



Supply Critical Metals

Brazil **Li + REE**

Western Australia **Au**

Botswana **Cu-Ni-Ag**

ASX:SI6

Corporate Presentation
August 2024

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The Company confirms that it is not aware of any new information or data that materially affects the information included in this announcement. No exploration data or results are included in this document that have not previously been released publicly. The source of all data or results have been referenced.

Competent Person Statements

The information in this report that relates to Exploration Targets and Exploration Results is based on historical exploration information compiled by Mr Paul Woolrich, who is a Competent Person and a Member of the Australian Institute of Mining and Metallurgy. Mr Woolrich is a consultant to Si6 Metals Limited. Mr Woolrich 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 the reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Woolrich consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this announcement that relates to the Estimation and Reporting of Mineral Resources has been reviewed by Mr Paul Woolrich, who is a Competent Person and a Member of the Australian Institute of Mining and Metallurgy. Mr Woolrich is a consultant to Si6 Metals Limited. Mr Woolrich 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 the reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Woolrich consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Market Cap

(close price at 28/08/2024 \$0.002)

\$5.2M

Total Shares

2.6B

Options

(ex.\$0.01)

1.1B

Cash

(at 30/06/2024)

\$0.3M

BOARD OF DIRECTORS

Ian Kiers

Non-Executive Chair

Dr Paul Woolrich

Technical Director

Patrick A Volpe

Non-Executive Director

KEY SHAREHOLDERS

Top 20 35.5%

Board (excluding Foxfire Metals) 9.1%

Foxfire Metals¹ (escrowed) 8.1%

¹Foxfire Metals Pty Ltd is a related entity to Patrick Volpe. 209M shares and 209M options are subject to voluntary escrow restrictions for 12 months commencing 8 February 2024

SI6 – Restructuring into a Brazil-focussed Company



The Company is re-structuring its assets to realise value from its two significant JORC Resources in Botswana and Western Australia and is now focusing on its major Lithium and Rare Earth Elements assets in the globally important critical metals/minerals jurisdiction of Brazil.

Fully-focussed on unlocking the significant upside in multiple large-scale projects

Lithium

3km Pegmatite Corridor within 25km from Sigma's LCE-producing mine

Padre Paraíso 3km pegmatite corridor with anomalous lithium zones **ready to be drilled**

Araçuaí adjacent to Atlas Lithium and 25km from Sigma's world class lithium-producing mine

Salinas prospects along NE-SW trending structure of Latin Resources' major lithium discovery (company is subject to a takeover bid from Pilbara Minerals Limited)

Rare Earth Elements

Major 26km Radiometric Strike uncovered over a large circular intrusive signature

Pimenta REE potential low CAPEX/OPEX allanite-hosted REE discovery area

Caldera REE exceptionally high grade REE intercepts up to **5,485ppm TREO** (36% high-value magnetic rare earth oxides) at surface. Open at depth with previous auger drilling only to average 10m depth.

Unlocking Value

Market capitalisation \$5.2M (at \$0.002 close 27 August 2024)

Strong Board and major shareholder support (17.2% of shares on issue)

Botswana Ni-Cu-PGE Resource: ongoing discussions with various parties to maximise shareholder value

WA/Leonara 154koz Gold Resource: strategic review of opportunities to either grow project or a corporate event

Brazilian Critical Metals Assets Amongst Major Players



Lithium Valley

- **Padre Paraíso:** 3km **pegmatite corridor**, 25km from Sigma Lithium's 94Mt M+I Resource @ 1.4% Li₂O¹
- **Araçuaí:** 25km from Latin Resources' Colina Resource of 77.7Mt @ 1.24% Li₂O²
- **Salinas Prospects:** along NE-SW structural trend shared with Latin Resources

Pimenta REE

- Massive **26km radiometric strike**
- Circular radiometric signature indicative of allanite-hosted REE
- Allanite is a low processing cost, high grade rare earths host mineral

Caldera REE

- Exceptionally high grade REE intercepts
- Up to 5,485ppm TREO (36% high-value magnetic rare earth oxides) **at surface**.
- Open at depth with previous auger drilling only to average 10m depth.
- Adjacent to Meteoric Resources' Globally significant Caldeira REE Resource³

Pedra Brancha Au-PGE

- Located within Troia mafic/ultramafic unit along the strike extension of ValOre's Pedra Brancha 2.2Moz 2PGE +Au (Pt+Pd+Au)⁴.
- East of South Atlantic Gold's 180koz Au Resource at surface (average 30m depth)⁵



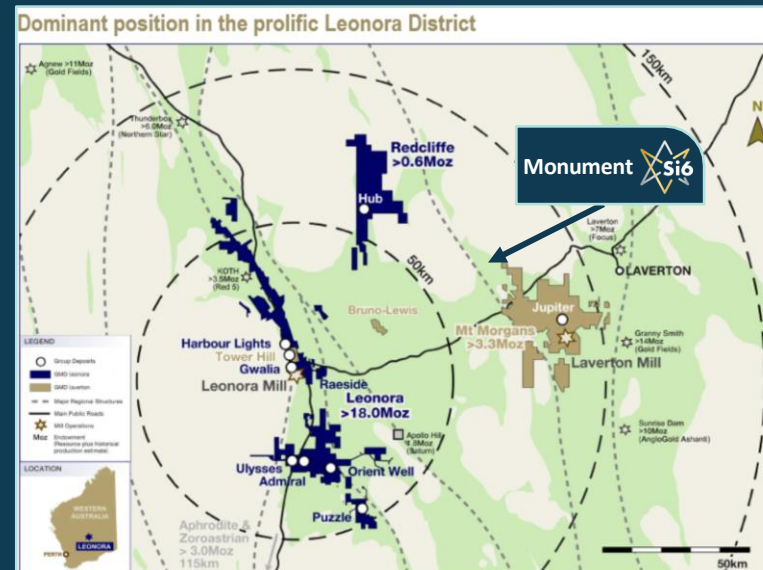
Botswana

- **Maibele North** : Inferred Resource 2.4Mt @ 1% Ni equivalent
- **Dibete: Cu-Ag** includes **11m @ 4.5% Cu, 229.9g/t Ag**
- **Airstrip: Cu-Ag** includes **3m @ 22.74% Cu, 1,379g/t Ag**
- **Ongoing discussions with various parties to maximise shareholder value**



