

VORTEX  
METALS

TSX.V: **VMS**

October 2022



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No securities regulatory authority in Canada, the United States of America or any other jurisdiction has reviewed or in any way passed upon this presentation or the merits of the Offered Securities and any representation to the contrary is an offence.

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This Presentation contains “forward-looking information” within the meaning of applicable Canadian securities laws. This information and these statements, referred to herein as “forward looking statements”, are made as of the date of this Presentation or as of the date of the effective date of information described in this Presentation, as applicable.

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## Confidentiality; Forward-Looking Statements

Generally, forward-looking information can be identified by the use of forward-looking terminology such as "plans", "expects", or "does not expect", "is expected", "budget", "scheduled", "estimates", "projects", "targets", "forecasts", "intends", "anticipates", or "does not anticipate", or "believes" or variations (including negative and grammatical variations) of such words and phrases or state that certain actions, events or results "likely", "may", "could", "would", "might", or "will be taken", "occur", or "be achieved". Forward-looking information is based on the opinions and estimates of management at the date the information is made, and is based on a number of assumptions and is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward looking information, including without limitation: (i) the Company is subject to changes in Canadian laws, regulations and guidelines which could adversely affect the Company's future business and financial performance; (ii) the Company may not be able to effectively manage its growth and operations, which could materially and adversely affect its business; (iii) the Company may be unable to obtain additional financing on acceptable terms or not at all;

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future-oriented financial information and financial outlooks. Future-oriented financial information and financial outlooks, as with forward-looking information generally, are, without limitation, based on the assumptions and subject to the risks set out above. The actual financial position and results of operations may differ materially from management's current expectations and, as a result, the Company's revenue and profitability may differ materially from the revenue and profitability profiles provided in this presentation. Such information is presented for illustrative purposes only and may not be an indication of the Company's actual financial position or results of operations.

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(IFRS) as issued by the International Accounting Standards Board (IASB), are not defined by GAAP and do not have standardized meanings that would ensure consistency and comparability among companies using these measures.

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# Over C\$4 Million Raised for Highly Anticipated Copper - Gold Drill Programs



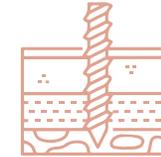
## Ground floor investment

Ground-floor investment opportunity with exploration team responsible for multiple discoveries



## High grade targets

Multiple High Grade Copper/Gold Targets Identified by Coincident Geology, Geochemistry and Geophysics



## Drill ready

Two Drill-Ready Projects in Emerging Volcanogenic Massive Sulphide (VMS) Belt



## Permits

Permitting Underway, Drilling Scheduled for Q4 '22 – Q1 '23



## Experts

Expert capital markets and technical team partnering to drive shareholder value and Copper Gold discoveries



## CAD \$4 million raised

Over CAD\$4 Million Raised @ \$0.20 Per Share, with \$12,000,000 Post Financing Valuation. Management and Associates Hold 46% of Issued and Outstanding Stock



# Fulfilling The Legacy of the “Mine Finder”

The story of Vortex Metals started with the vision of the late **David Jones**, a renowned geologist credited as spearheading the discovery of **7.43 million ounces of gold and 52.54 million ounces of silver** in what eventually became known as **Los Filos**, one of the **world’s largest gold deposits** (now owned by  EQUINOX GOLD )

Jones was a recognized skarn expert and created the geological model responsible for multiple discoveries in what is now known as the 20-million-ounce Guerrero Gold Belt in Mexico, earning him the **moniker “mine finder”**.

Jones believed that both the Riqueza Marina- Zaachila (RQMZ) copper-gold projects, in Oaxaca, currently owned by **Vortex Metals** (TSXV:VMS), would be his next significant discovery and had personally curated five high-potential targets in his work toward discovering the next large mineralized system.



## **Los Filos Mine**

**7.43 million** ounces of gold &  
**52.54 million** ounces of silver

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## **David Jones**

The “Mine Finder”





# Vortex Metals Co-Founders Team

## The Late David Jones

Vortex Metals original founder and discoverer of the Guerrero Gold Belt, David M. Jones, had an unmatched passion for geology throughout his storied 40-year career. Credited with the discovery of one of the world's largest gold mines, Los Filos in Mexico (estimated resource of 7.43 million ounces of gold and 52.54 million ounces of silver), David created a geological model that has since been responsible for finding over 30 million ounces of gold. David strongly believed that the property package assembled in the state of Oaxaca, now owned by Vortex Metals, was one of the best exploration prospects he had put together, and had personally curated five high-potential targets in his work toward discovering the next large mineralized system. The Vortex Metals team will continue to build on David's legacy and turn his vision for the company into a reality.

## Michael Williams

Michael Williams has over 24 years of experience as a senior executive within the mining industry. He is experienced in the structuring, administrating and marketing of Toronto Stock Exchange listed companies. Mr. Williams has held the role of Executive Chairman of numerous public companies including Underworld Resources Ltd, which was sold to Kinross Gold Corp for \$138,000,000. Mr. Williams has raised significant capital funds for advanced exploration and development projects worldwide. He currently serves as a director, President and CEO of Vendetta Mining Corp as well as being a Founder and Executive Chairman of Aftermath Silver.

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## Vikas Ranjan

Vikas Ranjan is a management professional with an MBA in Finance from McGill University, Montreal, Canada. His background includes over 25 years experience in diverse areas of finance, capital markets, entrepreneurship and investing. He is a co-founder of Gravitax Group of companies and his experience encompasses working in senior executive roles, both in Canada and India. Mr. Ranjan has been involved in launching several public and private enterprises in the areas of capital markets and growth investing. He currently serves on the boards of several public and private companies.

# VMS Project



Vortex Metals controls two of three high potential VMS exploration plays in the region.

Renowned VMS expert, Jim Franklin has proposed that the geological setting is similar to the world class Noranda VMS Camp.

Multiple high grade drill targets identified at each project supported by geology, geochemistry and geophysics.

