

GOLD MOUNTAIN

ASX: GMN

A Focus on Niobium

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Brazil | Niobium & Rare Earth Projects

Gold Mountain has established a large footprint in two Rare Earth hotspots in Brazil, one which contains the world's largest resources of Niobium.

The company is now well-positioned to capitalise on its prime location and the rising demand for niobium and rare earth elements (REE).

These minerals are crucial in the production of high-strength magnets that are used to produce electric vehicle motors, wind turbines, and various high-tech applications.

The Araxá REE-Niobium Project

- Known carbonatites recognised from magnetics, radiometric and structural signatures.
- GMN recognised more carbonatite signatures
- Stream sediment sampling program commencing early April 2025





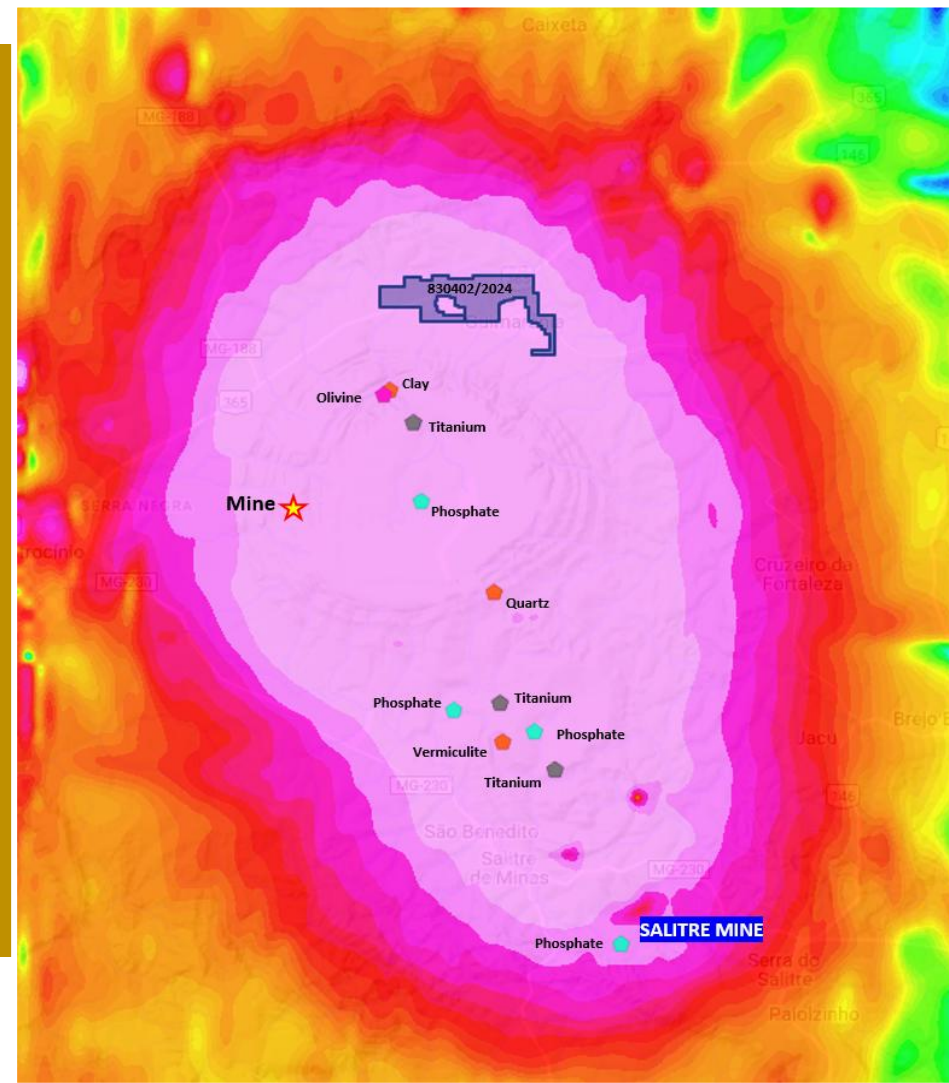
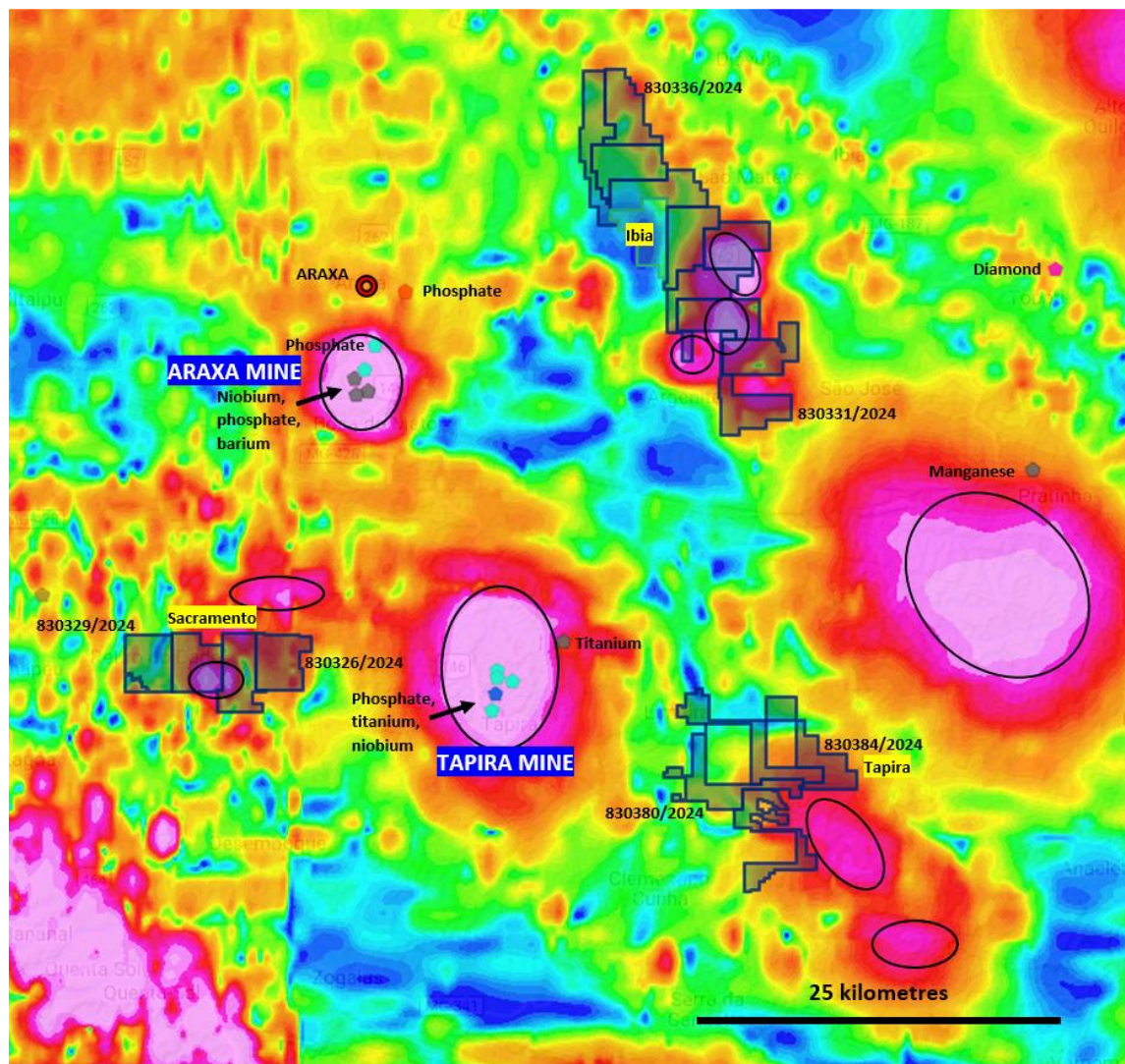
Araxa REE Niobium Project

Araxá Project Overview

- 20 tenements (19 granted) covering 388 km² of highly prospective ground
- Intense magnetic and radiometric **anomalies similar to** those over the **Araxá mine carbonatite** in tenements.
- Tenements **cover the carbonatite type magnetic and radiometric signatures** as well as parts of the outer hydrothermally altered wall rocks zone of the carbonatites
- The Araxá region contains the largest niobium mine in the world hosted by a carbonatite complex near Araxá. **The mine contains 94% of the world niobium reserves and Brazil has 82% of the world market for niobium.**
- There is a **need for diversity of supply** and growth rates for niobium consumption are driven by high technology applications including electrification and weight reductions in steel structures.



Araxá Project Overview



Relationship between the major mines at Araxá, Tapira and Salitre and GMN tenements which have similar carbonatite like responses within or adjacent to them recognised by magnetic, radiometric and structural signatures with alteration halos up to 2.5 km wide

Alto Parnaíba Igneous Province | Carbonatite Related Resources

Niobium mines are generally multi-commodity and laterite or saprock hosted. The laterite cover over the Araxá carbonatite is up to 230 metres thick and the weathered magmatic and hydrothermal mineralisation is the principal source of ore for the mine.

- Active Nb and P(±barite) mines
- Additional Nb, P reserves
- World class Ti-Nb resources (in anatase)
- Rare Earth Elements resources (in monazite)
- Vermiculite resources
- Untapped base metal potential (as per the occurrence of chalcopyrite and bornite in Catalão II)

	Ore type	Nb2O5	P2O5	TREO	TiO2	BaSO4	Magnetite	Vermiculite
Araxá	Laterite	462 Mt @ 2.5%	210 Mt @ >10%	6 Mt @ 4.4%		51 Mt @ 7.26%	Resource	
	Hypogene	940 Mt @ 1.6%	414 Mt @ 3.3%				Resource	
Salitre	Laterite	196 Mt @ 0.48%	852 Mt @ 10.7%	Resource	694 Mt @ 17.5%		Resource	
Tapira	Laterite	166 Mt @ 0.73%	1381 Mt @ 8.19%		414 Mt @ 17.82%		Resource	
Serra Negra	Laterite		Resource		200 Mt @ 27.68%			
Catalão I	Laterite	19 Mt @ 1.8%	966 Mt @ 8.5%	78.9 Mt @ 8.67%	339 Mt @ >10% (?)	Reserves	Resource	35.9 Mt @ 17%
	Hypogene	29 Mt @ 1.22%					Resource	
Catalão II	Laterite	13 Mt @ 1.35%	400 Mt @ 9.5%	25 Mt @ 0.98% (?)			Resource	
	Hypogene	55 Mt @ 1.23%					Resource	

Data from Ribeiro et al 2014

Project Overview | Niobium Market

Niobium is used in a range of high-tech applications.

