GOLD MOUNTAIN

ASX: GMN

Brazilian Critical Minerals for the Clean Energy Transition

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GMN Projects | Overview | REE, Niobium, Phosphate and Gold

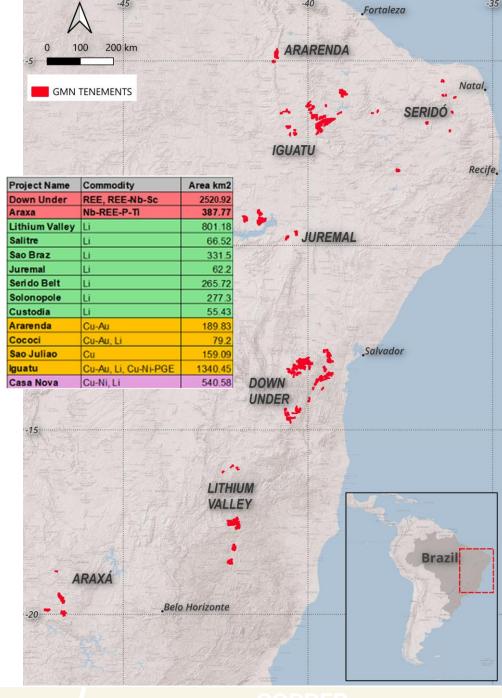
Gold Mountains has secured a large footprint in two emerging Rare Earth hotspots in Brazil. The company is now well-positioned to capitalise on its prime location and the surging demand for Rare Earth Elements (REE). These elements are essential in the production of high-strength, heat resistant magnets used to manufacture electric vehicle motors, wind turbines, and other high-tech applications.

The Down Under Project

- Ongoing Diamond drilling at the high-priority Irajuba prospect
- Pipeline of major anomalies and drill targets identified
- Drill permitting ongoing for additional anomalous areas

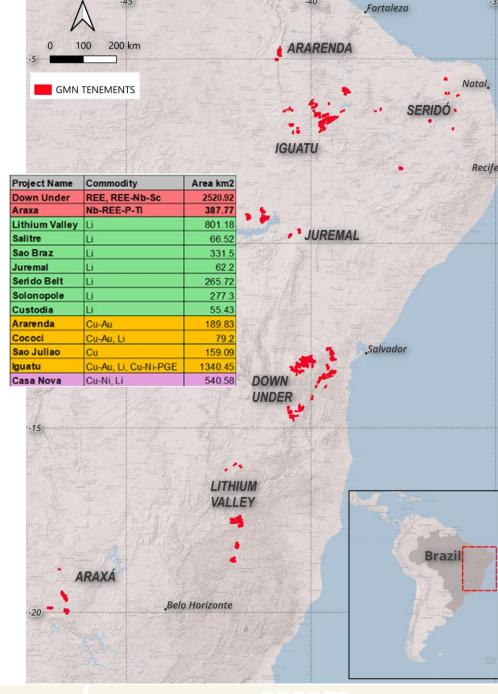
Araxá Project

- Carbonatites recognised from magnetics, radiometric and structural signatures
- Largest Nb resource in the world only 20 km from GMN's tenement group
- Phosphate Mine 15 km from GMN's tenement group
- Awaiting results from first pass stream sediment sampling program



GMN Projects | Overview Lithium - Tungsten

- The Lithium Valley Project
 - Targets for Diamond drilling identified at the high-priority Bananal Valley and Agua Boa prospects
 - Pipeline of major anomalies
 - Drill permitting underway
- Juremal Project
 - Spodumene identified in high order geochemical anomalies
 - Soil programme ready to implement to identify drilling targets
- The Seridó Project
 - High order Lithium and Tungsten geochemical anomalies
 - Soil programme ready to implement to identify drilling targets
- The Solonópole Project
 - High order Lithium geochemical anomalies
 - Soil programme ready to implement to identify drilling targets



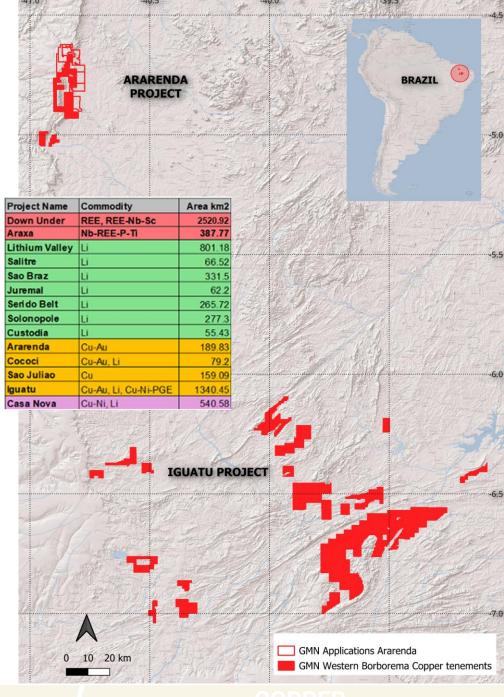
GMN Projects | Overview Copper – Gold - Tungsten

The Ararenda Project

- Targets for IP identified at the high-priority Geochem anomalies and IP quoted
- Pipeline of major anomalies
- **Soil program** ready to implement

Iguatu Project

- Copper, Gold and Tungsten identified in high order geochemical anomalies
- Targets for IP identified and quoted at the high-priority Geochem anomalies
- Soil programme ready to implement to identify drilling targets



The Down Under Project

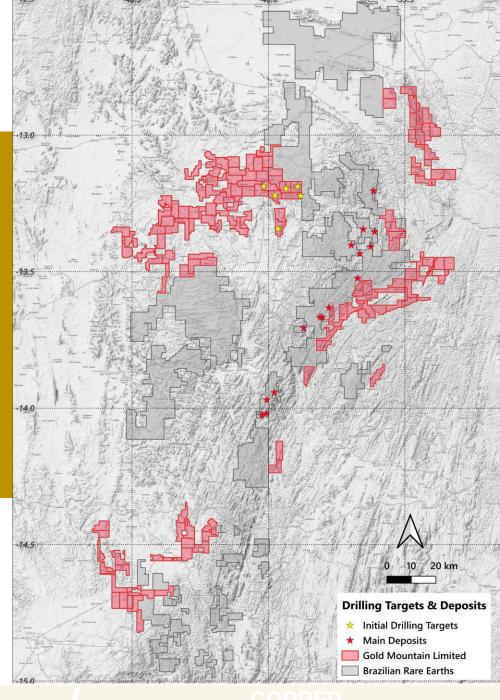
Situated in the Jequié Region and next door to Brazilian Rare Earths (ASX: BRE) high-grade Monte Alto Project, which has captured the market's attention with results of tens of % TREO*, Gold Mountains' flagship **Down Under Rare Earth Project** is primed to capitalise on a first-class location.

An extensive stream sediment sampling program conducted in 2024 returned peak values of 4,346 ppm TREO** and identified highly anomalous catchments over an 8km strike distance. Auger drilling commenced in 2024 and is ongoing. Resource estimation **Diamond Drilling is now in progress.**

All GMN's stream sediment samples have greater values or similar values to competitor's deposits orientation samples.

