CANSO Global ATM Operations Conference

MADRID | SPAIN | 8-9 MARCH

Stephen Angus

Executive General Manager
Air Navigation Services

Airservices Australia

Question

How will future aircraft technology affect and drive Air Traffic Management ground technology and procedures?

Answer

Aircraft Technology is driving Air Traffic Management into space

In Australia, this is the journey we are undertaking

Current Infrastructure

Australia is a leader in ground-based ADS-B

Broad coverage = optimised routing and reduced separation

Ground-based ADS-B is becoming a legacy system in Australia

Airservices enhances regional aviation by expansion of our ADS-B network

Our ATM Strategy

Move from ground-based infrastructure to space based technology

Focussing on future proofing services to enable satellite and space-based technology

Our future sees limited radar in our network within 10 years

The rapid rate of technological advancement, means Airservices is already looking at service enhancements to our operating environment through future airspace management.

Airservices 5 Year Air Traffic Management Plan

Aerodrome Services

The rise of digital aerodrome services

Information Services

From infrastructure to information

Airspace Services

Unshackling long haul flights and short haul on-time performance

Future Customer Centric Service Enhancements

Focus on New Technology

- National backup network of navaids is half the size that it was 5 years ago
- Will half again in 5 years

Customer-Centric Focus

- Route flexibility
- Network collaborations

Transition from Terrestrial Systems

- Enroute surveillance infrastructure via satellite ADS-B capability
- Oceanic surveillance enabling long haul flights to be integrated with the domestic traffic flow
- User Preferred Routes available all the way into terminal areas
- Dynamic Airborne Reroute Procedures used by long haul airlines as a route optimisation tool

It must be understood that it cannot be business as usual. ANSPs have to remain relevant.

If airspace becomes the bottleneck in the aviation ecosystem, then that problem will get solved – but not by us.

Think of Apple, Uber, Google and many others. They will disrupt through business models and technology.

Aircraft will not be the only airspace users to manage in the future. Think of Airbus and Boeing. They want to sell more aircraft. If congested skies mean they cannot sell, they will work to decongest the skies.

ANSPs provide a service. If that service falls short or does not represent value, then our customers will look elsewhere.

But that also makes it a very exciting time. There are so many opportunities ahead. The mindset must change, however, if we are to be masters of our own destiny.

Jason Harfield, CEO, Airservices Australia

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