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- VMS Deposits
- Vortex Metals Early Exploration Projects
- Sierra Madre VMS Belt
- Oaxaca VMS Belt

# RQMZ Project Location Map

Multiple High-Grade Drill Targets

Drill Permitting Underway

Access to infrastructure

Local Support

-  Railway
-  Transmission line
-  Wind Farm
-  Deep Water Port

 **RIQUEZA MARINA**

 **ZAACHILA**





# Our Sustainable Commitment



Clean Water  
& Sanitation



Decent Work  
& Economic Growth



Responsible Consumption  
& Production



Life on Land



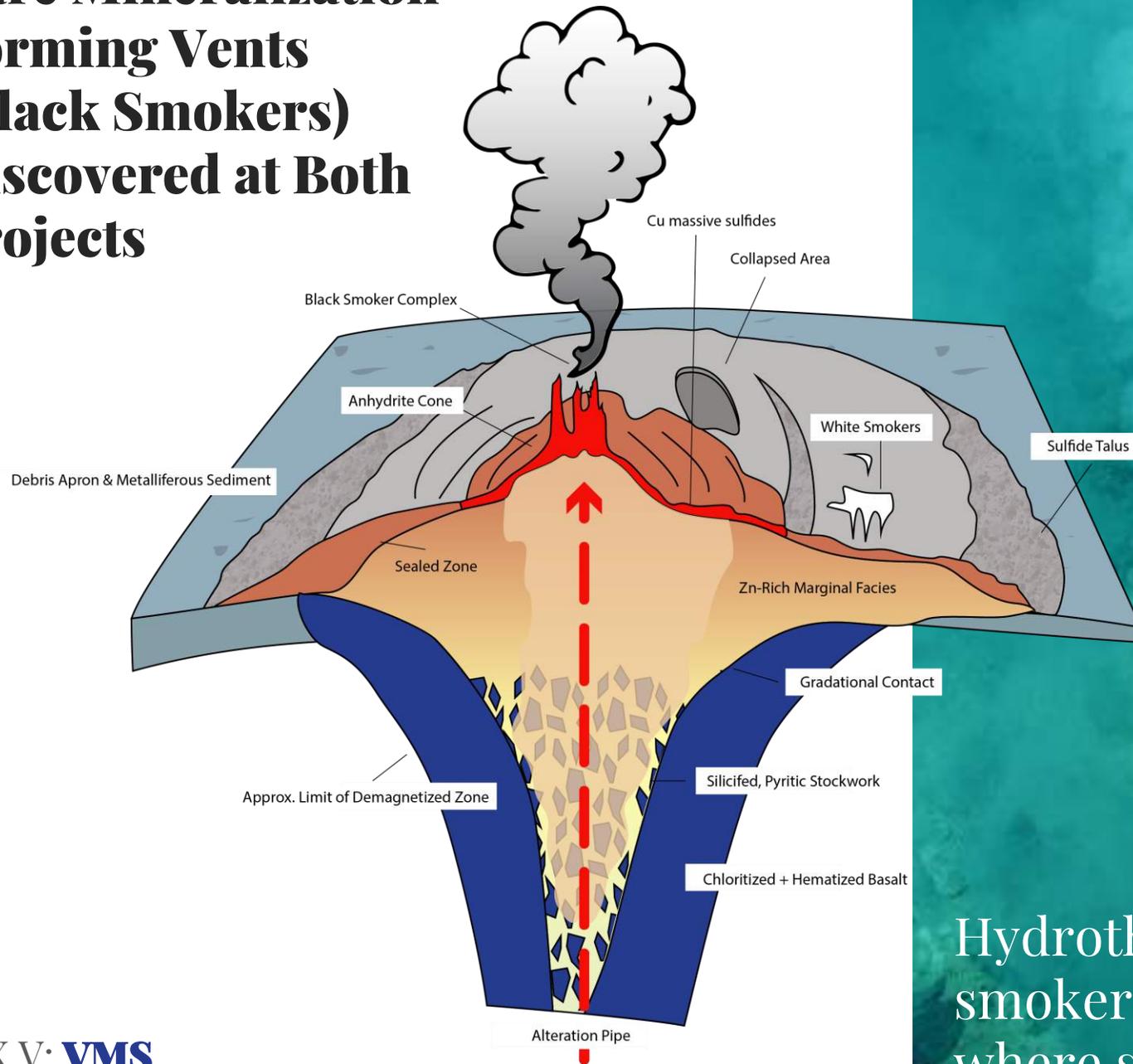
Industry, Innovation  
& Infrastructure



Climate Action



# Rare Mineralization Forming Vents (Black Smokers) Discovered at Both Projects



Hydrothermal vents (black smoker) create VMS Deposits – where seawater meets magma



# Riqueza Marina Copper & Gold Host Project



Cretaceous meta-volcanic and sedimentary VMS rocks, including mafic pillow basalts, andesites, rhyolite tuffs/flows/domes, and extensive silica exhalites



Analogous to large VMS deposits in Latin America, including Tambo Grande, San Nicholas, and Campo Morado.



Five high potential target areas have been identified on the basis of geology, geochemistry, and geophysics



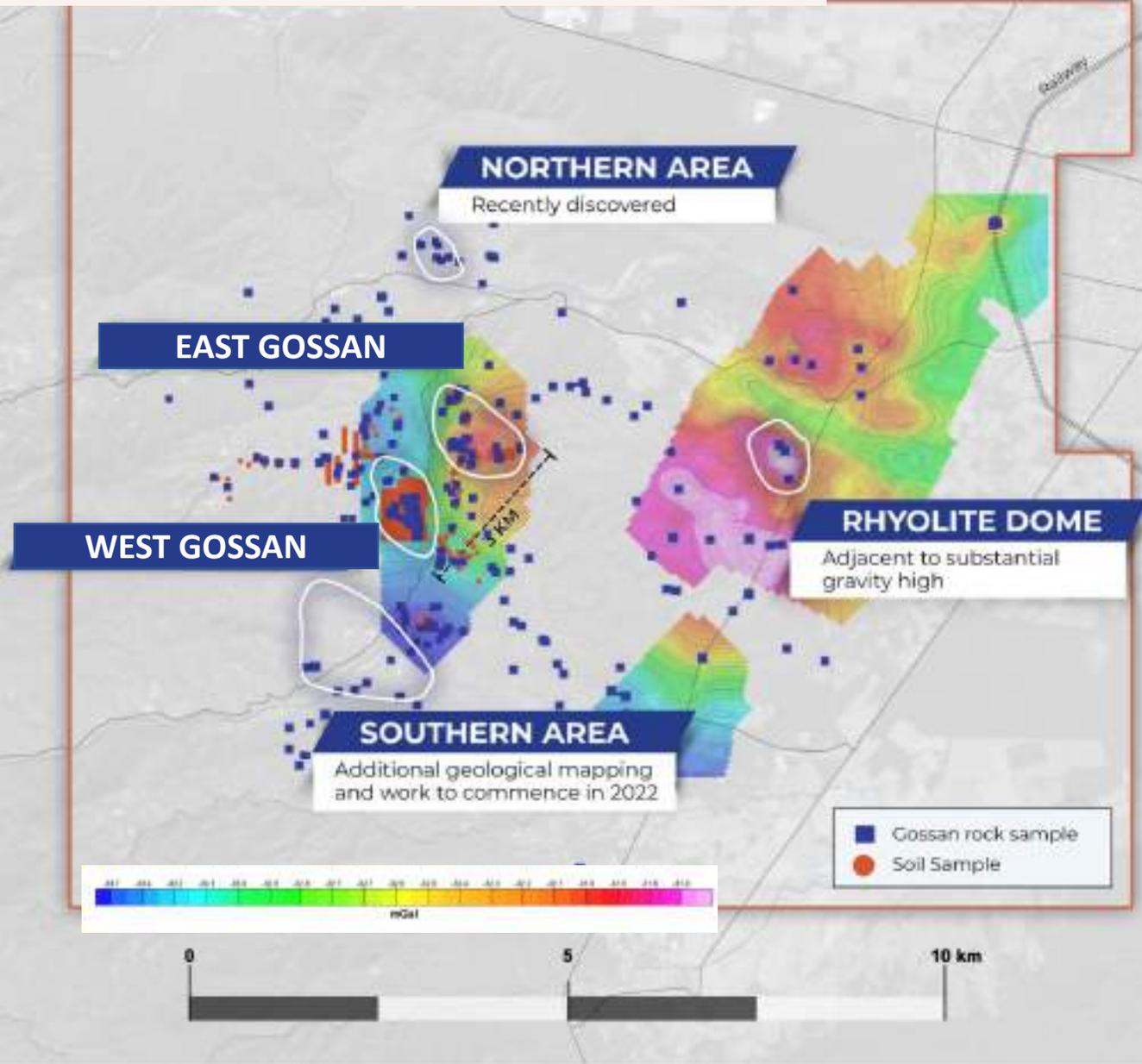
Three mineral leases totaling 12,041 hectares



