

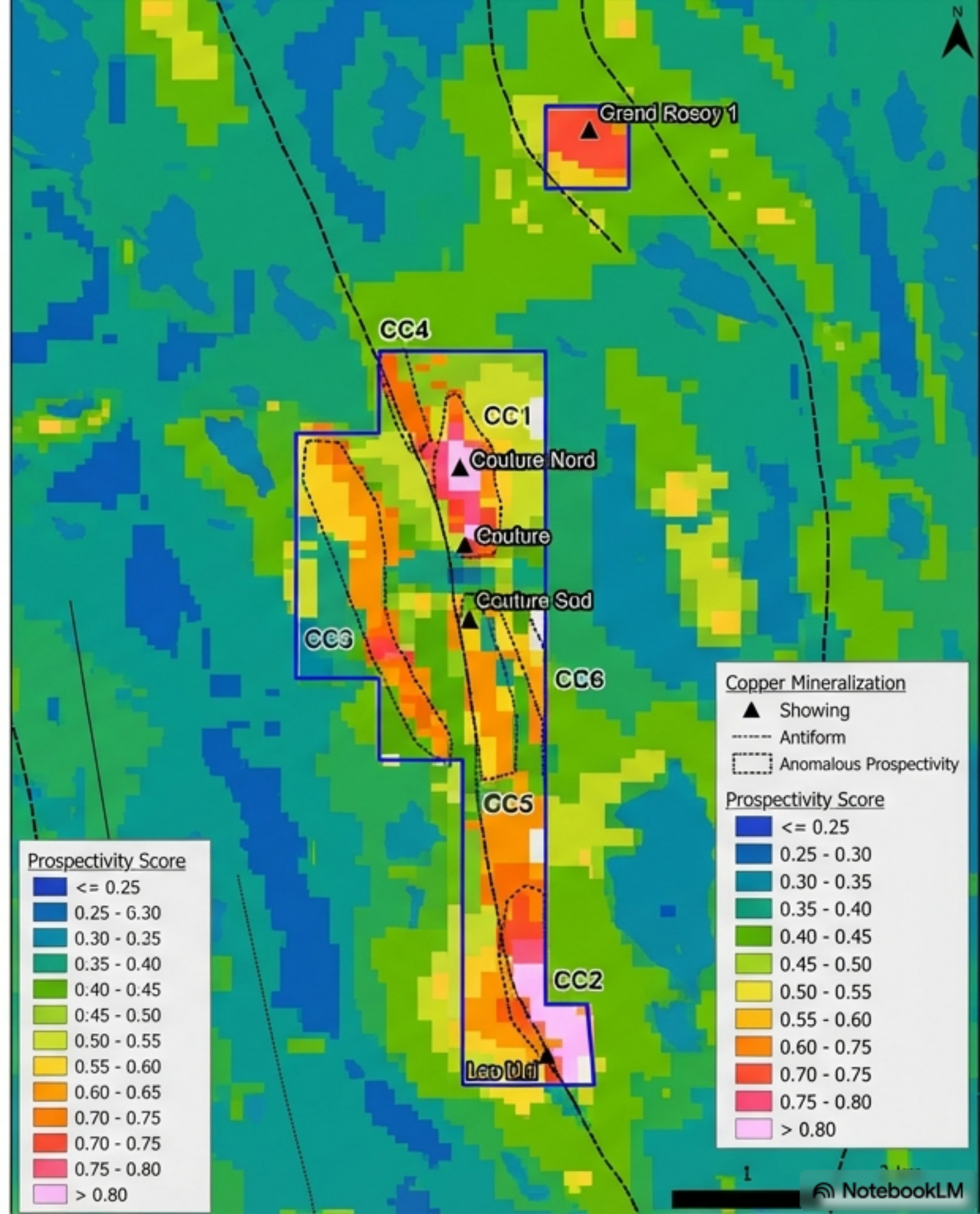
# The Couture Project: AI-Driven Prospectivity Targeting

Unlocking new copper potential in  
Northern Quebec's Baleine Domain.

Prepared for: NQC Lithium Corp.

