

FERAL-AI CAPABILITY STATEMENT

AUTONOMOUS INTELLIGENCE FOR FERAL ANIMAL MONITORING

ASSURING DIGITAL SUCCESS SINCE 1997





FERAL-AI

Feral-AI, developed by KJR, is an autonomous AI-driven solution designed to monitor, detect, and record animal activity in real-time using remote, edge-based drone and sensor systems. Built for rugged terrain and off-grid environments, Feral-AI enables landholders, ranger groups, and government bodies to make informed, data-backed decisions for managing native and invasive species.

This technology is an evolution of KJR's broader Remote Data Technologies capability, successfully deployed in:



The 2025 Far North Queensland flood response, where drones were used for realtime infrastructure and environmental impact assessment.



Cultural heritage preservation with Indigenous Rangers in Cape York, documenting remote rock art sites using edge-compute drone systems.



The Marine Debris Task Force, combining Al and drone tech to identify and map ghost nets in the Torres Strait.



Al models surveying native animals.

These real-world applications inform the design and deployment of Feral-AI for ecological surveillance and biosecurity monitoring.



OUR CAPABILITY

AUTONOMOUS, OFF-GRID MONITORING

- Drone-in-a-Box (DiaB) technology for fully automated deployments
- Operates in remote regions without the need for constant human intervention
- Solar-powered with Starlink satellite connectivity for resilience in isolated areas

AI-POWERED SPECIES DETECTION

- Trained algorithms identify and track pigs, rabbits, kangaroos, and more
- · High-resolution optical and thermal imaging
- · Geotagged, timestamped data with behavioural insights

EDGE-BASED INTELLIGENCE & SECURE DATA LOGGING

- On-site data processing with minimal latency
- · Secure syncing with cloud-based dashboards
- Offline data storage with automatic syncing when in range



CONFIGURABLE FOR MULTI-SPECIES DETECTION

- · Multi-animal tracking models tailored to specific ecosystems
- Scalable to include monitoring for livestock, native fauna, or environmental threats

The use of drones in feral animal monitoring provides faster, safer, and more accurate data collection across large and remote areas, enabling real-time tracking, reduced labour costs, and more effective wildlife management strategies.











Agricultural Zones

Track feral pig activity and protect crops and livestock



National Parks

Council Land

Detect rabbit infestations and

plan eradication strategies

Monitor feral deer movement to support biodiversity



Ranger-Led Programs

Enable real-time response and long-term ecological monitoring

STAKEHOLDER BENEFITS

Cultural & Environmental Sites

Map kangaroo impact to

support conservation goals



Government & Environmental Agencies

- Scalable monitoring across jurisdictions
- Supports biosecurity, land restoration, and conservation programs
- · Enables grant-funded pilot programs with measurable impact





Indigenous Ranger & Land Management Groups

- · Enables localised data ownership and better decisionmaking
- · Supports employment and training through tech-enabled fieldwork
- Strengthens community-led conservation efforts with actionable insights

Researchers & Ecologists

- · Provides longitudinal data for wildlife impact studies
- · Integrates with GIS systems and environmental databases
- · Enables new research methodologies in behavioural ecology and population control









Clarify scope of survey or monitoring (e.g survey the animal population, understand their behaviour, understand the survey environment)

Prepare and safety test precise repeatable flight plans.

Undertake data collection, and species validation flights, typically in evening.

Apply AI Computer Vision to video and telemetry data to locate and classify target animal species.

Human review and validation of AI results. Apply corrections to presented data.

Summarise findings into a validated report. Quantify survey results.

KEY PARTNERSHIPS















ABOUT US



TECH EXPERTS

27+ years of experience in data assurance, software testing, and AI innovation.

REMOTE DATA TECHNOLOGIES

- Division of KJR
- Intelligence Surveillance Reconnaissance (ISR)
- Drone Platform Integration
- Data and AI processing
- Remote operations solutions
- Proven deployment in:
 - Queensland flood recovery operations
 - Marine debris and ocean health monitoring
 - Cultural heritage documentation with Indigenous ranger groups

MORE THAN 120 TEAM MEMBERS ACROSS FOUR OFFICES

Brisbane Gold Coast

Canberra Melbourne

1997

Recognised leader in Trusted AI, aligned with ISO 42001 and ethical AI frameworks.

AUSTRALIAN

Sovereign, Australian-owned capability with deep industry and community partnerships. Defence and Security Cleared (30+ NV1, NV2, PV)





OUR HISTORY

With Y2K approaching, demand was high for technology and software testing. K.J. Ross and Associates was established in a garage on the Gold Coast by Kelvin J. Ross in 1997.

KJR has now grown to approximately 120 staff across four offices nationally. We're proud to say we have multiple staff whom have been with us for decades, and many long-term customers we continue to work with today.





- INNOVATION

Dedicated to improving the world through tech we work with diverse communities to explore technological solutions to their unique challenges utilising emerging technology.

KJR is a founding member of the following initiatives:

- Indigenous Australian Datathon
 - Queensland AI Hub •
 - Young Women Leaders in AI •

and many more!



- COMMUNITY & TECH

At KJR we are very conscious of the impact we have on all aspects of society, including economic, social and environmental and have dedicated our efforts to improving the world through implementation of various community and innovative technology projects.

We work on the following projects with Indigenous Communities:

- Rock Art Data Capture using Drone & AI
- Marine Debris Task Force
- Jarramali Cultural Tech Tours

and many more!





Let's work together to enhance how Australia monitors, manages, and responds to feral animal threats.

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