This includes camera lenses, electric vehicle batteries, and telescope lenses.

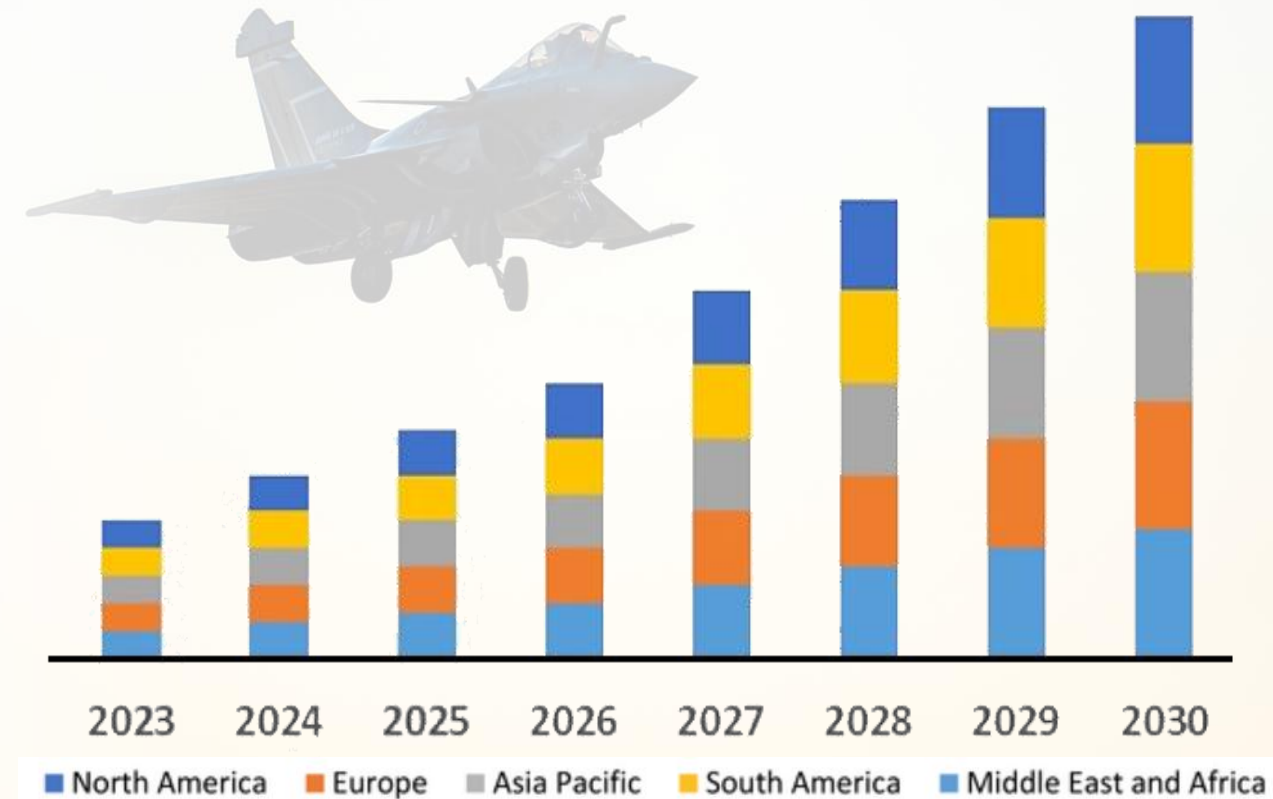
High purity niobium alloys are particularly resistant to heat, which makes them well suited for jet engines, gas turbines and in the nuclear energy industry for radiation resistant pressure vessels.

Metallic niobium is also a key ingredient in superconducting wires, computerised tomography scanners, magnetic resonance imaging equipment and particle accelerators.

The demand for these new technologies has led to an increase in the demand for niobium. Compound annual growth rates (CAGR) for niobium are expected to reach between 6% and 9% by 2030.

As niobium is a critical mineral, many governments are seeking to establish new and secure supply chains.

**The Global Niobium Market is
Expected to Reach USD \$3 Billion by 2030**



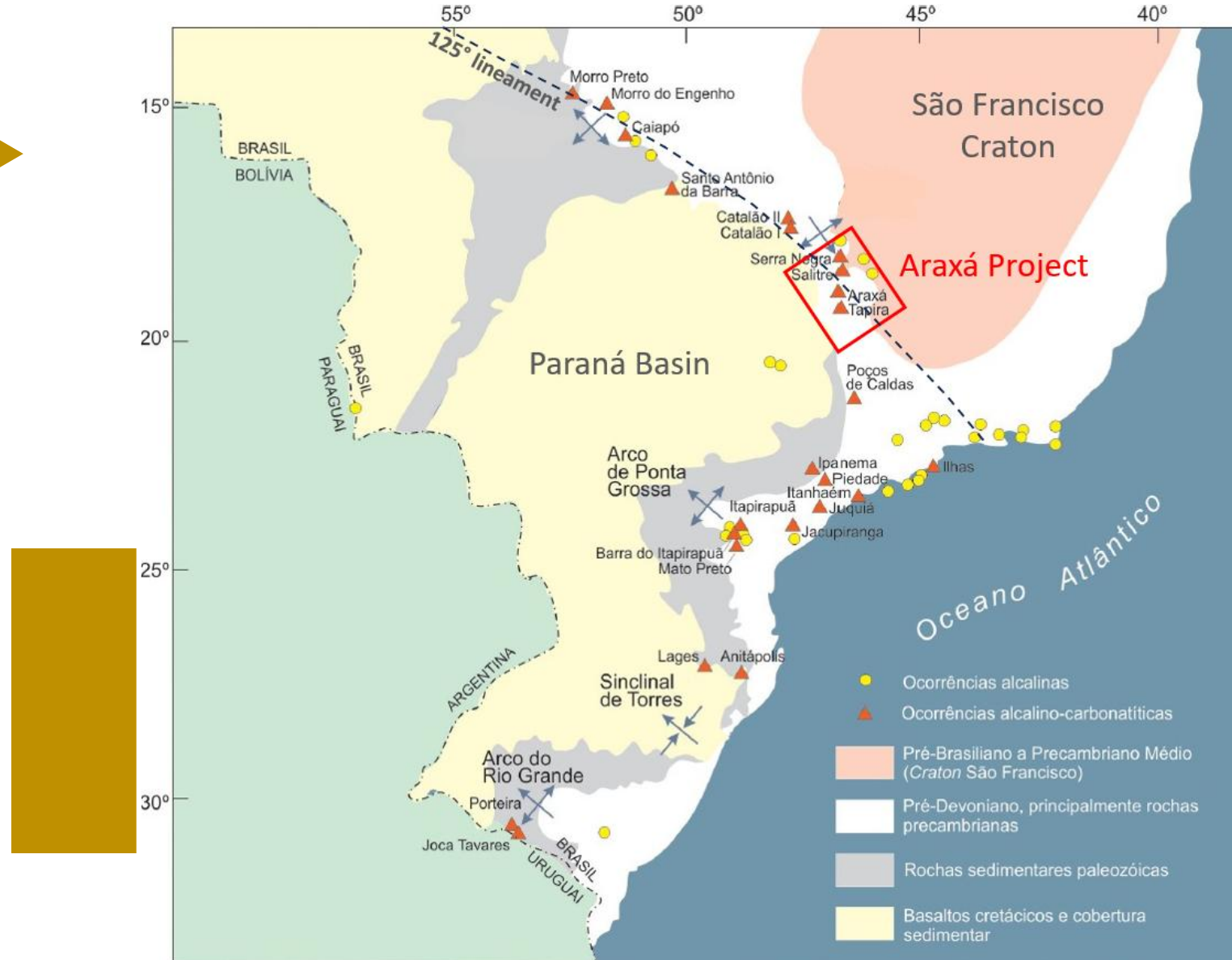
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Source: Data Bridge Market Research Market Analysis Study 2023