Targets Drill Ready



# Riqueza Marina Target Areas



Extensive outcrops and subcrops of high-grade mineralized (Cu-Au-Pb-Zn) gossan occur along a 3km strike length at priority West and East Gossan targets

Multiple areas of high-grade (>0.5% Cu) surface mineralization

Large Gravity Anomalies may represent buried massive sulfide horizons

Substantial gravity high adjacent to a mineralized 'Rhyolite Dome'



# Copper Mineralization

## West and East Gossan Targets

Project Samples to date:

**863** Rock chip samples

**740** Soil samples (*XRF analyses*)

**46** Stream sediment

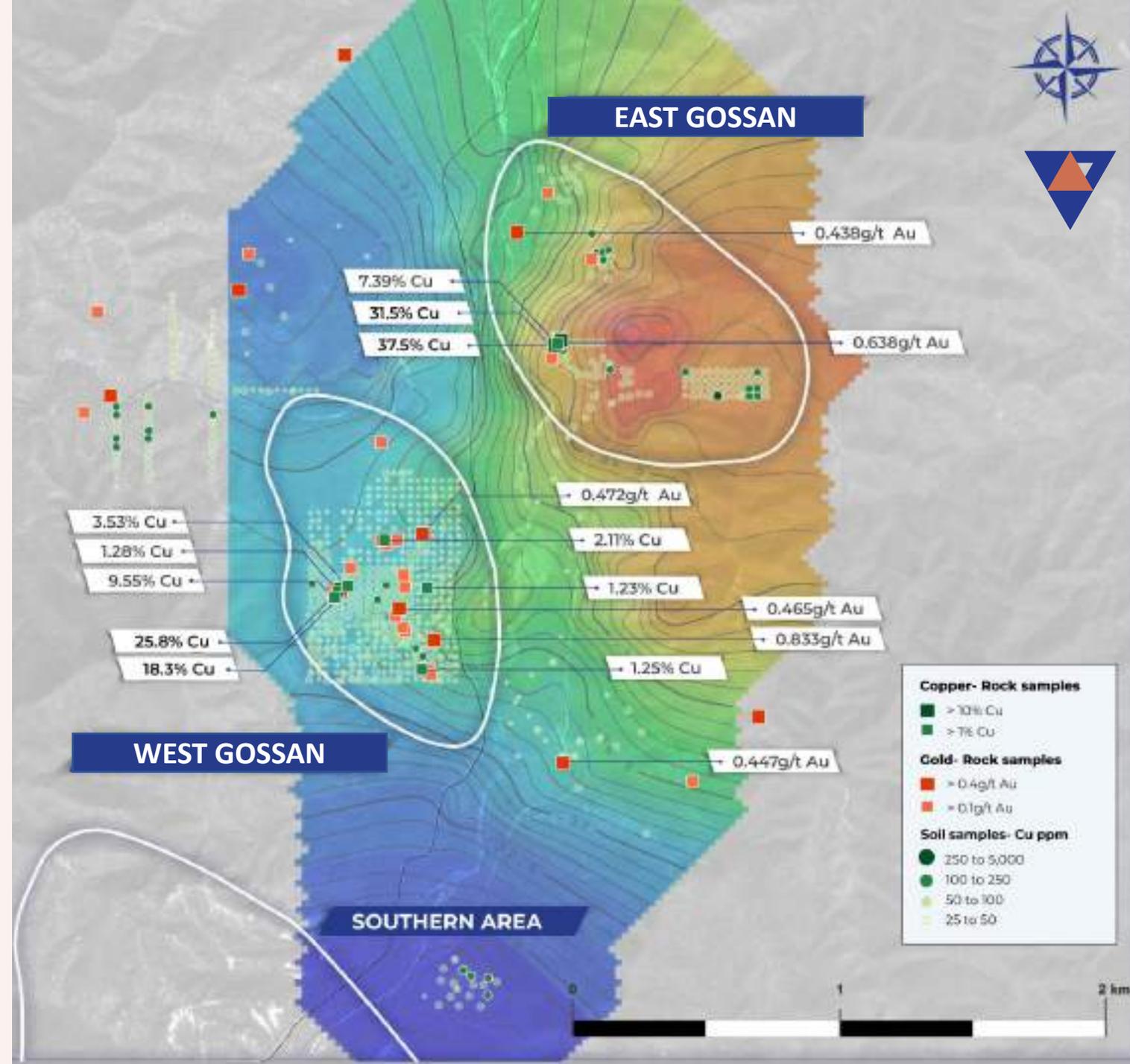
**All true gossan samples  
(n=229) are mineralized**