Western Australia

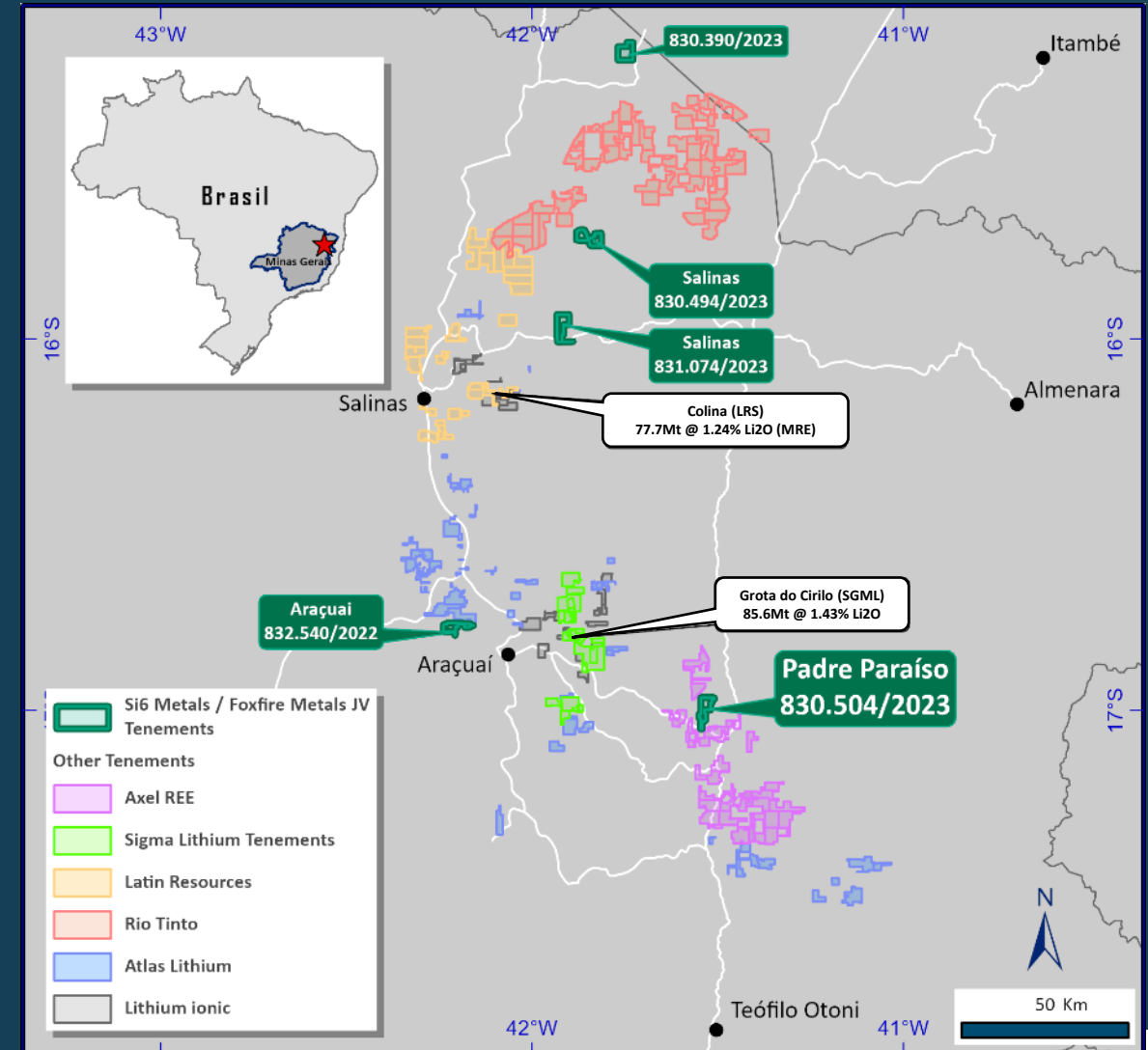
- **Monument Gold Project**: In the Prolific Leonara Gold District
- Along strike to **Genesis Minerals (ASX:GMD) Mt Morgans 3.3Moz Project⁶ (market cap \$2.43B)**
- Monument: current JORC Inferred Resource of **154koz Au**
- Multiple untested targets
- **Reviewing opportunities for project growth and/or corporate events**



Source: Genesis Minerals Limited Company Presentation⁶ with Si6 Monument Project location added

Pilbara Minerals to Acquire Latin Resources

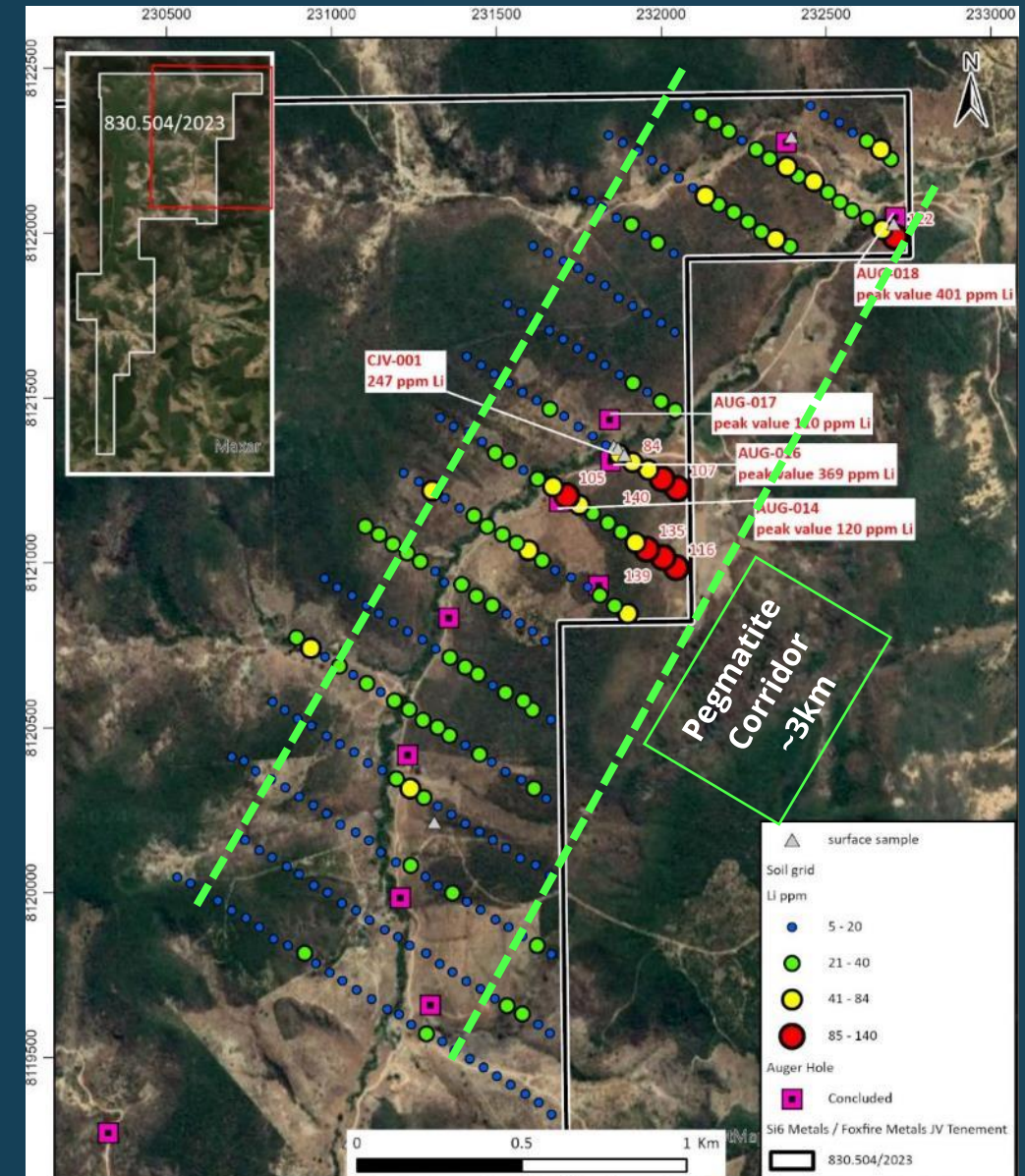
- ASX:PLS has entered a Scheme Implementation Agreement for 100% of the shares in Latin Resources Limited at implied value of \$0.20 per share (57% premium to LRS 10-day volume weighted average price of \$0.127 per share)⁷
- Latin Resources Colina project has a 77.7Mt @ 1.24% Li₂O MRE in the northeast of the Lithium Valley
- Si6's **Salinas Projects** located ~25km from Latin Resources and **Araçuaí and Padre Paraíso projects** are ~20km from Sigma Lithium's Grotta do Cirilo LCE mine



