



Royal Flying Doctor Service



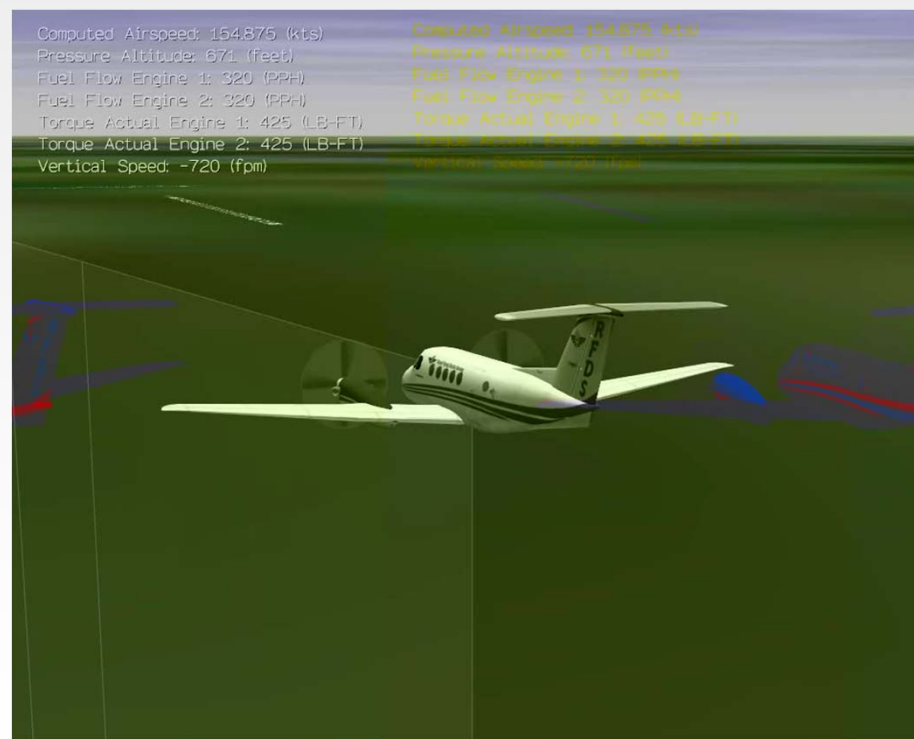
RFDS South Eastern Section

Improving Flight Safety Through a Flight Data Analysis Program

21 August 2015



RFDS SE Flight Data Analysis Program





Legal Requirements of a Flight Data Analysis Program

ICAO Annex 6 outlines the global requirements for the establishment of a Flight Data Analysis Program.

- Mandatory for an aircraft operator with a MTOW of greater than 27,000Kg.
- Recommended operators of aircraft 20 – 27,000 kg.



MTOW >27,000 Kg



MTOW > 20,000 Kg



MTOW > 5,000 Kg



What is flight data and where is it stored?

Flight data is digital information retrieved from a variety of aircraft sensors and is stored onto a medium designed to survive (crashworthy) in the event of an accident.