### Copper

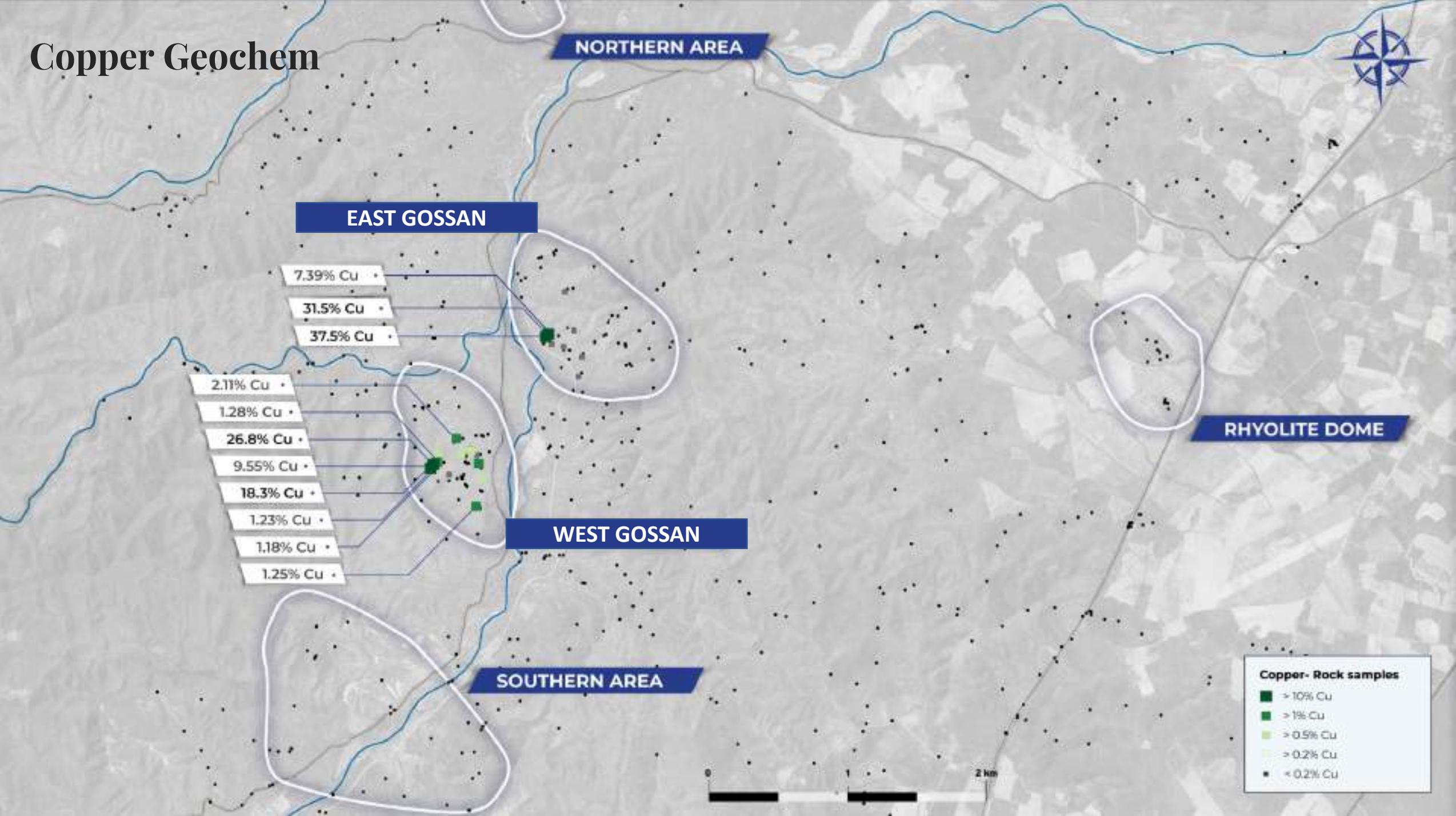
- 10 (4.3%) > 10% Cu
- 26 (11.4%) > 1.0% Cu
- 59 (25.8%) > 0.5% Cu
- 97 (42.4%) > 0.2% Cu

### Gold

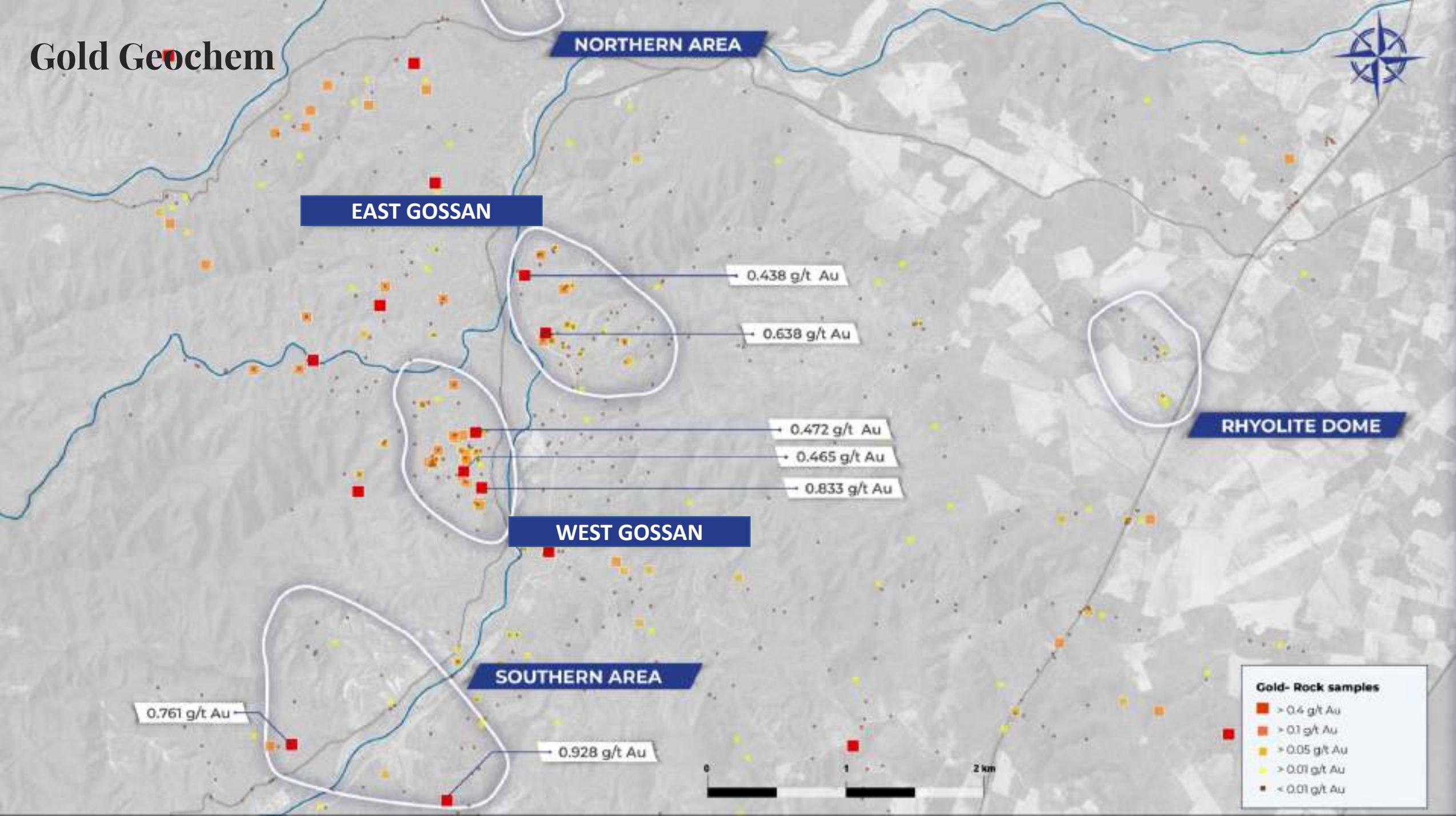
- 1 (0.4%) > 2.0 g/t Au
- 13 (5.7%) > 0.2 g/t Au
- 17 (7.4%) > 0.1 g/t Au