Exploration Method:

- **Targeted** on **thorium anomalies**, preservation of a thick lateritic weathering profile and on known mineralisation
- Stream sediment sample to define anomalous catchments
- Auger reconnaissance drilling to define Diamond Drilling targets
- **Diamond Drilling for resource estimation**



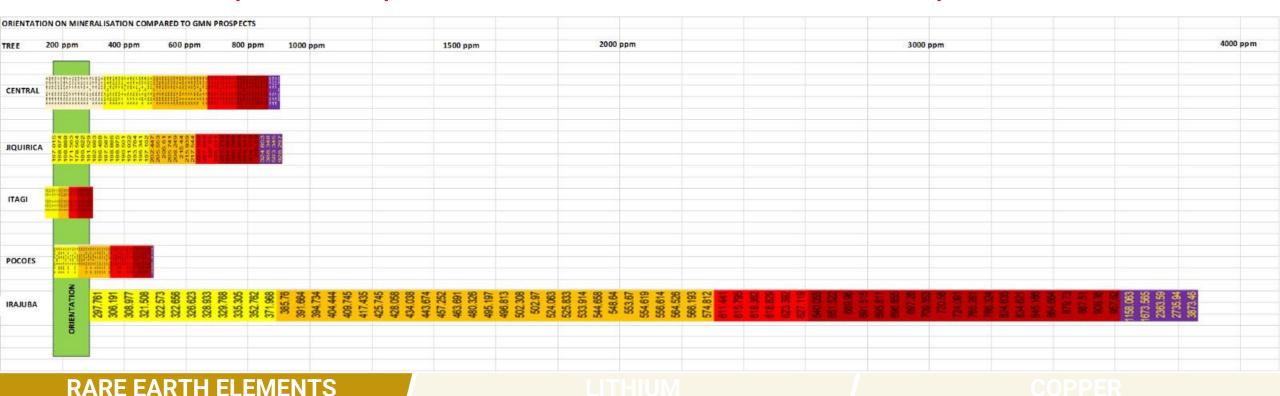
The Down Under Project

Situated **next door to Brazilian Rare Earths** (ASX: BRE) **high-grade Monte Alto Project**, which has captured the market's attention with results of tens of % TREO*, Gold Mountains' flagship **Down Under Rare Earth Project** is **primed to capitalise on a first-class location**.

An orientation stream sediment sampling program conducted in 2024 on known mineralised deposits of competitor areas returning peak values of 282 ppm TREO.

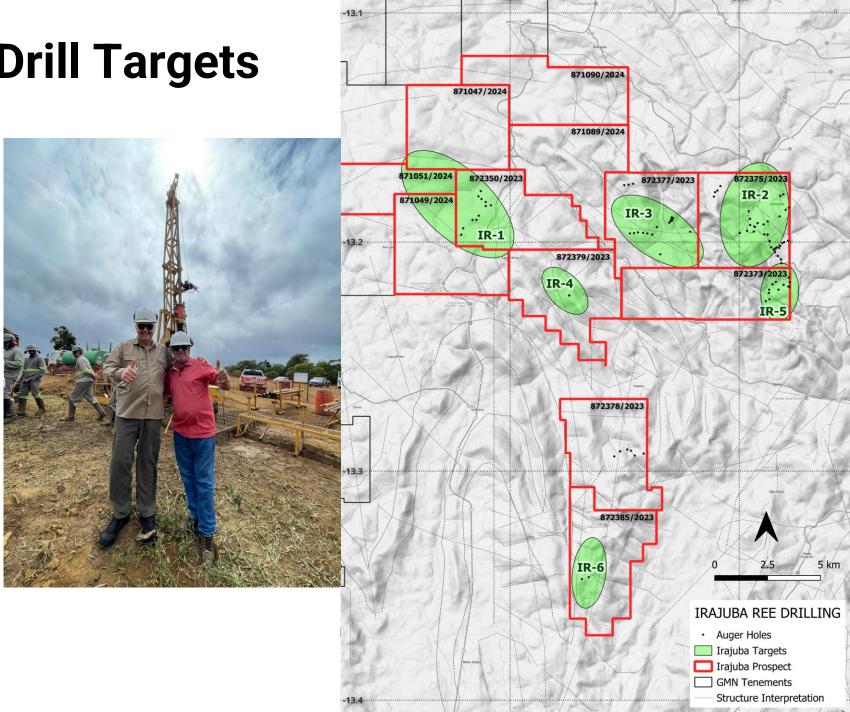
All GMN's stream sediment samples have much higher values or similar values to orientation samples taken over competitor's deposits.

Green bar represents competitors stream sediment values. Colourful bars represent GMN's values.



DOWN UNDER | Drill Targets

- Diamond Drill targets defined by reconnaissance Auger Drilling on high order Stream Sediment anomalies.
- Auger sample profiles assessed for the intersected interval, amount of preservation of the weathering profile and continuity of potential ore horizon.
- Targets identified then permitted for diamond drilling.
- Target IR 1 currently being drilled.
- GMN is building strong relationships with local government officials.

