



Environmental Analytics

# Breathing life into your data



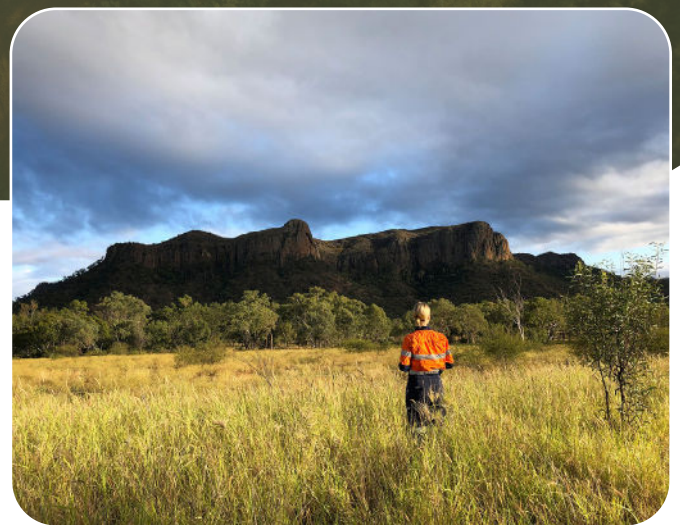
[e2m.com.au](https://e2m.com.au)

At E2M, we're pioneers in technology-driven ecology, combining innovation with environmental expertise. By staying at the forefront of technology, we're always finding new ways to optimise the service and add value for our clients.

From AI image detection and bioacoustics to comprehensive data analytics, our team delivers balanced environmental outcomes.

## Ecology + Technology: Bringing your data to life

Our bioacoustics and image analytics services offer solutions for tracking species presence, distribution, and abundance through technology.



We provide:



### **Bioacoustic analysis:**

Identify wildlife calls within long-term field audio recordings.



### **Image detection for wildlife**

Fast and accurate species identification, specialising in motion-activated camera data, a vital tool for ecologists.

## Pre-configured tools that are ready-to-deploy

Our state-of-the-art call and image detection models are already delivering results across Queensland.

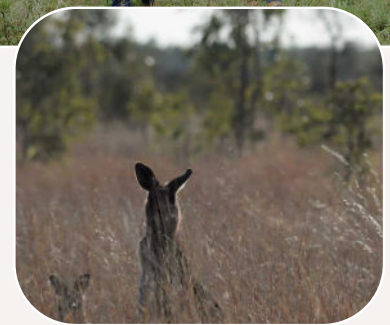
By leveraging networks of audio recorders and camera traps, we provide cost-effective, intensive surveys 24/7. AI models process the data and our team of expert ecologists verify the results to ensure accuracy.

**Our pre-configured bioacoustic models detect key species including:**

- Koala
- Squatter Pigeon
- Yellow-bellied Glider
- Masked Owl
- Black-throated Finch
- Painted Honeyeater
- Diamond Firetail

## Bespoke acoustics analytics for niche needs

For specialised projects, our in-house team offers custom analysis and training of AI models for target species. As Queensland's largest team of ecologists, we manage everything from fieldwork to data insights, ensuring seamless support from project inception to completion and beyond.



## The power of AI bioacoustics and image detection

AI is transforming ecological assessments. Acoustic data and camera imagery is easy and cost-effective to collect, however undertaking the analysis of vast datasets can be resource-intensive.

Our analytics solutions offer:



### Cost efficiency

Reduced workload for species monitoring.



### Accurate detection

Confident insights on species presence.



### Population tracking

Monitoring changes to meet environmental compliance requirements.



### Site-specific insights

Site-by-site analysis of species abundances.



### Responsiveness

Measuring the impact of management interventions.



### Effectiveness

Demonstrating progress and success in conservation measures.



## Advanced AI for Ecology

Our AI models, developed by our team of expert ecologists, streamline data analysis.

Using convolutional neural networks, we have developed a range of models that are then validated by our team of ecologists to ensure quality.

## Why Choose E2M?

As Queensland's largest team of ecologists, we are trusted experts in both technology and ecology, so you know you're in safe hands.

Our in-house capabilities ensure comprehensive, reliable support for your environmental needs.



## Meet our Expert

John van Osta

Leading our Analytics service, John van Osta is dedicated to enhancing environmental assessments. He is pursuing a PhD in machine learning for monitoring bird calls and movements and brings extensive experience in large-scale impact assessments, biodiversity monitoring, and environmental compliance.

Our bioacoustics and image analytics services provide out of the box and customisable solutions to save your project time and costs.

Contact us today.

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