Lithium Valley Map with Si6 Project locations with major lithium discoveries

3km Pegmatite Corridor

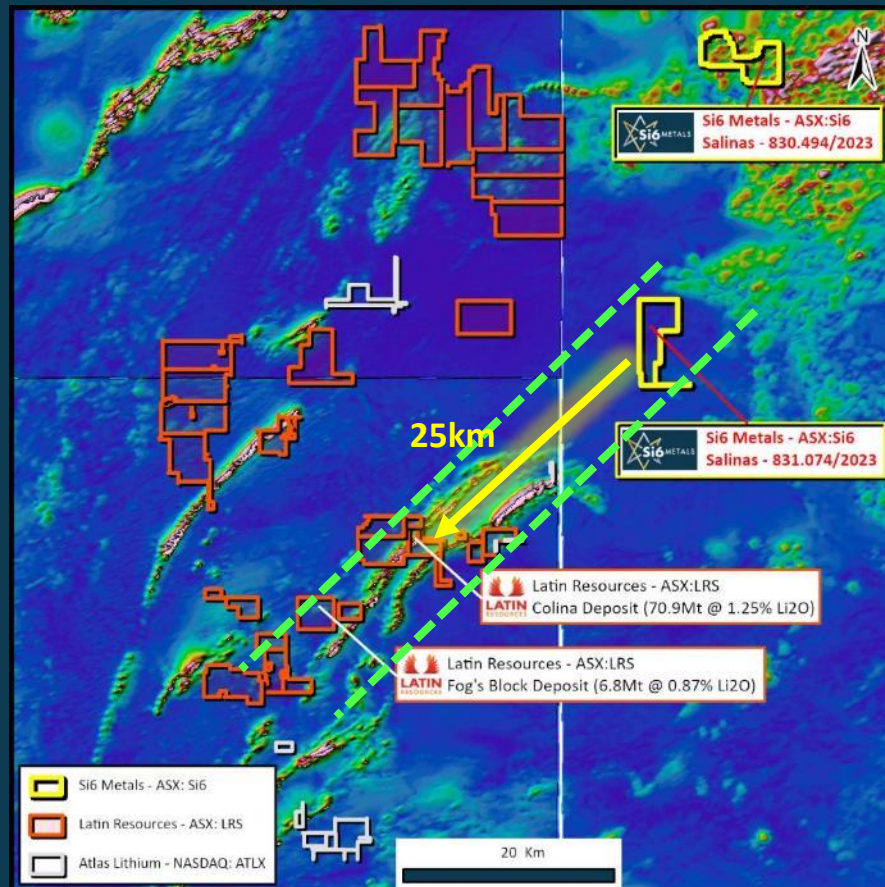
- ~25km from Sigma Lithium's 85.6Mt @ 1.43% Li₂O Grota do Cirilo Resource
- 3km x 800m pegmatite corridor discovered
- Multiple elevated Li surface sample zones up to 401ppm Li, significant against background and indicator for lithium mineralisation below surface (in the pegmatites)
- Anomalies concentrated in Salinas formation zone associated with pegmatite intrusives (**same geological setting as discoveries by Sigma and Latin Resources**)
- Soil sampling of the target zones for Lithium bearing pegmatites will be carried out to define lithium anomalies to be drilled to locate lithium bearing pegmatites at depth



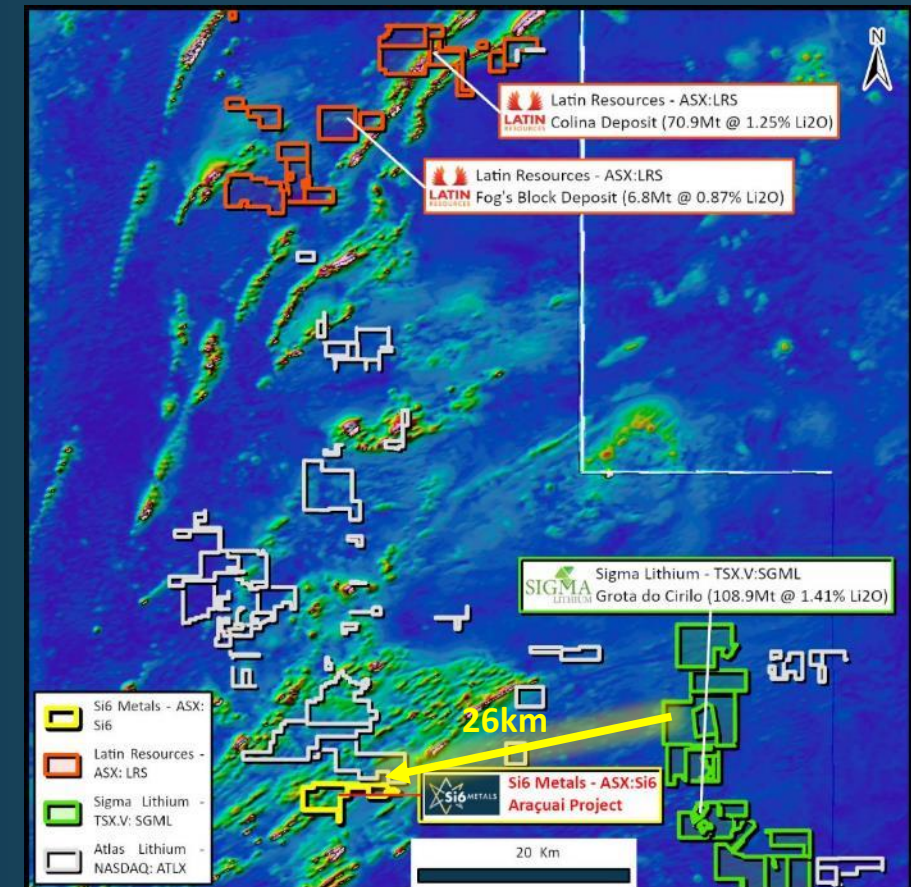
3km pegmatite corridor with multiple elevated lithium zones against background

Lithium Valley – Untested Araçuaí and Salinas Prospects

- **Salinas Prospects** along trend with Latin Resources' 71Mt @ 1.25% Li₂O Colina MRE
- *Yet to be tested, along the same NE-SW structural trend as Latin Resources*
- **Aracuai Li prospect** ~26km from Sigma Lithium's Grota do Cirilo 270 Kt/y "Green Lithium" producing spodumene mine
- *Yet to be tested over strong magnetic signature*



Si6 Salinas prospects against aeromagnetic imaging and along NE-SW trend from Latin Resources



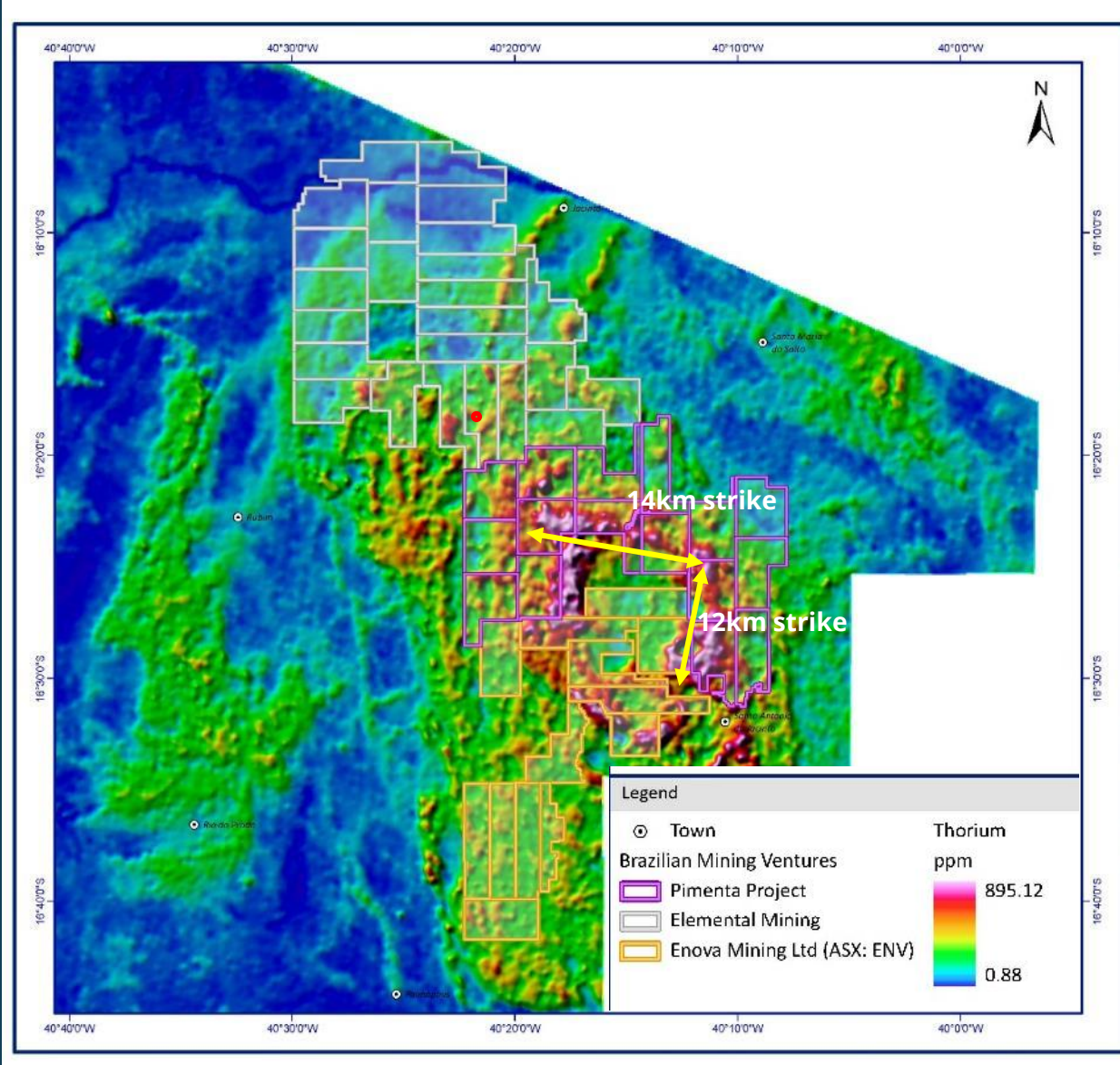
Si6 Salinas prospects against aeromagnetic imaging ~25km from Sigma