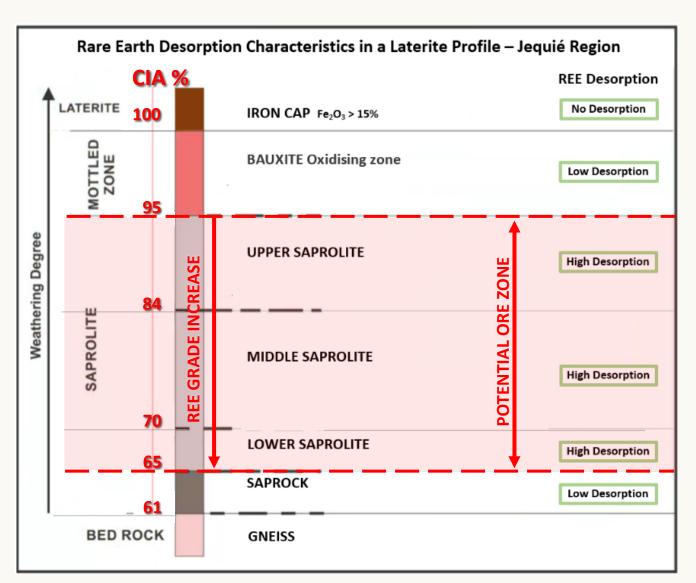


Jequié Region | Extensive Metallurgy

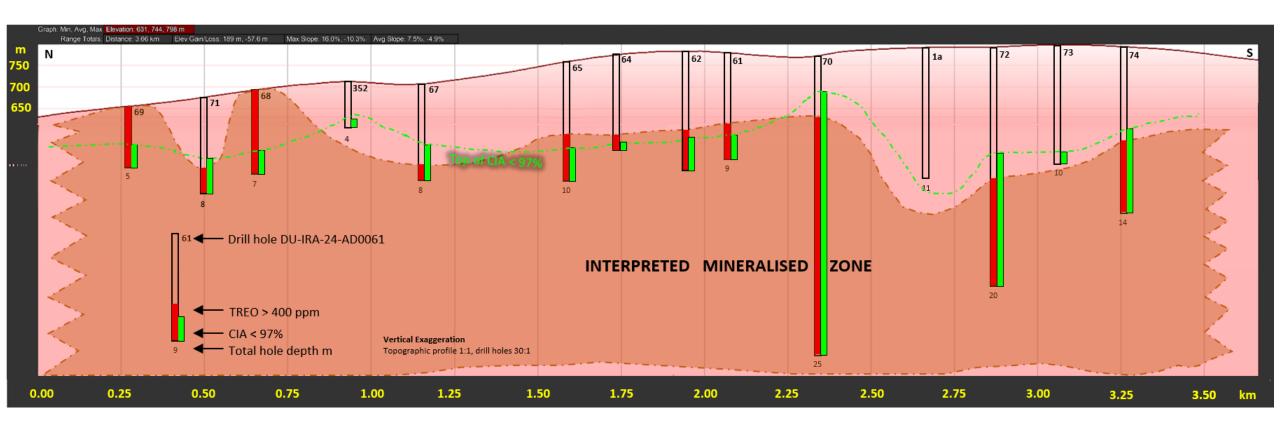
- Extensive metallurgy conducted on region deposits
- Ore extracted with ammonium sulphate with adjustment to pH 4. Economic level recoveries recorded in test work
- Deleterious U and Th not extracted from the REE ore by ammonium sulphate
- Clay mineralogy important for metallurgy
- High Phosphorus usually indicates primary monazite is present, considered to be economically recoverable by gravity methods in part of the BRE resource

Table adapted from Presentation by Gerson Romano dos Santos Junior; PhD student - Geometallurgy REE-IAC, Master - REE-IAC Geochemistry





DOWN UNDER | Drill Target IR - 1



Mineralisation open to depth and all directions

TREO Mineralisation greater than the cut off grade of 400 ppm TREO and greater than 200 ppm TREO-CeO2 in red

Chemical Index of Alteration (CIA) shown in green; CIA generally reduces systematically down profile from very weathered to fresh rock.

Hole No		Interval		TREO	TREO- Ce2O3	MREO	MREO/ TREO- CeO2	HREO /TREO- CeO2	Nd2O3+ Pr6O11	Dy2O3+ Tb4O7	CIA	MREO /TREO	DEPOSIT STYL		.DE: EO- eO ₂ TONN	TREO- IES CeO _. VT) (ppm)	TREO (ppm)	Nd ₂ O ₃ +Pr ₆ O ₁₁ (ppm)	Nd2O3 +Pr ₆ O ₁₁ (TREO %)	MREO (ppm)	MREO (TREO %)
	from	to	metres	ppm	ppm	ppm	%	%	ppm	ppm	%	%	Alto (RDR) San	d >=8	00 2!	5.2 5,466	10,022	1,879	18.8%	2,669.6	26.6%
IR-AD240013	5	15	10	1929	1386	962	64	24	557	49.2	90	49.9	Monte Alto (RDR)	>=2	00 10	4.1 562	1,105	184	16.6%	303	27.4%
IR-AD240445	4	8	4	2179	1615	1143	71	33	638.8	61.2	92	52.5	Riacho								
IR-AD250065	3	10	7	1863	1286	865	68	39	447.0	55.4	96	46.4	de Areia	>=2	00 12!	5.1 693	1,203	218	18.1%	395	32.8%
DU-IRA-24-AD0130	6	16	9	1423	861	592	68	32	338.1	35.0	92	41.6	Boca IAC da Mata	>=2	00 5	1.0 482	966	182	18.8%	245.5	25.4%
DU-IRA-24-AD0005	0	5	5	782	441	290	65	34	148.9	18.3	97	37.1	Tres Bracos	>=2	00 9	1.9 412	815	148	18.2%	213.6	26.2%
DU-IRA-24-AD0129	7	15	8	2007	1322	931	70	37	483.3	65.2	96	46.4	Mucuri	>=2	00 20	D.1 554	1,016	211	20.8%	310.9	30.6%
DU-IRA-24-AD0202	5	8	3	474	253	164	65	30	98.5	8.5	90	34.7	Machado	>=2		3.9 635		192	15.8%	342.6	28.2%
DU-IRA-24-AD0270	12	13	1	1484	747	527	71	33	308.2	34.5	99	35.5	Velhinhas	>=2		3.9 427	860	139	16.2%	201.8	23.5%
IR24-AD0355	4	12	8	960	459	299	65	34	157.3	19.0	84	31.1	Total		510	0.3 811	1,513	271	17.9%	425.8	28.1%
IR24-AD0357	8	17	9	1051	617	422	68	37	217.2	24.4	92	40.1	Atlas Critical Mi	nerals July 1	2025						
IR24-AD0358	3	9	6	852	517	362	70	35	203.8	20.1	93	42.5	HOLE ID	FROM	TO	LENGTH	TREO	MREO	TiO2 (%		O/TREO
IR24-AD0359	5	6	1	809	471	292	62	27	177.9	14.4	94	36.1					(ppm)	(ppm)			%
IR25-AD0067	7	8	1	1510	773	540	70	45	243.2	43.0	88	35.8	DHTI-001	0	21	21	5139	1391	13.82		7.1
IR-AD240011	7	10	3	1206	702	509	72	35	288.4	28.6	95	42.2	DHTI-001	0	12	12	5961.0	1690.0	13.27	2	8.4
IR-AD240070	5	25	20	1374	817	571	80	42	295.6	39.2	85	41.2	DHTI-001	0	3	3	7467.0	2452.0	13.22	3	2.8
IR-AD250072	11	20	9	1236	764	528	68	30	310.1	29.3	86	42.7	DHTI-001	7	12	4	5825.0	1446.0	16.34	2	4.8
IR-AD250074	8	14	6	1615	1013	695	68	32	399.8	40.8	88	43.0	DHTI-002	4	13.8	9.8	6414.0	2091.0	12.67	3	2.6
IR-AD250360	6	9	3	797	406	240	59	22	160.2	11.8	95	30.2	DHTI-002	8	13.8	5.8	7729.0	2681.0	12.45	3	4.7
DU-IRA-24-AD0066	5	8	3	756	424	263	61	16	206.6	3.5	88	34.7	DHTI-002	11	13	2	8976.0	3396.0	11.82	3	7.8
DU-IRA-24-AD0071	6	9	3	871	511	330	64	17	255.5	4.3	94	37.9	DHTI-003	0	7	7	4067.0	1090.0	11.93	2	6.8
DU-IRA-24-AD0064	6	8	2	767	377	221	58	13	181.3	2.2	97	28.8	DHTI-004	0	6	6	7165.0	1968.0	11.51	2	7.5
IR24AD0004	4	9	5	853	432	253	58	18	193.6	3.8	87	29.6	DHTI-004	0	3	3	9028.0	2393.0	9.67	2	6.5
DU-IRA-24-AD0028	3	6	3	707	405	238	58	14	188.7	2.9	93	33.7	DHCA-00001	2	10.3	8.3	3999.0	993.0	14.28		4.8
IR24AD0002	5	10	5	821	476	244	52	15	189.2	3.5	85	29.7	DHCA-00001	6	10.3	4.3	4706.0	1124.0	15.06		3.9
DU-IRA-24-AD0062	5	10	5	1357	781	477	60	14	380.7	5.3	96	35.2	DHCA-00002	3	10	7	3442.0	821.0	15.95		3.9
IR24AD0008	0	2	2	452	189	109	57	16	85.1	1.5	99	24.1	DHCA-00003	2	8	6	3396.0	812.0	11.21		3.9
									MEDIAN		\rightarrow	36.6 %			10	6	3007.0	682.0	14.03		2.7
NOTE:	% MRE	O may be	less tha	n percent	age show	n as Ce e	xceeded	500 ppm	upper lim	it of dete	ction.		DHPM-00002	1		_					
	Nd+Pr	ppm valu	e shown	is a minin	num as No	d exceed	ed 1000 p	pm uppe	er limit of o	detection.				1	6	5	3129.0	716.0	13		2.9
NOTE: Variable	h ! l-	0/ af I	11000	-+ DE	- /B/IDI	50 \ c =					- b:		DHLF-00001	3	9	6	3275.0	754.0	13.76	2.	3.0
NOTE: Very I	nıgn	% OT I	viagn	et KEb	: (IVIKI	EU) CC	ompai	rea to	comp	etitor	s, ni	gner									
value type o	f mii	nerali	satior	. Ove	r <mark>80</mark> %	of RE	E valu	ue in l	MREO.										Median	→ 2	5.5 %

