

# Andrada Mining Limited

Chamber of Mines Namibia

Mining Expo & Conference Windhoek

Andrada CEO : Anthony Viljoen

31 August 2023

*“Andrada’s work is grounded in the future – responsible mining for a sustainable tomorrow.”*

*Anthony Viljoen, CEO.*



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# INTRODUCTION





## OUR STORY



AfriTin Mining acquires an 85% of Uis Tin Mining Company.

AfriTin Mining lists on the AIM stock exchange

Maiden JORC (2012) compliant tin, lithium and tantalum resource declared on the V1V2 orebody

Uis Phase 1 Pilot Plant construction completed

Completed a DFS on the Uis Phase 1 Expansion

Infill resource drilling on the V1V2 orebody for lithium and tantalum

AfriTin Mining becomes Andrada Mining

Expanded tin, lithium and tantalum resource for V1V2.

Expansion of the Phase 1 Processing Plant to include a tantalum stream.

Construction of the lithium processing plant  
Tin resource drilling on proximal pegmatites initiated

1980s

2016/7

2019

2021

2023

1916

1990

2018

2020

2022

Discovery of the Uis deposit

Uis Tin Mine closes following the tin price collapse in the mid 1980s

Initiation of resource drilling on the V1V2 orebody

Construction of the Uis Phase 1 Pilot Plant commenced

Steady state production achieved at Uis

Phase 1 Expansion to increase tin concentrate production by 67%. Completion of the Phase 2 PEA

Exploration programmes commences on Lithium Ridge and Spodumene Hill projects





## WHO ARE WE

- Technology metals mining company with considerable potential upside
- Assets in Namibia rich in tin, lithium, and tantalum that are central to the green energy revolution and a brighter future for all.
- Goal to become a tier-one technology metals mining company, **that generates sustainable value for all stakeholders.**



AIM/NSX  
/OTCQB  
Listed



~400  
Workforce



1 Mine  
In Production



2 Developing  
Projects



1 Exploration  
Asset

## OUR VALUES



Safety



Care & Respect



Collaboration



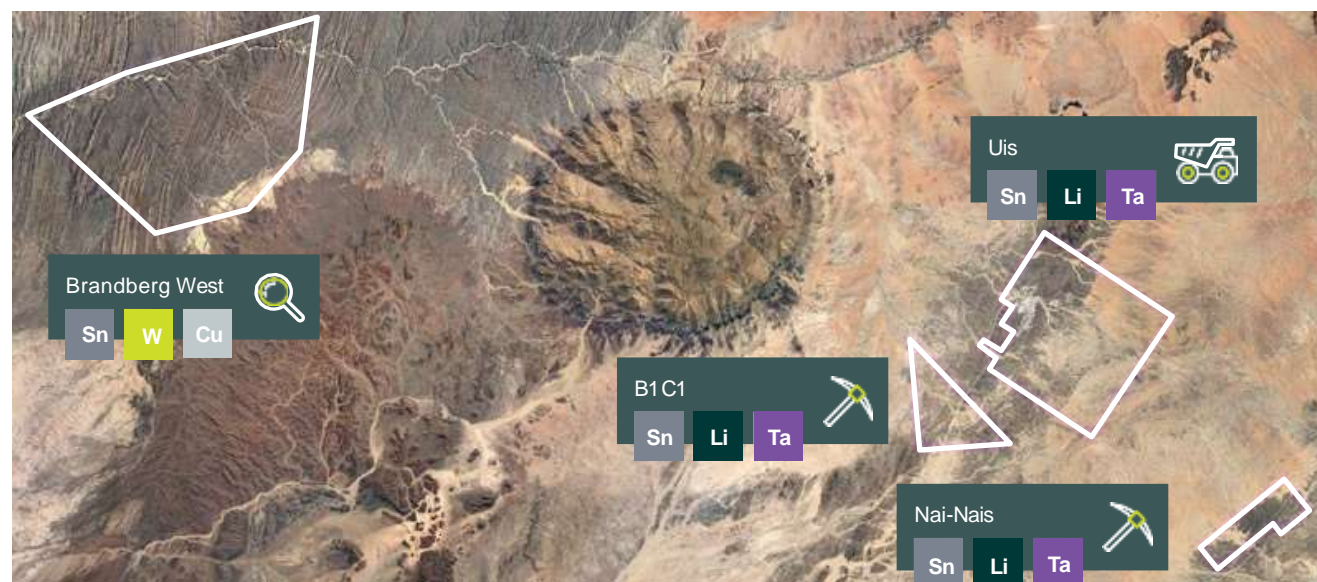
Integrity



Growth



Innovation



### Andrada's mineral licences in the Erongo Region of Namibia.

ML 134, ML 133, and ML 129 occur within a 40 km radius of the Uis town.