Interpreted Large Allanite-hosted REE System

- **26km of strong anomalies** showing elevated thorium responses, a strong indicator for REE mineralisation
- Thorium/potassium (Th/K) ratio also indicative of REE-bearing rocks in the subsurface
- Interpreted allanite-hosted REE area, other deposits include ASX:ARR's Halleck Creek **2.34Bt @ 3,196ppm TREO in-situ Resource⁸**
- Allanite-hosted REE deposits typically are high-grade with low CAPEX and OPEX costs

Geological Characteristics			
Deposit Comparison	Allanite: Halleck Creek (ASX:ARR)	Conventional Hard Rock	Ionic Clay
Grade	4-5% TREO	~6% TREO	0.07% TREO
Low Penalty Elements (U/Th)	✓	✗	✓
Processing	Tank Leaching	Acid Bake/Cracking	In-Situ Leaching
ESG Positive Inputs	✓	✗	✓
Reduced CAPEX and OPEX	✓	✗	✗

Source: Excerpts from American Rare Earths (ASX:ARR) Scoping Study Presentation (18 March 2024)

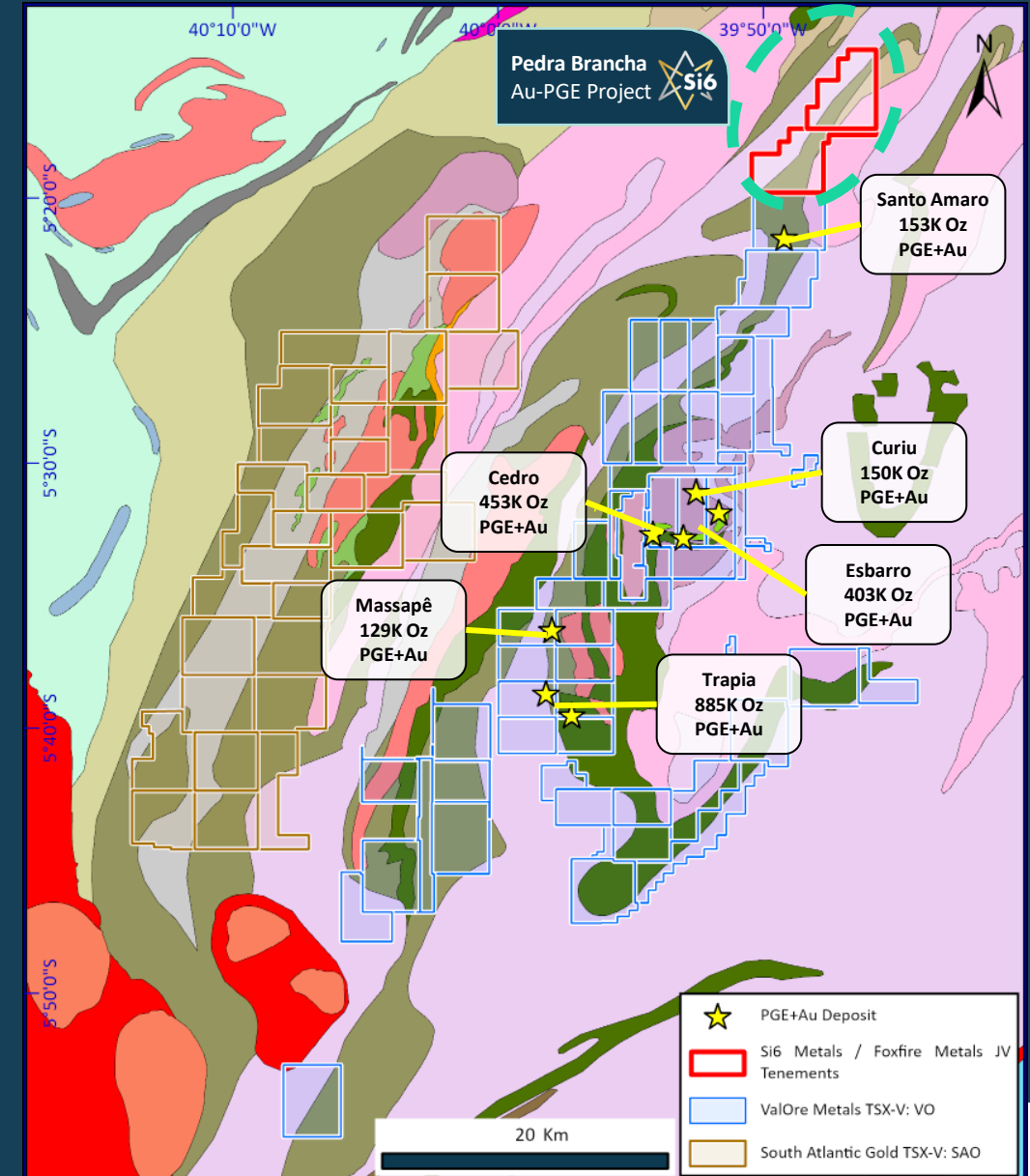


Thorium radiometric imaging showing circular intrusive signature over Pimenta tenements

