



Resource to Risk Project

OVERVIEW

The Resource to Risk project develops and delivers decision support tools to empower fire and emergency service agencies to deploy the best resource based on the risk.

Leveraging the National Aerial Firefighting Centre's existing resource awareness software ARENA, Resource to Risk supports planning allocation of aerial resources, coverage modelling, consolidated risk information and planning functions.

Resource to Risk brings intelligence from across the emergency management sector to help agencies make informed decisions.

The Resource to Risk Project Phase 1 Proof of Concept:

- Integrates risk-based decision-making into ARENA, used operationally in aerial firefighting deployment across Australia
- Interfaces with the latest science delivered by the Australian Fire Danger Rating System
- Provides a prototype aircraft coverage model
- Delivers a new ARENA planning module to plan aircraft allocations up to five days in advance.

WHAT'S NEXT?

Phase 2 will build on the Phase 1 prototype work and compile additional data, research and evaluation of current information to deliver a robust model. It will include key components to explore evaluation and effectiveness measures to in-build into the tool.

This work is being conducted by AFAC National Projects and Innovation Directorate.

Australia's aerial firefighting fleet is a powerful tool in our fire and emergency response artillery.

The fleet is underpinned by powerful decision support tools and real time data that provides strategic insight to increase its impact.

FOUR PILLARS OF RESOURCE TO RISK



Resource Allocation

- Finding the right firefighting aircraft for the job
- New resource allocation information and availability tools



Risk and Data

- Ensuring the firefighting aircraft fleet meets the communities needs
- Interfacing with the latest science and dynamic risk data



Evaluation

- Ensuring fire agencies can learn from the past to improve the future of aerial fire fighting
- Continuous improvement of models and evaluation mechanisms



Resource Planning

- Placing fire fighting aircraft on standby in the right locations
- Plan resources 5 days in advance
- Develop capability for seasonal and strategic fleet procurement

LEARN MORE

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