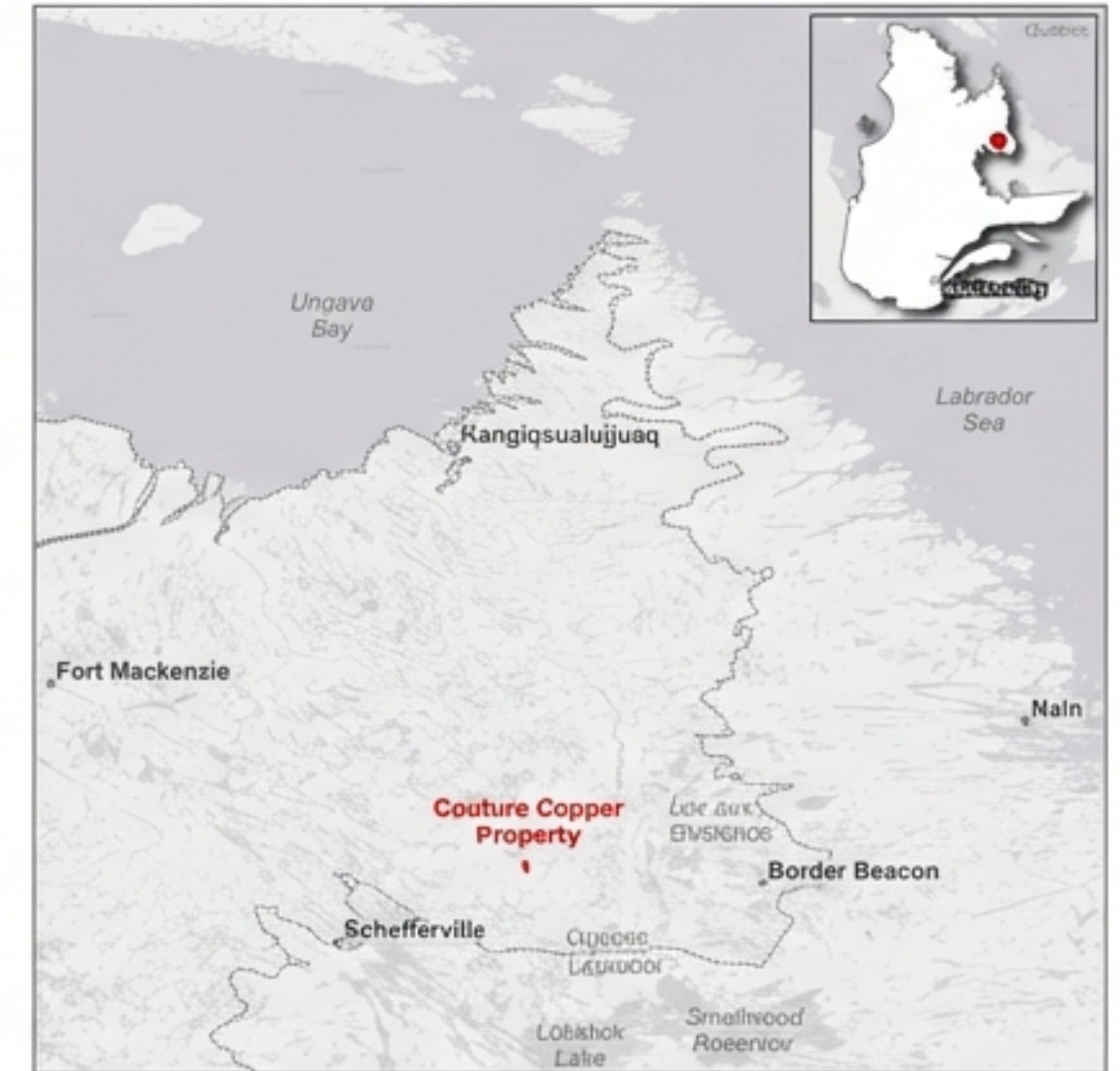
Report Date: August 25, 2025

Prepared by: Mercator Geological Services



# Executive Summary: A Revitalized High-Grade Copper Asset

- **Proven High-Grade System:** Historical surface sampling has returned grades up to 65% Cu, 420 g/t Ag, and 0.95 g/t Au.
- **Underexplored Scale:** The property covers a prominent 12km North-South magnetic lineament (shear corridor) that has seen no systematic drilling despite surface smoke.
- **AI Breakthrough:** Mercator's proprietary Knowledge-Driven AI model utilized 500 layers of government data to re-evaluate the land package.
- **New Targets:** The model validated known showings with high scores (>0.8) and identified 6 new target areas (CC1-CC6) along the structural trend.
- **Phased Strategy:** A proposed two-phase exploration program starting with low-cost data compilation and ground-truthing (\$82k) followed by a definitive drilling campaign (\$1.3M).



