

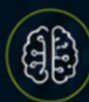


INCA BRAIN™

Intelligent Decisions.
Stronger Protection.

INCA BRAIN™ plugs into your existing drone and connects seamlessly to the WFS net® management system.

Smarter data. Faster decisions.
Stronger outcomes.



CONNECT

Plug & play on your existing drone.



ANALYZE

AI turns aerial data into actionable insights.



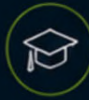
DECIDE

Prioritize risks and recommend actions.



ACT

Trigger responses and adapt strategies in real time.



LEARN

Continuously improve through feedback and experience.



AI-POWERED
INTELLIGENCE



REAL-TIME DATA
INTEGRATION



PREDICTIVE INSIGHTS
AND SCENARIOS



PROACTIVE RISK
MANAGEMENT



ADAPTIVE AND
CONTINUOUS LEARNING



BUILT FOR PEOPLE,
ASSETS AND NATURE

INCA BRAIN™ and WFS®
Working together for a safer future.

inca | **WFS®**

INCA BRAIN

Adaptive Intelligence for Unmanned Fire Response

Capability Statement

Ground and aerial robotics, resilient communications, and real-time tactical command — one intelligence platform, adapted to any hardware and any mission.

Executive Summary

Wildfires and industrial fires demand fast detection, reliable situational awareness, and the ability to act in places too dangerous or too remote for people. INCA delivers this through a single, unifying technology: the INCA Brain™ — an intelligence module that can be embedded in virtually any hardware platform, from a standard mobile phone to a Raspberry Pi to a ruggedised edge computer.

The INCA Brain™ turns ordinary machines into connected, remotely operable, and autonomous field assets. Installed in a phone mounted on our fire patrol rover, it provides full telepresence control and live video to a remote operator. Installed on a Raspberry Pi in an aerial drone, it flies autonomous missions and streams findings back to command. Every Brain-equipped asset connects natively to our tactical command platform, giving incident commanders a single real-time map of everything in the field.

Around this core we deliver complete mission systems: a heavy-payload ground rover for patrol and suppression support, autonomous drones for investigation and fire suppression, a tiered communications architecture that works far beyond cellular coverage, and a self-hosted command platform that runs on small, affordable hardware with no dependency on cloud services.

Because the INCA Brain™ is hardware-independent, we size and configure every deployment to the customer's terrain, mission profile, and budget — rather than asking the customer to adapt to a fixed product.

The INCA Brain

The INCA Brain™ is the product. It is a self-contained intelligence and connectivity module — software with supporting electronics — that gives any host platform four core capabilities:

Remote presence. Live video, two-way audio, and low-latency remote control over any available network, so an operator anywhere in the world can see through the machine's eyes and drive it in real time.

Autonomy. Mission execution without an operator — waypoint patrol, area search, and sensor-triggered behaviours such as investigating a suspected fire.

Connectivity. Automatic use of the best available link — cellular, satellite, wireless mesh, or long-range radio — with graceful degradation instead of failure when conditions worsen.

Command integration. Native connection to the WFS® tactical command platform: every INCA Brain-equipped asset reports its position, status, and sensor data to a shared live map, and accepts tasking from it.

The INCA Brain™ has already been fielded in two very different host platforms. In our fire patrol rover it runs on a standard Android phone, using the phone's own camera, GPS, and radios while commanding the rover's drive systems. In our autonomous drone programme it ran on a Raspberry Pi 4, flying missions through the flight controller and reporting to the command map. The same intelligence, two different bodies — that is the central idea. For each customer we select the host hardware that fits the environment and the mission, and the Brain adapts to it.

WFS® — The Mangement Command System

WFS® is INCA's real-time tactical map for incident command and training. Multiple users — commanders, operators, instructors — connect to the same shared map and see the same live picture: vehicle positions, fire zones, evacuation zones, sector boundaries, and every Brain-equipped rover and drone in the field.

From the map, an operator can select any rover, see its live camera feed, take control, and drive it — from the next room or the next continent. Fire zones can be drawn directly on the map, with built-in fire spread prediction driven by live weather data. Route planning, sector management, and instructor tools for training scenarios are integrated.

WFS® is fully self-hosted and runs on small, low-cost hardware such as a Raspberry Pi. It requires no cloud services and no external dependencies, which means it keeps working when internet connectivity is degraded — a deliberate design choice for emergency operations — and it can be deployed at a fire station, in a vehicle, or in a temporary field headquarters.

inca | **WFS[®]**