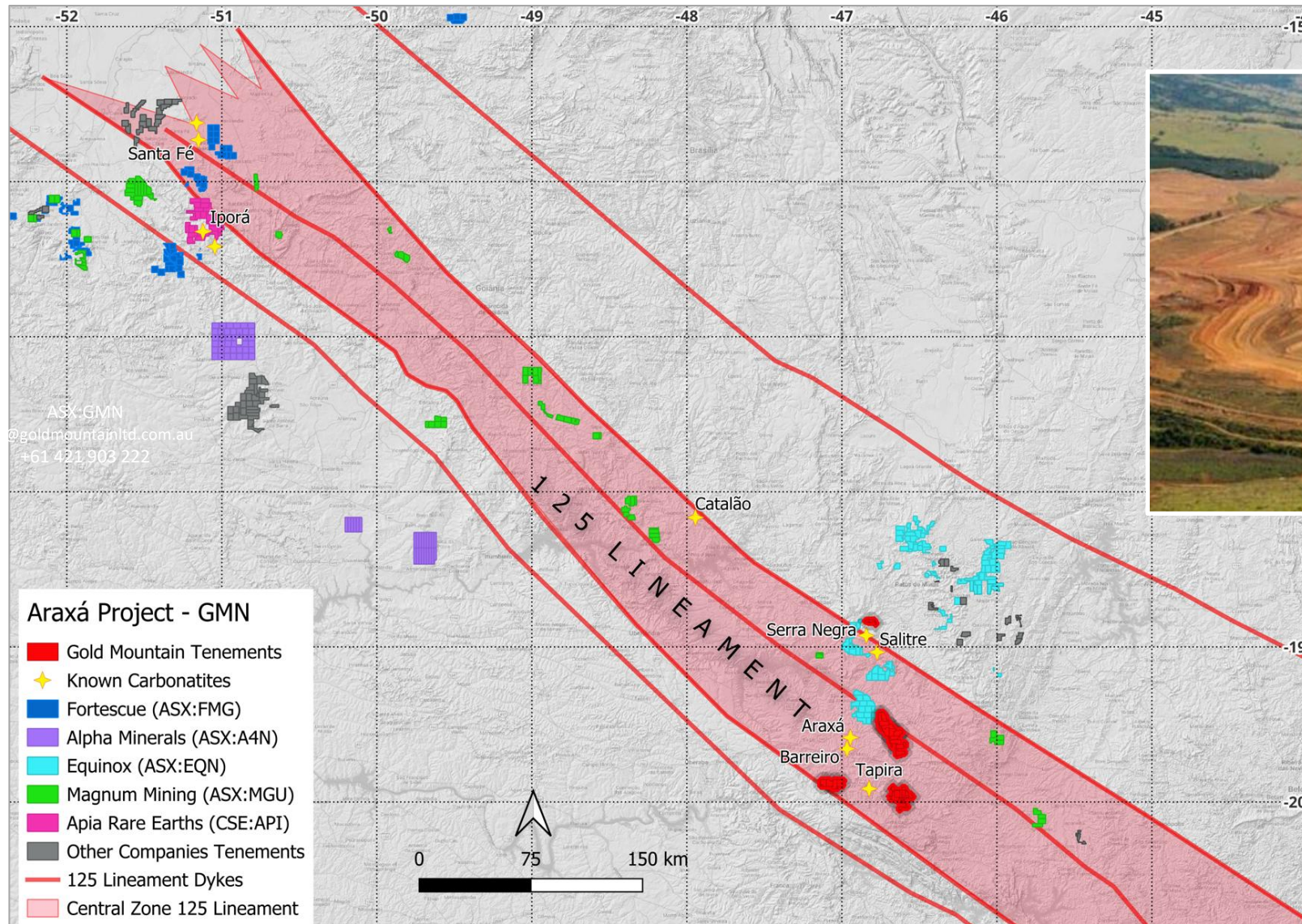
Regional Overview | Lineamento 125 NW-SE

Location map of the main Brazilian alkaline provinces with carbonatite rocks (Ulbrich and Gomes, 1981, modified) and the GMN Araxá Project.

Araxa project located on the **125° lineament**, a structural zone recognised for hosting significant alkaline complex mineral deposits over its more than 2,000 km extension. These include diamondiferous kimberlites, niobium mines and phosphate mines



Regional Overview | Lineamento 125 NW-SE

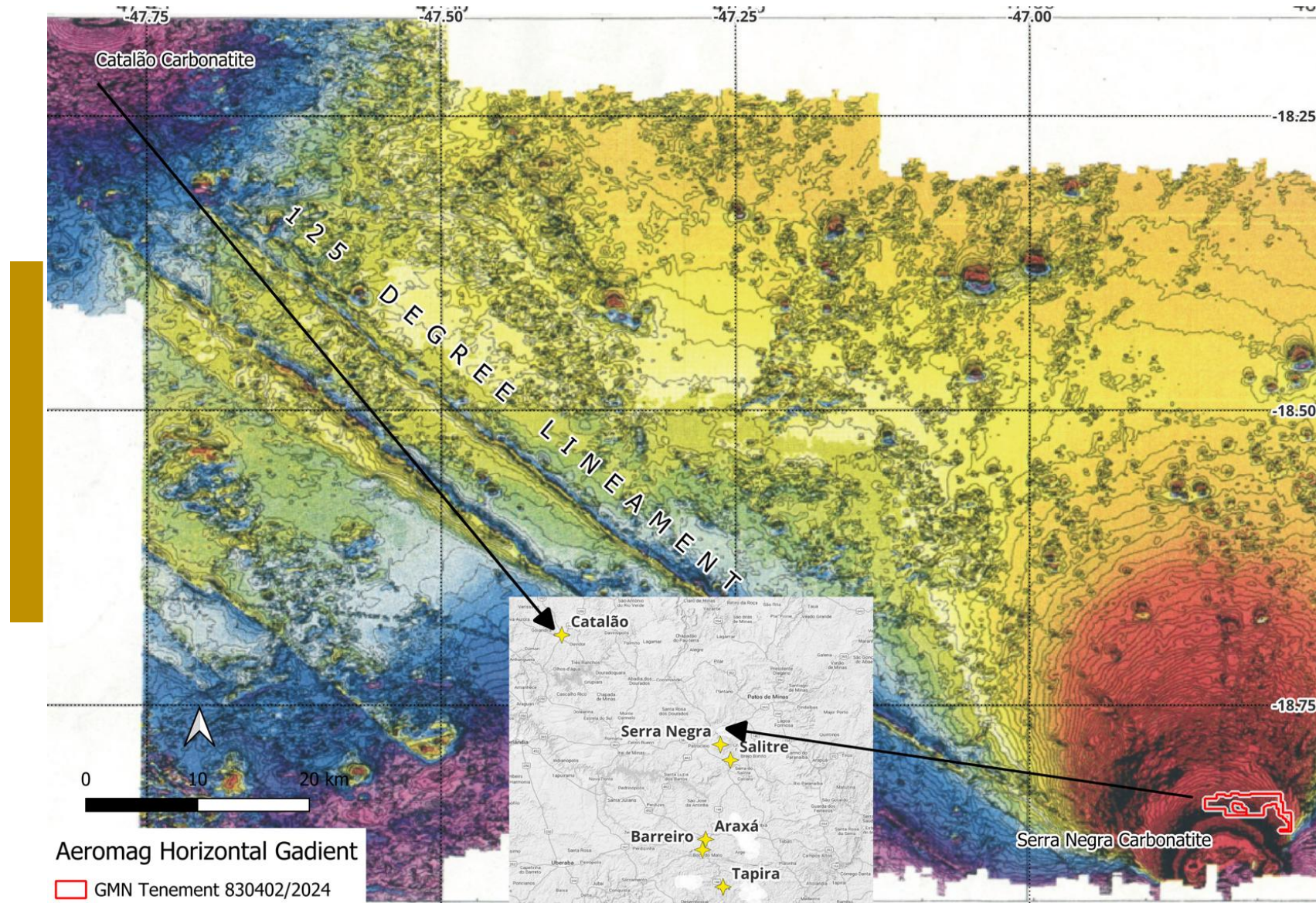


▲ Niobium mine in the Barreiro Complex at Araxá

▲ GMN Tenements in red along 125° lineament, a structural zone recognized for hosting significant mineral deposits over its more than 2,000 km extent.

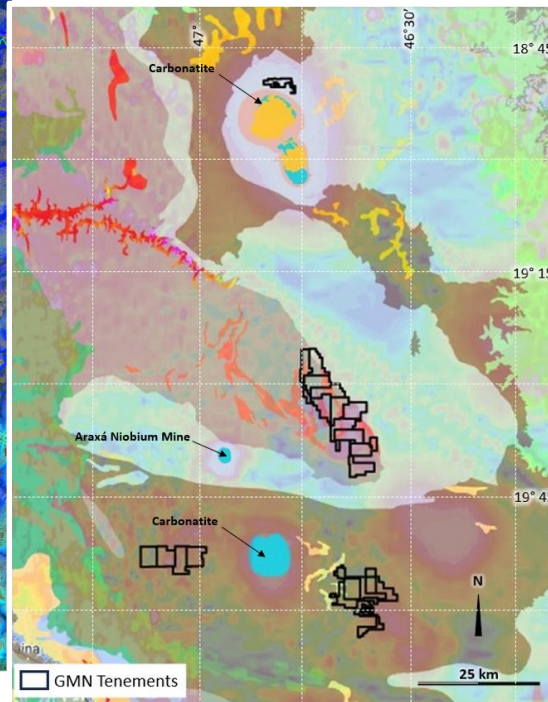
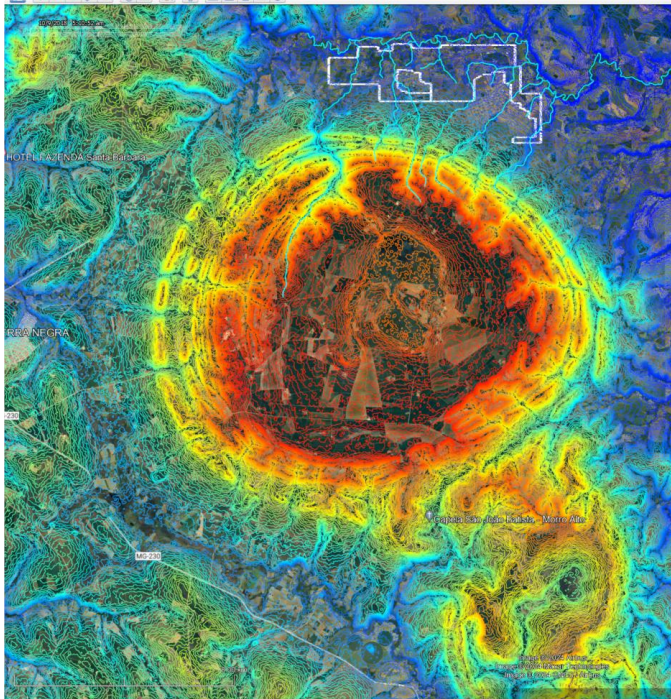
Regional Overview | 125° Lineament NW-SE Trend

125° lineament, a structural zone recognised from magnetics, crustal thickness contrasts and alkaline magmatism with associated mineral deposits