**Investment Thesis: Modern technology applied to a historically high-grade, underexplored asset.**



# Project Location & Logistics

## Location Data

Located in Northern Québec (NTS 24H/16), approximately 100 km southwest of Schefferville.

Situated within the Baleine Lithotectonic Domain of the Southeastern Churchill Province.

## Operational Details

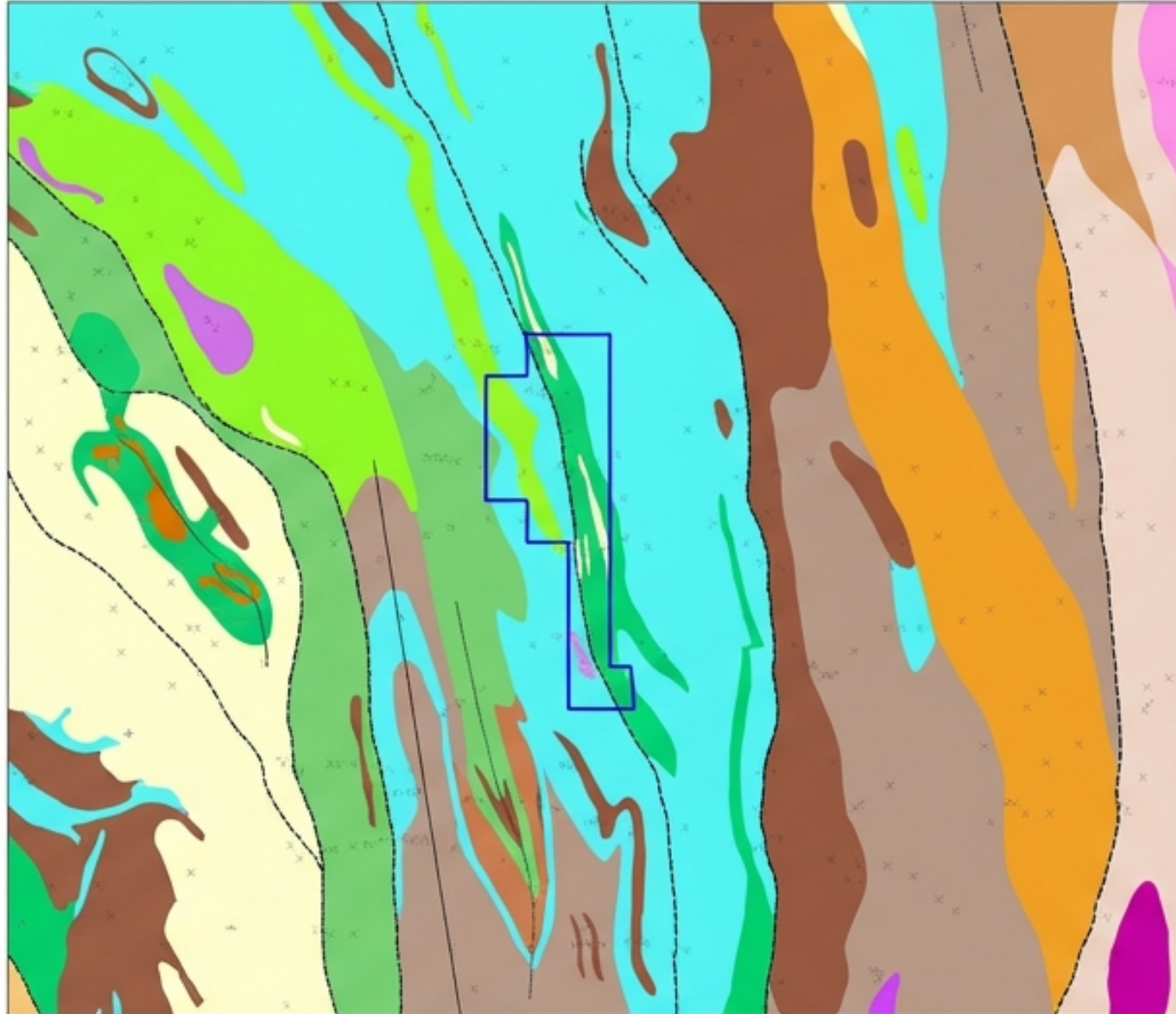
**Access:** Helicopter or float plane access.

