training systems.

### FY 2018/19

- Complete fit-out of Brisbane and Melbourne centres, including installation of new servers.
- Complete staff relocation to Brisbane with associated training and operational transitions.
- Delivery of Knowledge Repository and simulation environment, alerting and internal collaboration tools.
- Completion of aviation management and forecaster staff recruitment.

### FY 2019/20

- Complete staff relocation to Melbourne with associated training and operational transitions.
- Delivery of integrated workload management, external collaboration, climatology and final weather watch and decision support tools.
- Complete integration of national operations including business continuity testing.





Information on Aviation Meteorological Services Transformation is available on the Bureau of Meteorology’s website at [www.bom.gov.au/aviation/aviation-transformation](http://www.bom.gov.au/aviation/aviation-transformation)

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