DOWN UNDER | Exploration Targets IR - 1

Exploration Targets are pre-resource estimates of what may be present based on knowledge at the time.

IR – 1 Res drilling ca augers, or thorium a Auger dri catchmen sediment	rried on mappinoma Iling is at area	out u ping ly are only s wit	sing of late eas. / carr h hig	mach teritis	nine po sed sur out on s	were face strea	ed sh s in h ım	ell igh	871051/2024 871051/2024 871053/2021 871053/2024		LEGEND Intersection >400 ppm TREO Previously reported drill hole
Exploration Target	Stream Sediment sample anomalies	Auger Drill Intersections	Old Lateritised Surfaces	Area m2	Assumed Thickness (75% BRE Av thickness) m	Assumed Density tonnes/m3	Assumed Exploration % success rate	Target Tonnes Range million tonnes		/~	Drill hole section line Creek or drainage line
Diamond Drilling Area	Yes	Yes	Yes	2,110,000	25	1.7	60	30-50			Initial Exploration Target
Broader Contiguous Area excludes diamond drilling area)	Minor unsampled areas	Some areas drilled	Yes	7,700,000	25	1.7	40	100-200	2000 metres Datum WGS84		Broader Exploration Target

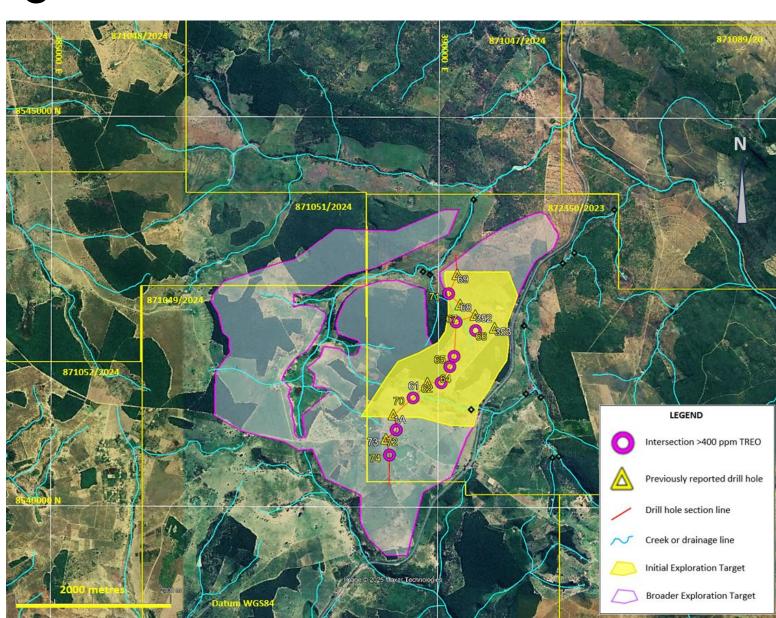
DOWN UNDER | Drill Target IR - 1

Reconnaissance drilling can find mineralised profiles within the anomalous catchments.

Diamond drilling can penetrate the entire weathering profile and demonstrate potential resources

Hard rock targets are very likely to be surrounded by larger halos of detrital monazite shed from much smaller hard rock sources.

Monazite detected by logging and analyses.



TARGET Types and Scales

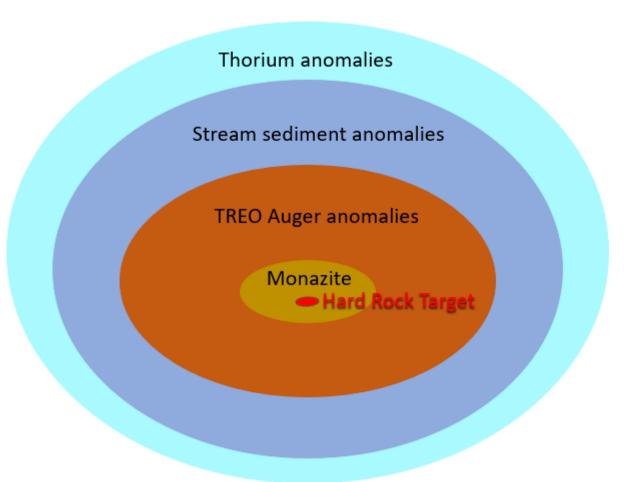
Three target types are present in the Jequie REE Province

IAC Target – very large, simple to find with stream sediment sampling, then reconnaissance auger drilling anomalies, then diamond drilling to determine resources. This target is amenable to low OPEX environmentally friendly metallurgical recovery of REE.

Residual Monazite Target - much smaller and forms a blanket within the weathering profile of resistant monazite grains that may be recoverable by gravity separation if grainsizes are appropriate.

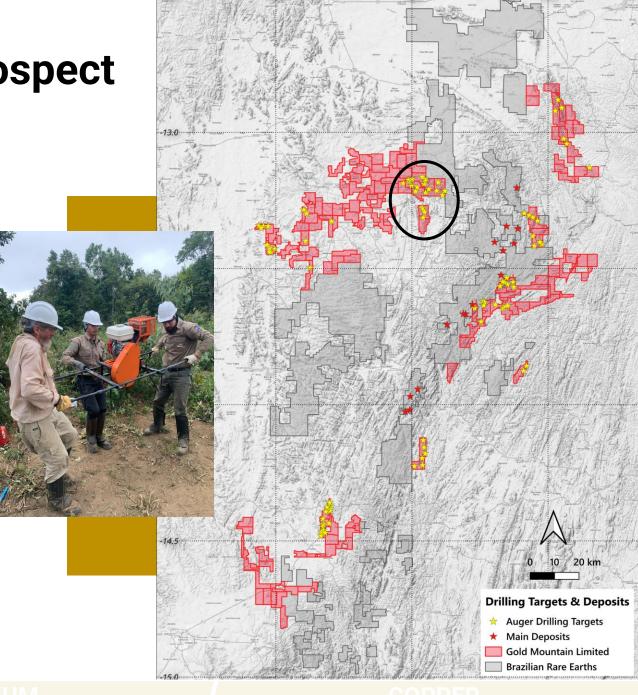
Hard Rock Target – very small in relation to both the residual monazite and IAC type targets, and usually surrounded by both types of larger target.

