



IS THERE GOLD IN THEM THERE HILLS?

Our satellite and drone system will tell you (and other minerals too).

Hawkeyes uses satellite and drone imagery, LiDAR, Airborne Electromagnetic (AEM) data, and Convolutional Neural Networks (CNN) to map geochemistry formations and pinpoint mineral deposits in your project area — and not just gold.



THE PROBLEM

Exploration Hasn't Changed.

Most mining companies still prospect the same way: field teams, rock sampling, expensive surveys, and months of manual interpretation.

Meanwhile, satellites have already scanned the same terrain thousands of times.

Those scans contain geological signals linked to mineral deposits:

Alteration patterns

Structural faults

Thermal signatures

Vegetation stress

Subsurface anomalies

Historical mining data

HOW HAWKEYE WORKS

We analyze satellite data with AI and tell you where to dig.

Hawkeye combines multiple geological data sources into a single AI-driven exploration system:



Satellite imagery



LiDAR terrain mapping



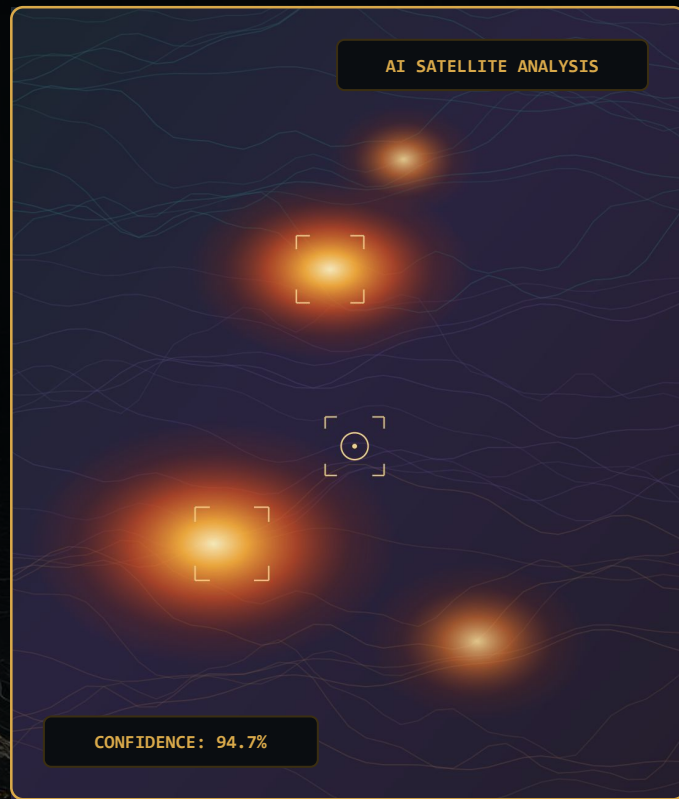
Airborne EM (AEM) data



CNN analysis



Geological structural analysis



Multispectral optical · LiDAR · AEM · structural — fused into one model.

High-probability targets, before field crews arrive onsite.

Our AI models analyze every data layer together to rank where the deposits most likely are — so your team acts on evidence, not hunches. You get:



Ranked drill targets

Prioritized coordinates, ordered by deposit likelihood.



Confidence scoring

A probability score on every target, so you know what to trust.



Geological pattern analysis

Alteration, faults and anomalies mapped across the terrain.



Actionable exploration maps

Field-ready outputs your team can act on immediately.

We're not a mining platform. **We're your drill.**

Not Just Gold.

Minerals. Oil. Gas. Water. If it can be mined or extracted, it's fair game.

If it can be mined and extracted, chances are our satellites and drones can identify it.

What Is a Convolutional Neural Network (CNN)?

Convolutional Neural Networks (CNNs) are AI models trained to identify geological patterns, mineral signatures, and structural anomalies directly from satellite imagery — trained on multispectral satellite bands to identify subsurface mineral signatures with high precision.

Bands in

- 01 Thousands of spectral bands per scene, far beyond the three the eye can see.



Pattern recognition

- 02 The model learns what mineralised ground looks like, then finds it at scale.



Targets out

- 03 Ranked, scored, georeferenced drill targets your team can act on.

SEEING BEYOND RGB

HUMAN EYE · 3 BANDS



HAWKEYES SATELLITE · THOUSANDS OF SIGNATURES



Various minerals leave various colour signatures. We find them and report them.

Three Steps, Two Phases

No Massive Field Program Required.

PHASE 01

STEP 01

01

Tell Us Where

Send us your area of interest — coordinates, shapefiles, or a polygon boundary.