Pedra Brancha Au-PGE



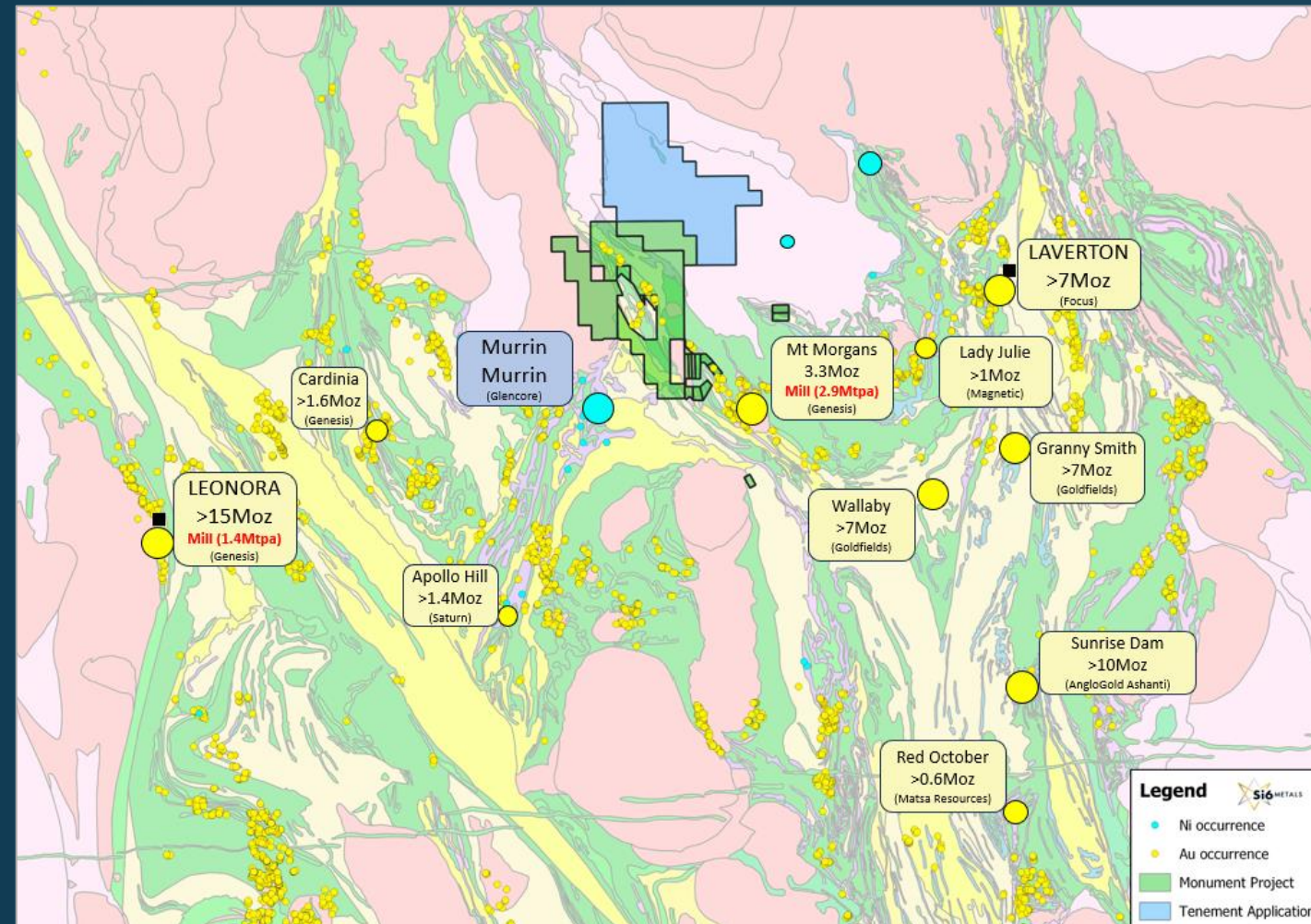
- Within Troia mafic/ultramafic unit along the strike extension of ValOre's Pedra Brancha **2.2Moz 2PGE +Au (Pt+Pd+Au)**.
- Located northeast Brazil with access to infrastructure
- PGE + Au reef associated with chomitite bands within layered intrusion, often with exceptionally high grades of >10g/t Pt+Pd+Au.
- These deposits are geologically similar to the Merensky Reef in the Bushveld complex of South Africa.
- East of South Atlantic Gold's **180koz Inferred Resource averaging 30m from surface**
- Mapping and Geochem sampling program to commence in due course to test the gold and PGE potential of the ultramafic sequence and define future drill targets



Right: Geological mapping of Pedra Brancha Project, showing potential extension of ValOre's 2.2Moz 2PGE+Au Resource

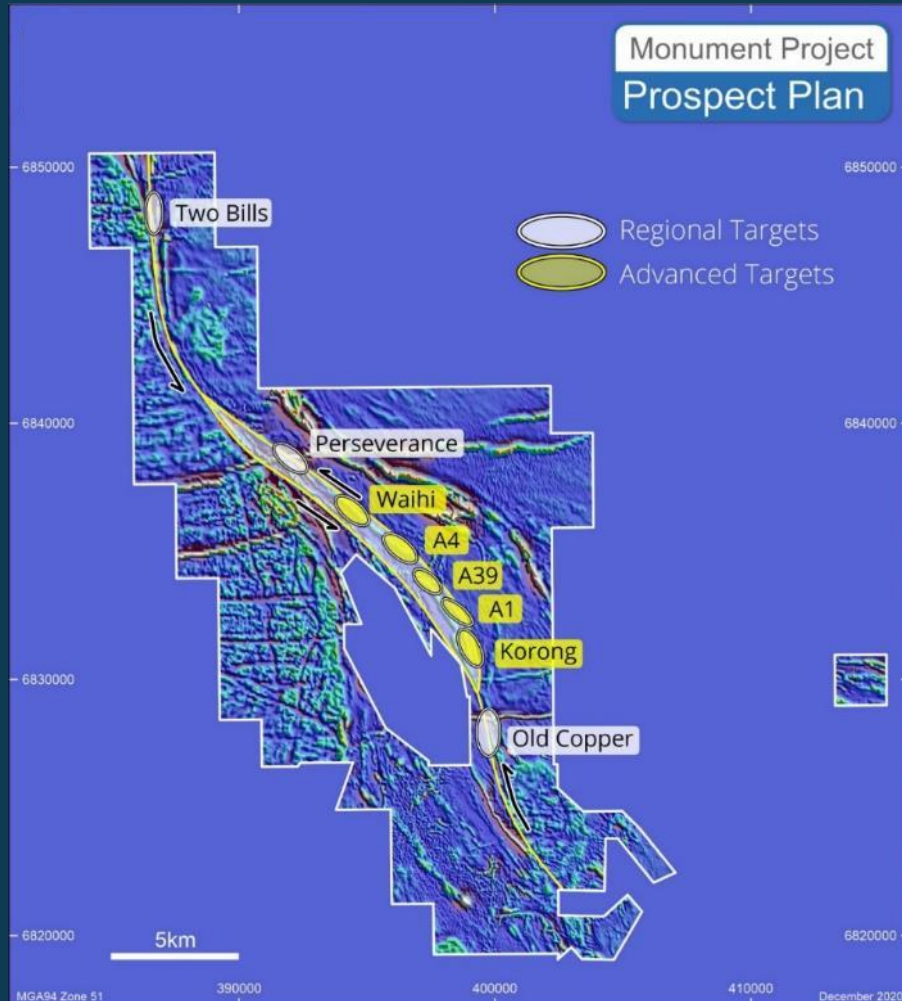
Multi-Million Ounce Gold District

- **3.26Mt @ 1.4g/t Au JORC (2012) Inferred Resource (154koz Au)**
- 100% owned, located near major multimillion ounce gold deposits and several mills
- Along strike of Genesis Minerals' 3.3Moz Mount Morgans Project. Other nearby deposits include:
 - Goldfields' **8Moz Granny Smith, 7Moz Wallaby**
 - AngloGold Ashanti's **10Moz Sunrise Dam**
 - Magnetic Resources' Lady Julie discovery
- Exceptional exploration potential with > 20km of Drill targets at Fred's Well and North Well with significant intercepts including⁷:
 - 24m @ 3.24 g/t Au from 44m; including
12m @ 6.35g/t Au
 - 8m @ 2.06 g/t Au from 40m
 - 3m @ 3.98 g/t Au
- Additional assessment of the gold potential of Fred's Well and North Well gold prospects planned with follow up soil sampling and AC/RC drilling

