



# INVESTOR PRESENTATION

Building a portfolio of  
**critical minerals** assets

Botswana – Brazil

SEPTEMBER 2023



# COMPANY OVERVIEW

Strong leadership by a team with over 50 years combined experience in mining/resource project generation and discovery

## CAPITAL STRUCTURE

ASX Code	SI6
Shares on Issue (billion)	1.99
Share Price <small>5 Sep 2023</small>	0.06c
Market Capitalisation	~\$12M
Cash On Hand <small>@ 31 Aug 2023</small>	\$3.0M
Debt	Nil
Enterprise Value	~\$9M
Top 20 Shareholders	30%

## BOARD OF DIRECTORS

Non-Executive Chairman	David Sanders
Managing Director	Jim Malone
Non-Executive Director	Cain Fogarty

## 2023/2024 CATALYSTS

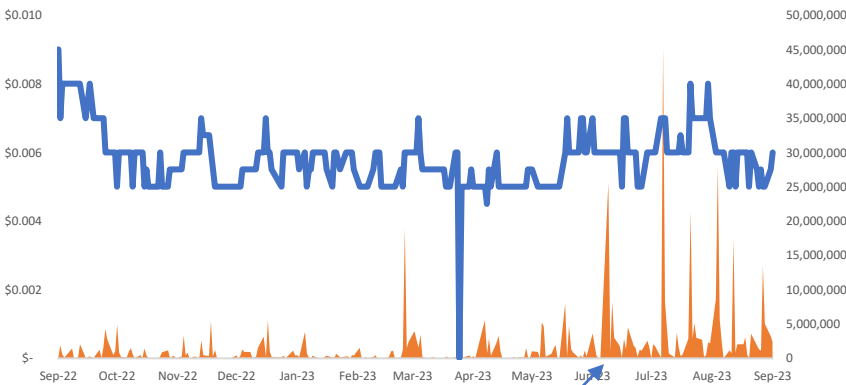
### Botswana

- Targeted Botswana drill programs to advance major discoveries (COMMENCED)
  - Dibete Cu-Ag (ASX release 6 Sep 2023)
  - Airstrip Cu-Ag
  - Infill drilling at Maibele North Ni-Cu-Co to revise Resource from Inferred to Indicated
- Re-estimate Maibele North Resource for \$5M in additional drill holes not previously included in Resource definition

### Brazil (subject to shareholder approval of right to acquire)

- Lithium Valley Geochem program over priority Lithium and REE areas
- REE Geochem program over Caldera project area neighbouring ASX:MEI's Tier 1 ionic adsorption clay MRE 409Mt @2,626ppm TREO (refer ASX:MEI 1/5/2023)

## SHARE PRICE PERFORMANCE



Brazil REE, Li, PGE, Au Portfolio Acquisition

# INVESTMENT PROPOSITION

*SI6 strategically targeting critical minerals*

RIGHT ASSETS	
CRITICAL METALS/MINERALS	
Ni - Cu - Co - PGE	REE & Lithium
<ul style="list-style-type: none"><li>• 3 “Company Maker” Botswana Projects</li><li>• <b>Maibele North:</b> Maiden Inferred Ni-Cu-PGE Resource 2.38Mt - \$5M spend in ground not included in Resource calculation</li><li>• BCL’s Selebi Mine takeover and restart plans by Premium Nickel (TSXV.PRN)</li><li>• <b>Dibete:</b> high grade Cu-Ag mineralisation identified by past drilling (10m @ 4.5% Cu, 229.9g/t Ag at surface)</li><li>• <b>Airstrip:</b> High grade Cu-Ag from past drilling (8m @10.39% Cu, 630g/t Ag at surface)</li></ul>	<ul style="list-style-type: none"><li>• Right to acquire joint venture interest in the Lithium Valley, Brazil* – host to <b>the largest lithium resources in Brazil</b></li><li>• ~8,700 hectares of Li exploration ground amongst lithium producer SIGMA’s (NASDAQ:SGML) lithium spodumene mine and Latin Resources’ (ASX:LRS) Colinas lithium spodumene Resource</li><li>• Lithium ground sits over the “Eastern Brazilian Pegmatite Belt”, known for spodumene-hosting pegmatites</li><li>• <b>Caldera REE Project in Minas Gerais</b> adjacent to Meteoric Resources’ (ASX:MEI) Ionic Adsorption Caldeira REE Resource</li><li>• Additional REE areas in Lithium Valley on G5 supersuite granites, known to typically host lithium and rare earths in pegmatites</li></ul>

\*subject to shareholder approval

# INVESTMENT PROPOSITION

*SI6 market capitalisation of \$12.9M with significant upside value*

## RIGHT PLACES

### TIER-1 PRO-MINING JURISDICTIONS

#### BOTSWANA

- The “Switzerland of Africa”
- Pro-mining jurisdiction – *no Government ownership of mining projects*
- Mining laws reflect Australian mining system
- One of the top African countries for investment<sup>1</sup>
- Lowest perceived corruption ranking in Africa<sup>2</sup>
- Became independent within the Commonwealth in 1966 – Africa’s oldest continuous democracy

#### BRAZIL

- One of the biggest global players mining sector
- Well-developed mining jurisdiction with stable regulatory regime
- World class Lithium, REE, Gold and other mines developed in Brazil and supported by the Mining Department
- Pro-mining, efficient permitting/licensing process and *no government ownership of mining projects*

## FULLY FUNDED

### ~\$3M CASH ON HAND

- Rights issue and oversubscribed shortfall placement complete raising \$2.9M
- Funding to fully focus on advancing projects and developing resources
- Circa 10,000 meters aggressive drill campaign at Dibete, Airstrip and Maibele over known anomalous targets (**Commenced 5 September 2023**)
- Planned upgrade of Maibele Resource Estimate (ASX 5 June 2017)
- Planned REE Geochem program at Caldera Project, Brazil\*
- Planned Lithium Geochem program at “Lithium Valley”, Brazil\*