# Copper Geochem



# Gold Geochem



NORTHERN AREA

EAST GOSSAN

WEST GOSSAN

SOUTHERN AREA

RHYOLITE DOME

0.761 g/t Au

0.928 g/t Au

0.438 g/t Au

0.638 g/t Au

0.472 g/t Au

0.465 g/t Au

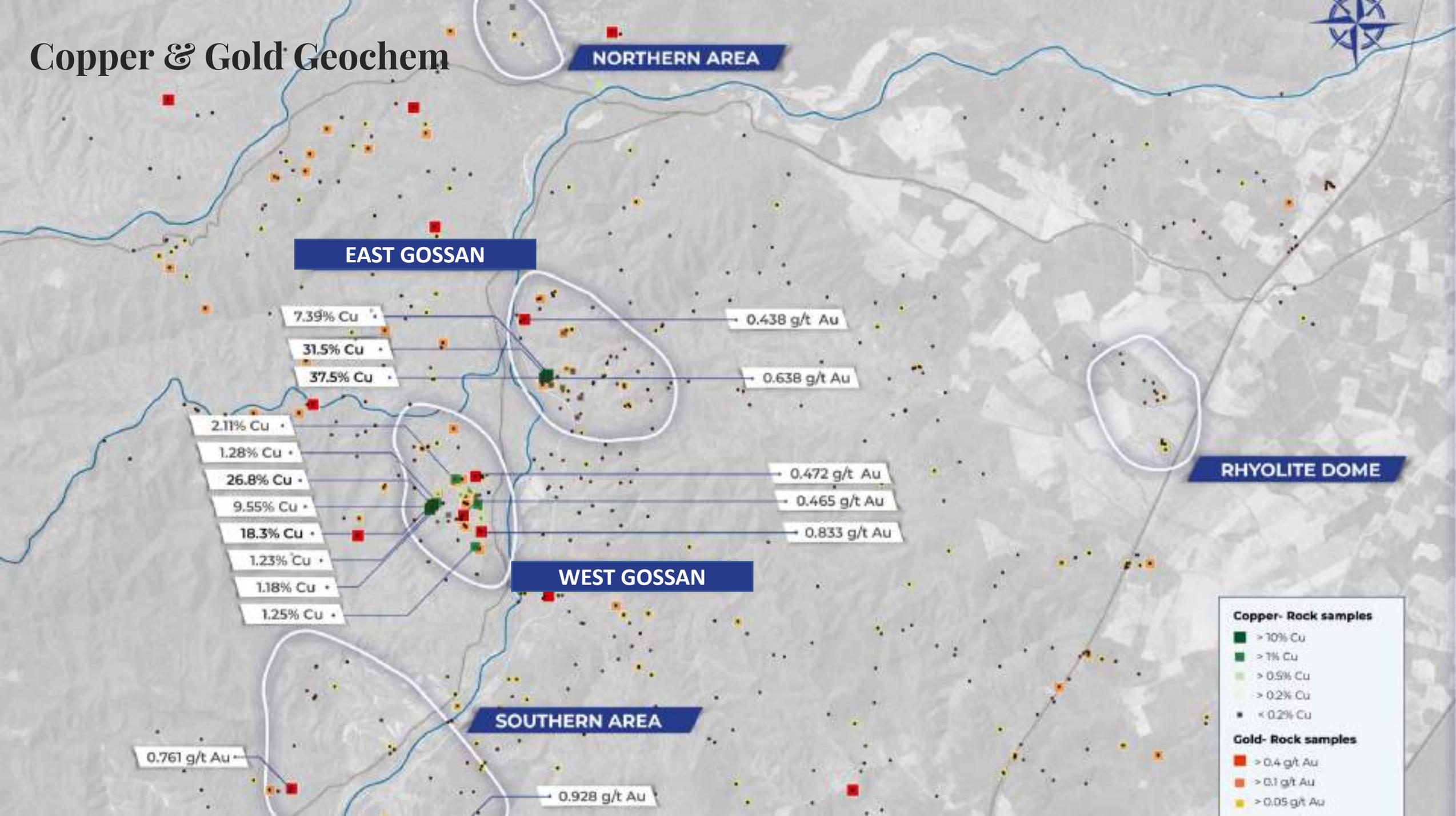
0.833 g/t Au

**Gold- Rock samples**

- > 0.4 g/t Au
- > 0.1 g/t Au
- > 0.05 g/t Au
- > 0.01 g/t Au
- < 0.01 g/t Au



# Copper & Gold Geochem



# Comparison of **Riqueza Marina** and **San Nicholas** Gravity Anomalies at Same Scale

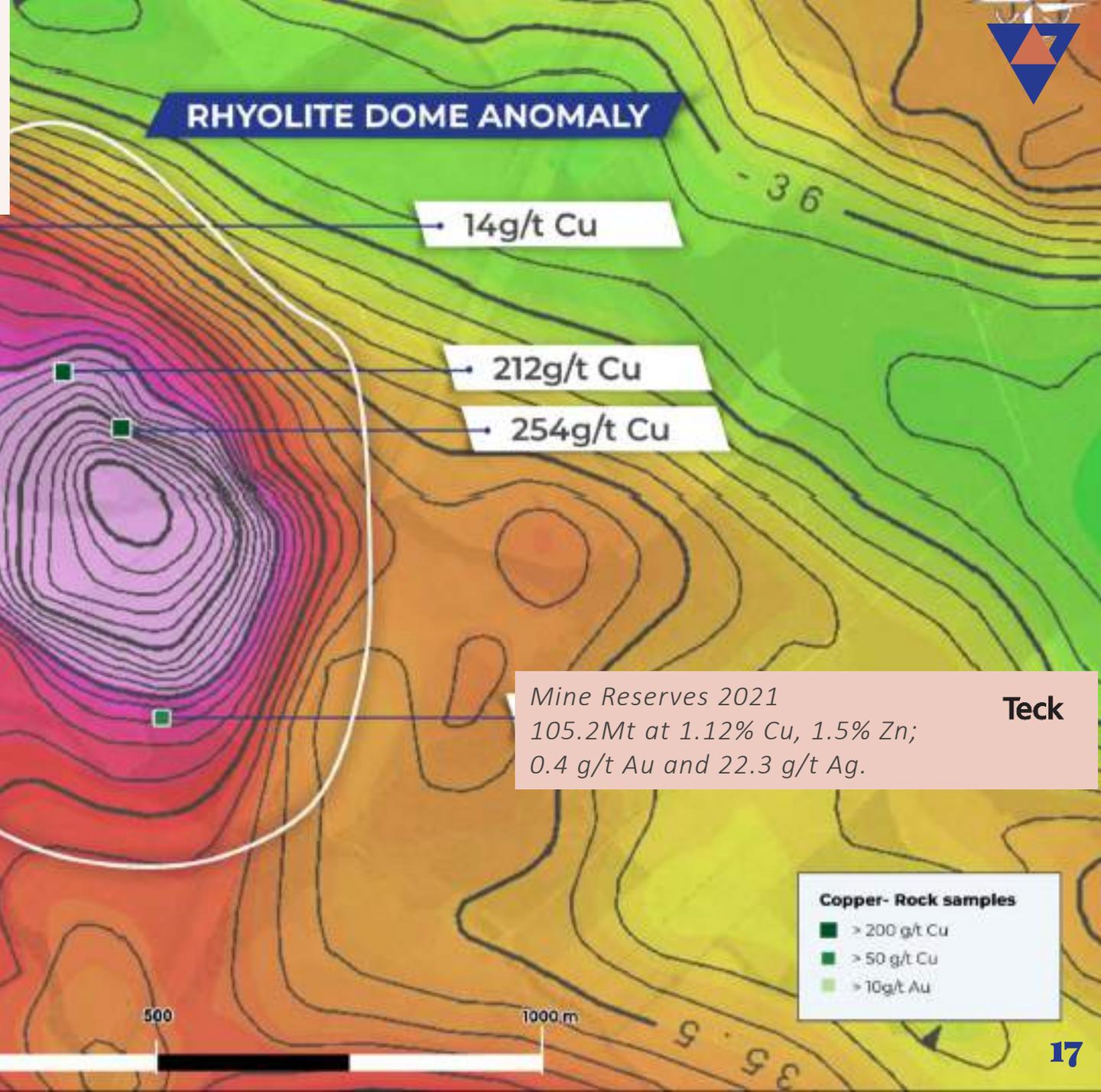


## San Nicolas, Zacatecas

High grade, open pit operation with 3-4 year timeline to production • Low first quartile costs, offering quick payback • 2016 drill program and scoping study improved understanding and augmented value