**Infrastructure:** Schefferville hosts a regional airport, fuel depots, and accommodations.

**Field Season:** Generally extends from June to September.

**Permitting:** Work in Nunavik requires notification to Kativik Regional Government (KRG) and compliance with Inuit Landholding Corporations for Category I/II lands.

# Geological Setting: The Structural Corridor



12km  
Magnetic  
Lineament

**Host Rocks:** Amphibolitized volcanic and sedimentary rocks of the Curot Suite.

**Structural Control:** A prominent 12 km-long north-south magnetic lineament transects the property. This shear corridor is the primary control on mineralization.

**Metamorphism:** Intense deformation and amphibolite-facies metamorphism.

**Mineralization Style:** Interpreted as remobilization of exhalative sulphides into shear-hosted vein systems during the Trans-Hudson Orogeny (~1.9–1.8 Ga).

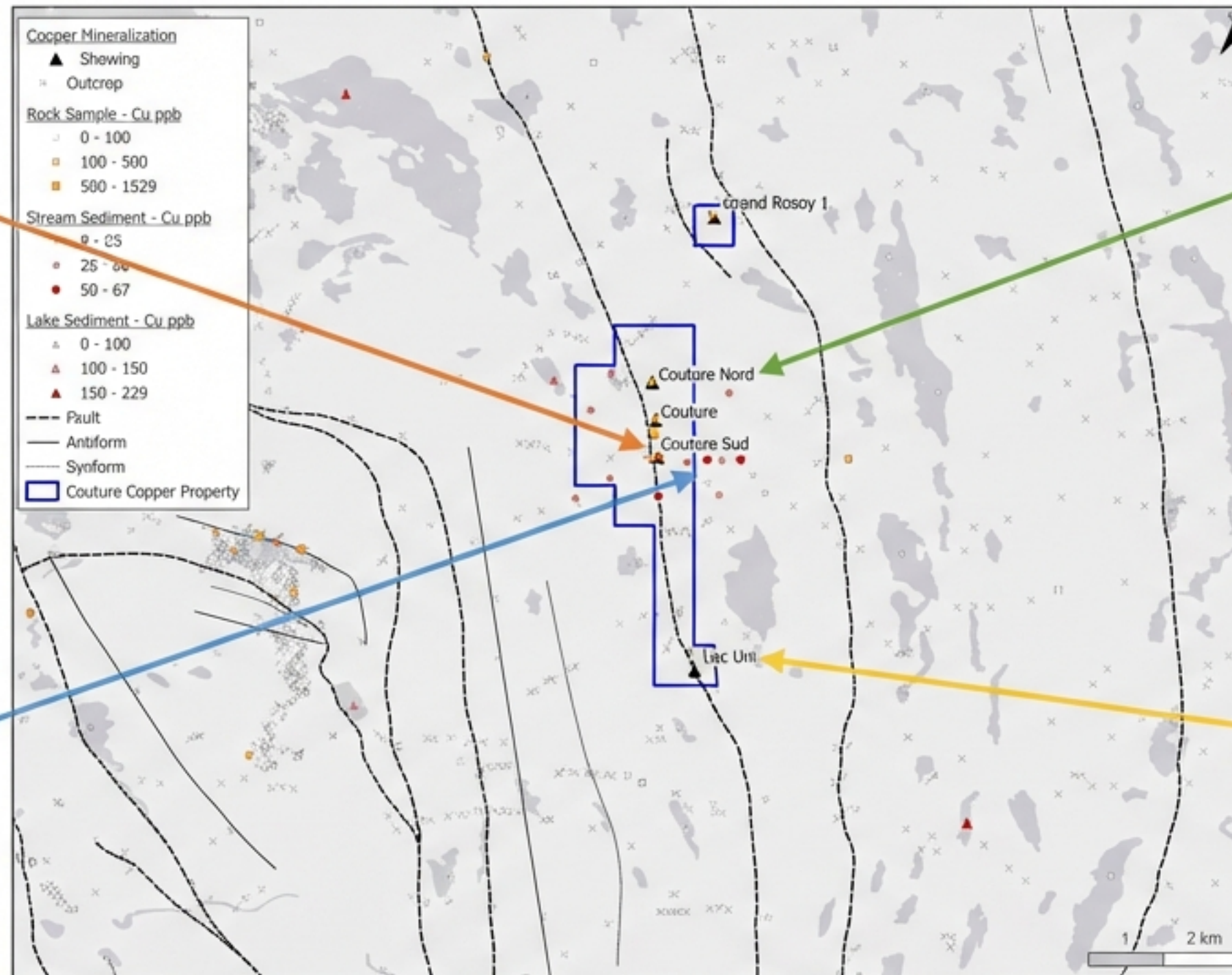
# Historical Mineralization: High-Grade Surface Confirmation