1. Fraser Institute Annual Survey 2019, [www.fraserinstitute.org](http://www.fraserinstitute.org)

2. Transparency International 2019, [www.transparency.org](http://www.transparency.org)

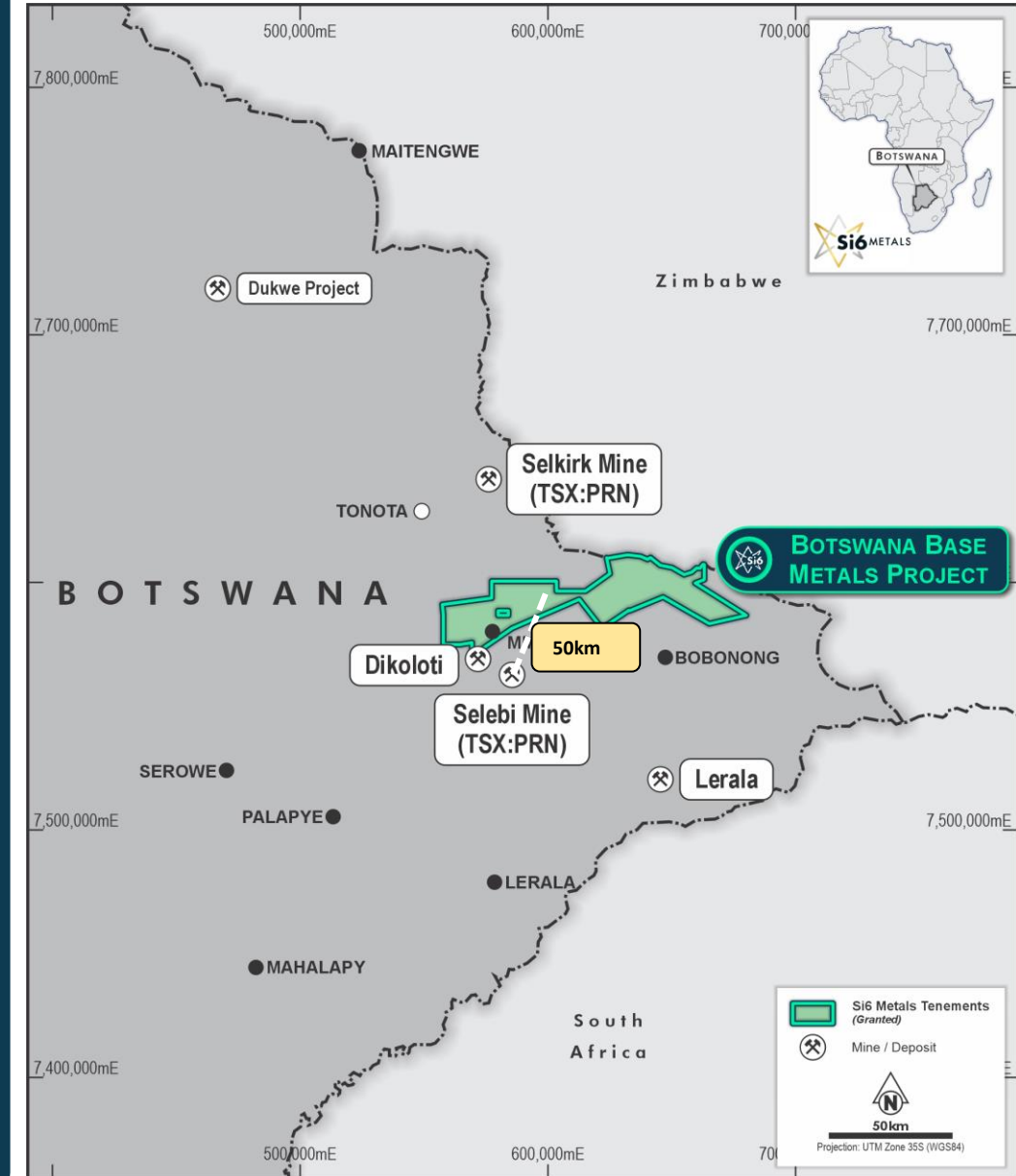
\*Brazil programs to commence following shareholder approval of acquisition at a general meeting of shareholders

# BOTSWANA – UNTAPPED POTENTIAL

Underexplored | >16km trend of potential mineralisation

- 3 Flagship Projects:
  - Dibete (drill program commenced Sep 23)
  - Airstrip (drill program Oct/Nov 23)
  - Maibele North – 2.38Mt Resource (drill program Nov/Dec 23)
- *At surface, mineable discoveries <1km depth, (Selebi mine depth >1.5km)*
- Within 50km of Selebi Mine, recently acquired by Premium Nickel (TSX:PRN) with plans to revitalise assets
- Potentially more than one processing option
- Established Ni-Cu-PGE Inferred Resource 2.39Mt, with additional drilling (~\$5M spent in the ground) yet to be factored into Resource Estimate + 2023 drill program. **Resource upgrade planned**

*Si6 is fully funded (~\$3M). Aggressive 10,000 metre drill campaign across its 3 flagship projects has commenced (5 September 2023)*