Araxá Niobium–Rare Earth Project | Exploration

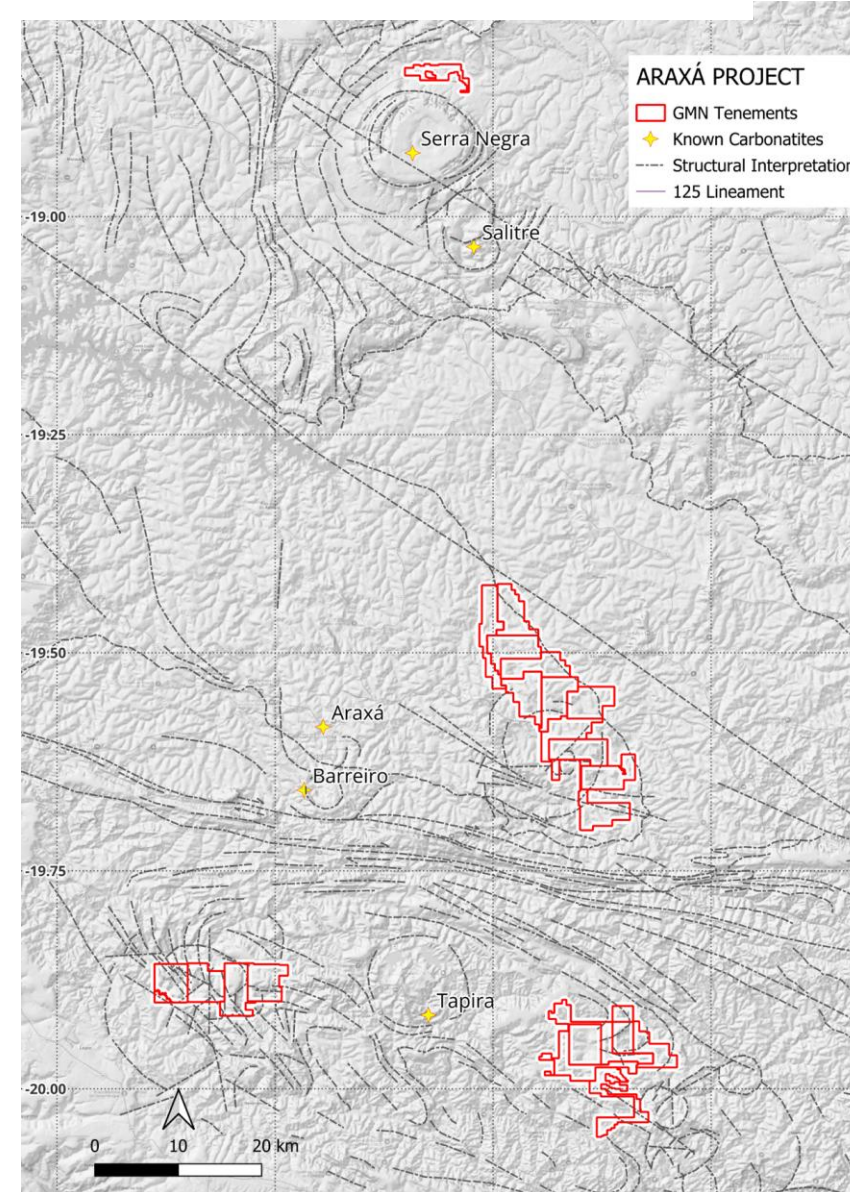
- Araxa Mine is the principal multi-commodity model for exploration at Araxa.
- Exploration strategy is to rapidly cover tenements with stream sediments and then locate specific areas to auger & diamond drill.
- Magnetic, topographic and radiometric highs with particular structural patterns form an important signature to select areas for exploration.
- Tenements are within the 2000 km long 125 degree lineament zone



Left: topographic high;

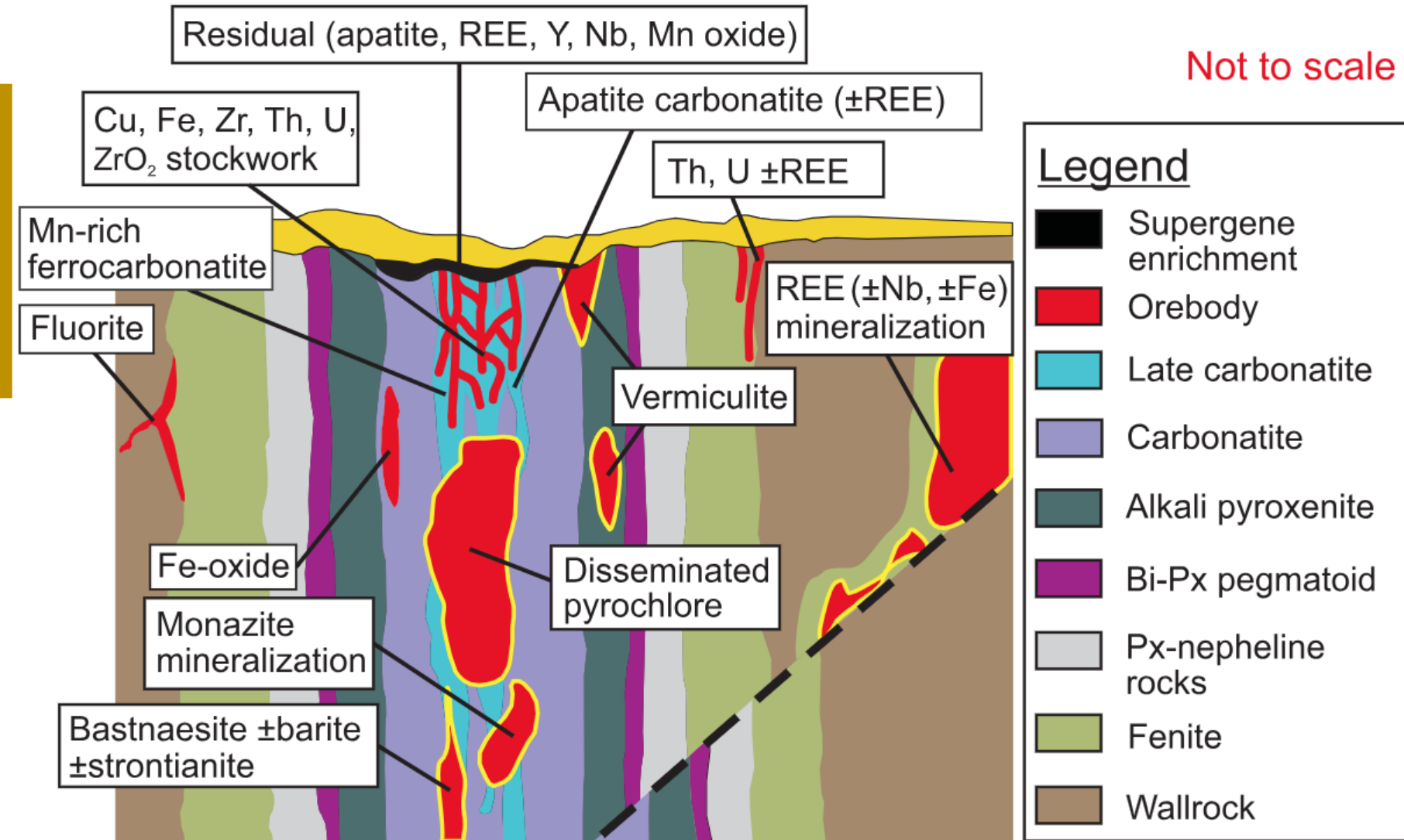
Centre: geology over
anomalous magnetic
field

Right: Structural
interpretation and
Project Location.



GMN / ASX Announcement / 23rd February 2024^h June 2024

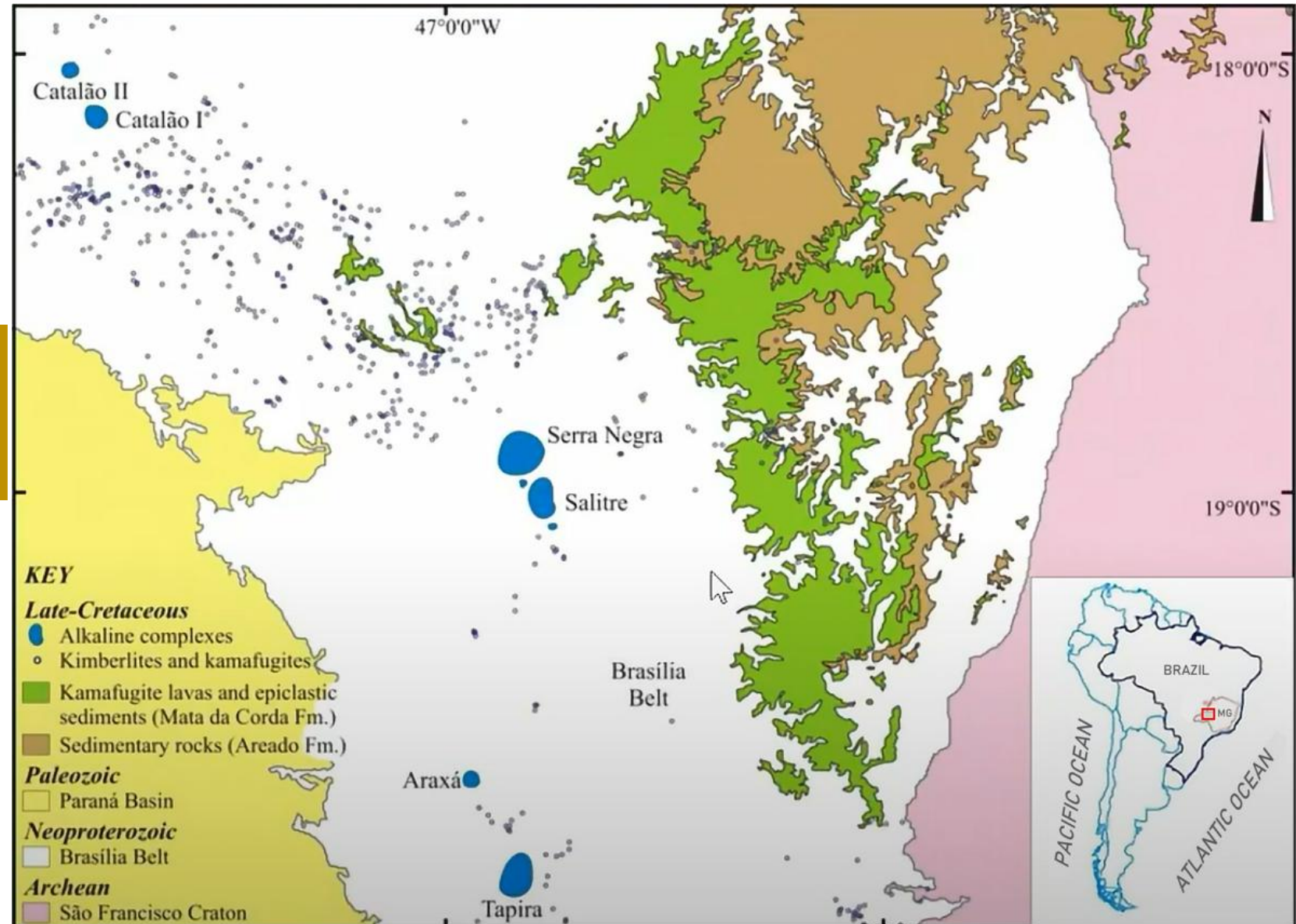
Regional Overview | Mineralisation Model



Hypothetical carbonatite mineralising system displaying the relationship between metallic and industrial mineral deposits relative to lithological units and geological contacts.

