

Golf Course Fire Intelligence. Decision-Ready.

Edgegenix is an AI operational intelligence platform for the physical world. Edge AI on the course analyses camera and sensor feeds on site and turns them into verified events; the Edgegenix Cloud AI platform fuses those events with weather and terrain into one verified decision — so your team commands the response, not the data.

THE CHALLENGE

Open Ground. People Everywhere. Minutes Matter.

A golf course is a large, open property with players, staff and guests spread across eighteen holes, often at the bushland interface and far from shelter. On high-risk days the club has to decide whether to open, when to clear the course, and how to show it met its duty of care. A fire on the horizon becomes a clearance decision measured in minutes.

Exposed ground

Players and staff spread across open fairways, far from the clubhouse and slow to reach.

Longer seasons

Extreme fire weather and the length of the fire season are increasing across southern and eastern Australia.

[CSIRO & BOM · STATE OF THE CLIMATE 2024](#)

Duty of care

Clubs carry work-health-and-safety and duty-of-care obligations to everyone on the grounds.

Bushland interface

Many courses back onto scrub and reserve, where a nearby ignition can turn quickly.

+300%

a fire's area can grow within two hours of ignition — and every ten-minute delay adds up to 1,500m² in moderately dry conditions.

[Source · CSIRO, via Minderoo Foundation Fire Shield](#)

Warning is the decision.

On an open course, minutes of notice turn an evacuation into a marshalled clearance. Edgegenix gives you a verified alert with location and direction — and a timestamped record that your watch and response were in place.

WHAT EDGEGENIX DELIVERS

From First Smoke to an Orderly Clearance.

Course-Wide Early Warning

One camera on high ground watches the full property and the bushland beyond it, day and night.

Bushland Boundary Watch

Continuous AI watch on the interface where the course meets scrub and reserve.

Duty-of-Care Record

Timestamped warnings and actions — the documented watch and response for the board, members and insurers.

Orderly Player Clearance

Minutes of notice with location and direction turn evacuation into a marshalled clearance, not a scramble.

Clubhouse & Asset Protection

Early alerts for carts, machinery sheds, irrigation plant and the clubhouse itself.

High-Risk Day Operations

The confidence to make open and close calls on total fire ban days, with a verified watch running.

HOW IT WORKS

From Field Data to Operational Decisions

01

Data Acquisition

Cameras and sensors across the course, plus weather feeds — your existing hardware or ours.

02

Edge AI Detection

The Edge AI device flags and evidences smoke and flame on site and scores confidence — with or without a network.

03

Operational Context

Cloud AI fuses events with weather and terrain into incidents and clearance-support views.

04

Actionable Output

Dashboards, verified alerts, image evidence and the record that supports the call.

THE ARCHITECTURE

One End-to-End Platform — Camera to Command

The platform leads; the hardware serves it. Cameras and sensors capture the signal, the Edgegenix Edge AI device detects smoke and fire locally — even with no connectivity — and the Edgegenix Cloud AI platform verifies, adds context and delivers one verified decision to your team.

END-TO-END SMOKE & FIRE DETECTION

FROM CAMERA TO VERIFIED OPERATIONAL DECISION

IN THE FIELD

RGB camera
clubhouse / high point

Thermal camera
day / night

Sensors
weather ·
environmental

EDGE AI

Edgegenix Edge AI

Local smoke & fire
detection

Works without
connectivity

Evidence buffer
store & forward

BACKHAUL

LTE / 5G

Satellite
low-bandwidth

WiFi / Fibre

CLOUD AI

Edgegenix Cloud AI

Verification & fusion

Weather & terrain
context

Spread & direction

OPERATIONS

Verified alerts

Live dashboard

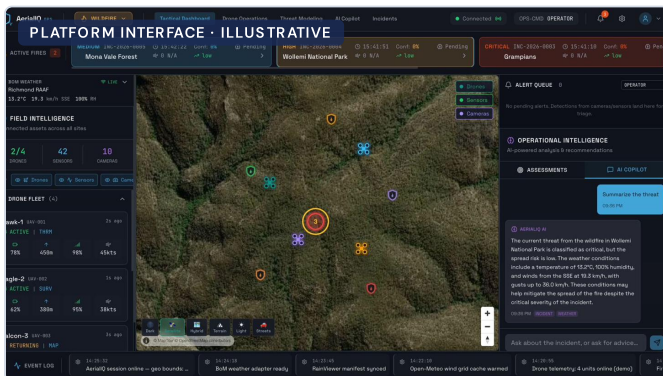
Duty-of-care
record

Reports & API

The complete Edgegenix smoke & fire platform — from cameras and sensors, through Edge AI, to Cloud AI operational intelligence.

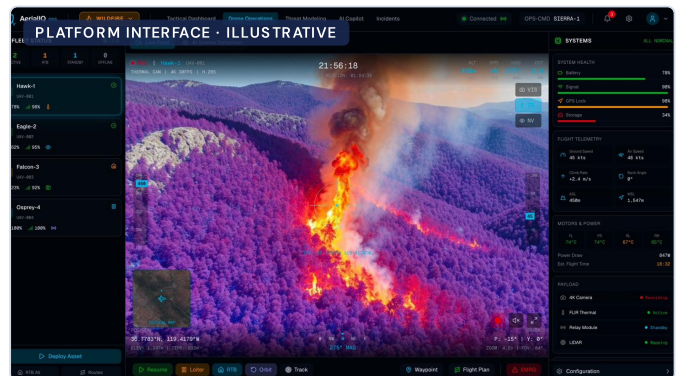
THE EDGEGENIX PLATFORM

From Detection to Decision — One Unified Interface



Tactical Map

Live positions, fire spread context and direction across the course and its boundary.



AI Detection

Smoke and flame classification with confidence scoring on every alert.

INDUSTRIES SUPPORTED

One Platform. Critical Verticals.

Golf course fire early warning is one application of a broader operational intelligence platform — built horizontally, deployed vertically across bushfire, agriculture, flood and land operations.

Bushfire & Forestry

Real-time smoke and flame detection, fire spread context, prescribed-burn support and post-fire assessment.

Agriculture & Biosecurity

Smoke-exposure early warning, crop stress and pest monitoring, and targeted intervention support.

Flood

Early inundation detection, extent and change monitoring, and a dated record for response and recovery.

Land & Asset Monitoring

Change detection and dated evidence for estate assets. Boundary determination remains the registered surveyor's legal act.

WHY EDGEGENIX

What Sets Us Apart

Edge-First, Works Offline

Detection runs on the device at the course. No connectivity, no problem — it keeps watching and syncs when the network returns.

Australian-Developed AI

Models developed for Australian eucalypt terrain and smoke conditions, with research partners at Macquarie University and UNSW.

Onshore Data & Integration

Australian-owned, designed for onshore hosting and data residency. Integrates with your existing systems via API.

Decision Layer, Not Just Detection

Sensing is solved; operating on it is not. Edgegenix turns detections into a verified decision and a defensible record.

Human-in-Command Workflow

AI carries the load; your team keeps command. Review and control at every stage — no black-box automation.

Modular Deployment

Off-the-shelf cameras and a modular Edge AI device — standalone or in rugged IP66 pole enclosures — sized to each site.

Ready to see Edgegenix on your course?

A structured pilot on your property — clear milestones, measurable results, no obligation. We validate early warning, clearance support and the duty-of-care record against your operational requirements.

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