## Riqueza Marina: Rhyolite Dome anomaly

Anomalous Cu samples above ~100 (blue) and ~300 (green) ppm Cu





# Zaachila Project Copper

## *Gold Host Project*



**3,264**

hectare mineral lease



**5 km**

trend of Copper-Gold surface mineralization  
identified through sampling



**Coincident gravity**

and magnetic anomalies identified along  
principal mineralized trend



**Geochemical targeting**

analysis by renowned VMS expert Jim Franklin



# Zaachila Claim

## Target Area

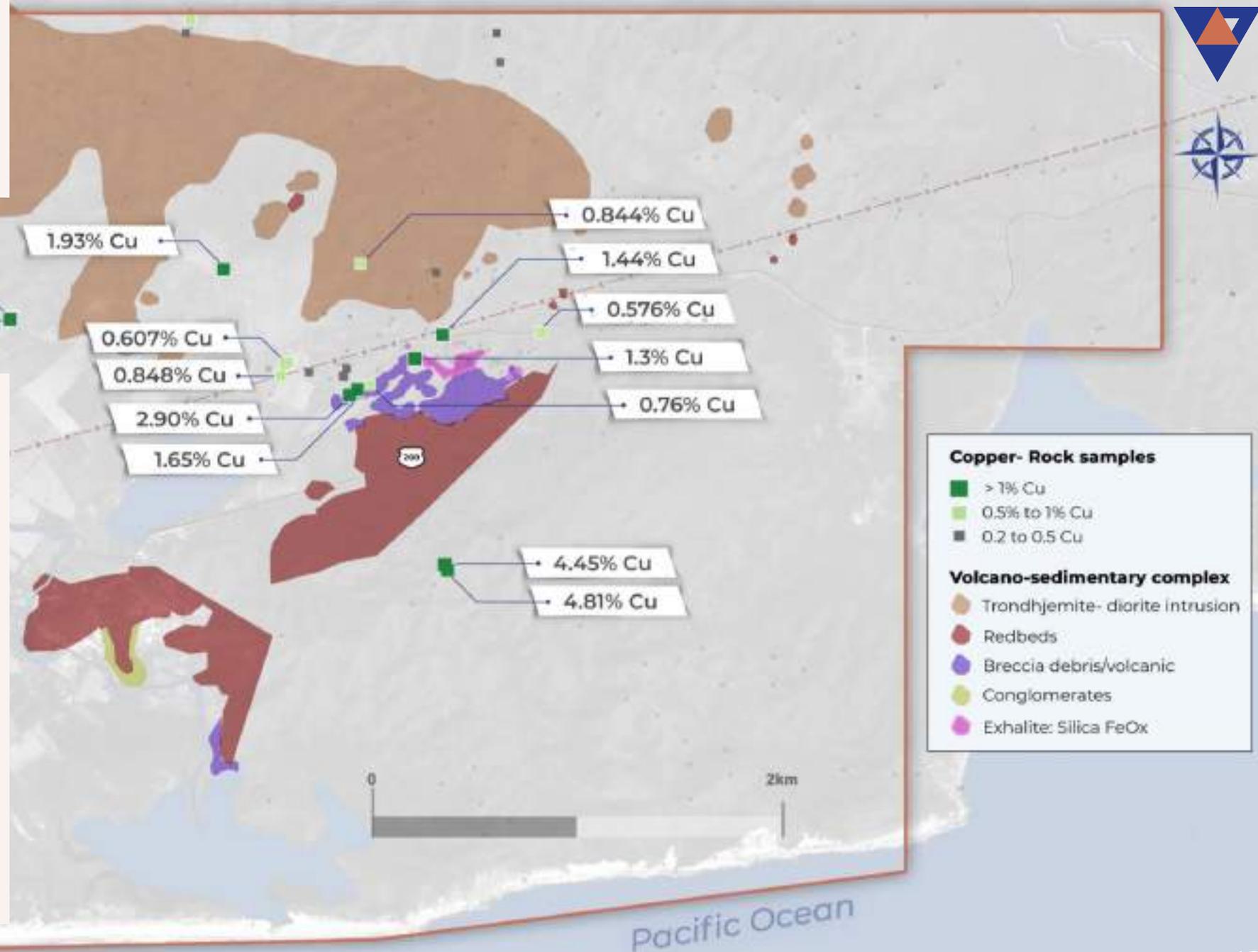


Rocks consist of Cretaceous meta-volcanic and sedimentary rocks which include pillow basalts, andesites, rhyolite tuffs/flows/domes, and an extensive silica exhalite horizon.