Alto Parnaíba Igneous Province | Carbonatite Related Resources

The Alto Parnaíba alkaline igneous province with carbonatite and kamafugitic rocks as well as kimberlites



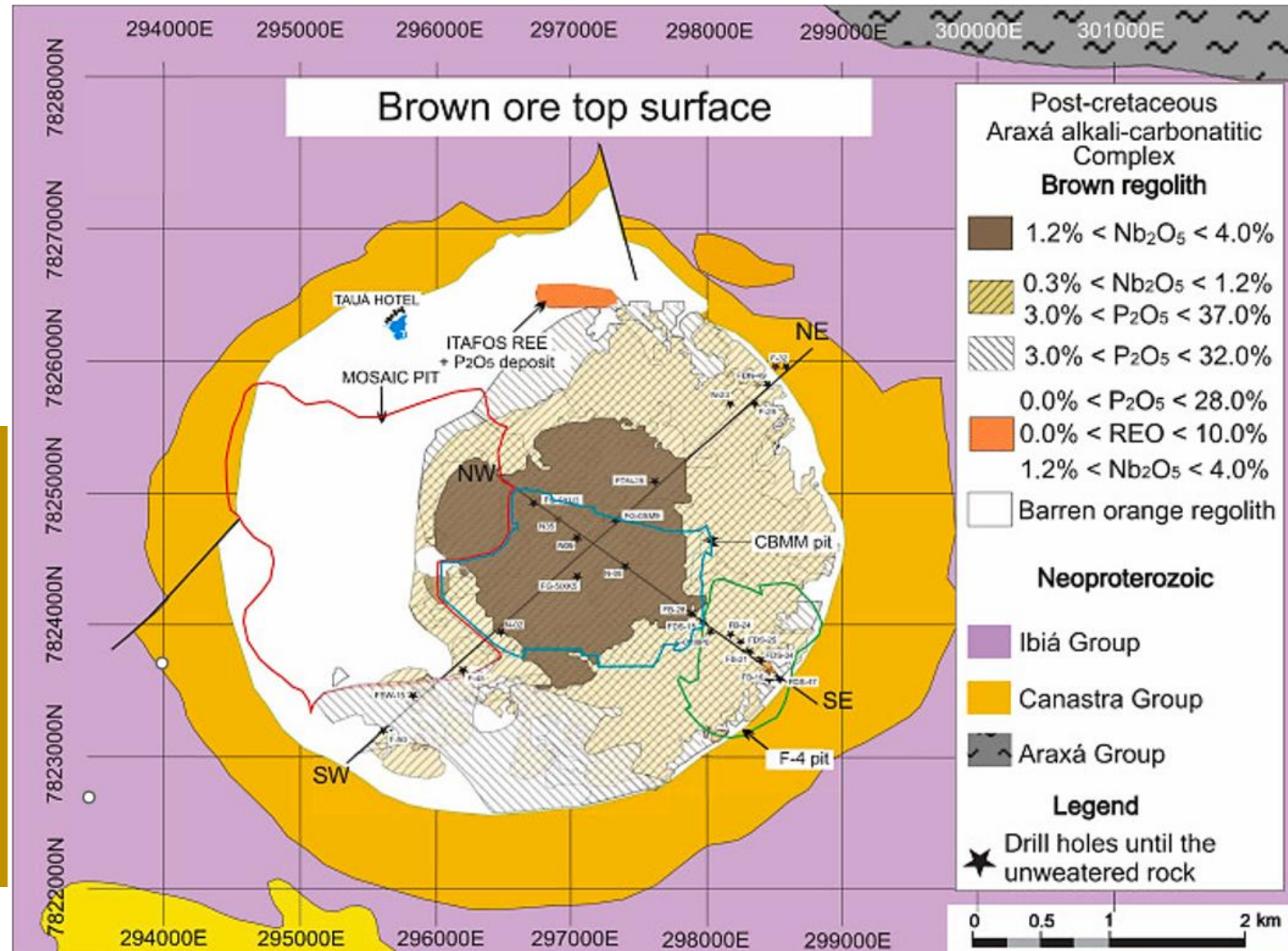
Regional Overview | Mines at Araxá



◀ Niobium mine in the Barreiro Complex at Araxá

Regional Overview | Mines at Araxá

Laterite hosted mineralisation in the
Barriero Complex at Araxá (Biondi et al
2024)



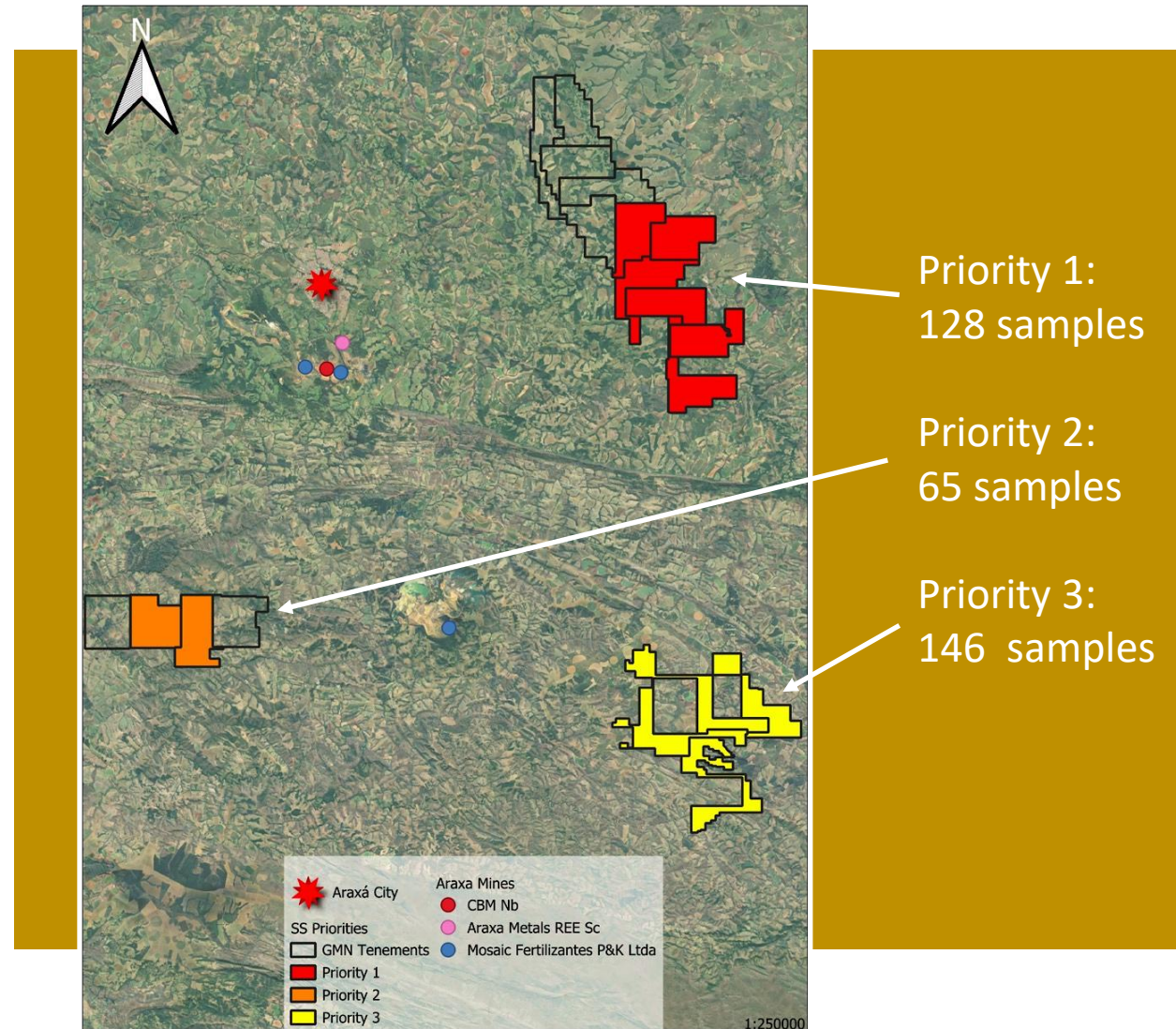
Exploration Strategy | Stream Sampling Program