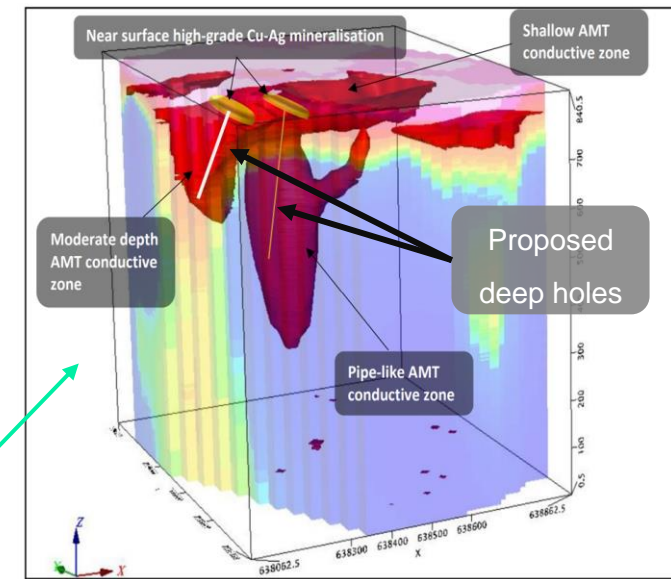
# DIBETE – PRIMARY & SUPERGENE Cu-Ag TARGETS

## At-surface (<50M), exceptional drill hits

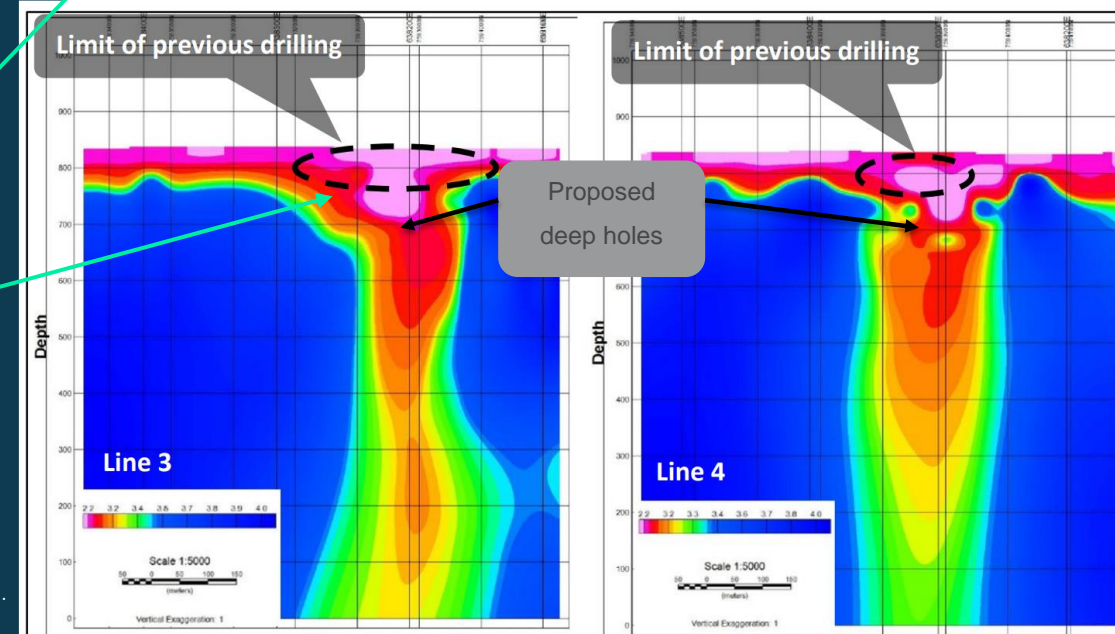
- AMT Survey identified multiple high-quality targets both beneath and along strike from mineralisation previously drilled at surface.
  - 38m @ 1.72% Cu, 119.5g/t Ag from 16m (DBRC014)<sup>1</sup>
  - 17m @ 2.7% Cu, 40.5g/t Ag from 16m (DBRC081)<sup>1</sup>
  - 11m @ 4.5% Cu, 229.9g/t Ag from 33m (DBRC028)<sup>1</sup>
  - 10m @ 3.9% Cu, 110g/t Ag from 43m (DBRC108)<sup>1</sup>
  - 25m @ 2.17% Cu, 77g/t Ag, from 27m (DBRC124)<sup>2</sup>
  - 13m @ 2.11% Cu, 37.8g/t Ag from 37m (DBRC129)<sup>3</sup>
  - 13m @ 1.9% Cu, 61.9g/t Ag from 41m (DBRC130)<sup>3</sup>
  - 6m @ 4.46% Cu, 162 g/t Ag from 38m (DBRC131)<sup>3</sup>
  - 10m @ 2.04% Cu, 15.6g/t Ag from 7m (DBRC133)<sup>3</sup>

*“We’ve barely scratched the surface”*

**Right:** Looking southwest, showing the strong AMT response at depth beneath the areas of high grade, near surface Cu-Ag mineralisation. The lines are parallel and 100m apart.



**Above:** Three-dimensional image, looking NE, of the AMT conductive zone from data collected on lines 3 – 7. Note the “pipe-like” geometry of the model is immediately beneath the areas of near surface Cu-Ag mineralisation.



**Above:** AMT Lines 3 and 4, looking southwest, showing the strong AMT response at depth beneath the areas of high grade, near surface Cu-Ag mineralisation

<sup>1</sup> ASX Release 16 April 2012 “Dibete drilling confirms additional High Grade Copper-Silver of up to 15.5% Copper and 1220 g/t Silver (or over 30 ounces/t Ag) from 30m”. **NOTE:** Drilling results in this ASX release were disclosed under the JORC 2004 Code and have not been updated to comply with the JORC 2012 Code on the basis that there is no material change in this information since it was last reported.