Typical cost, on average, \$12,000 (depending on the amount of area scanned).

STEP 02

02

We Map And Run The AI

Our mapping platform processes all possible geological layers looking for mineralization signals and structural correlations. This includes:

- ✓ Hydrothermal alteration detection
- ✓ Vegetation stress analysis
- ✓ Fault and structure mapping
- ✓ Spectral mineral identification
- ✓ Deep pattern recognition using CNN models

STEP 03

03

You Get The Report

You receive:

- ✓ Georeferenced exploration maps
- ✓ Ranked target zones
- ✓ Confidence scores
- ✓ Anomaly overlays
- ✓ Mineral probability analysis

Your team sees where to focus — and where not to waste the budget.

PHASE 02

Drone Verification & Drill Targeting

Phase 01 narrows the property down to a handful of priority zones. Phase 02 flies those zones close-range and fuses the two data streams into a single drill-ready answer.

01

Drone Survey

Close-range flights at 30–100 m above ground over the zones Phase 01 ranked highest.

02

Dual AI Model

Satellite and drone data fused in one model — two independent streams, one answer.

03

Drill-Intercept Targets

Targets delivered with UTM coordinates your drill crew can navigate to.

04

Full Delivery Package

Every layer, map and model output handed over — client-owned.

No fixed prices. Once we understand your property, we prepare a tailored quote — it starts with a short call.

Satellite Sees What We Can't

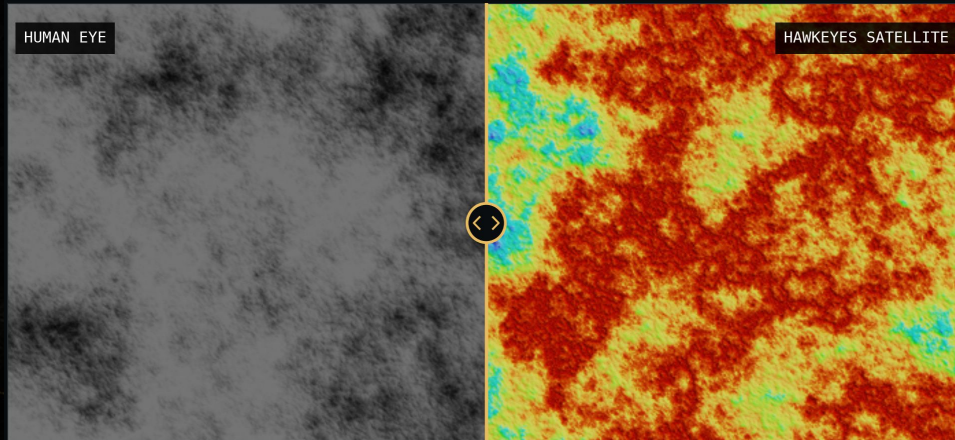
The human eye can see three colors — Red, Green, and Blue (RGB). Our satellite can see thousands more that the human eye is not capable of. Various minerals leave various color signatures. We find them and report it to you. This saves you a lot of time from having to speculate.

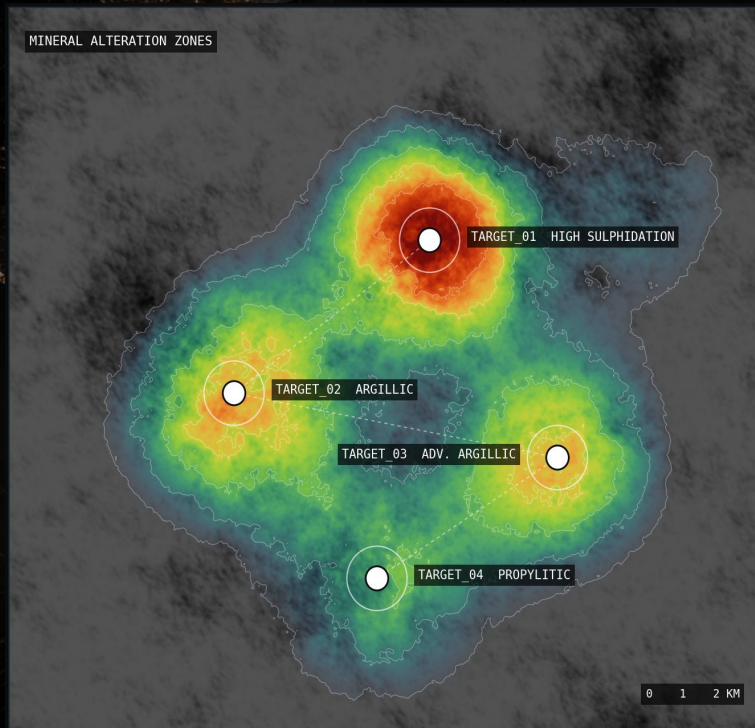
FROM

~~SPECULATION~~



VERIFICATION





Hydrothermal Zone Mapping

WHAT IT IS

The platform detects rock altered by hot mineral-rich fluids underground — one of the strongest indicators of nearby ore systems.