**Couture Showing:**  
Selective grab samples  
up to 65% Cu, 420 g/t  
Ag, 0.95 g/t Au, and  
0.24% Se.

**Couture Nord:**  
Grab sample returning  
0.81% Cu.

**Couture Sud:**  
Grab samples returning  
1.5% Cu and 1.4 g/t Ag.

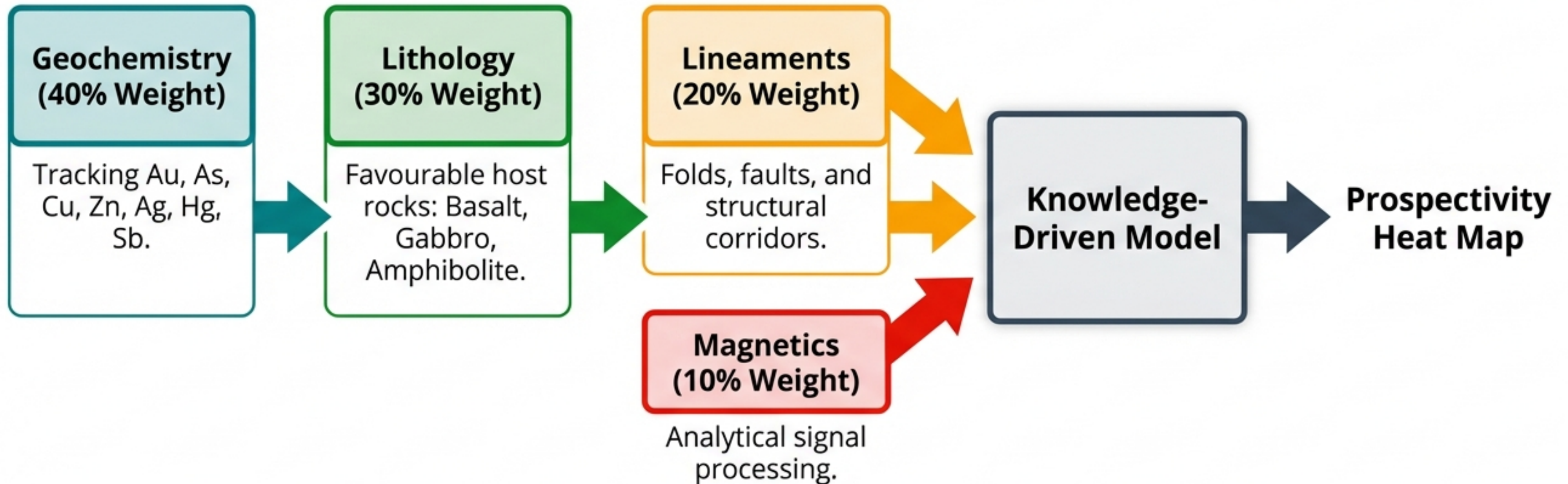
**Lac Uni:**  
Sample returning  
0.56% Cu.



**The Opportunity Gap:** Despite these grades, historical work has been limited to reconnaissance sampling (1980s-1990s) with no systematic drilling testing the depth or extensions.

# Methodology: Knowledge-Driven AI Prospectivity

Mercator utilized a proprietary AI tool to digest up to 500 layers of government geoscience data.



Objective: The model was specifically designed to identify anomalous copper and pathfinder elements along structures and favourable host units.

