



LiDAR Mapping of Malleefowl Mounds in Patchewollock

Using cutting-edge LiDAR technology to identify and protect critical Malleefowl habitats



LOCATION: Patchewollock, Victoria

KEY METRICS:

- 224 high-confidence Malleefowl mounds identified
- ~44km² surveyed efficiently using LiDAR technology

“The LiDAR results were incredible! It revealed mounds we had never found in seven years of wandering our property.

Anditi's technology is a game-changer for conservation work.”

▸ Michael, Explore the Mallee ◀

THE CHALLENGE

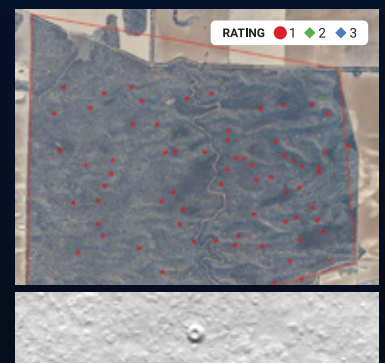
Malleefowl populations are difficult to monitor due to the remote and dense nature of their habitats. Explore the Mallee faced the challenge of locating active and historical Malleefowl mounds across their conservation reserve and surrounding sites, totaling approximately 44km². Traditional on-foot surveys were time-consuming and often missed mounds in hard-to-access areas.

OUR APPROACH

Anditi Pty Ltd applied LiDAR scanning to capture high-resolution 3D data across the conservation reserve and nearby state forest areas. The data was analyzed to identify potential Malleefowl mounds, rated by confidence level from 1 (most likely) to 4 (least likely). GPS coordinates of high-confidence mounds were then provided for ground-truthing, enabling Explore the Mallee to efficiently verify mound locations on foot.

THE RESULTS

The LiDAR survey identified 224 high-confidence (rating 1) mounds across the three designated survey sites. Subsequent ground-truthing confirmed these active mounds on Explore the Mallee's property, including some that had not been discovered in seven years of manual searching. This accelerated mapping process greatly improved the accuracy and completeness of Malleefowl habitat records and highlighted the value of technology in conservation efforts.



1 rated mound example