GMN searches for the largest target first, then looks to see if a residual target may be present, within which detailed work could then be undertaken to find a hard rock target.



Downunder Project | Irajuba Prospect

- The Irajuba Prospect is defined by major structurally controlled zones of REE anomalies
- IR-AD240070 with **20 metres @ 1,282 ppm TREO** from 5 metres depth
- IR-AD250065 with **7 metres @ 1,863 ppm TREO** from 4 metres depth
- IR-AD240013 with **10 metres @ 1,929 ppm TREO** from 6 metres depth including 2 metres @ 4,960 ppm TREO
- DU-IR-24 AD0129 with 8 metres @ 2,006 ppm TREO from 7 metres depth with indications of good grade at depth were shown in further holes
- Assays have indicated that it contains a high proportion of Magnet Rare Earths (MREO) which are the most valuable elements used in the production of heatresistant permanent magnets.
- **GMN's MREO** % is higher than competitor's MREO %



Araxá Rare Earth-Niobium Project

The Araxá Rare Earth–Niobium Project is located in the Alto Paranaíba Igneous Province, close to Araxá, an area known worldwide for its rich mineral resources.

Araxá is home to the world's largest niobium mine, containing an estimated 94% of the world's niobium reserves. This strategic location places the project in a highly prospective geological setting with an established mining infrastructure. Additionally, the project is situated along the central zone of the "125" degree lineament," a major crustal depth structure zone recognised for its potential to host significant mineral deposits over its more than 2000 km length.

Exploration Method:

- The Araxá Mine and surrounding region contain a wealth of data points to use for exploration at GMN's Araxá Project.
- The strategy is to rapidly cover tenements with stream sediments and then locate specific areas to auger & diamond drill.

lineament. Araxá Project - GMN Serra Negra Gold Mountain Tenements **Known Carbonatites** Fortescue (ASX:FMG) Alpha Minerals (ASX:A4N) Equinox (ASX:EQN) Magnum Mining (ASX:MGU) Apia Rare Earths (CSE:API) Other Companies Tenements 150 km

Right: The Araxá Mine

Below: Tenements along 125° degree

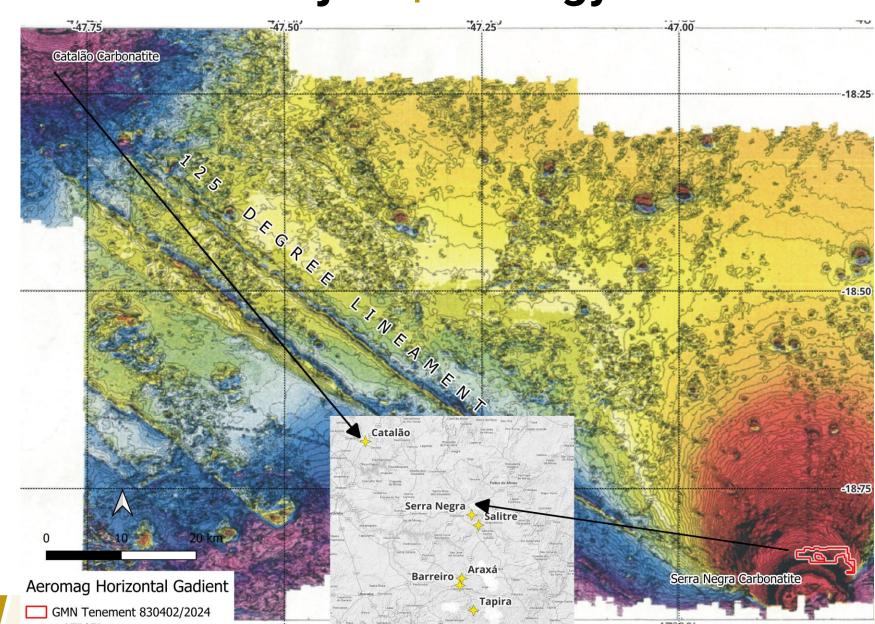
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125 Lineament Dykes

Central Zone 125 Lineament

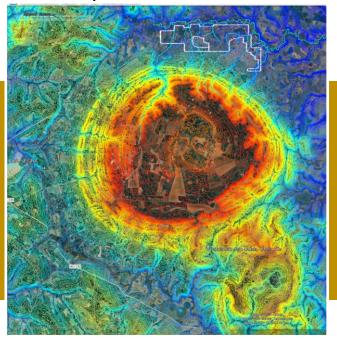
Araxá Rare Earth-Niobium Project | Geology

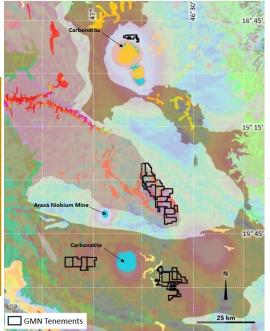
- Carbonatites in the Araxá region host deposits of niobium, phosphate, barite, vermiculite, titanium and gem quality olivine.
- Distributed along the 125 degree lineament, a major focus of alkaline magmatism
- Linear NW trending dykes run along the lineament zone between the large carbonatites in the NW and SE of the image



Araxá Rare Earth-Niobium Project | Exploration

- Araxá Mine is the principal model for exploration at Araxá Project.
- Exploration strategy is to rapidly cover tenements with stream sediments and then locate specific areas to auger & diamond drill.
- Magnetic, topographic, geology and radiometric highs with particular structural patterns, form an important signature to select areas for exploration.