Mine in production



Developing Projects



Exploration



Lithium



Tantalum



Tin



Copper



Tungsten



# MINERALS FOR THE FUTURE

Current and future impacts of climate change means that modern life is changing, and the world is at the start of a massive transition away from fossil fuels towards renewable energy. Mining has a critical enabling role to play in delivering this transition, but it must be done responsibly. Responsible mining means working to:

- Drive sustainable socio-economic development for and the resilience of host communities and countries.
- Limit potential impacts on the natural environment.

Our assets and reserves are rich in minerals critical for a low carbon world, With a strong commitment to responsible mining Andrada is well placed to successfully navigate the transition.

## TANTALUM

Incredibly strong, resistant to corrosion, and with a high melting point, when alloyed to other metals tantalum adds strength without adding too much weight.

Tantalum has excellent electrical conductivity, which makes it ideal for use in capacitors and aerospace components.

Its corrosive resistance and non reactive nature means Tantalum is also used medical implants & devices such as joint replacements, and pacemakers.

Ta



Li Sn Ta



## TIN

The glue that holds the electrical world together.

Widely used as solder on circuit boards and electrical appliances, almost every component of a low-carbon and a data driven economy requires tin. Without it electrons don't flow, that means mobile phones don't work and electric vehicle batteries don't charge. For these reasons Tin is critical to the green transition.

Sn



## LITHIUM

The Fuel of the Green Transition  
Lithium is used in and needed for the rechargeable batteries that power the green transition.

Electric vehicles, battery cells for renewable energy, and in most modern electronics all need lithium batteries.