# Prospectivity Results: Validating the Model

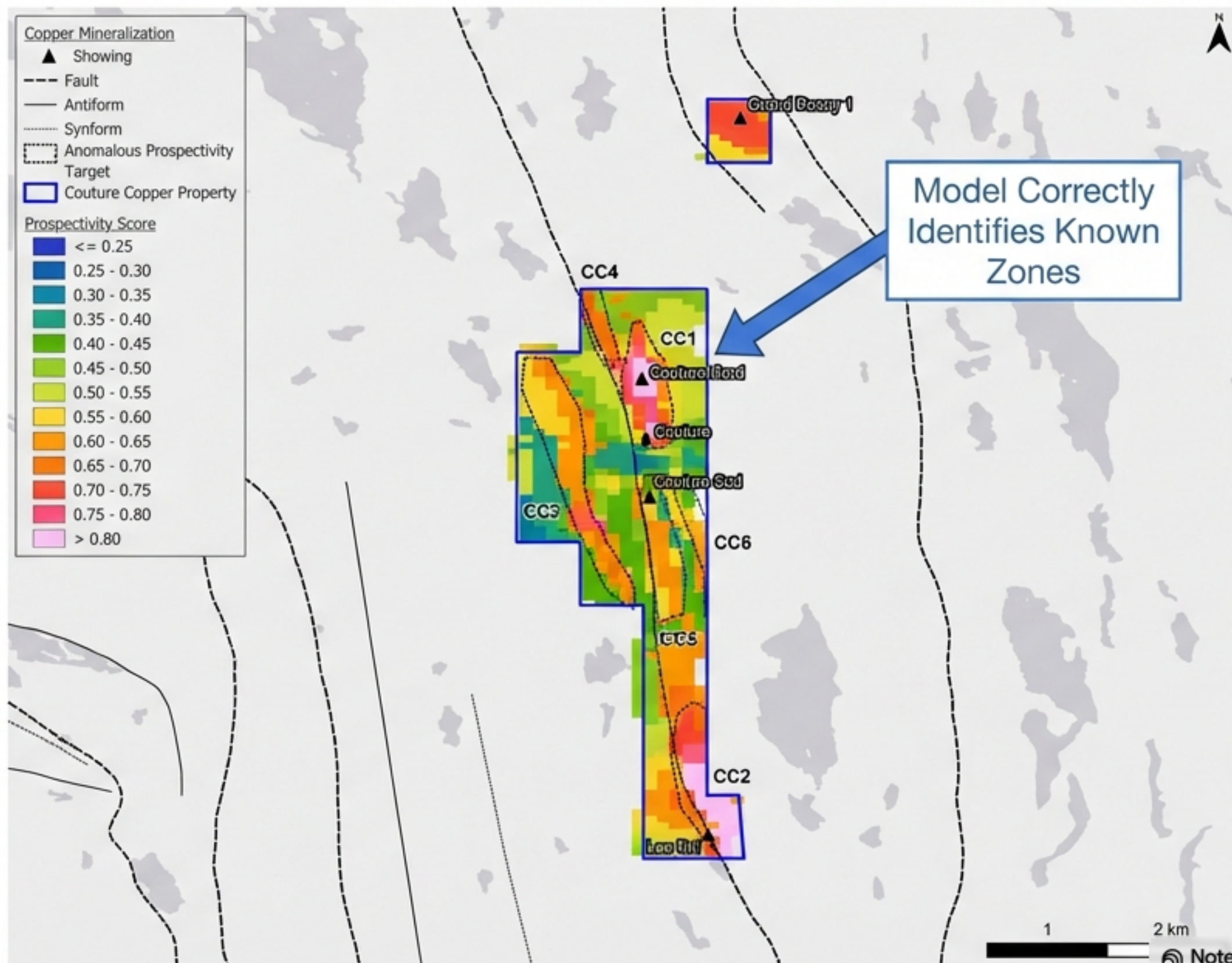
## Validation

The model generated a prospectivity score of  $>0.8$  (out of 1.0) for the known Couture Nord and Lac Uni areas.