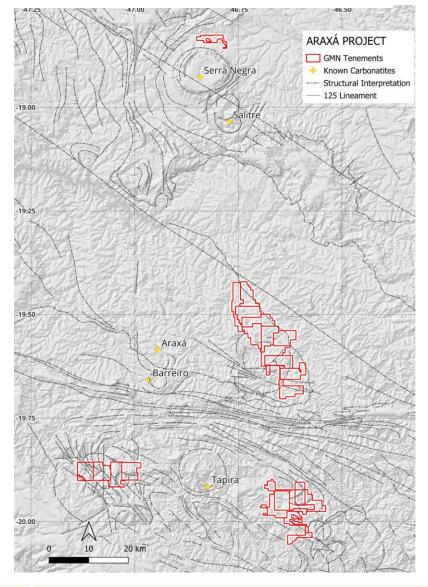




Left: topographic high;

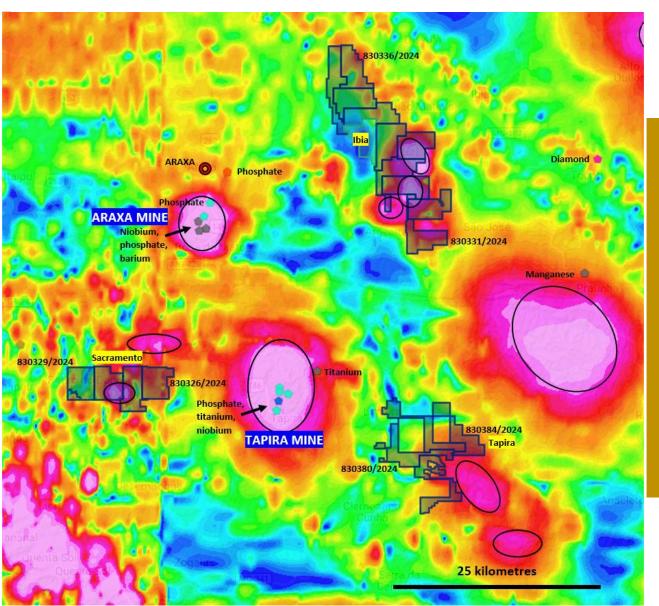
Centre: geology over anomalous magnetic field

Right: Structural interpretation and Project Location.



GMN/ASX Announcement $/\ 23^{rd}$ February 2024^h June 2024

Araxá Rare Earth-Niobium Project | Exploration

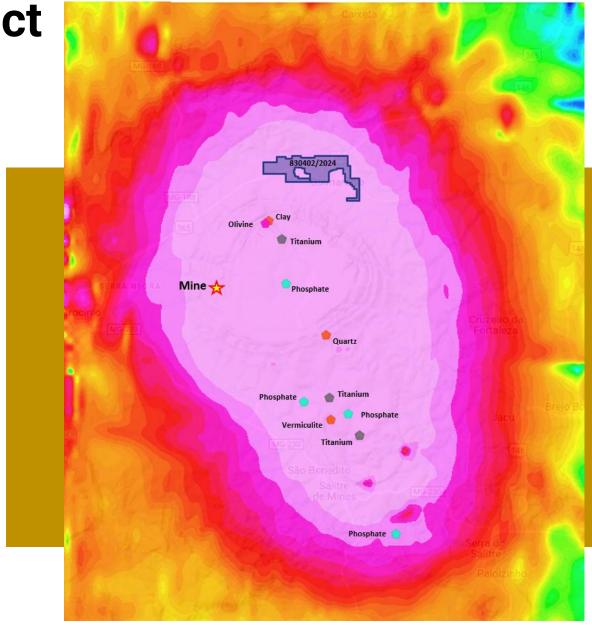


- Magnetic image shows high responses over known carbonatites such as at the Araxá Mine (94% of world reserves of Nb).
- GMN interpreted structural, radiometric and magnetic signatures common to known carbonatites and generated similar targets, now mainly within GMN tenements.
- The project is ready for stream sediment sampling, planned for Q3-Q4 2024-5

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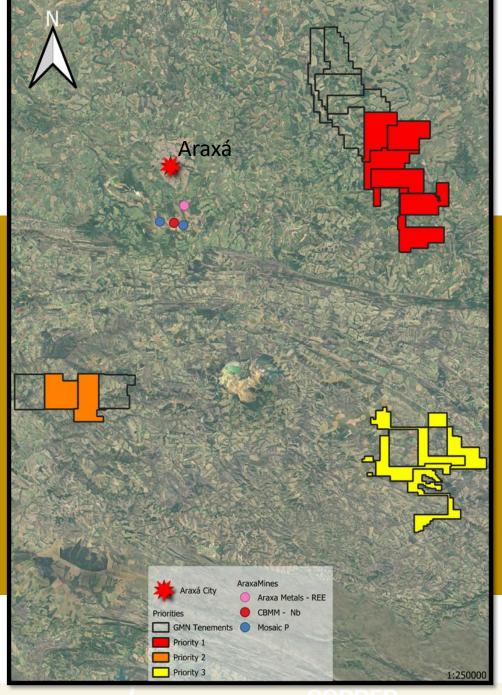
Araxá REE - Niobium Project

- GMN tenement in relation to total gradient magnetic field and to known mineralisation, related to the Serra Negra carbonatite complex.
- Carbonatites in the Araxá region host deposits of niobium, phosphate, barite, vermiculite, titanium and gem quality olivine.
- Deposits form within and surrounding the main intrusive bodies.



Araxá Stream Sediment Sampling Program

- Araxá Niobium-REE targets at early stage exploration, with combined radiometric, magnetic and structural targets identified. Next steps complete regional sampling, reconnaissance drilling and resource drilling on highly ranked targets.
- Priorities 1 and 2 sampled
- Priority 3 to be sampled



Laterite IAC v Hard rock Mine Costs

IAC deposits are low capex compared to most hard rock deposits, low environmental impact and simple metallurgy compared to hard rock deposits.

CAPEX and OPEX

The **Araxá project** in Brazil has a LoM (life of mine) of 40 years and overall total indirect and sustaining expense of \$589,000,000 (O'Brien et al 2025)

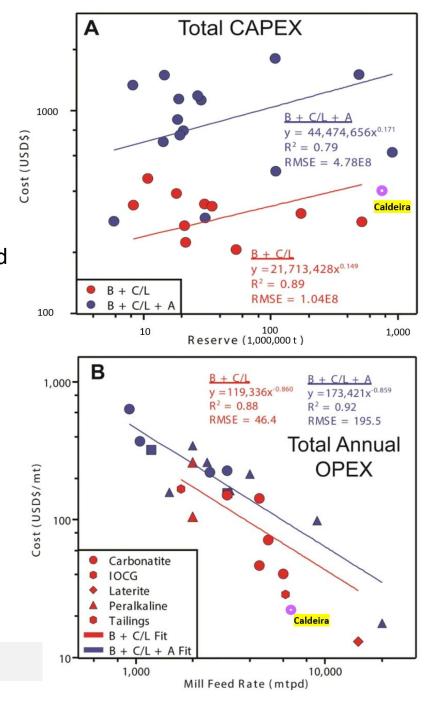
Nechalacho project in Canada has an expected LoM of 11 years and total indirect and sustaining expense of around \$1.3 billion; CAPEX approx \$291, 3 mtpy (Vital Metals 28 June 2025)

Caldeira project LoM 20 years and AISC of 184,000,000 Capex \$403,000,000 for a production rate of 6 mtpy (Meteoric Resources 22 October 2024)

OPEX especially, varies based on the mine type, mill capacity, project location, mill head grade, the ore minerals being processed (bastnasite vs. monazite vs. zircon), end-products produced (mixed rare earth concentrate (MREC) vs. individual REO)), and the purity of the end-product (O'Brien et al 2025).