<sup>2</sup> ASX release 16 November 2017 “Thick High-Grade Copper and Silver – Initial Holes at Dibete”

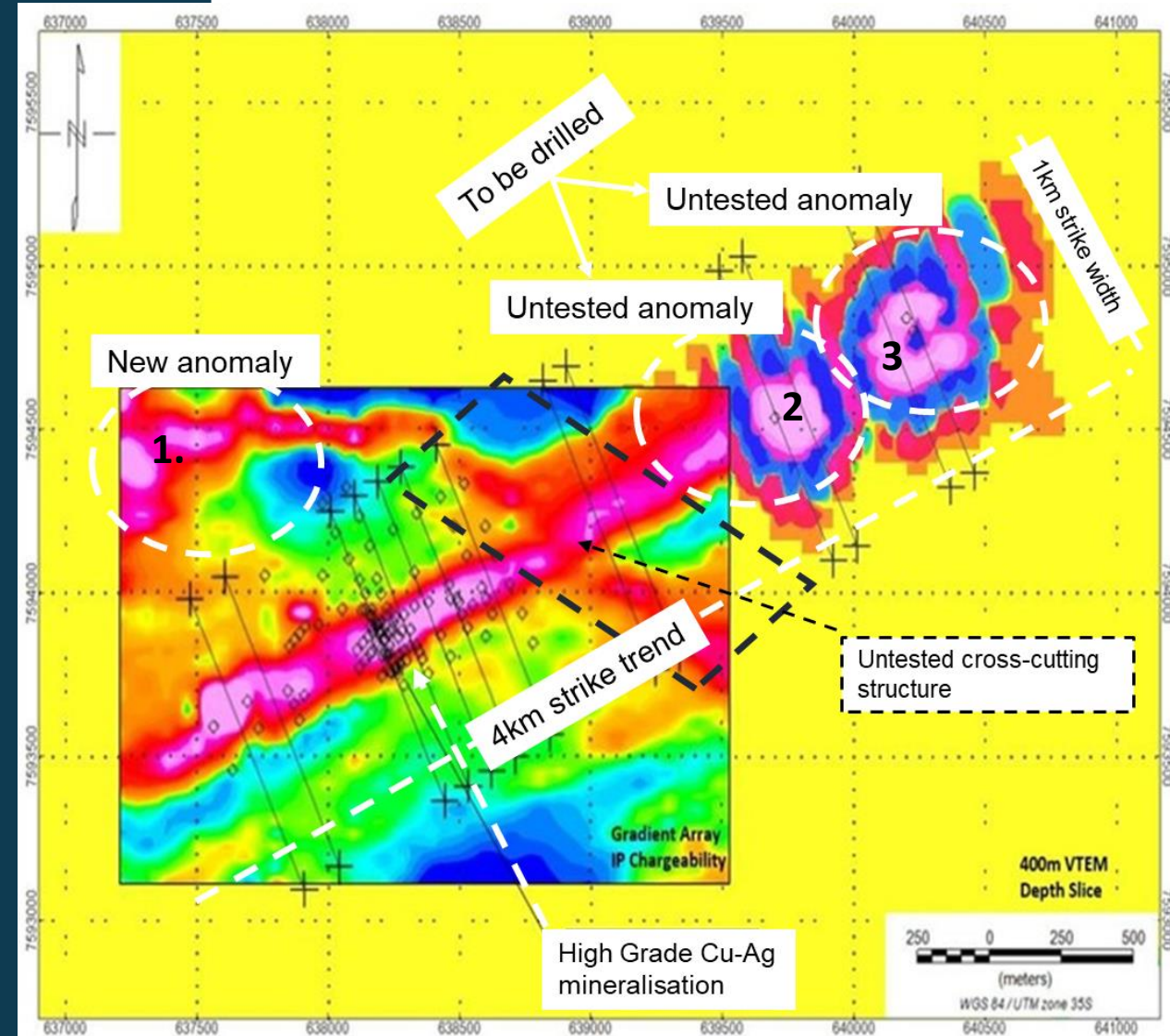
<sup>3</sup> ASX Release 18 December 2017 “Drill Results from Dibete Prospect in Botswana”

# DIBETE – SEPTEMBER 23 DRILL PROGRAM

## Initial ~4,000M Drill Program

- Target drilling over ~4km x 1km x 500 metres around untested AMT anomalies.
- First hole is to test oxidised zone and into the primary zone
- 15 holes planned to test major geophysical targets into the primary zone at depth and the extension of the known mineralised oxidised zone
- Samples to be sent to ALS laboratory in South Africa with initial results expected in October
- Dynamic drill campaign that may be extended progressively based on results

*“We’ve barely scratched the surface”*



Above: Untested conductive anomalies identified by AMT survey:

1 – additional new anomaly

2 & 3– untested anomaly to be drilled as part of Sep 23 program



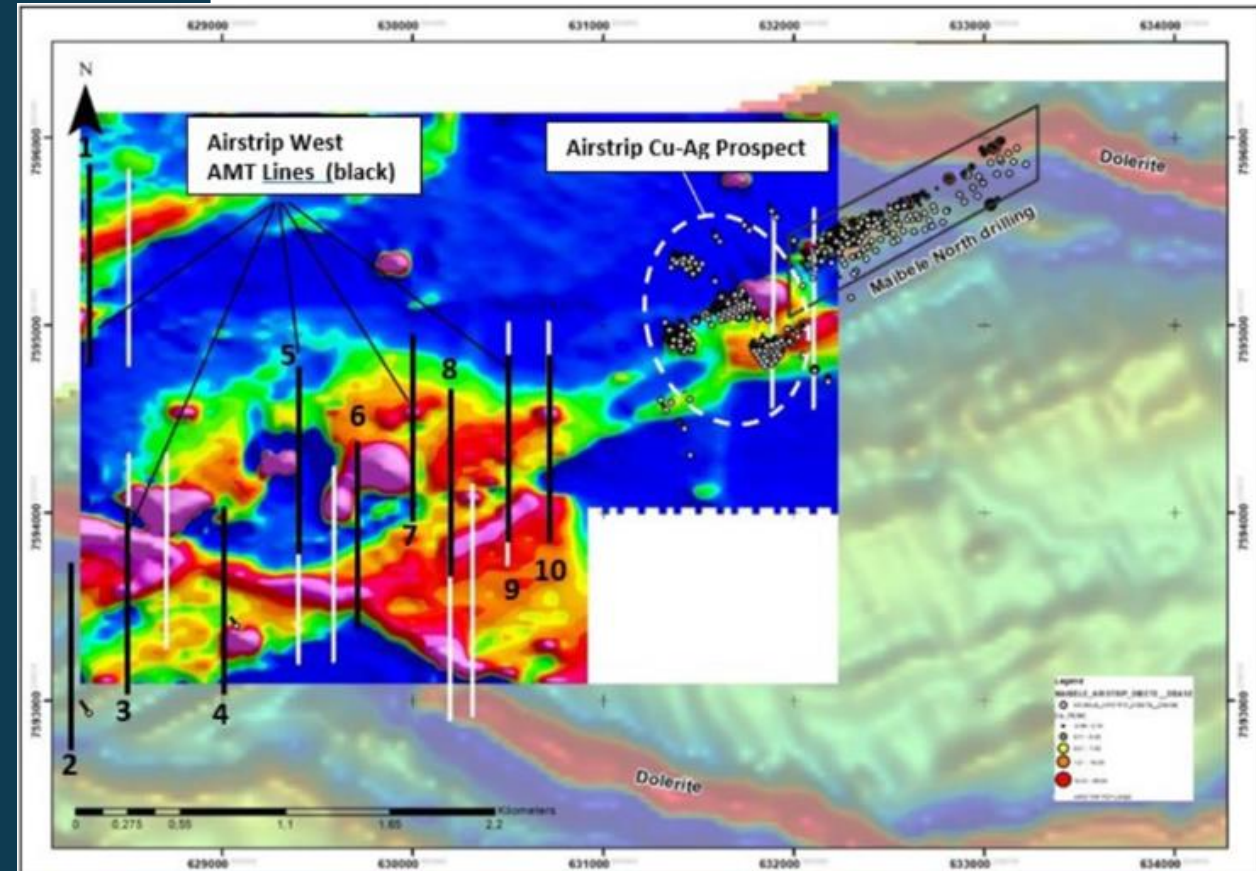
# AIRSTRIP – Planned drilling Oct/Nov 23

## Induced Polarisation

- 2.5km long IP Gradient Array anomaly confirmed by Pole Dipole IP
- Numerous additional IP targets generated
- Strong potential for deep-seated mineralisation and new discoveries

## Airstrip historical drilling results include<sup>1</sup>:

- 6m at 2.7% Cu, 72g/t Ag from 68m (ACDC067)
- 11m at 7.63% Cu, 462g/t Ag from 52m incl: (ACRC003)
  - 7m @ 11.81% Cu, 717g/t Ag
  - 3m @ 22.74% Cu, 1,379g/t Ag
- 0.9m @ 20.53% Cu, 377g/t Ag from 55m incl: (ACRD032)
  - 0.35m @ 57.59% Cu, 1,054g/t Ag
- 0.6M @ 25.27% Cu, 1,238g/t Ag incl: (ACRD033)
  - 0.24m @ 49.06% Cu, 2,483g/t Ag
  - 8m @ 1.71% Cu, 51.1g/t Ag from 159m (ACRD018)
- 18m at 1.72% Cu, 27.5g/t Ag from 42m (ACRC122)



<sup>1</sup> refer Si6 (formerly Botswana Metals Limited) 2012 Annual Report. Above Airstrip historical drilling results were disclosed under the JORC 2004 Code and have not been updated to comply with the JORC 2012 Code on the basis that there is no material change in this information since it was last reported.



# MAIBELE NORTH (Nov/Dec 23)

## Ni-Cu-PGE Primary Mineralisation, 1.4km continuous strike

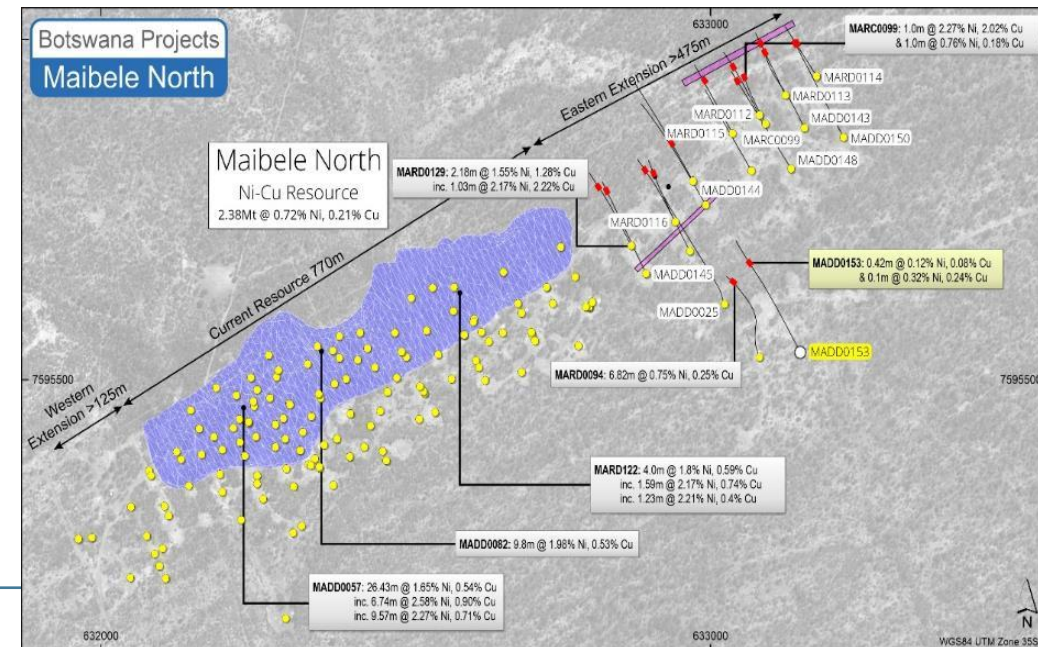
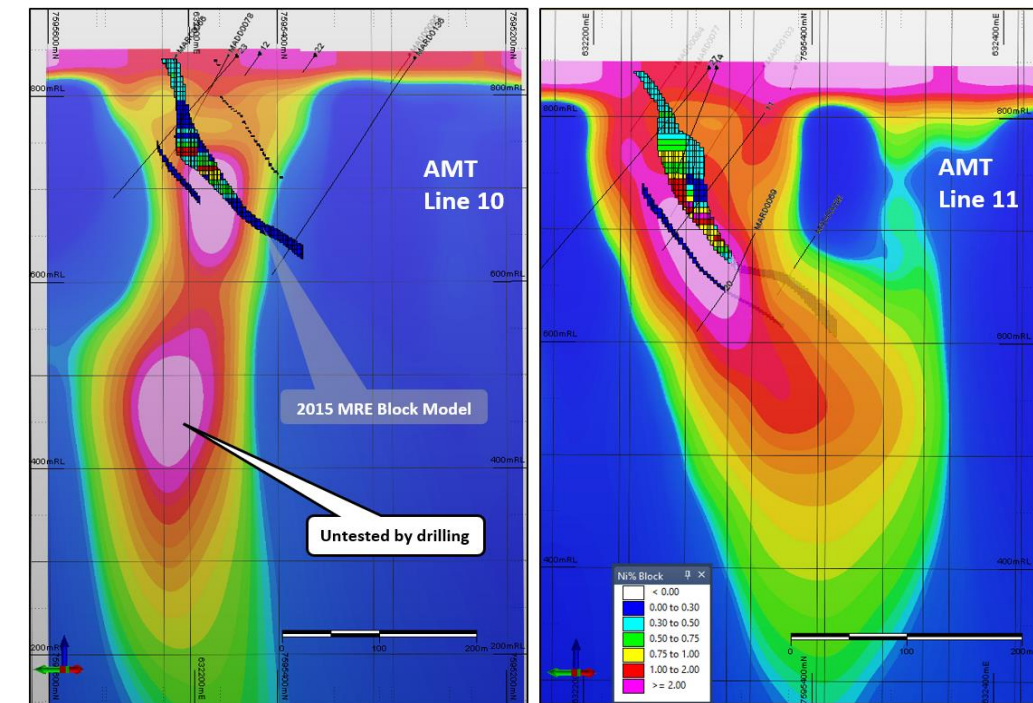
### Maiden JORC Inferred Resource