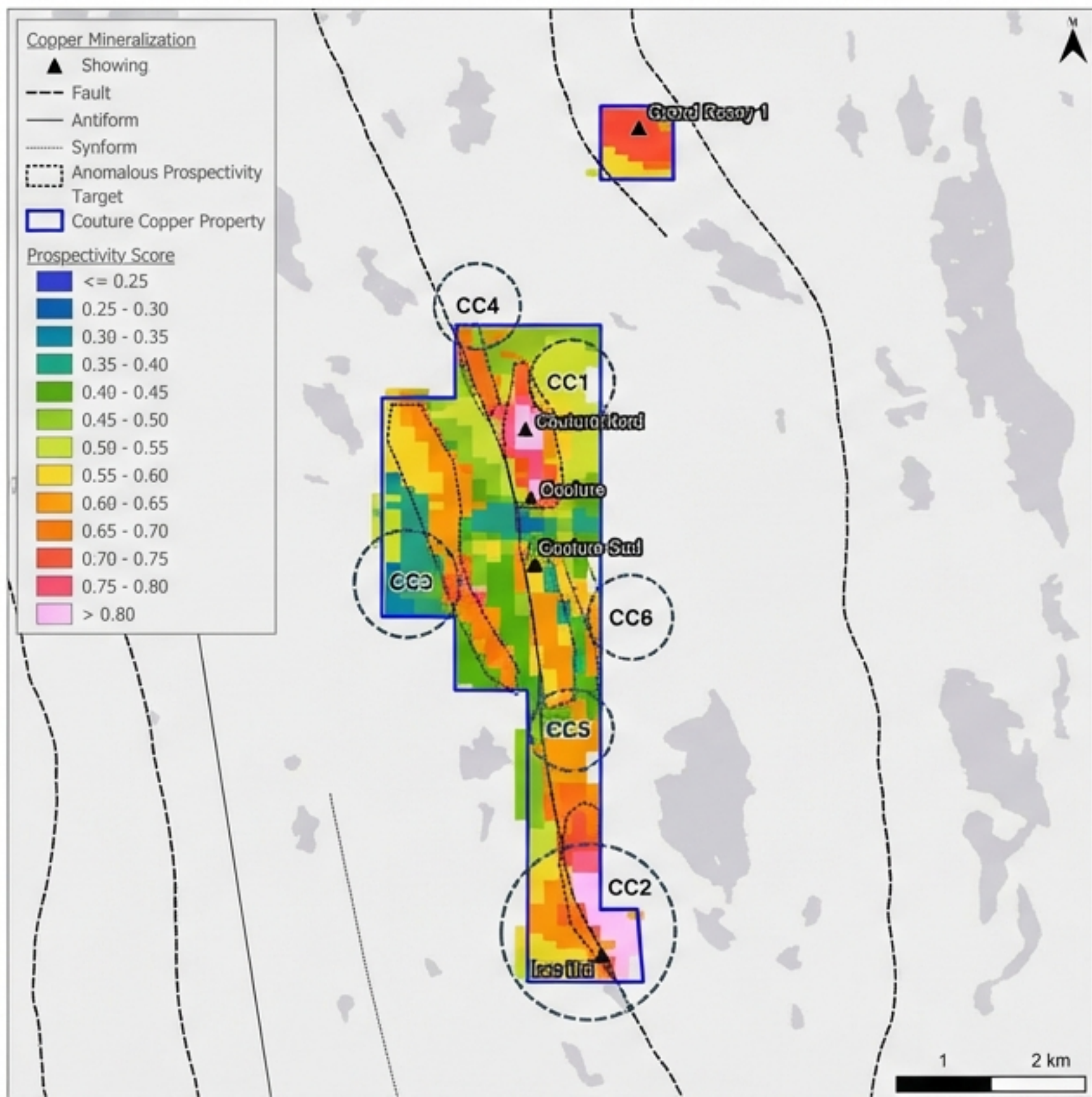
**Takeaway:** The algorithm successfully 'found' the known copper, proving its predictive capability.

## New Discovery Potential

The map reveals a strong North-South trend feature that hosts the known occurrences but extends into untested ground.



