

# Groppo Trail Research Aircraft

## Why have your own plane?

- To collect data for research into animal locomotion that would not otherwise be possible
- Aerial data can give a different perspective, giving a more complete understanding of animal locomotion and behaviour, revealing new insights into how animals interact with their natural environment
- Our research can inform land management and conservation strategies.

## LOCATE Project

Our plane is used to study the hunting and ranging behaviour of large African carnivores and their prey on the savannah of northern Botswana.



The plane can carry high speed video cameras which can 'lock on' to animals wearing our wildlife tracking collars.

This provides detailed footage of hunting and evasion that cannot be gained from the ground.

By flying within 300 meters we can pick up movement data from the collars, which is an efficient way of collecting data from numerous animals and avoids disturbing them on the ground

The plane carries a LIDAR ground scanner from which we generate detailed terrain maps. By overlaying hunting and ranging route data from collars we see how animals use the terrain and their territory.