Non Crash
Protected Device

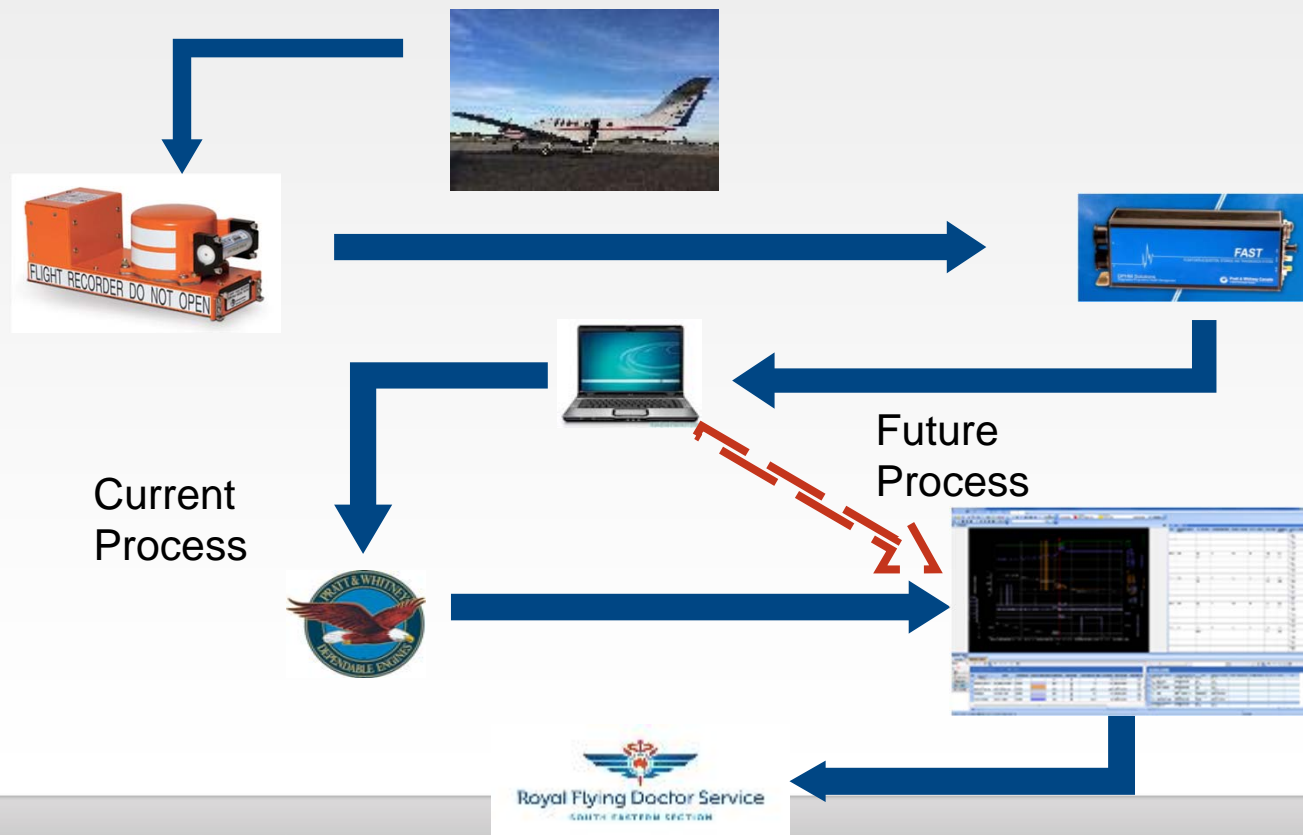


Crash Protected
Device





How do we get our flight data?





What is a Flight Data Analysis Program (FDAP)

Has many names:

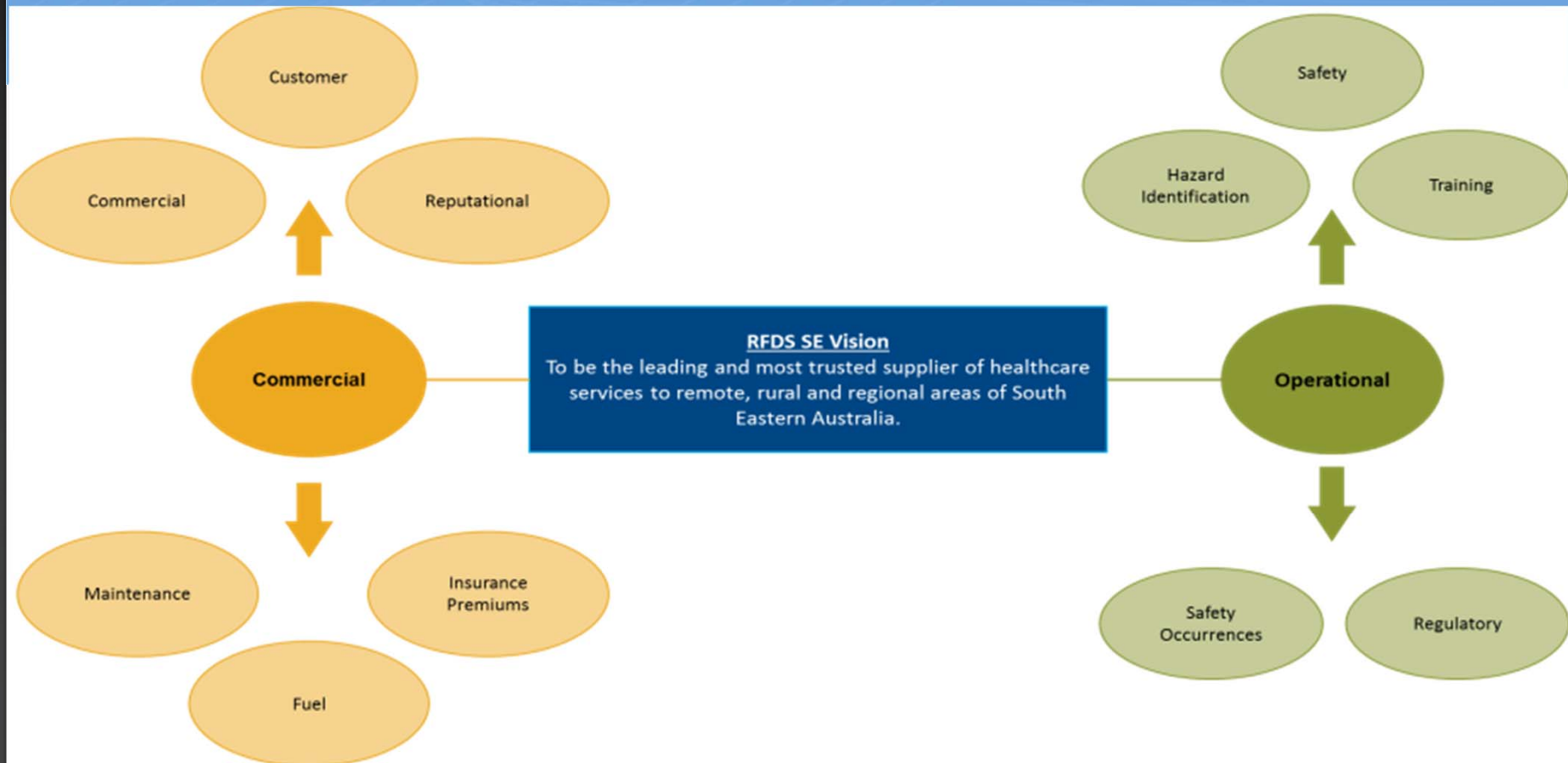
Flight Data Analysis Program (F-DAP or FDAP), Flight Data Monitoring (FDM), Flight Operations Quality Assurance (FOQA).

Definition:

A pro-active and systematic method of accessing and analysis of flight data recorded on routine flights to improve flight crew performance, operating procedures, flight training, ATC procedures and/or aircraft maintenance.

