

## Runway Incursions at Metro D Aerodromes

Runway safety risk remains one of the most serious threats to aviation safety.



A runway incursion is an "occurrence at an aerodrome involving the incorrect presence of an aircraft, vehicle or person on the protected area of a surface designated for the landing and take-off of aircraft."

International Civil Aviation Organization (2007).  
Manual on the Prevention of Runway Incursions

On average, approximately 12 pilot-attributed RIs occur in Australia every month, with potential to result in fatal collisions between aircraft and aircraft and vehicles.

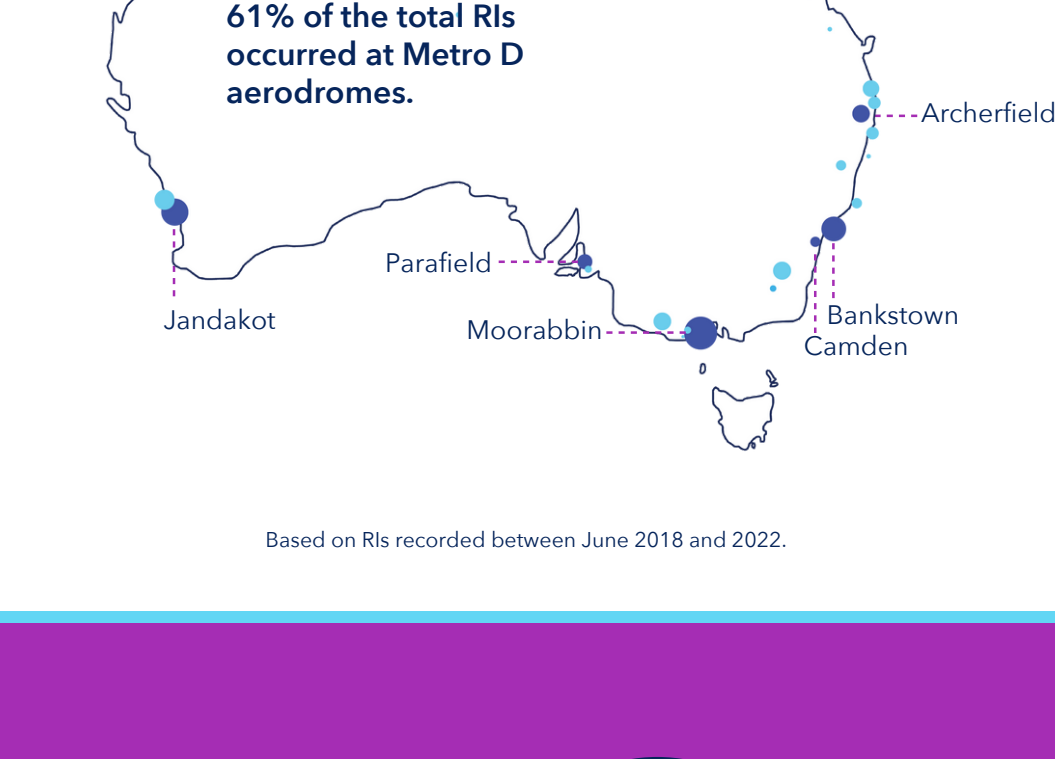
# 570

RIs recorded that were attributed to pilots between June 2018 and 2022 and had ICAO severity ratings of

B 2.8%  
C 25.3%  
D 71.4%  
E 0.5%

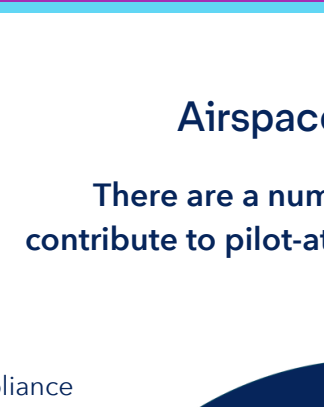
■ Major occurrence ■ Minor occurrence ■ No immediate safety consequences ■ Insufficient information

Metro D aerodromes currently account for the highest number of pilot-attributed runway incursion locations.

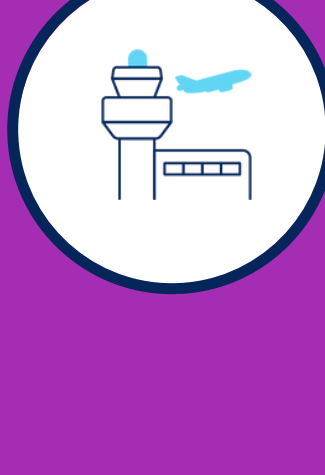


Based on RIs recorded between June 2018 and 2022.