An Extensive Stream Sediment Sampling Program at Araxá

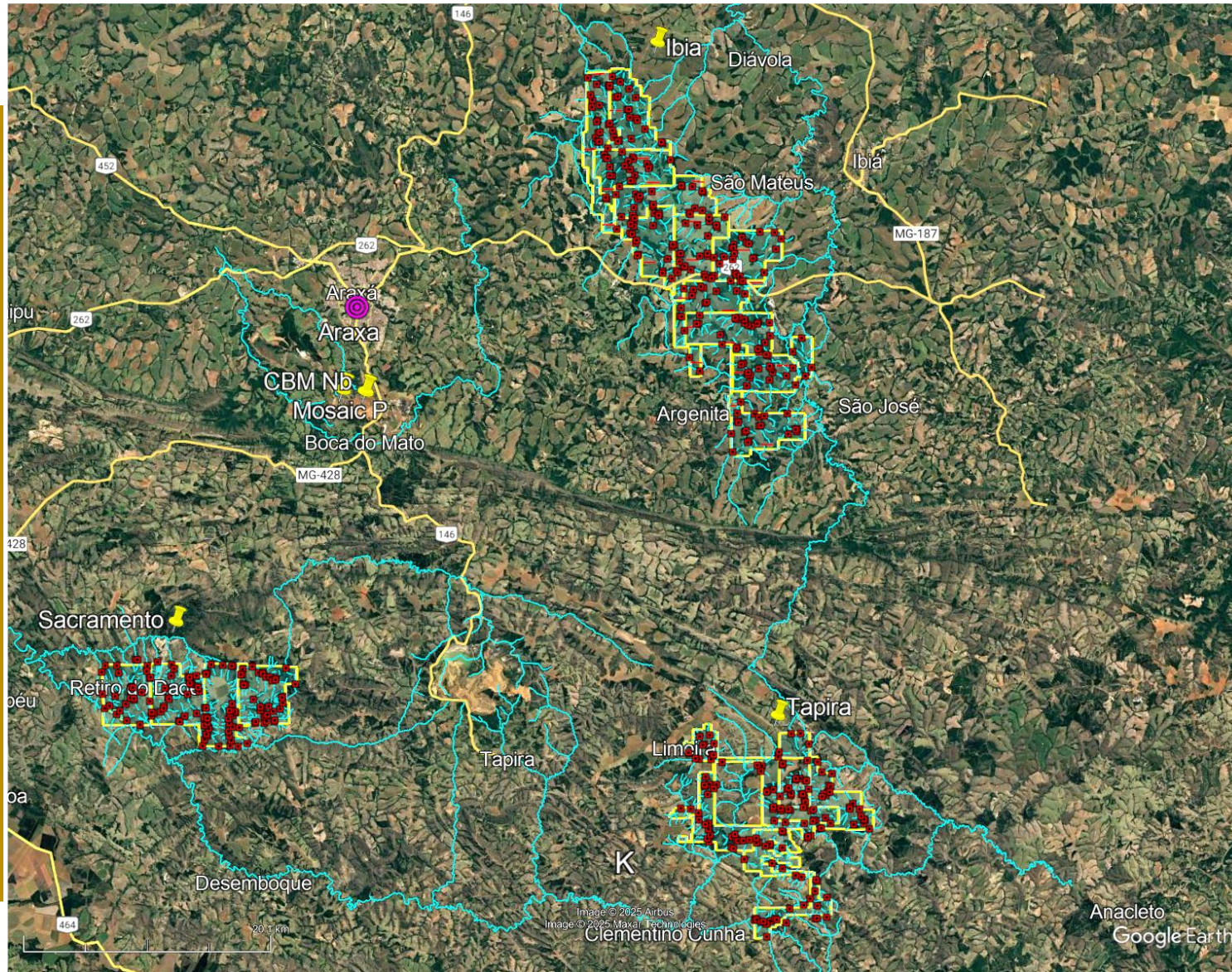
The sampling program aims to quickly establish drilling targets across the highest priority areas. These can be tested while completion of the sampling program is extended to other prospective tenements.

The team plans to collect 339 samples across the priority areas and a total of 526 samples across the project area.

The team will commence sampling in early April 2025.



Exploration Strategy | Stream Sampling Program



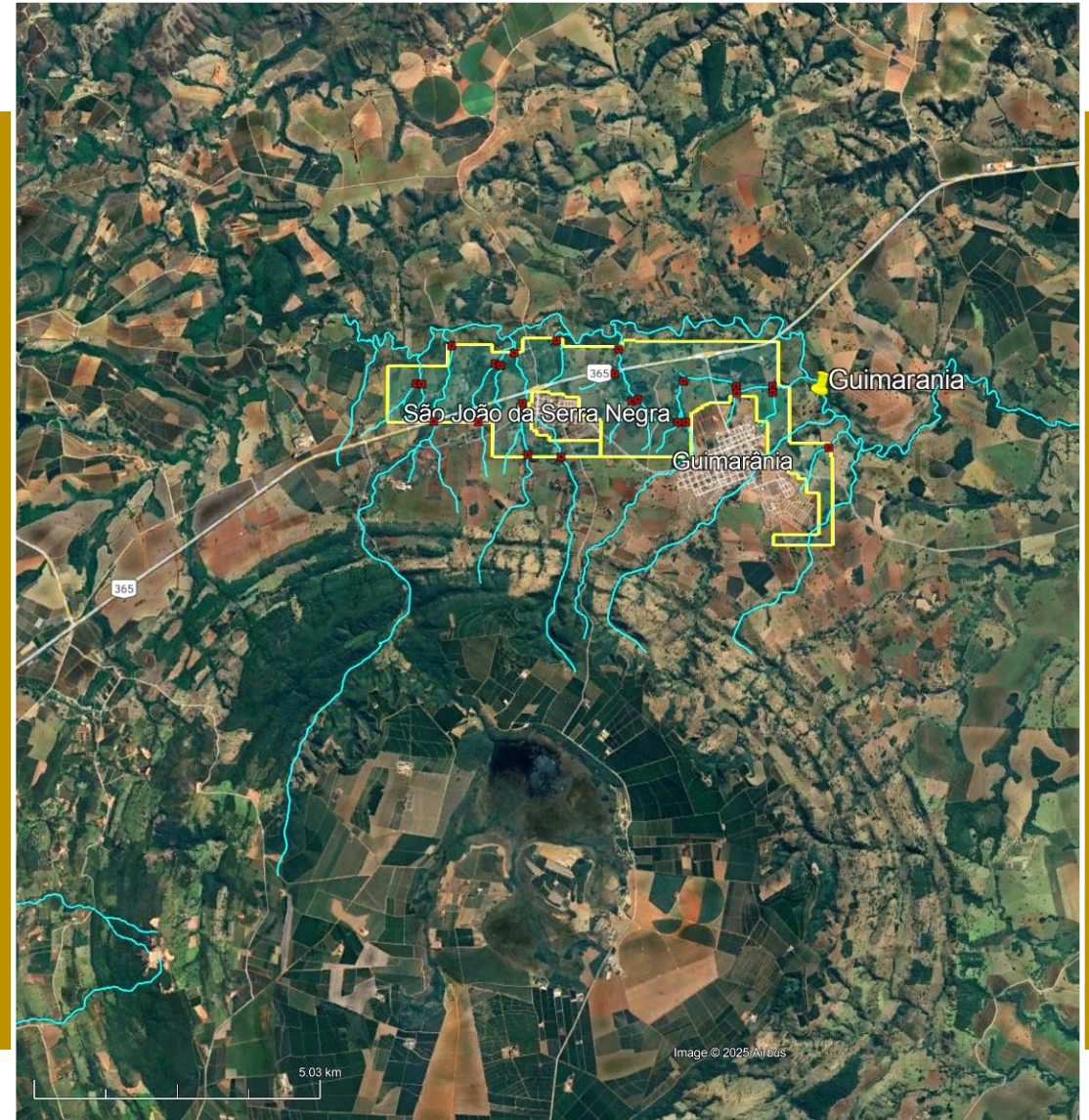
Planned locations for the stream sediment sampling program at the Araxá tenements.

All samples will be taken using proprietary methodologies and separations and then analysed by 4 acid digest for Niobium and REE.

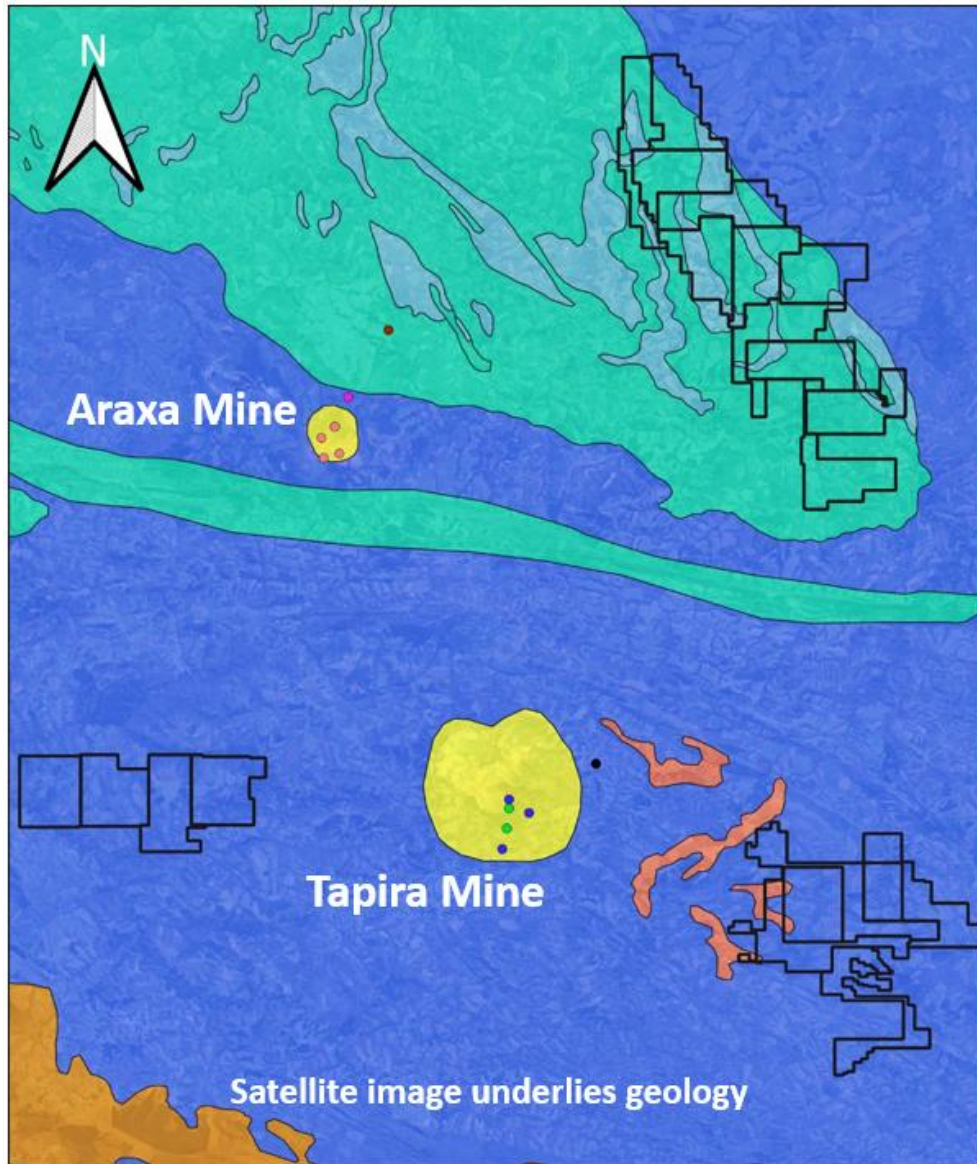
Exploration Strategy | Stream Sampling Program

Planned locations for the stream sediment sampling program at the Serra Negra tenements. ►

All samples will be taken using proprietary methodologies and separations and then analysed by 4 acid digest for Niobium and REE.