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

- Covers only 800m out of 1.4km - open along strike and at depth
- BCL (JV Partner) spent additional \$5M drilling at Maibele North (not included in Resource Estimation)
- Nov/Dec program to **upgrade Resource** with prior drilling and 2023 drilling over known mineralised targets

### Open Pit Mine

- BCL undertook a study to open pit mine Maibele North to feed the Selebi smelter (50km from Maibele North)
- BCL's Selebi and Selkirk mines and assets were acquired by Premium Nickel Resources Ltd (TSX-V:PRNL) with plans to re-develop these assets
- 26.6Mt @ 0.58% Ni and 1.03% Cu** was mined from Selebi (1980 to 2016)
- AMT Survey has identified **numerous untested sulphide targets** below and along strike of the current resource



# BRAZIL BATTERY METALS PORTFOLIO ACQUISITION

Right to acquire Brazil JV 50% interest in battery metals portfolio with Foxfire Metals Pty Ltd (subject to shareholder approval) covering **17,800 hectares**

*Strategic focus on building critical metals portfolio including:*

- Rare Earth Elements
- Lithium
- Gold, PGE, base and precious metals

*In-country experienced management and geological team that has been in Brazil for over 10 years*





# LITHIUM VALLEY

- Located within the **Eastern Brazilian Pegmatite Province**, globally recognised as the “Lithium Valley” - one of the largest lithium spodumene districts
- Multiple key project areas in the Lithium Valley in strategic locations
- Licences over granites associated with lithium-bearing pegmatites, consistent with multiple major high grade lithium discoveries in the area, including two producing lithium mines (Sigma 36.7ktpa LCE, CBL 36ktpa @ 5.5% Li<sub>2</sub>O)