WHAT YOU GET

Priority-ranked exploration zones with high mineralization potential.

RESULT

Months of reconnaissance compressed into satellite analysis.

Prospecting with LiDAR, Airborne Electromagnetic (AEM) and Convolutional Neural Network (CNN)

WHAT IT IS

Convolutional Neural Network: an AI model trained on multispectral satellite bands to identify subsurface mineral signatures with high precision. The platform combines three exploration layers into a unified targeting system:

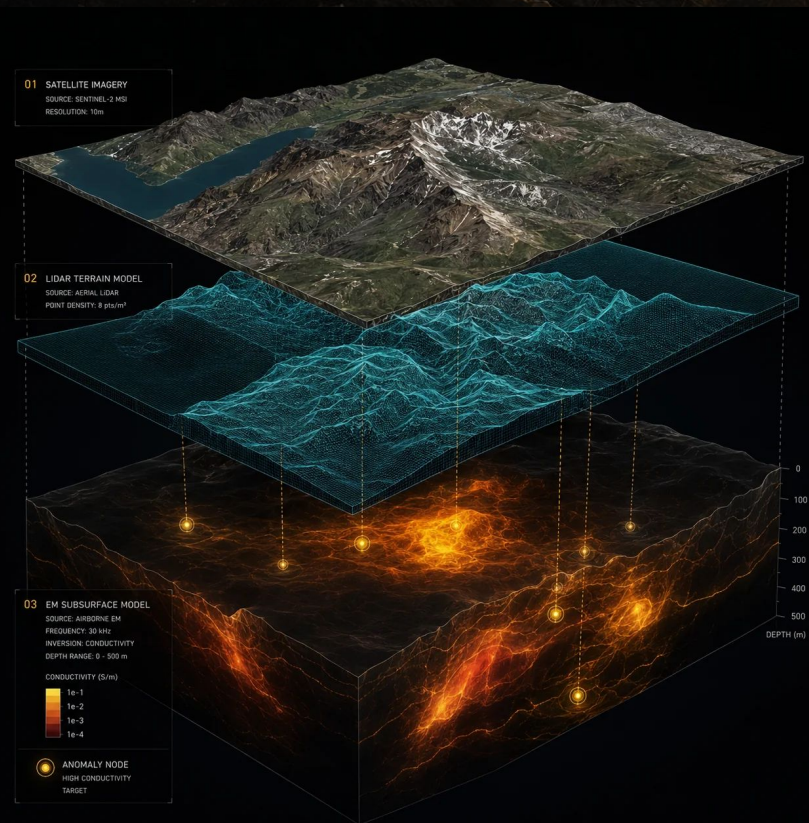
- ✓ CNN-analyzed satellite imagery for mineral signatures
- ✓ LiDAR for terrain and structural mapping
- ✓ Airborne Electromagnetic (AEM) data for subsurface conductivity

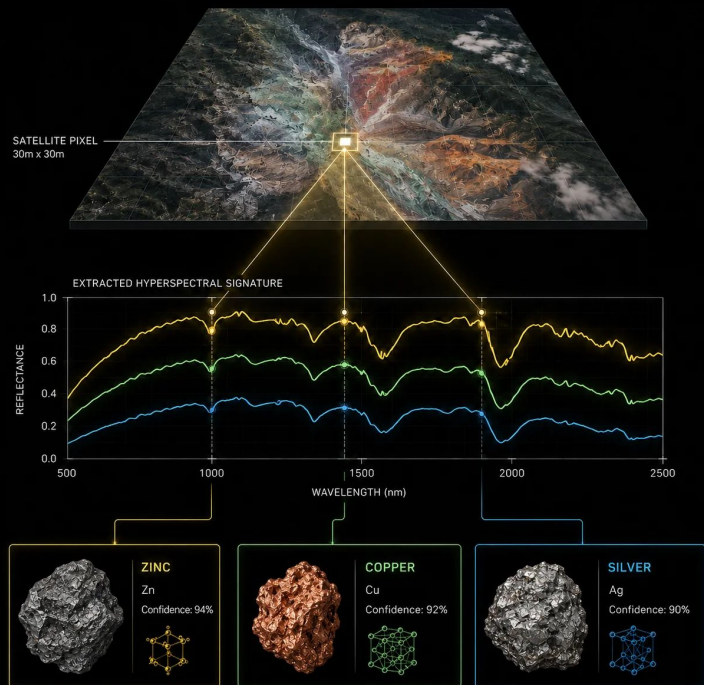
WHAT YOU GET

Ranked drill targets with confidence scoring.