Regional Geology | Additional Simplified Information

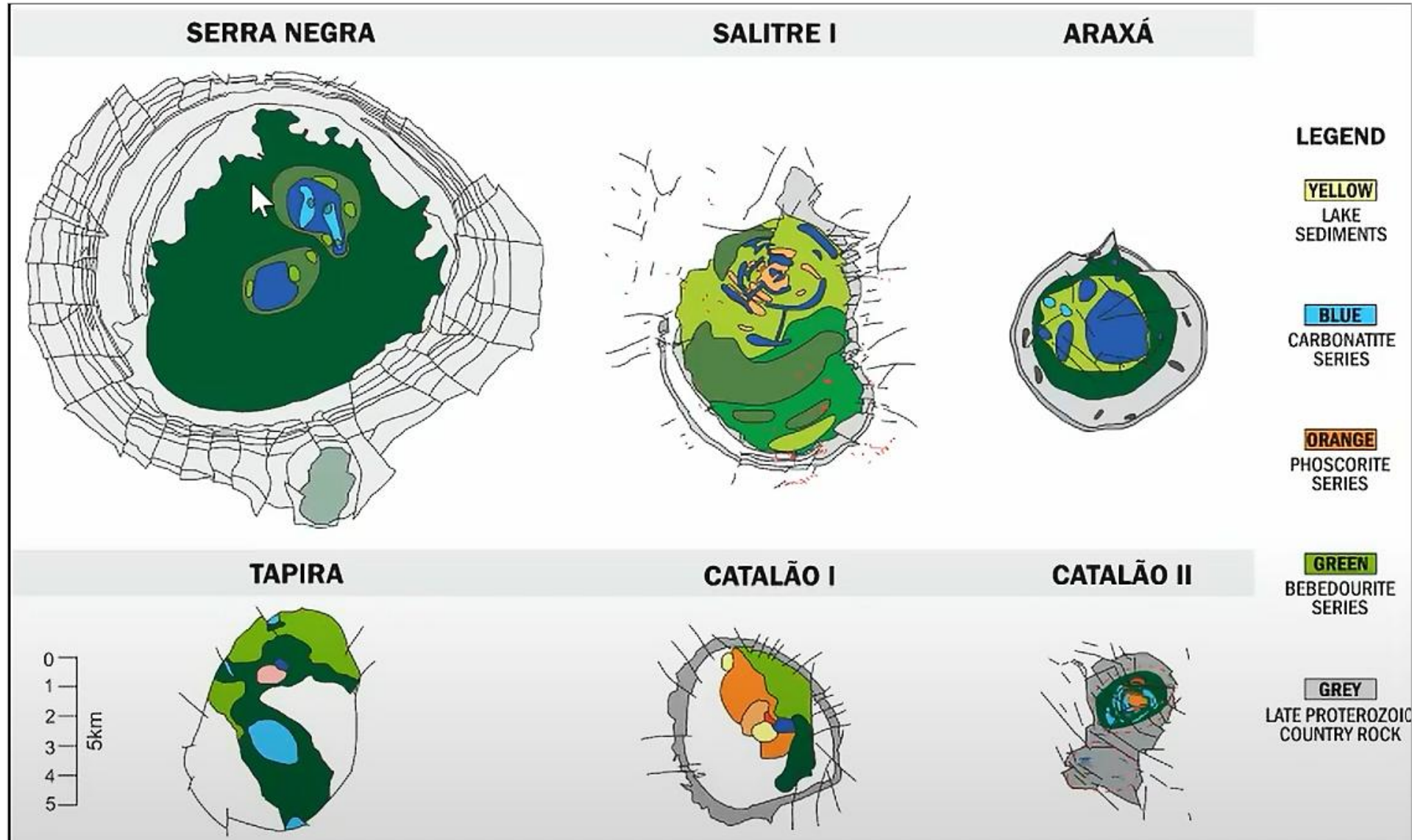


-  GMN Tenements
-  Detrital lateritic cover
-  Alkaline intrusives and extrusive complexes
-  Granitoid Complex, deformed syn-late tectonic
-  Continental basin sediments; sandstone, siltstone, claystone and conglomerate
-  Proterozoic sequences, low metamorphic grade, folded
-  Volcano sedimentary sequences, low metamorphic grade, folded

Mineral Occurrences

-  Clay
-  Barium, phosphate, niobium
-  Phosphate
-  Phosphate, niobium, titanium
-  Phosphate, titanium
-  Titanium

Additional Simplified Geological Information

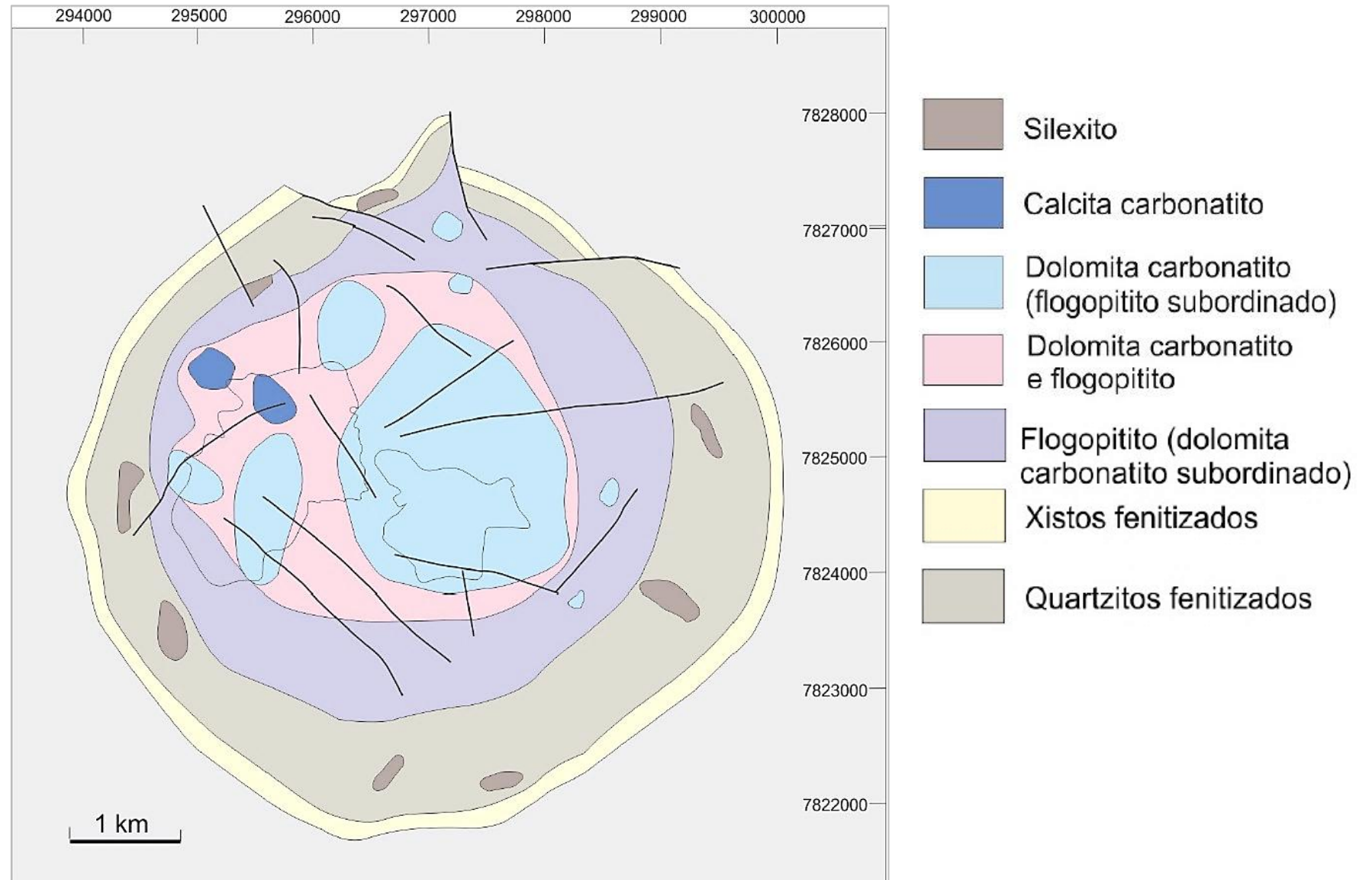


Important structural zones surround the actual magmatic rocks and are overlapped by carbo-hydrothermal zones which can contain major resources of a variety of metals.

Barreiro Alkaline - Carbonatite Complex Simplified Geology

Simplified geology of the Barreiro Complex showing the outer hydrothermally altered zones (fenite or fenitizados).