## KEY PLAYERS IN THE LITHIUM VALLEY

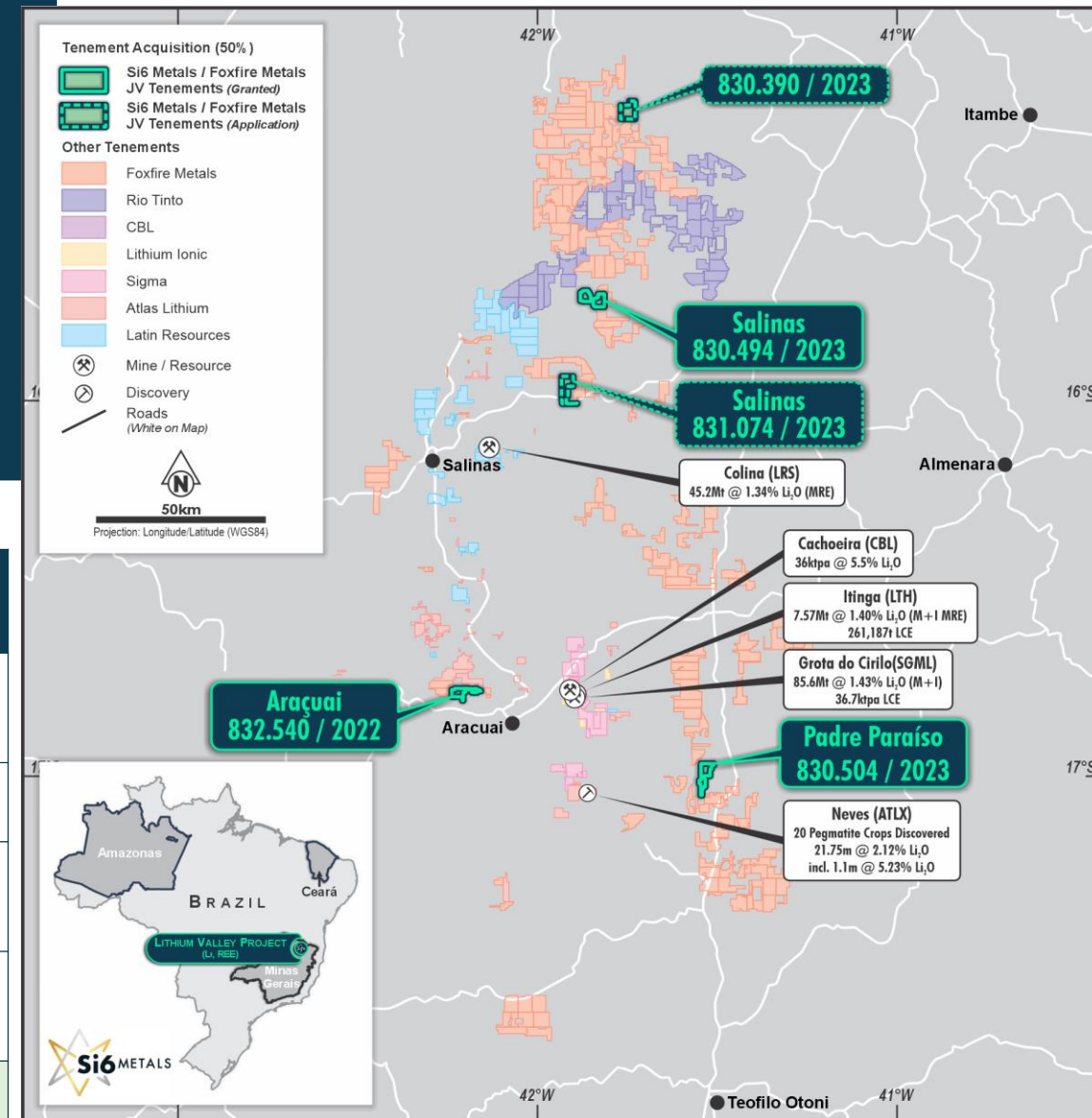
Company	Market Capitalisation (at 5 September 2023)	Discovery	Li Valley Landholding
<b>Sigma Lithium Corp.</b> (NASDAQ:SGML)	~A\$5.5 billion	85.6 Mt @ 1.43% Li <sub>2</sub> O (Measured and Indicated Resource) 36.7ktpa LCE phase 1 production <sup>1</sup>	~200km <sup>2</sup>
<b>Latin Resources Limited</b> (ASX:LRS)	~A\$960 million	45.2Mt @ 1.34% Li <sub>2</sub> O (Mineral Resource Estimate) <sup>2</sup>	~380km <sup>2</sup>
<b>Atlas Lithium Corp.</b> (NASDAQ:ATLX)	~A\$426 million	20 pegmatite outcrops discovered. Drill hole 21.75m at an average grade of 2.12% Li <sub>2</sub> O, including 1.1m @ 5.23% Li <sub>2</sub> O <sup>3</sup>	~238km <sup>2</sup>
<b>Lithium Ionic Corp.</b> (TSXV:LTH)	~A\$385 million	7.57Mt @ 1.40 Li <sub>2</sub> O (NI 43-101 Measured + Indicated Mineral Resource Estimate) <sup>4</sup>	~142km <sup>2</sup>
<b>Si6 Metals Ltd (ASX:SI6)</b> (50% JV)	~A\$12 million	<b>N/A, plans for accelerated work program, subject to shareholder approval of right to acquire</b>	~87km <sup>2</sup>

<sup>1</sup> Sigma Lithium Corp. public release: <https://site.sigmalithiumresources.com/grota-do-cirilo/>

<sup>2</sup> Latin Resources ASX Release 20 June 2023 “240% increase for the Colina Mineral Resource”