Li

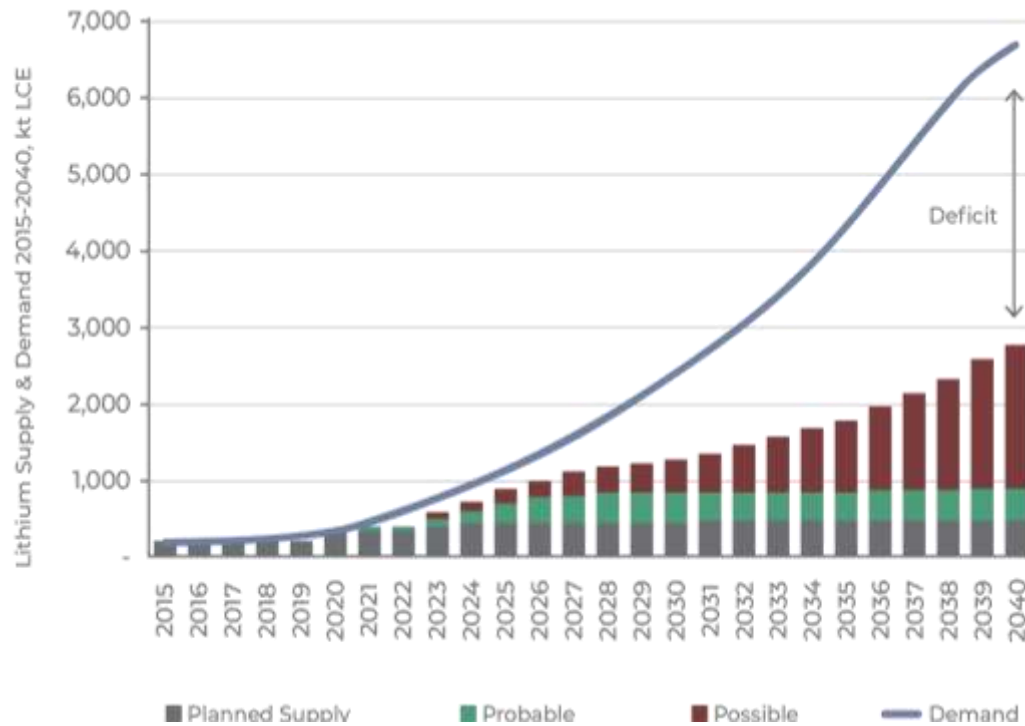






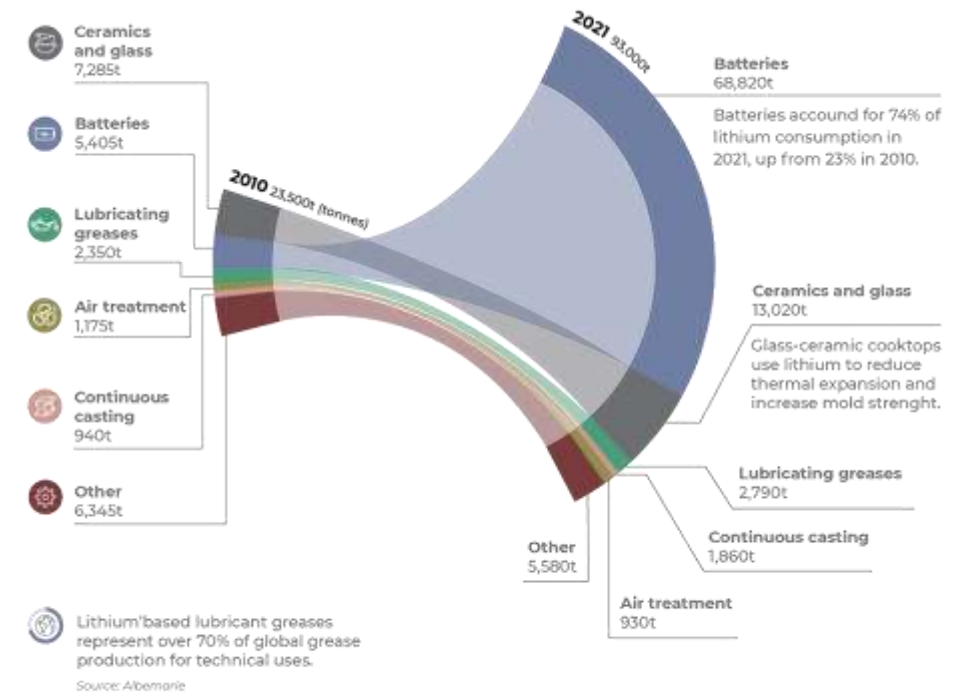
## Supply deficit anticipated by 2030

STRONG DEMAND GROWTH FORECAST WITH  
NO FORESEEABLE RETURN TO SURPLUS SUPPLY



Source: Bloomberg NEF, Wood Mackenzie, Broker research, Benchmark Mineral Intelligence

## GROWING USE OF PETALITE HARD ROCK LITHIUM IN BATTERIES



Source: USGS Mineral Commodity Summaries (2022). Minerals Yearbook (2010)



# ANDRADA'S COMMITMENT TO RESPONSIBLE MINING

## SUPPLY CHAIN & ECONOMIC SUPPORT

**N\$ 680 million** procurement expenditure with approximately **250 Namibian suppliers** nationally in the past 5 years

- 41% annual increase in the year ended February 2023 to N\$ 203 million
- N\$ 61 million expenditure with regional suppliers

**Approximately 10% local and 40% regional Namibian suppliers supported**

- Rejuvenated local businesses including Metal Mill and Gorocon security services
- Approximately N\$45 million contribution to Namibian economy in taxes and royalties



*Local refers to within the Dâures Constituency, within which Uis is situated), regional (within the Erongo Region), national (within Namibia).*





# ANDRADA'S COMMITMENT TO RESPONSIBLE MINING

## COMMUNITY

### Economic development

- 10 suppliers in Erongo
- Positive impact on the regional GDP due to increased incomes
- Uis Mine a member of the Settlement Development Committee which promotes sustainable development through partnerships with various stakeholders of Uis.

### Health & wellbeing

- Provision of meals to vulnerable local children and elderly

### Education & skill development

- Uis Mine donated gardening implements to the school's gardening project
- Contributed to teaching children responsibility and life skills
- Donation of sports equipment to local schools

### Environment

- Achieved a 17% reduction in operational water consumption, conserving 116k cubic meters of water resources in the past financial year
- Successfully conducted comprehensive Climate Change Risk and Vulnerability assessments to enhance resilience.
- Implemented Greenhouse Gas assessments, demonstrating Andrada's commitment to a low-carbon footprint.