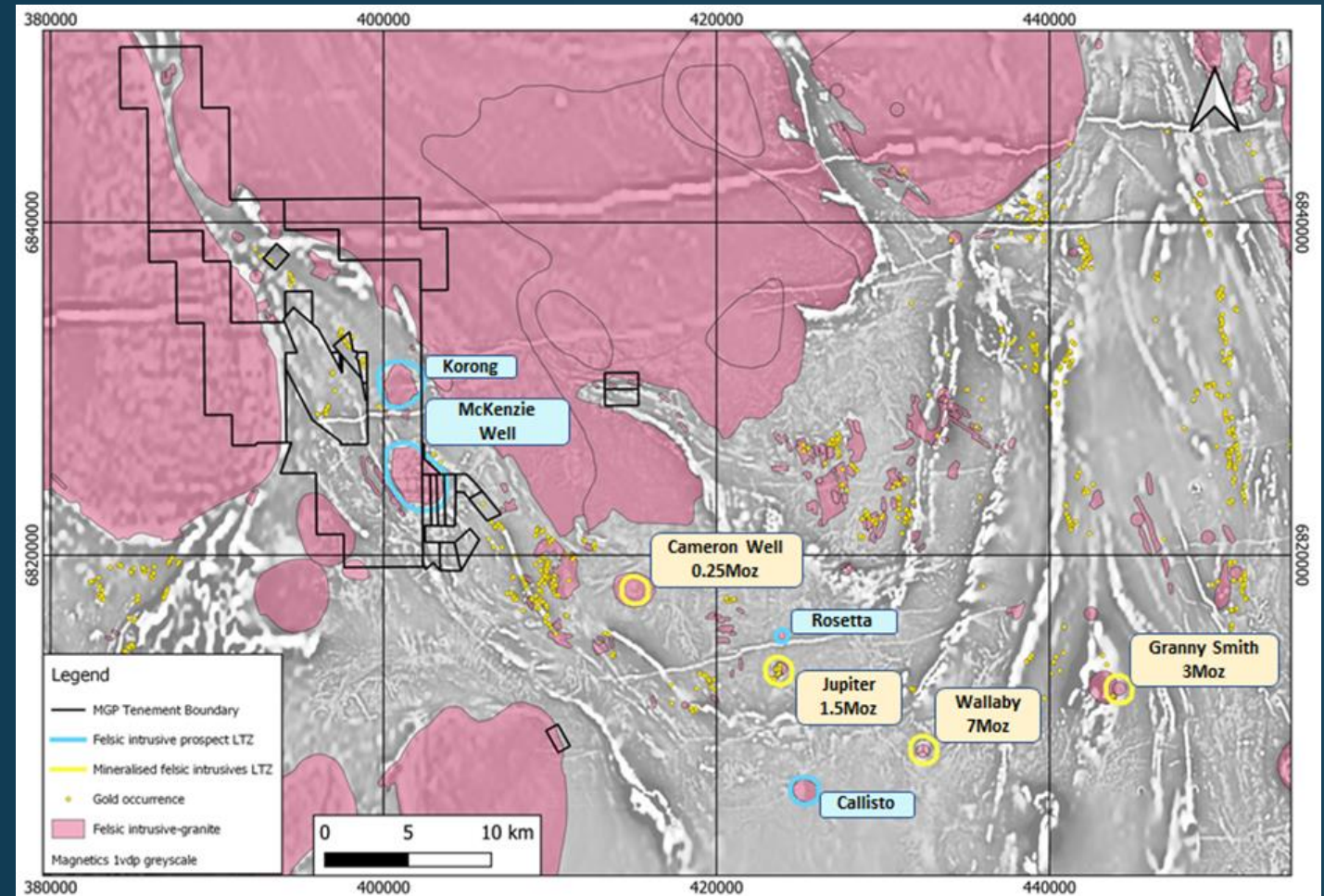


Si6's Monument Gold Project in the Leonara Gold District

Multiple Targets Primed for a Major Discovery



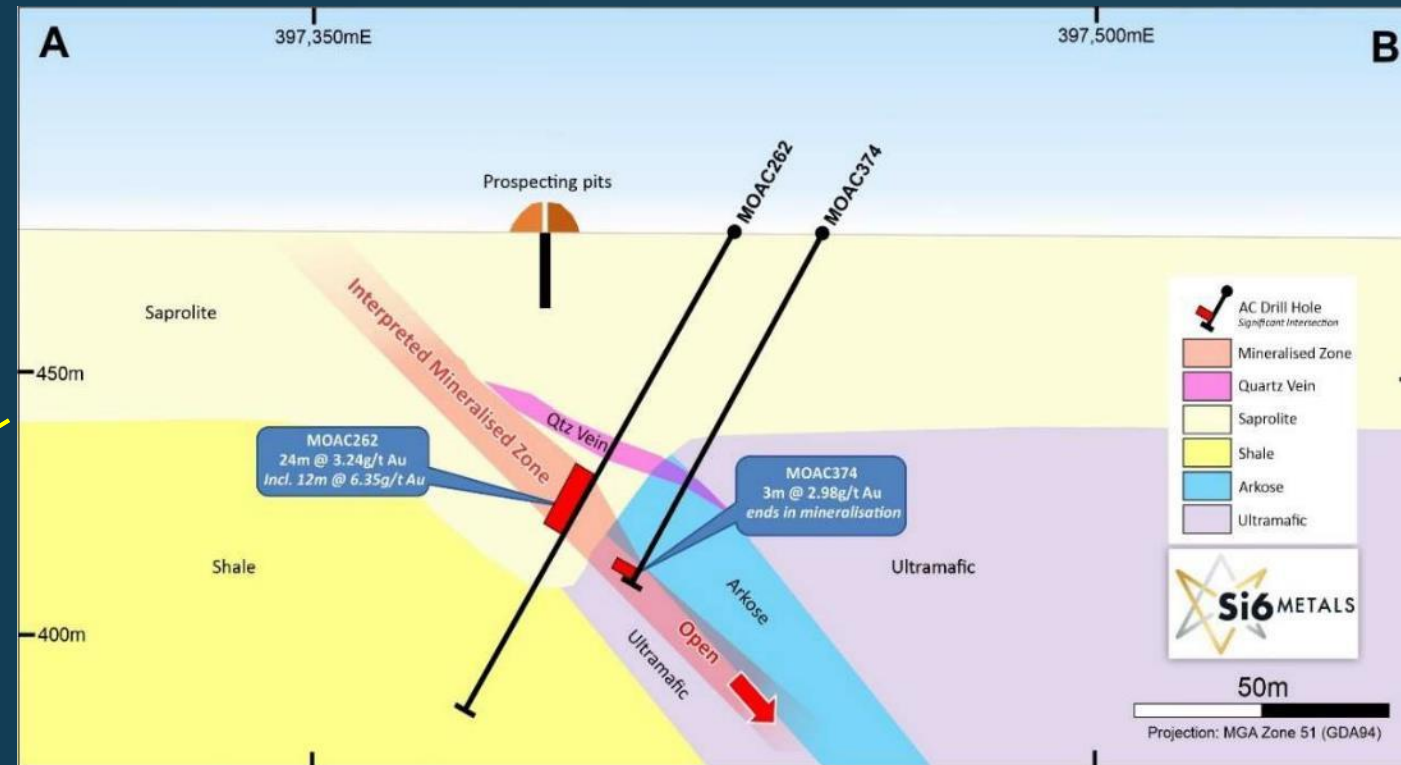
~20km of BIF-hosted geology similar to Genesis' adjacent 3.3Moz Mt Morgans mine