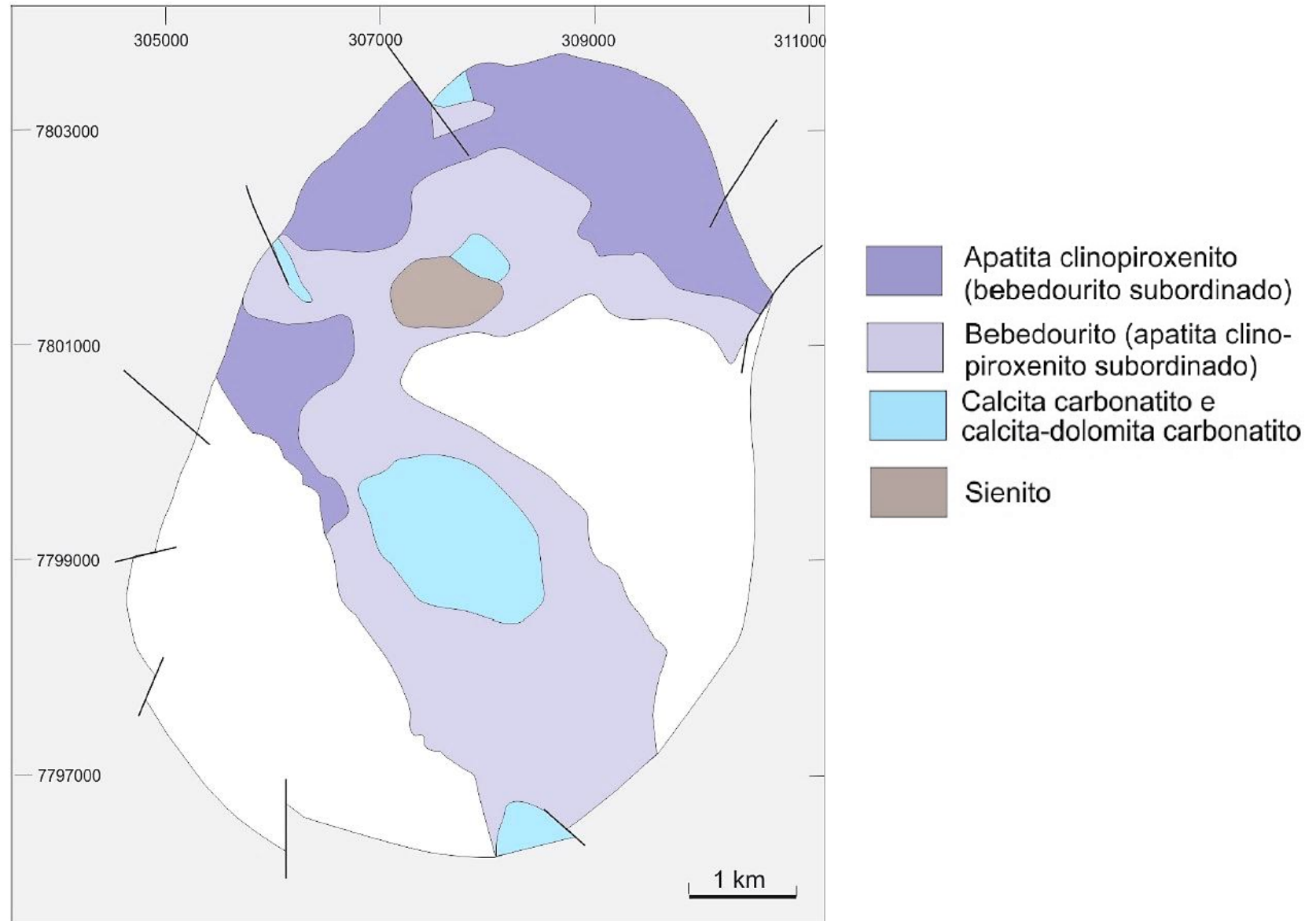
Mineralisation can occur in any zone.



Tapira Carbonatite Complex Simplified Geology

Simplified geology of the Tapira Complex showing complexity and lack of predictable zonation.

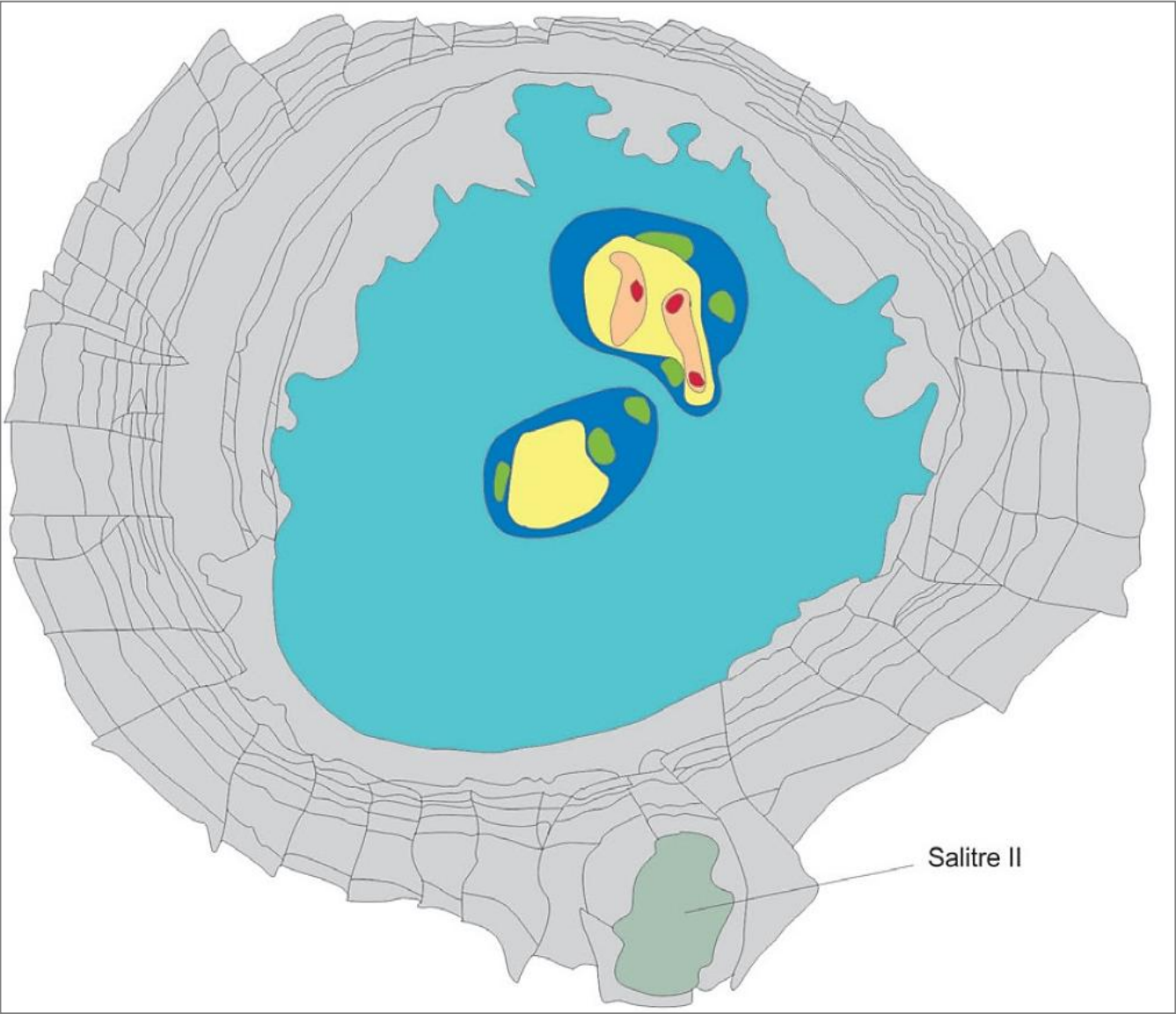
Mineralisation can occur in any zone.



Serra Negra Alkaline Carbonatite Complex Simplified Geology

Simplified geology of the Serra Negra and Salitre Complex showing complexity.

Mines within the carbonatites as well as in the structurally and hydrothermally altered zone.



- Cretáceo Superior*
- Calciocarbonatito
 - Apatita calciocarbonatito
 - Diques de traquito
 - Diques de flogopita picritos
 - Magnesiocarbonatito
 - Brechas e rochas silicáticas associadas
 - Perovskita bebedourito
 - Dunito
- Neoproterozoico*
- Quartzito e xisto
 - Outras rochas metassedimentares

Competent Persons Statement

The information in this ASX release is based on information compiled by Peter Temby, a Competent Person who is a Member of Australian Institute of Geoscientists. No exploration results have been included in this presentation. Peter Temby who is an independent consultant working currently for Gold Mountain Ltd. Peter Temby confirms there is no potential for a conflict of interest in acting as the Competent Person. Peter Temby has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Peter Temby consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

About Gold Mountain

Gold Mountain (ASX:GMN) is a mineral exploration company focused on rare earth elements (REE) with projects in Brazil and Papua New Guinea (PNG). While its assets are primarily centred around REE and niobium, the company is also exploring a diverse range of tenements for lithium, nickel, copper, and gold.

Gold Mountain has expanded its portfolio in Brazil, holding large areas of highly prospective REE and REE-niobium licenses in Bahia and in Minas Gerais. Additional tenement areas include lithium projects in the eastern Brazilian lithium belt, particularly in Salinas, Minas Gerais, and parts of the Borborema Province and São Francisco Craton in northeastern Brazil, as well as copper and copper-nickel projects in the northeast of Brazil.

In PNG, Gold Mountain is advancing the Green River Project, covering 1,048 km² across two exploration licenses. This project has shown promise with high-grade Cu-Au and Pb-Zn float samples, and previous exploration identified porphyry-style mineralization. Intrusive float, believed to be similar to the hosts of many Cu and Au deposits in mainland PNG, has also been discovered.

List of references

ASX Announcement 23 February 2024, Gold Mountain Limited secures ground near world's largest Niobium producer.