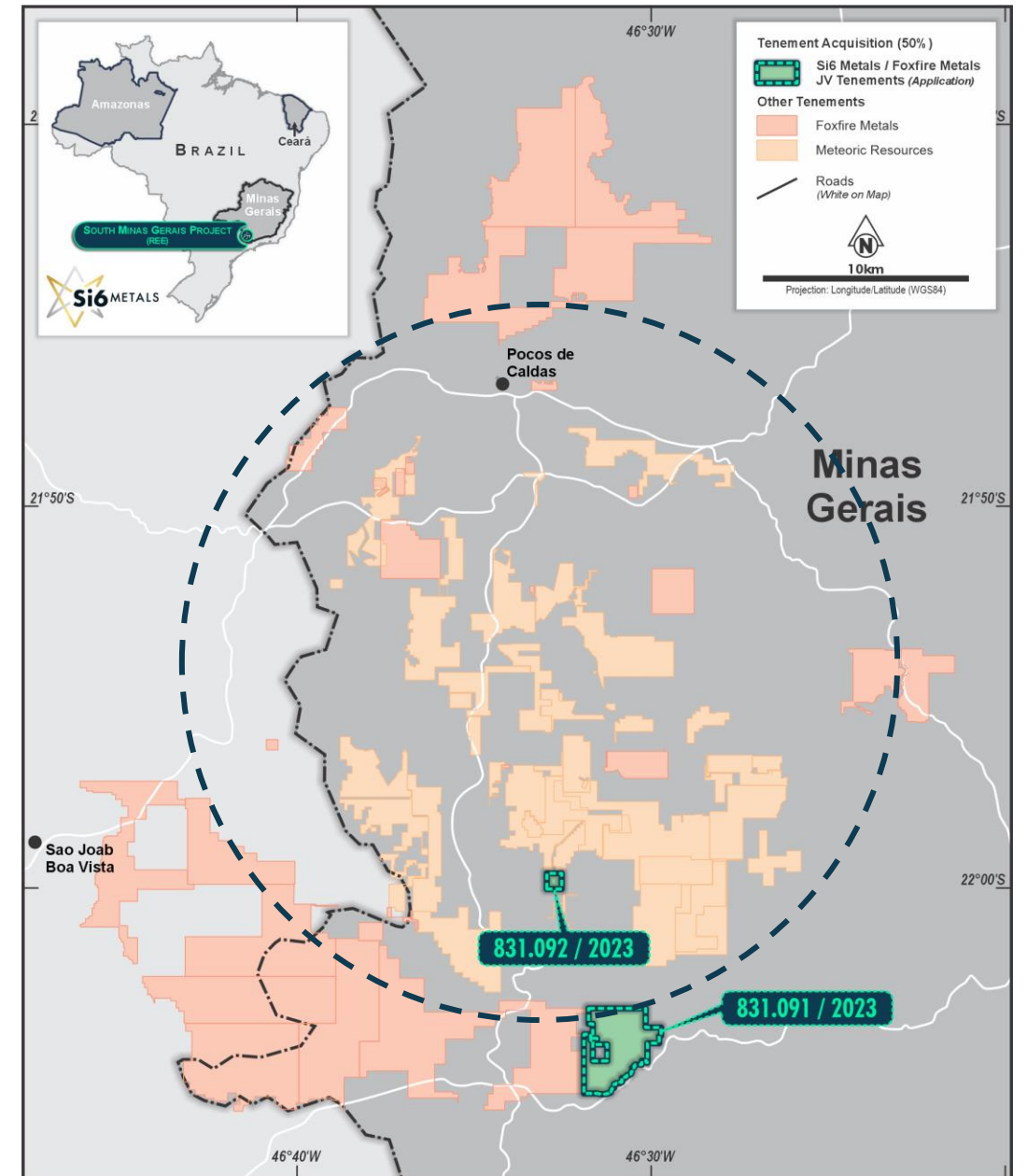
<sup>3</sup> Atlas Lithium NASDAQ market release 13 July 2023 “Atlas Lithium Hits a Record Milestone With High Grade 5.23% Lithium Oxide Intersect at Only Nine Meters Depth in its Lithium Project.”

<sup>4</sup> Lithium Ionic TSX market release 27 June 2023 “Lithium Ionic Announces Maiden Mineral Resource Estimate at its Itinga Project in Minas Gerais, Brazil; Drilling Program Expanded with 13 Rigs Operating; PEA Underway”



# CALDERA REE PROJECT – MINAS GERAIS

- 1,085Ha exploration package strategically acquired
- Located within and along the contact point of the Poços De Caldas Alkaline Complex, host to ASX:MEI's 409Mt @ 2,626ppm TREO Mineral Resource Estimate<sup>1</sup>
- Alkaline Complex is a known **Carbonatite Intrusive** associated with ionic adsorption clay REE's at surface
- Ionic adsorption clay REEs are simple to mine at surface with relatively low OPEX and CAPEX
- Project JV area located in and around the edge of the Caldera Intrusive, targeting REE mineralisation at the **structural contact of the intrusive which could channel REE-rich fluids**



<sup>1</sup>refer ASX:MEI ASX Release 1 May 2023 "Caldeira Project Maiden Mineral Resource"



# KEY MILESTONES – PROGRESSIVE NEWSFLOW

SI6 is positioned with several key **short-term catalysts**

	2023						2024	
MILESTONE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
Secure funding for flagship Botswana projects	\$3M raised							
Dibete Drill Program			~4,000 Meters Drilling					
Airstrip Drill Program				~4,000 Meters Drilling				
Maibele North Drill Program						~2,000 Meters drilling, update MRE to include US\$5M of previous drilling not included in MRE		
Maibele North Resource upgrade								Upgrade Resource to Indicated
Airstrip Resource Development								
Dibete Resource Development								
Resource Growth								
Completion of right of to acquire JV interest	Acquisition to Proceed*				Planned			
Lithium Valley Lithium targets Geochem**							Ongoing	
Lithium Valley REE targets drilling **							Ongoing	
South Minas Gerais REE Geochem**							Ongoing	

\*Brazil portfolio acquisition to proceed subject to shareholder approval at a general meeting

\*\* Brazil exploration programs to commence following shareholder approval of acquisition

Key

Complete

Already started

Planned

# A COMPELLING INVESTMENT PROPOSITION

## 5 Reasons to consider Si6 Metals:

1. Right Assets - Critical Metals/Minerals (Cu, Ni, Co, Li, REE, PGM)
2. Right locations - Botswana and Brazil (Lithium Valley, Minas Gerais) surrounded by outperforming listed and unlisted companies
3. Aggressive, funded 10,000 meter exploration program commenced:
  - Six months of activity planned
  - Probable resource upgrade at Maibele North
4. Highly experienced, in-country technical teams in both Botswana and Brazil
5. Market capitalisation of ~\$12 million & EV ~ \$9 million – significant upside potential

# REFERENCES

## Maibele Base Metals Project, Botswana, Resource Information

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.

Maibele North Resource							
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

**Table 1:** Inferred Resource calculated by MSA South Africa in 2015 to JORC 2012 compliance

# DISCLAIMER

## Forward-Looking Statements

Some statements in this presentation regarding estimates or future events are forward looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward-looking statements include estimates of future production, reserve and mineralised material estimates, capital costs, and other estimates or prediction of future activities. They include statements preceded by words such as "believe", "estimate", "expect", "intend", "will" and similar expressions. Actual results could differ materially depending on such things as political events, labour relations, currency fluctuations and other general economic conditions, market prices for the company's products, timing of permits and other government approvals and requirements, change in operating conditions, lower than expected ore grades, unexpected ground and mining conditions, availability and cost of materials and equipment, and risks generally inherent in the ownership and operation of mining properties and investment in foreign countries.

## ASX Listing Rule 5.23.2

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.





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