# Target Definition: CC1 through CC6



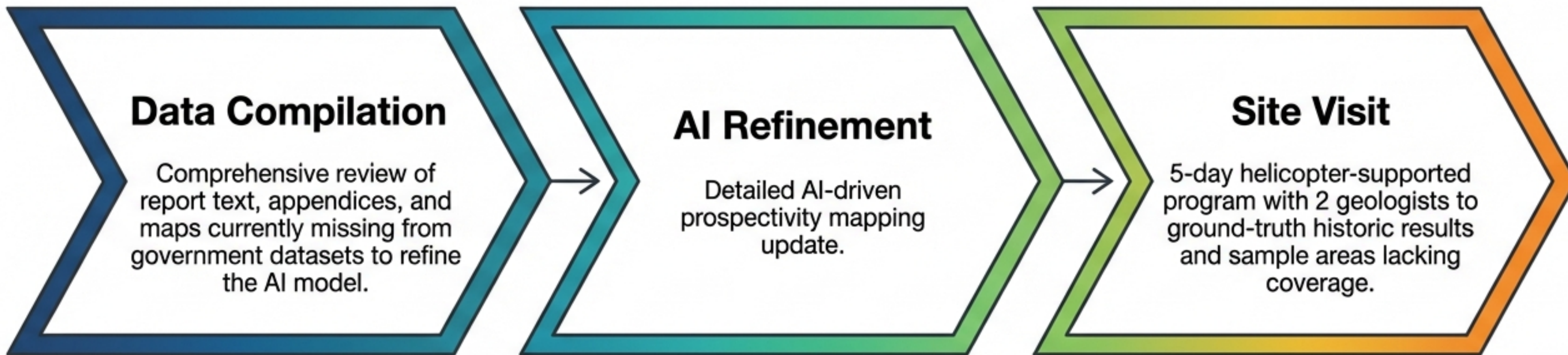
**CC1-CC6:** Six distinct new target areas identified along the main magnetic/shear trend.

**Grand Rosoy 1:** A strong target identified on a small claim block to the north of the main Couture group.

**Interpretation:** These targets represent potential extensions of the mineralized shoots or parallel structures that have never been sampled or drilled.

# Phase 1: Data Compilation & Ground Truthing

**Objective:** De-risk the project by recovering missing historical data and physically validating the AI targets.



**Estimated Cost: \$82,000**

**Duration: ~25 days total (field + office)**

BUDGET BREAKDOWN	
Item	Cost (\$)
Data Compilation (Mercator)	\$24,000
AI Refinement (DeepData)	\$12,000
Field Program (5 days)	\$38,000
Analyses & Reporting	\$8,000
Contingency (10%)	\$8,000
<b>Total</b>	<b>\$82,000</b>

# Phase 2: Drilling for Discovery

**Objective:** Test extensions of known mineralization and the new CC1-CC6 targets. (Contingent on Phase 1).

## Activity



### Ground Geophysics

20 days to refine drill collars (\$50k).



### Diamond Drilling

3,000 meters of core drilling (\$900k base cost).



### Support

Helicopter support, core logging, sampling, and assaying.

## Financials

**Estimated Cost: \$1,309,000**

**Timeline:** Field program approx. 40 days.

BUDGET	
Item	Cost (\$)
Drilling	\$900,000
Helicopter	\$250,000
Personnel	\$159,000
<b>Total</b>	<b>\$1,309,000</b>

# Conclusion & Path Forward

## High-Grade Foundation 01

Confirmed 65% Cu in grab samples establishes a potent mineralizing system.

## Structural Integrity 02

A clear 12km shear trend connects known showings to new targets.

## Modern Upside 03

AI modeling has unlocked 6 new high-priority targets (CC1-CC6) + Grand Rosoy 1 that previous explorers missed.

## Clear Roadmap 04

A phased approach allows for low-cost validation (\$82k) prior to committing significant capital (\$1.3M) to drilling.

# Appendix: Land Tenure & Claim Status

Name	Number	Renewal Date
NQC Lithium Corp.	2837898	2027-10-15
NQC Lithium Corp.	2837899	2027-10-15
NQC Lithium Corp.	2837900	2027-10-15
NQC Lithium Corp.	2837901	2027-10-15
NQC Lithium Corp.	2837903	2027-10-15
NQC Lithium Corp.	2838502 through 2838512	2027-10-23
NQC Lithium Corp.	2844700	2028-03-05
NQC Lithium Corp.	2837904	2027-10-15

Total 19 Mineral Claims held by NQC Lithium Corp.