The volcano-sedimentary complex is intruded by a large trondhjemite- diorite intrusion

Surface copper mineralization occurs along a >5 km trend in stratigraphic horizons adjacent to trondhjemite complex

The mineralized system is classified by Jim Franklin as 'bimodal mafic', similar to Noranda Camp (Canada) deposits, and large VMS deposits in Latin America, including Tambo Grande, San Nicholas, and Campo Morado.



# Anomaly Zaachila Project

## Ground Gravity Survey



 = Visible surface Cu mineralization

### Gravity Survey Results

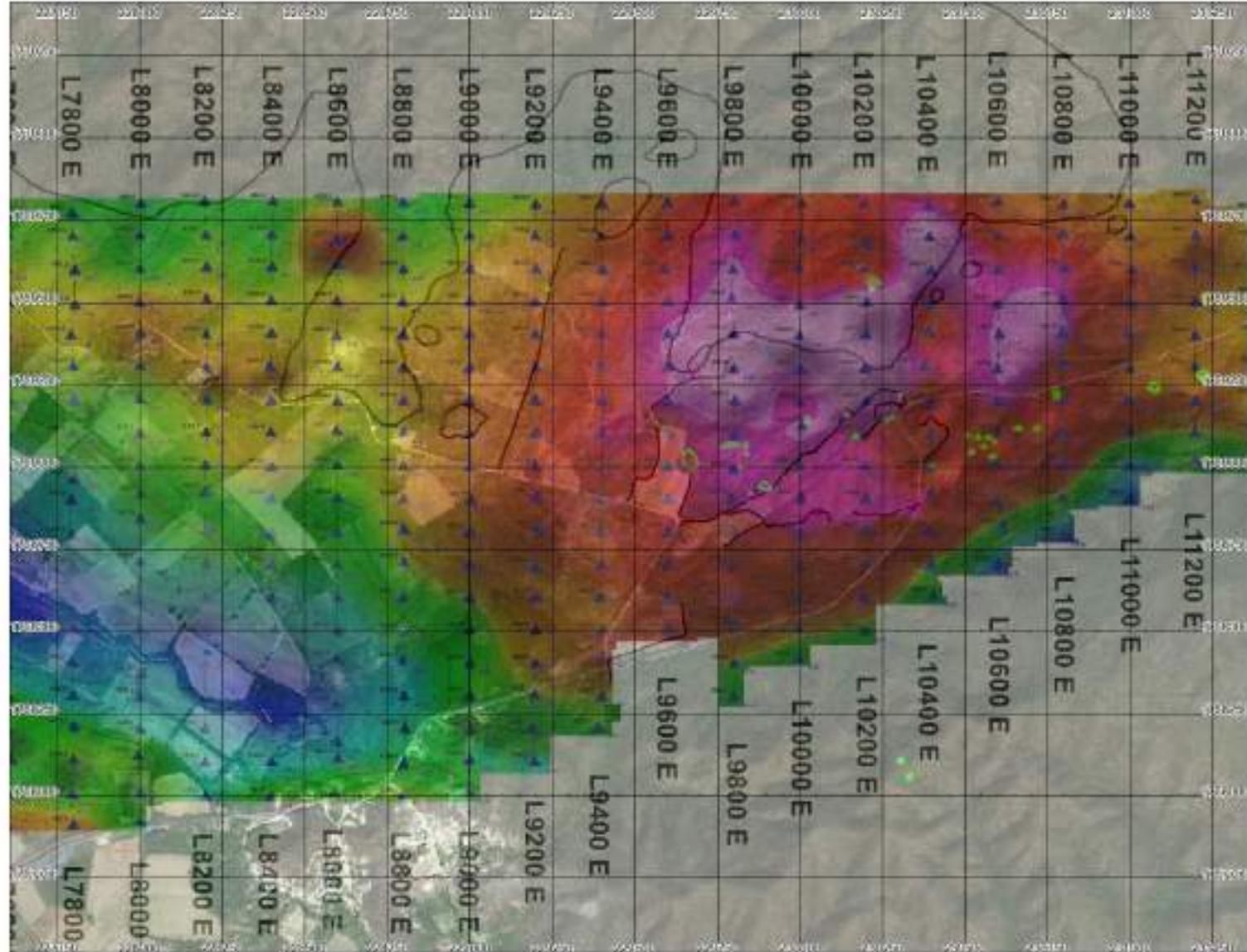
1.5 x 1 km gravity anomaly is centered adjacent to the most persistent and extensive surface shows of Copper mineralization

Anomaly may be related to VMS sulfide horizons and/or to the more mafic margins of the tonhjemite complex

Pronounced 3 km linear magnetic low is centered directly beneath the most persistent and extensive surface shows of copper mineralization

Anomaly is likely related to magnetite destruction in the presence of strong hydrothermal fluid flow

Magnetite destruction is typical in principle fluid conduits associated with VMS deposits and as well in active seafloor 'smoker' hydrothermal fields