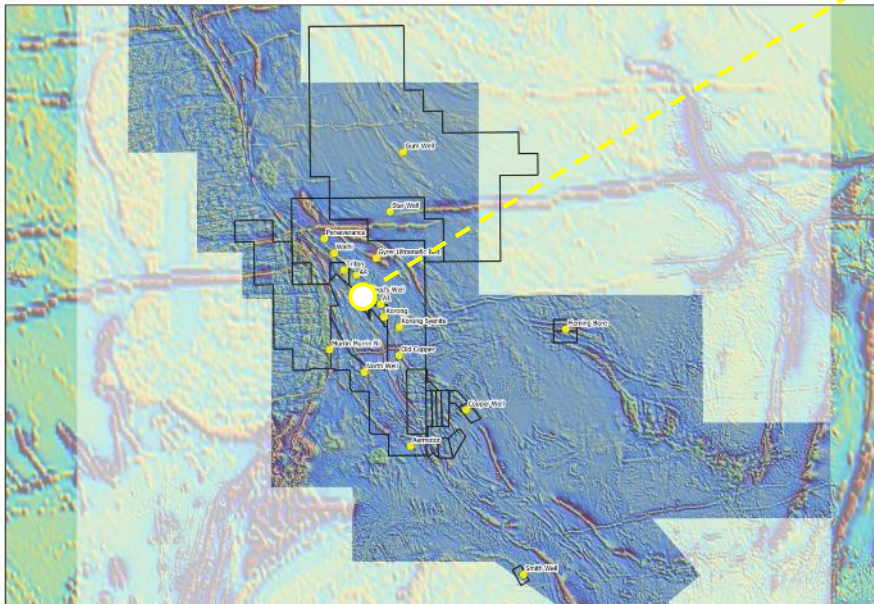
Felsic / syenite-hosted geology like major nearby deposits such as Wallaby and Jupiter highlights multi-million-ounce discovery potential

770m Strike Trend, Only 400m Drilled

- Along strike of current 154koz Resource⁹
- High grade historical drill intersections at Fred's Well include:
 - 24m @ 3.24g/t Au** (MOAC262 from 44m) including **12m @ 6.35g/t Au**;
 - 8m @ 2.09g/t Au** (MOAC265 from 40m);
 - 8m @ 1.48g/t Au** (MOAC256 from 36m);
 - 12m @ 1.01g/t Au** (MOAC277 from 20m); and
 - 3m @ 2.98g/t Au** (MOAC374 from 72m) ending in mineralization
- Future program to assess the gold potential with follow up AC/RC drilling



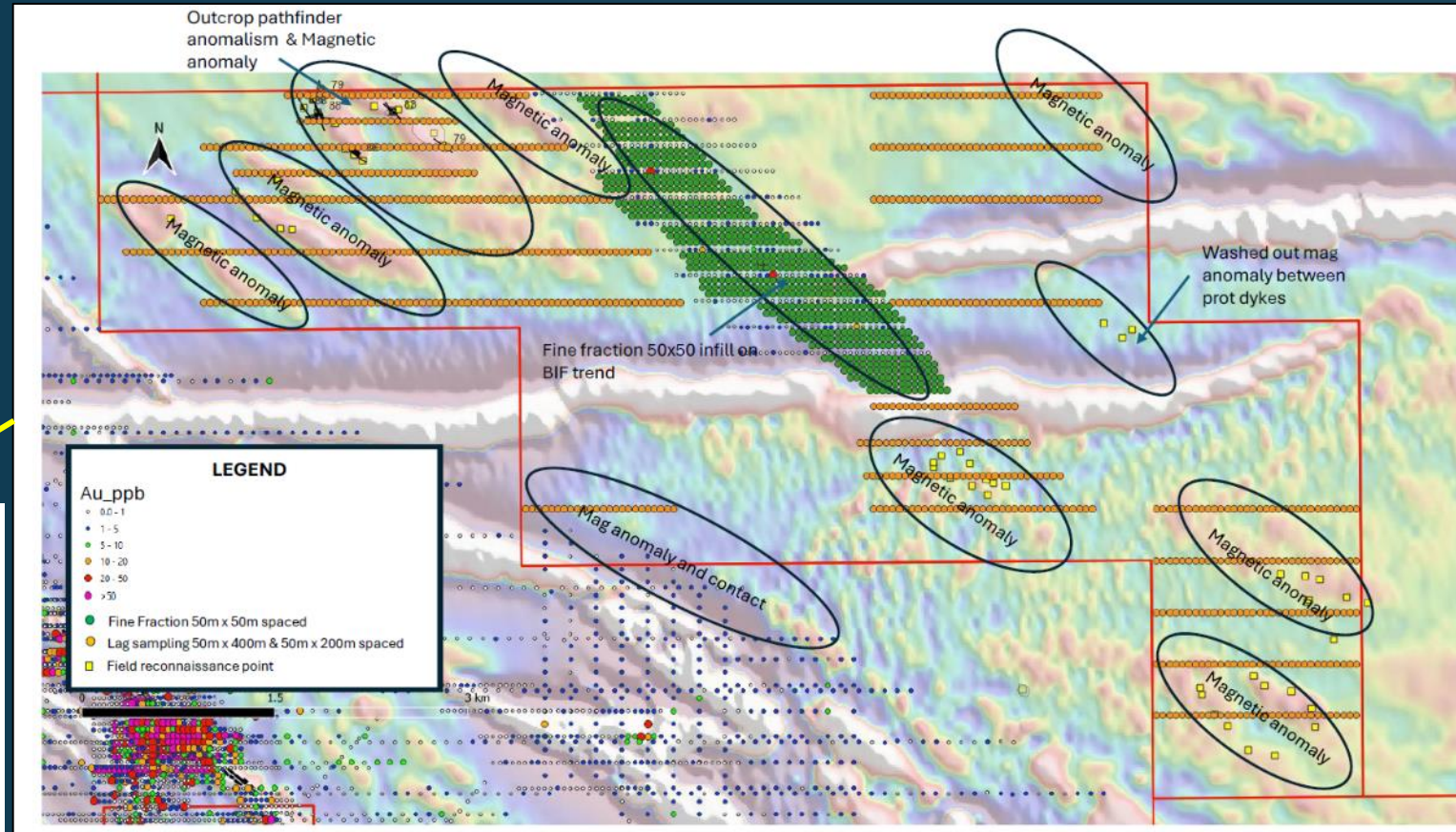
Above: Fred's Well showing aircore drilling intercepts.



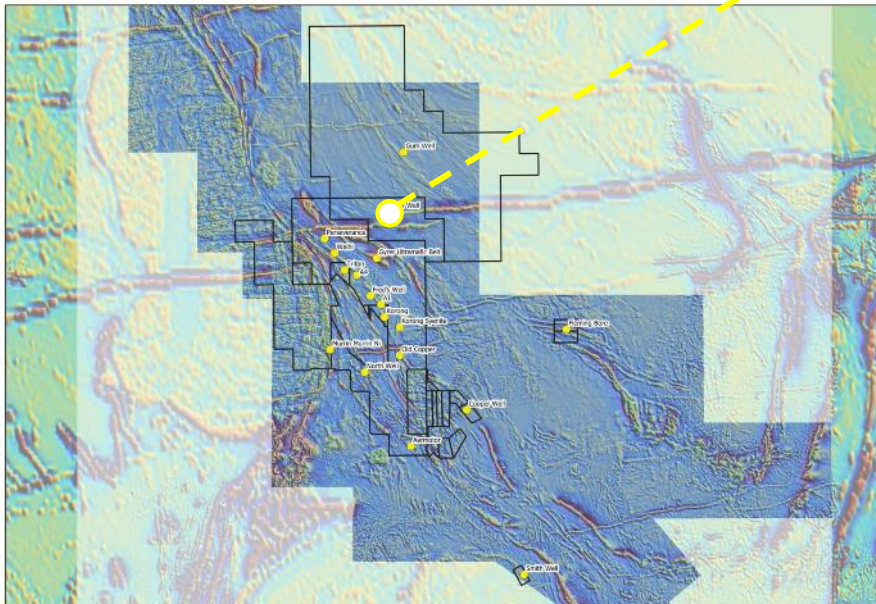
Left: Monument key project targets

Untested Magnetic Anomalies

- Soil sampling program in progress?
- Comprises regional lag samples and fine fraction soil samples across 57 lines and aims to:
 - (a) follow up on an anomalous gold BIF trend; and
 - (b) test previously untested magnetic anomalies.