Contributory factors of Metro D aerodrome environments to runway incursions



More training and general aviation activities



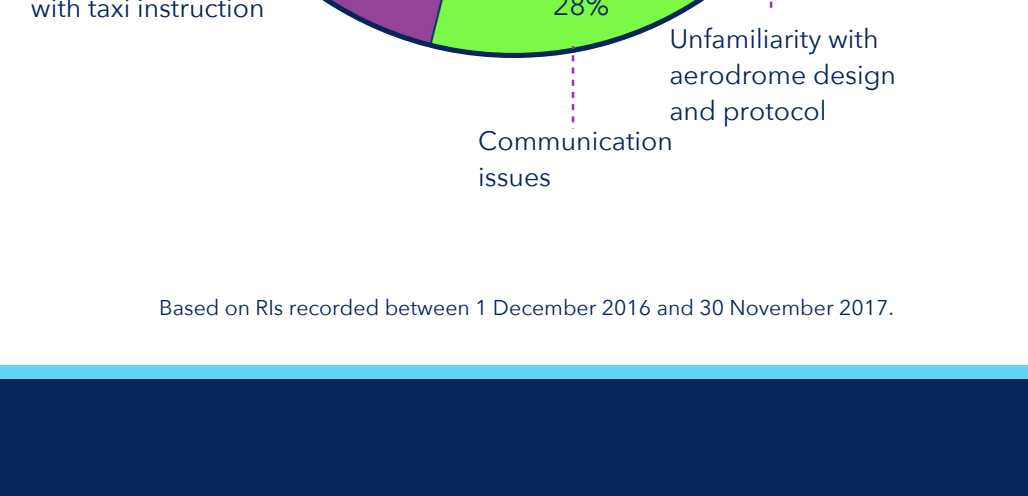
Less system-level precautions



Aerodrome layout

## Airspace and navigation

There are a number of factors that can contribute to pilot-attributed runway incursions



Based on RIs recorded between 1 December 2016 and 30 November 2017.

## Solve potential problems on the ground before you enter the runway

Ensure you have access to current information about local procedures.

Be aware of the kind and frequency of activity in the surrounding airspace.

Familiarise yourself with the kind and frequency of activity at this aerodrome.

Familiarise yourself with the layout of the manoeuvring area.

Be prepared to observe ATC clearances and instructions to support safe and efficient traffic management.

Ensure you understand procedures for the type of runway you are using.

Familiarise yourself with standard radio calls and readbacks so that you can accurately confirm you understand your clearance.

Ensure you know the correct frequency to turn your radio to while operating, your radio is working, and the volume is turned up.

## Resources to support your preparation

Includes information about the volume and kind of activity in the surrounding airspace.

Includes all instrument departure and approach procedures.

Current information about changes to published procedures related to local flight operations.

### AIP

Visual Terminal Charts (VTC)

En Route Supplement Australia (ERSA)

Departure and Approach Procedures (DAP)

AIP Book, GEN 3.4 - para 6

[airservicesaustralia.com/aip](https://airservicesaustralia.com/aip)

### NAIPS

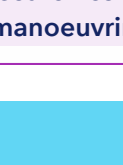
NAIPS (NOTAM, weather, restricted areas status)

[airservicesaustralia.com/naips](https://airservicesaustralia.com/naips)

Includes information about the volume and kind of activity around the aerodrome including pictorial presentations of all licensed aerodromes.

Includes a guide to the standard phraseology for radio use, including those specific to aerodrome movements.

Airservices pilot and airside safety pages



Visit us for more safety-related information on a range of topics including:

- runway safety
- working with ATC
- current and emerging risks

[airservicesaustralia.com/industry-info/pilot-tools/pilot-and-airside-safety](https://airservicesaustralia.com/industry-info/pilot-tools/pilot-and-airside-safety) or

[bit.ly/pilotsafety](https://bit.ly/pilotsafety) for short.

CASA's website

Visit CASA's pilot safety hub for more information, on a range of topics, including:

- All hot spots
- flight planning
- non-controlled aerodromes

[casa.gov.au/resources-and-education/pilot-safety-hub](https://casa.gov.au/resources-and-education/pilot-safety-hub).

CASA's manoeuvring maps that include runway incursion hot spots

[casa.gov.au/search-centre/aerodrome-manoevring-maps](https://casa.gov.au/search-centre/aerodrome-manoevring-maps).