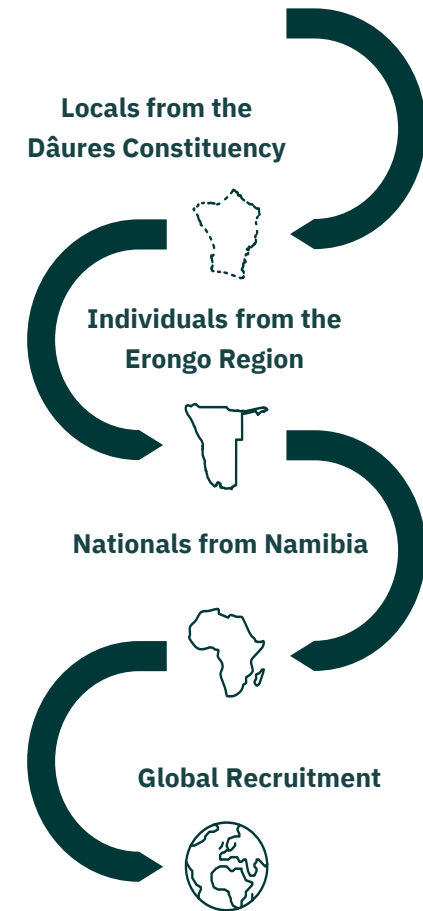


# ANDRADA'S COMMITMENT TO RESPONSIBLE MINING

## PEOPLE DEVELOPMENT

### EMPLOYMENT

- Approximately 400 employees at Uis Mine
- c100% Uis Mine employees are Namibians
- 24% of the Uis Mine employees and contractors are female
- 33% of the management are female
- Potentially 2,000 Namibians economically supported







# ANDRADA'S COMMITMENT TO RESPONSIBLE MINING

## EMPLOYEES : Investing in the development of a skilled workforce

### Management development

#### Process Manager : Emitty Mabuku Mutanda

Stellenbosch University management development programme

Deloitte School of Leadership: women in mining training

Potential candidate for an MBA



#### Plant Chemist : Ashley Bam

Education funding support for MSc Chemistry at Manchester University



### Research support collaboration

#### Oxford University Geology students research

Internship at Uis Mine enabling knowledge exchange and improved understanding of the resource



#### Collaboration with WITS University :

School of Chemical and Metallurgical Engineering, Minerals and Metals Extraction Research Group

Research of existing technologies for the purposes of the processing plant

Enhance probability of increased metal recovery through the Uis processing plant





# ANDRADA'S COMMITMENT TO RESPONSIBLE MINING

## EMPLOYEES : Ensuring a safe environment for our employees

- Improved safety performance in the past financial year
- Achieved a 51% decline in Lost Time Injury Frequency Rate ("LTIFR"), attaining a new rate of 3.04, a significant safety improvement.



- Effectively lowered the Total Recordable Injury Frequency Rate ("TRIFR") by 35% to 8.09, validating Andrada's steadfast commitment to a secure work environment.
- Empowered 1,145 individuals through health and safety training, strengthening the Company's safety culture.





## OUR RESOURCE AND MINING ASSETS



## A stable resource rich mining jurisdiction in Africa

### SOUND LEGISLATION

**Democratic** government  
**Independent** legal system  
**Supportive** mining legislation



### RESOURCE ENDOWED

**Major minerals:** Diamonds,  
Uranium, Gold, Zinc  
**Erongo region** endowed with  
tech-metals: lithium, tin, tantalum



### EDUCATED WORKFORCE

Literacy rate at **94%**<sup>1</sup>  
Female literacy rate at **96%**<sup>1</sup>  
Male literacy rate at **92%**<sup>1</sup>



### GROWING ECONOMY

**4.6%**<sup>2</sup> real increase in GDP : 2022  
**3.5%**<sup>2</sup> - **2.8%**<sup>3</sup> real increase in GDP : f2023  
**3.0%**<sup>2</sup> real increase in GDP forecast : f2024