The ion-adsorption clay metallurgy enables the Caldeira Project (MEI) to produce Mixed Rare Earth Carbonate (MREC) at lower costs and energy consumption compared to hard rock deposits, (Rare Earth Exchanges March 17 2025)

B = Beneficiation, C/L = Acid cracking and leaching, A = Advanced Separation of REE





Lithium Projects

Gold Mountain has several Lithium Projects across Brazil, including the Lithium Valley Project, which consists of 46 tenements in one of the most sought-after addresses in lithium exploration: Brazil's Lithium Valley. GMN's neighbours include Atlas Lithium, Sigma Lithium, Rio Tinto, and Latin Resources (Pilbara Minerals). Gold Mountain's ground includes several known LCT pegmatite occurrences and the widespread presence of indicator minerals and geochemical elements in rock and sediment samples.

The 4 main project areas:

Lithium Valley

- Bananal Valley drill permitting stage
- Agua Boa drill permitting stage
- Salinas South drill targeting stage

Seridó Belt

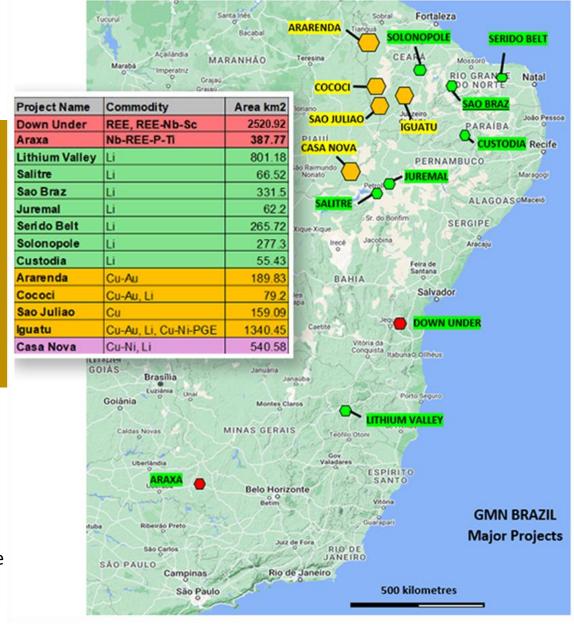
Abundant pegmatites identified – 2 projects @ drill targeting stage

Solonópole Belt

Major anomalies at drill targeting stage

Juremal Region

- Emerging area with LCT pegmatites identified containing spodumene
- Drill targeting stage



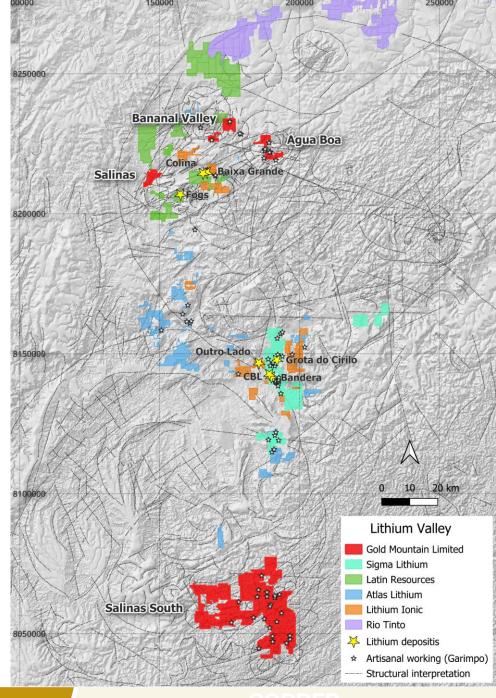
GMN / ASX Announcement / 13th January 2025

GMN / ASX Announcement / 22nd August 2024

Lithium Valley Project | Exploration

Targeting:

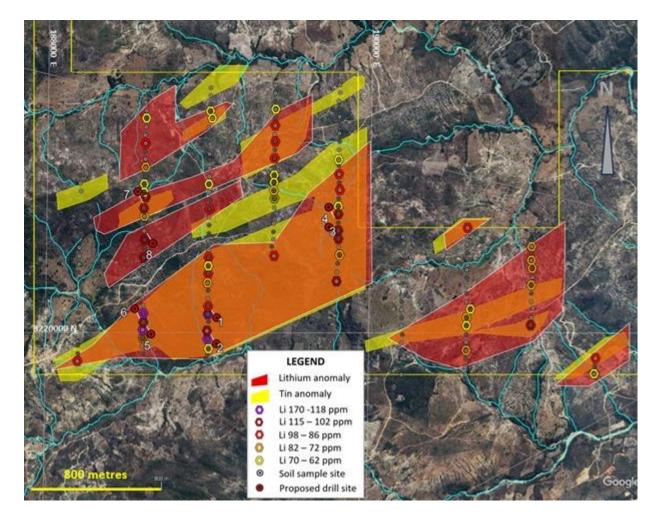
- Structural approach
- Mapping, magnetics, radiometrics and topography
- Pegmatites and pathfinder minerals present
- Numerous NE trending corridors identified
- Latin Resources Colina deposit located on a NE trending "lithium corridor"



Lithium Valley Project | Exploration

Agua Boa Prospect:

- Structural approach
- Mapping, magnetics, radiometrics and topography
- Pegmatites and pathfinder minerals present
- Numerous NE trending corridors identified
- Latin Resources Colina deposit located on a NE trending "lithium corridor"



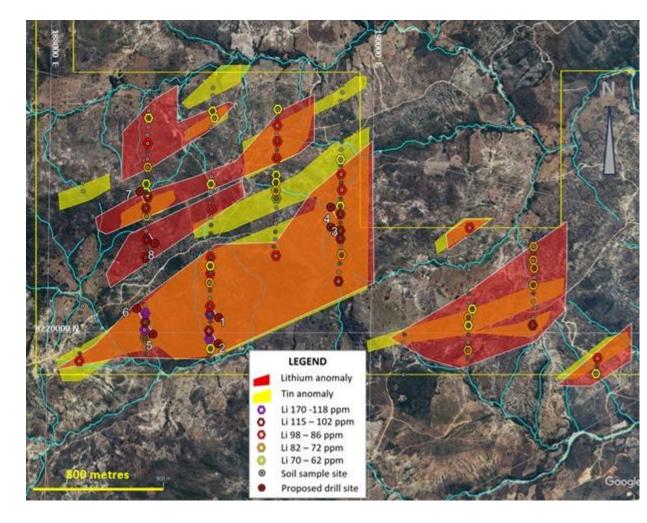
Lithium Valley Project | Exploration

Agua Boa Prospect:

- Drill holes shown over the lithium and tin anomalies in the southern part of the Agua Boa tenement.
- This map shows drill holes and lithium associated anomalies in the northern part of the Agua Boa tenement where lateritic weathering is more commonly preserved.
- This is where less readily leached elements are very useful to define zones of pegmatites.

Targeting uses:

- structural approach
- Mapping, magnetics, radiometrics and topography
- Pegmatites and pathfinder minerals present
- Numerous NE trending corridors identified
- Latin Resources Colina deposit located on a NE trending "lithium corridor"



Copper-Gold Projects

Gold Mountain has several projects in northern Brazil that are prospective for Copper and Gold mineralisation.

