





# T4-A5: Why fly?

How do we know that aerial firefighting operations are effective and efficient?

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# Objectives



- 1) Undertake assessment of how aircraft are currently used in Australia (Profile of use).
- Develop methods for estimating objectives from available data and undertake profile analysis of these (Purpose of use).
- Undertake broad assessments of effectiveness by comparing objectives with outcome measures (Assessment of effectiveness).



## Project Action Timeline

	March	June	Sept	Dec	March	June
Task description	2023	2024	2024	2024	2025	2025
Literature review		Х				
Data acquisition & processing		Х				
Data availability assessment			х			
Research data potential & workshop priorities		Х				
Case study data collection					х	
Aircraft use profile					х	
Purpose of use					х	
Assessment of effectiveness						х
Final Reporting						Х

### Project Development Timeline



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# So far its just a plan Based on our 2021 pilot







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# Profile of use

#### For example:

- What is the fire weather envelope for aerial? By aircraft type?
- Does aerial tend to occur near houses or far away? By aircraft type?







## Automated objective

### detection

#### Using:

- Drop Data
- Fire Progression / Linescan
- Asset locations
- And time matching



# Effectiveness