RESULT

Better targeting. Less unnecessary drilling.





Mineral Identification from Satellite Pixels

WHAT IT IS

Each satellite pixel can contain mixed mineral signals. Our models separate and identify those signatures to estimate mineral composition across large areas.

WHAT YOU GET

Mineral distribution intelligence before committing to expensive ground programs.

Vegetation Stress Detection

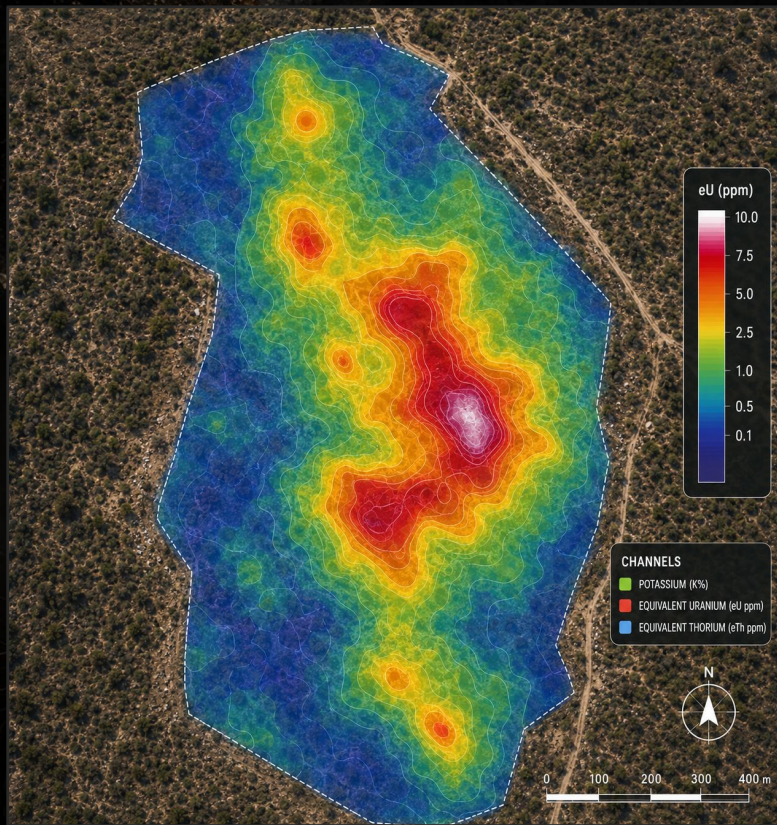
WHAT IT IS

Certain buried mineral systems create chemical stress in surface vegetation. That stress becomes visible in multispectral satellite imagery.

WHAT YOU GET

Additional exploration signals that conventional programs often miss.





Radiometric Survey

WHAT IT IS

Radiometrics measures surface-level radioactivity: potassium, equivalent uranium and equivalent thorium. It is the only payload that responds to uranium directly.

WHAT YOU GET

A direct uranium signal at surface, with K/eU/eTh ratios that separate real anomalies from background noise.

WHAT YOU GET

Satellite & Drone, Combined

High-resolution satellite data fused with close-range drone intelligence.

Two independent data streams, one AI model, one precise answer — exactly where to drill.

- ✓ High-resolution satellite over all priority zones
- ✓ Drone survey at 30–100 m above ground
- ✓ Dual AI model fusing both data sources
- ✓ Drill-intercept targets with UTM coordinates
- ✓ Full delivery package, client-owned

Why Hawkeyes

Built Specifically for Mining Exploration

WHAT WE DO

WHY IT MATTERS



AI-Powered Geological Processing



Analyze years of exploration data in days



CNN-Based Pattern Recognition



Detect geological structures invisible to manual review



Multi-Source Data Integration



Combine satellite, LiDAR, AEM, and terrain intelligence



Mining-Specific AI Models



Trained for exploration geology – not generic imagery



Actionable Outputs



Maps and targets your geological team can immediately use

Your Next Drill Will Be Our Satellite.

Send us your project coordinates and we'll show you exactly where to dig — for a lot less than the traditional way.

HAWK



EYES

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