The 2 main project areas:

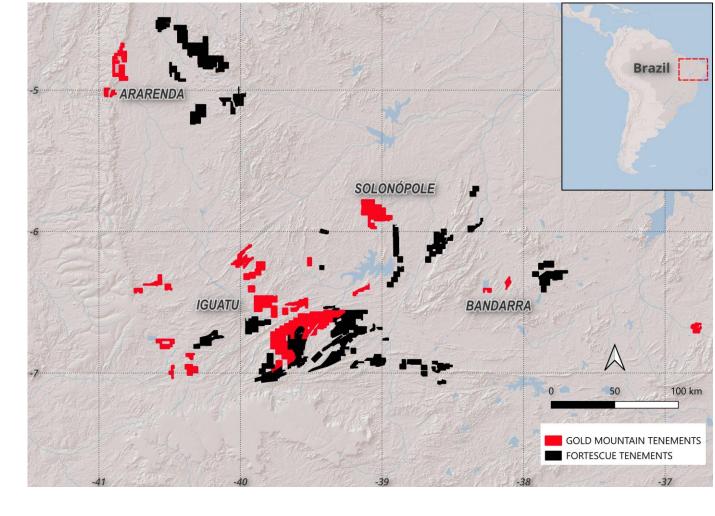
• Iguatu region

- 38 km² Cu anomaly, potential open to north
- 14 km² Cu anomaly open to north
- Cu-Ni anomaly identified with 4 applications to cover probable extensions

Ararenda region

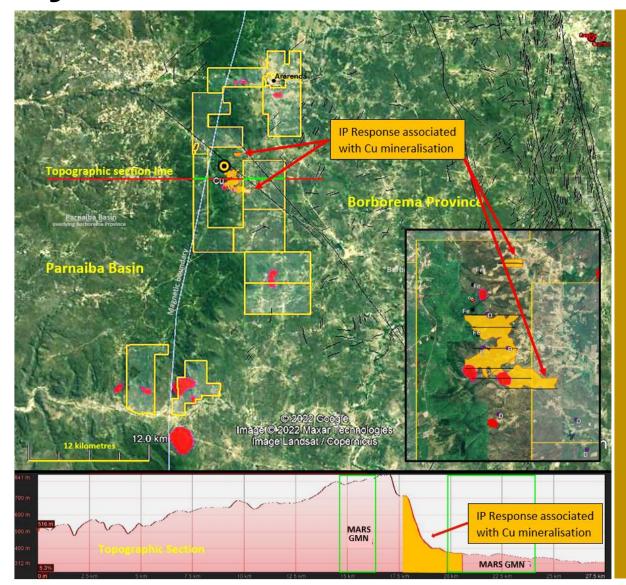
- Licences surround known IOCG copper with economic grade reported
- Stream sediment sampling completed
- IP extends into GMN tenement
- Northern anomalies are higher values than on known mineralisation on adjacent competitor ground

Copper anomalies in the northern part of the Project area. The known 1% copper mineralisation, located just north of the main IP anomaly, has notably weaker stream sediment copper anomalies than the anomalies identified further to the north.



Ararenda Copper-Gold Project

- Ore grade copper analysed, >1% plus 0.16 g/t Au adjacent to GMN ground.
- 3%+ chalcopyrite in rock estimated (Silva 2016).
- Breccia hosted IOCG Style: median grade 1.1% Cu 0.48 Au, 120 mt (USGS 2007).
- IP modelling of 70 million m³ of high chargeability rock to 180 m depth (Silva 2016).
- IP open to the SE, limited by line length. Extends into GMN tenement in the SE and extends 3.7 km north, close to GMN tenement boundary. Open in all directions



Copper-Gold Projects

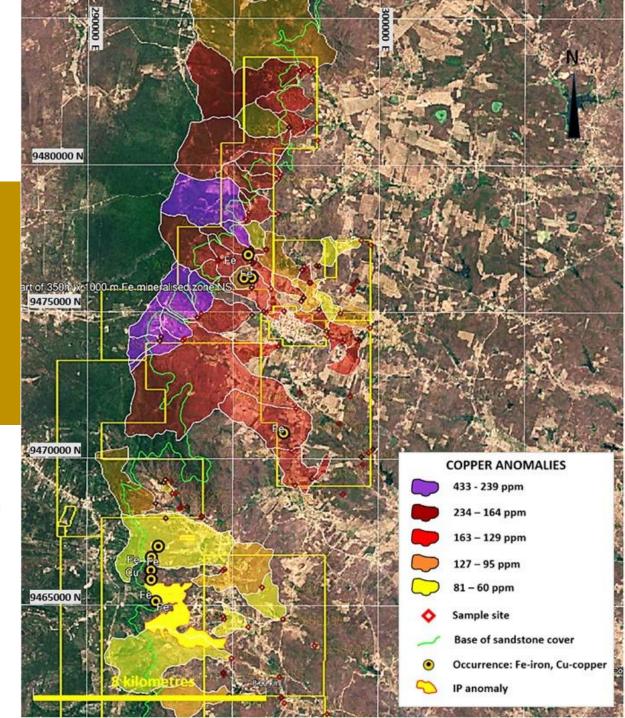
Gold Mountain has several projects in northern Brazil that are prospective for Copper and Gold mineralisation.

The 3 main project areas:

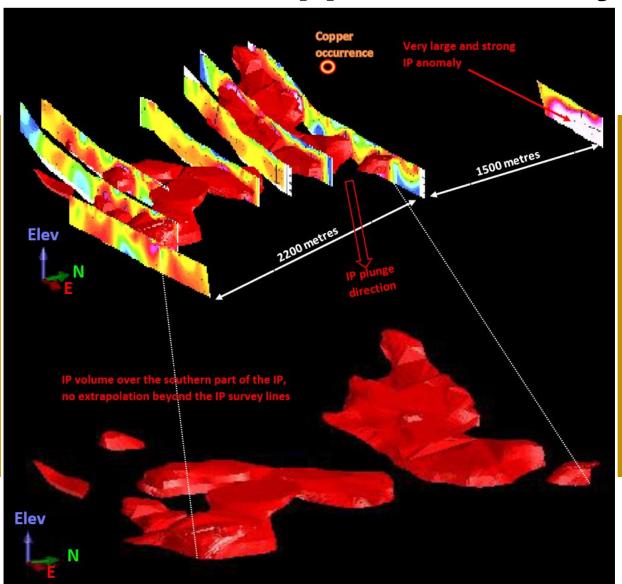
Ararenda region

- Licences surround known IOCG copper with economic grade reported
- · Stream sediment sampling completed
- IP extends into GMN tenement
- Northern anomalies are higher values than on known mineralisation on adjacent competitor ground

Copper anomalies in the northern part of the Project area. The known 1% copper mineralisation, located just north of the main IP anomaly, has notably weaker stream sediment copper anomalies than the anomalies identified further to the north.



Ararenda Copper-Gold Project



- GMN tenements surround the known mineralisation
- IP close to GMN tenement boundary in the north; in the southeast IP extends into GMN tenement
- Substantial areas of Fe alteration known in GMN tenements that have not been tested
- Magmatism possibly associated with mineralisation identified
- Stream sediment sampling completed
- IP and drilling are the next steps

Silva 2016

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