Above: Star Well soil and lag sampling. Results pending



Left: Monument key project targets

2,900km² Project Portfolio

At surface, mineable discoveries <1km depth (Selebi Mine was at depths >1.5km)

Historical High-Grade Drill highlights²:

Maibele North:

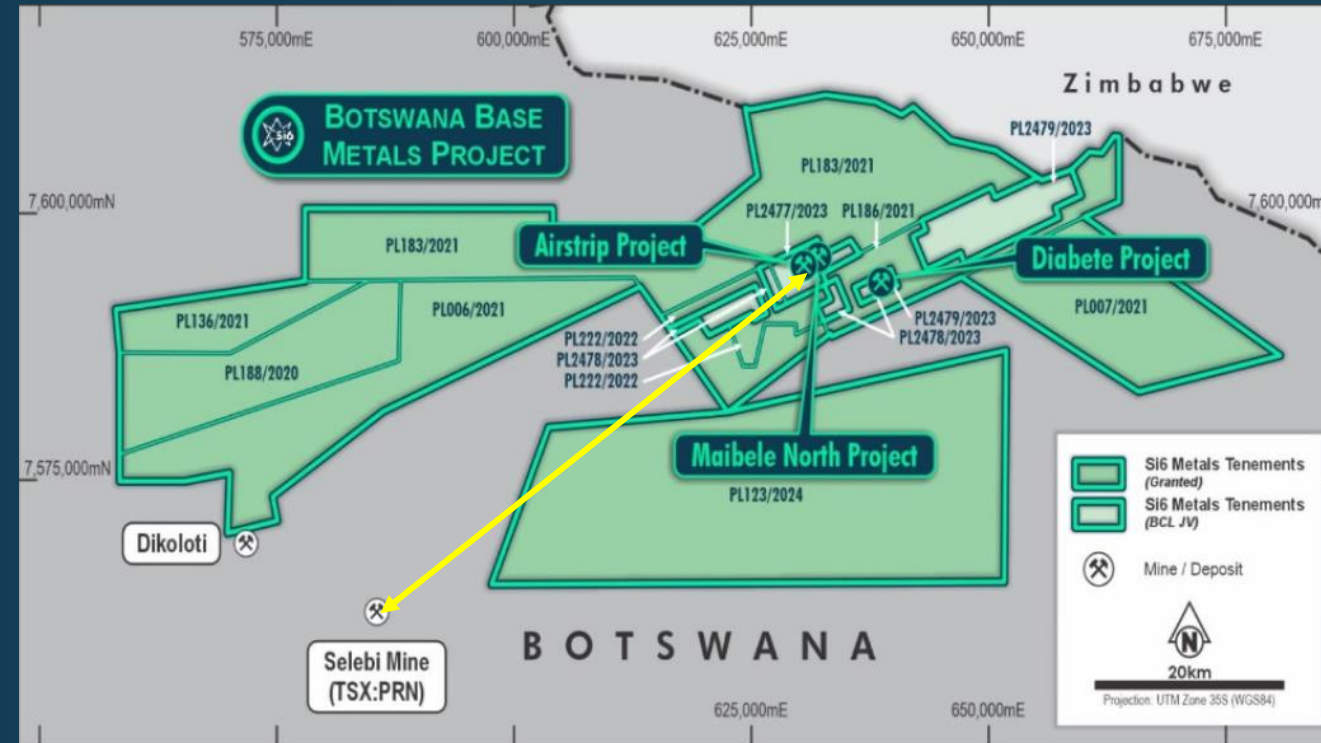
- JORC Inferred Resource 2.38Mt @ ~1% Ni Equivalent (26.6Mt @ 0.58% Ni was mined from Selebi from 1980 to 2016)

Airstrip:

- 11m at 7.63% Cu, 462g/t Ag from 52m (ACRC003)
incl. 7m @ 11.81% Cu, 717g/t Ag
and 3m @ **22.74% Cu, 1,379g/t Ag**
- 0.9m @ 20.53% Cu, 377g/t Ag from 55m (ACRD032)
incl. 0.35m @ **57.59% Cu, 1,054g/t Ag**

Dibete:

- 11m @ **4.5% Cu, 229.9g/t Ag** from 33m (DBRC028)
- 6.15m @ 7.20% Cu + 182g/t Ag from 24.85m (DBRD149)
incl. 0.5m @ 10.8% Cu + 281g/t Ag
and 1.0m @ **13.0% Cu + 168g/t Ag**



Maibele North Resource is <50km from Selebi mine & processing infrastructure

Strategic review of Botswana portfolio continuing and discussions ongoing with various parties to maximise shareholder value

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WA/Leonara 154koz Gold Resource: strategic review of opportunities to either grow project or a corporate event

1. <https://sigmalithiumresources.com/grota-do-cirilo/> Measured + Indicated Resource 94.2Mt @ 1.40% Li₂O, Measured + Indicated + Inferred Resource 108.9Mt @ 1.41% Li₂O, Proven + Indicated Reserves 54.8Mt @ 1.44% Li₂O for 1,941Kt LCE
2. ASX:LRS ASX Release 30 May 2024 “Colina Lithium Deposit – Mineral Resource Estimate Upgrade”
3. ASX:MEI ASX Release 13 June 2024 “Capao do Mel Resource Update Doubles Caldeira M&I Resources”
4. TSX-V:VO August 2024 Corporate Presentation https://www.valoreminals.com/_resources/presentations/corporate-presentation.pdf?v=0.952
5. South Atlantic Gold TSX-V:SAO January 2024 Corporate Presentation <https://southatlanticgold.com/wp-content/uploads/2024/01/SAG-Corporate-Presentation.pdf> NI 43-101 Inferred Resource 4.0Mt @ 1.38g/t Au
6. ASX:GMD ASX Release 6 August 2024 “Corporate Presentation – Accelerate – Updated”
7. ASX:PLS and ASX:LRS cross release to ASX on 15 August 2024 “Pilbara Minerals to Acquire Latin Resources”.
8. ASX:ARR ASX release 7 February 2024 “Resource Estimate Increased by 64% - Halleck Creek”
9. Historical Company Results reported from the below Si6 Metals Limited ASX releases:
 - ASX Release 12 August 2024 “Significant Lithium Anomalies at Padre Paraiso”
 - ASX Release 21 June 2024 “Brazil campaign completed with encouraging REE and Li”.
 - ASX release 23 May 2024 “Si6 Secures Prospective Rare Earths Project”.
 - ASX Release 25 March 2024 “Botswana Drill Program Completed - Updated”.

1. Maibele North – Botswana (Joint Venture with BCL Limited, Si6 66%/BCL 34%)

Maibele North - JORC Inferred Resource (cutoff 0.3% Nickel)							
Million Tonnes (Mt)	Ni (%)	Cu (%)	Pt (g/t)	Pd (g/t)	Rh (g/t)	Ru (g/t)	Au (g/t)
2.38	0.72	0.21	0.08	0.36	0.04	0.05	0.10

An initial JORC-compliant (2012) Inferred Resource was calculated at Maibele North by MSA South Africa in 2015 (see Table 1) using a 0.30% Nickel cut-off grade. See the ASX announcement on 28 April 2015 “Maiden Inferred Resource for Maibele North” for further information

2. Monument – Western Australia (100% Owned)

Korong - JORC Inferred Resource (cutoff 0.5g/t Au)			
Deposit	Tonnes (t)	Au (g/t)	Au Contained Ounces (oz)
Korong	3,034,000	1.4	139,000
Waihi	223,000	2.1	15,000
Total	3,257,000	1.4	154,000

JORC-compliant (2012) Inferred Resource was calculated at Korong and Waihi by CSA Global Pty Ltd in 2021 (see Table 2) using a 0.5g/t gold cut-off grade. See the ASX announcement on 2 August 2021 “Mineral Resource Estimate Declared for Monument Gold Project” for further information



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