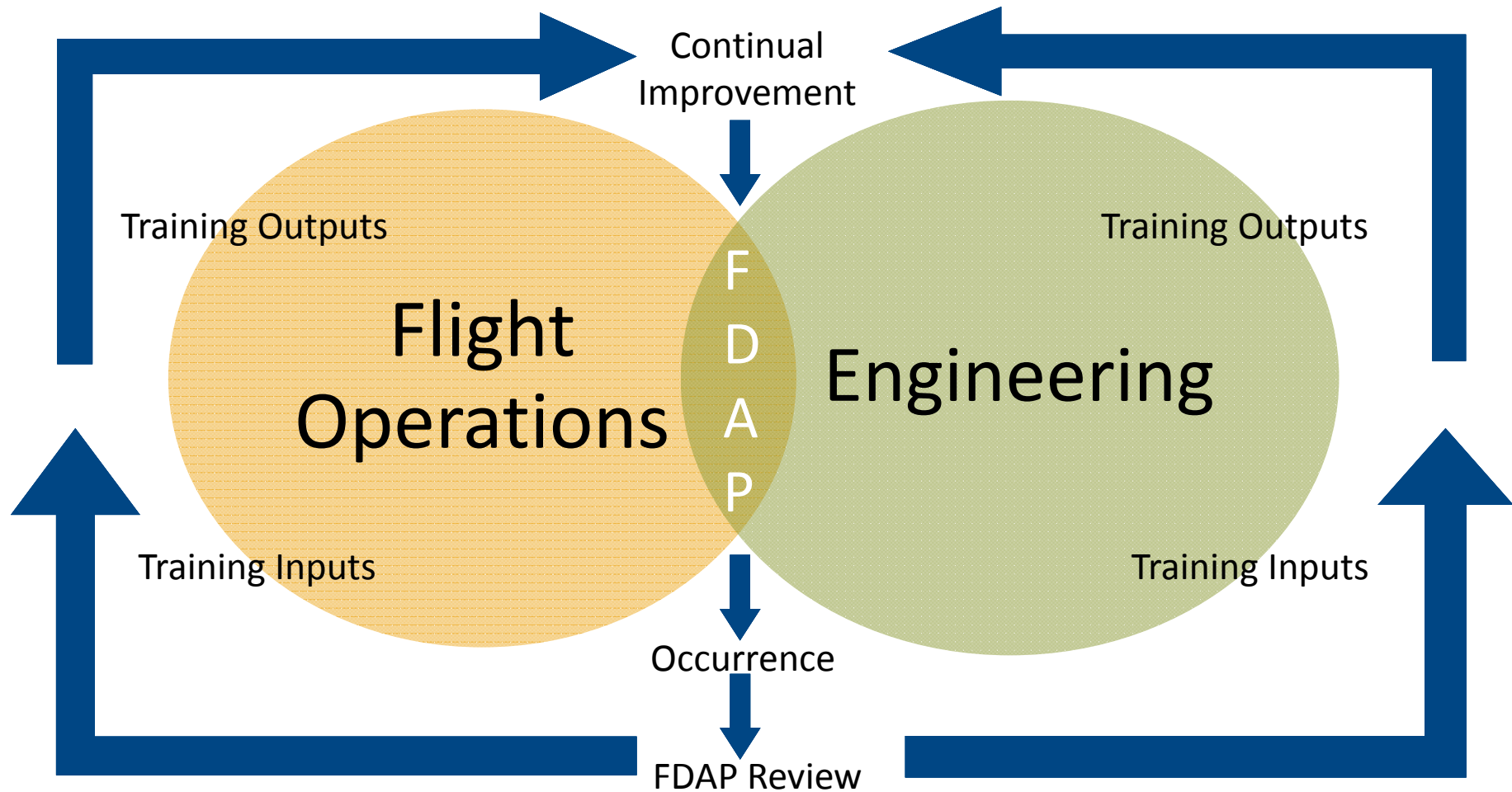


Why?





Continual Improvement





How the RFDS SE got there

- Need identified
- Extensive consultation with the pilot group – including forming a FDAP working group
- Software solution
- Aircraft modification program (ongoing)

FLIGHT DATA ANALYSIS PROGRAM AGREEMENT

This AGREEMENT is made between

ROYAL FLYING DOCTOR SERVICE OF AUSTRALIA (SOUTH EASTERN SECTION)

ABN 86 000 032 422

("the Company")

and

THE AUSTRALIAN FEDERATION of AIR PILOTS

ABN 63 230 452 036

("the Pilot Association")

on the 16th day of July 2015

RECITALS

- A Flight Data Analysis Program ("FDAP") has been implemented by the Company to enhance flight safety, standards and training procedures.
- This will involve monitoring Flight Crew operational procedures by obtaining and analysing data recorded in flight.
- The objective of the FDAP is to provide a flight operational system and quality assurance tool to enhance proficiency and safety in Company aircraft.
- The FDAP Program will take a holistic view of the Company's flight operations and will not address individual pilots and their performance on specific flights, except as provided for in this Agreement.
- All parties acknowledge the sensitive nature of the data acquired in the context of the FDAP and the need to record the procedures to be adopted for the implementation of the program and to set limitations and conditions for use of the FDAP data.



What's are our long term goals?

- Close the loop
- Fleet wide roll out
- Expanding number of aircraft parameters
- Improved aircraft availability and reliability
- Enhancing our support to patients and customers



What would we do differently?

- Increased engagement with our industry partners
- Training
- Promotion



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Questions and discussion?