# Proposed Potential 1st Round Drill Hole Targets on Gravity Anomaly

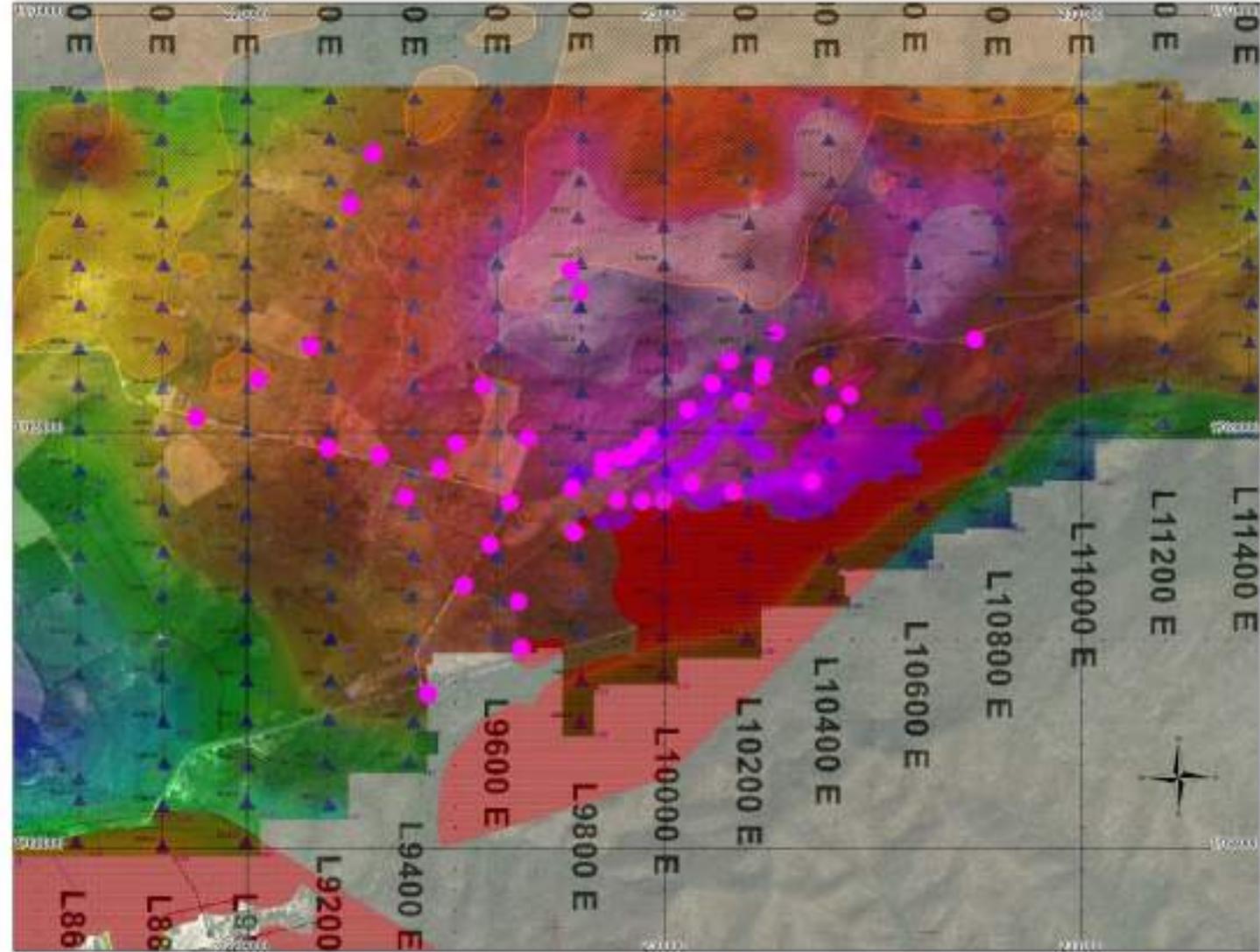
## *Zaachila Project*

Minimum 2000 meters of proposed 1st round drilling

Drilling will focus on surface copper mineralization within the multiple kilometer trend

Drilling will also target the magnetic and gravity anomalies

Drilling to commence Q4 2022



# Pro Forma Capital Structure

TOTAL

## Shares Outstanding

*(Post Financing)*

**60,080,059**

## Warrants and options

*(Exercise Price C\$0.20)*

**6,639,900**

## Founders & Insiders

*(46% post money)*

**28M shares**





# Management Team

## Vikas Ranjan,

Chief Executive Officer And Director

Mr. Ranjan is a management professional with an MBA in Finance from McGill University, Montreal, Canada. His background includes over 25 years experience in diverse areas of finance, capital markets, entrepreneurship and investing. He is a co-founder of Gravitass Group of companies and his experience encompasses working in senior executive roles, both in Canada and India.

Mr. Ranjan has been involved in launching several public and private enterprises in the areas of capital markets and growth investing. He currently serves on the boards of several public and private companies.

## Robert Johansing,

Senior Geologist

Robert Johansing has over 40 years of experience as a mining and mineral exploration geologist. With an M.Sc. in Economic Geology from Colorado State University, he has worked on many notable exploration and mining projects across Mexico, Central and South America, including the start-up of the El Dorado project in El Salvador where he worked as Project Manager until 2002 in the development of a 1.5M ounce gold resource from high-grade, epithermal veins. After spending 25 years in Latin America, Rob co-founded a non-profit company to build mining-related community enterprises to mitigate poverty in marginalized communities.

## Roger He,

Chief Financial Officer

Roger He is a finance and accounting professional with a Msc in finance from Simon Fraser University, BC, Canada. His background includes over 10 years' experience in diverse areas of assurance, accounting, corporate finance, capital market, and investing. He is a partner of GIC Merchant bank and his experiences encompasses working in varieties of finance and accounting senior executive roles. Mr. He has extensive experiences to seek growth capital from oversea institutions. He currently serves on the board of numbers of public companies and private companies. He is a CPA with practitioner license and a member of CFA.



# Directors & Advisors

## John Larson,

Director

John Larson is an executive with 42 years international experience in exploration, mining and resource/reserve/mine development. Mr Larson has worked with government geological surveys, junior mining companies and major international minerals companies, including 16 years with BHP and BHP Billiton in various international locations, holding positions as Manager, North America Copper Exploration, Leader, Global Porphyry Copper Exploration, and Manager, Latin America Exploration. He served as General Manager, Exploration, Zinifex Ltd., Australia, where he built a broad portfolio of base and precious metals projects in 8 countries. From 2008 to 2010 he was Corporate Manager, Exploration for Hochschild Mining PLC of Peru developing a new program of international exploration throughout the Americas from Canada to Patagonia. He has served on the board of four junior explorers.

## Michael Williams,

Executive Chairman

Michael Williams has over 24 years of experience as a senior executive within the mining industry. He is experienced in the structuring, administrating and marketing of Toronto Stock Exchange listed companies. Mr. Williams has held the role of Executive Chairman of numerous public companies including Underworld Resources Ltd, which was sold to Kinross Gold Corp for \$138,000,000. He has developed an international banking and financing network that includes extensive contacts with both institutional and retail investors. Mr. Williams has raised significant capital funds for advanced exploration and development projects worldwide. He currently serves as a director, President and CEO of Vendetta Mining Corp as well as being a Founder and Executive Chairman of Aftermath Silver.

## Jim Franklin,

Advisor

James Franklin is a distinguished geoscientist who helped build and advance the knowledge base of Canada's minerals industry. He spent much of his career with the Geological Survey of Canada (GSC) documenting the complex evolution of the Canadian Shield and the link to its phenomenal mineral wealth. He was a pioneer in the development of models and techniques to guide exploration for volcanogenic massive sulphide (VMS) deposits and led ocean-based research of "black smoker" systems to understand how VMS deposits form. In addition to these technical contributions, which led to new mines and discoveries, Franklin served the minerals sector as a geological consultant, educator, author and lecturer, and industry ambassador.



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