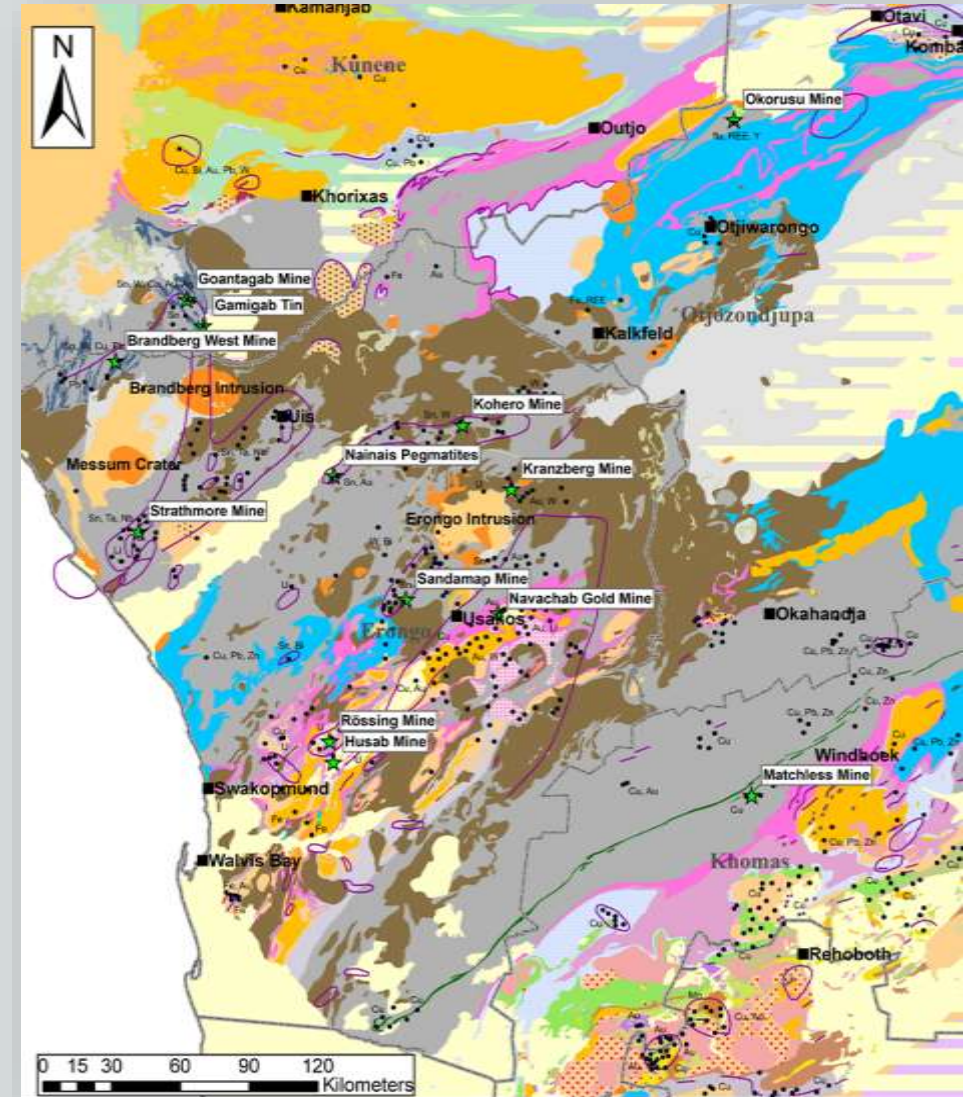
**SOURCES** - <sup>1</sup> UNESCO : Institute of Statistics 2013 : <sup>2</sup> African Development Bank : <sup>3</sup> International Monetary Fund





### Erongo : A prolific metallogenic region

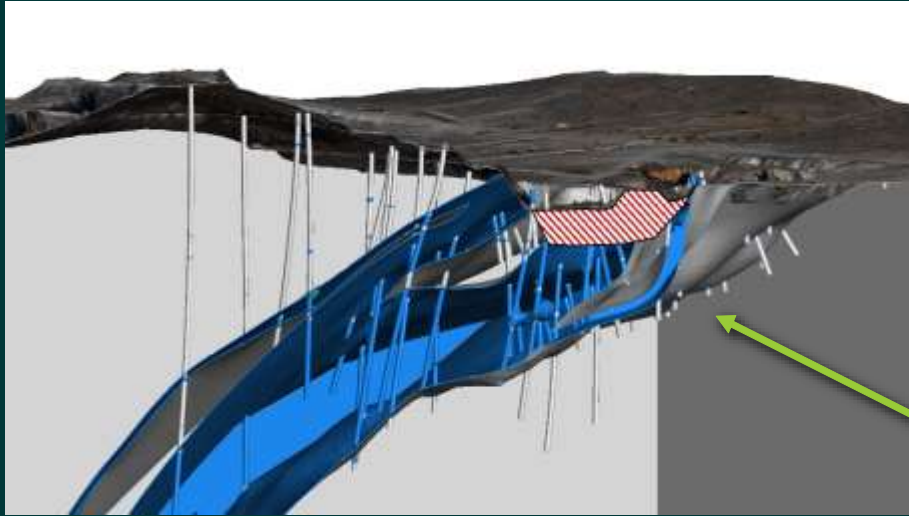
- Damara Belt an African **metallogenic jewel**.
- Erongo has the highest density of operational mines in Namibia
- **Wealth of mining history** and regional geological information,
- Underexplored with high **potential for new discoveries** as exploration increases
- Modern exploration techniques enable identification of new mineral systems and hidden extensions
- Region endowed with:
  - Base metal deposits
  - Technology metal deposits
  - Precious metal deposits
  - Nuclear fuels



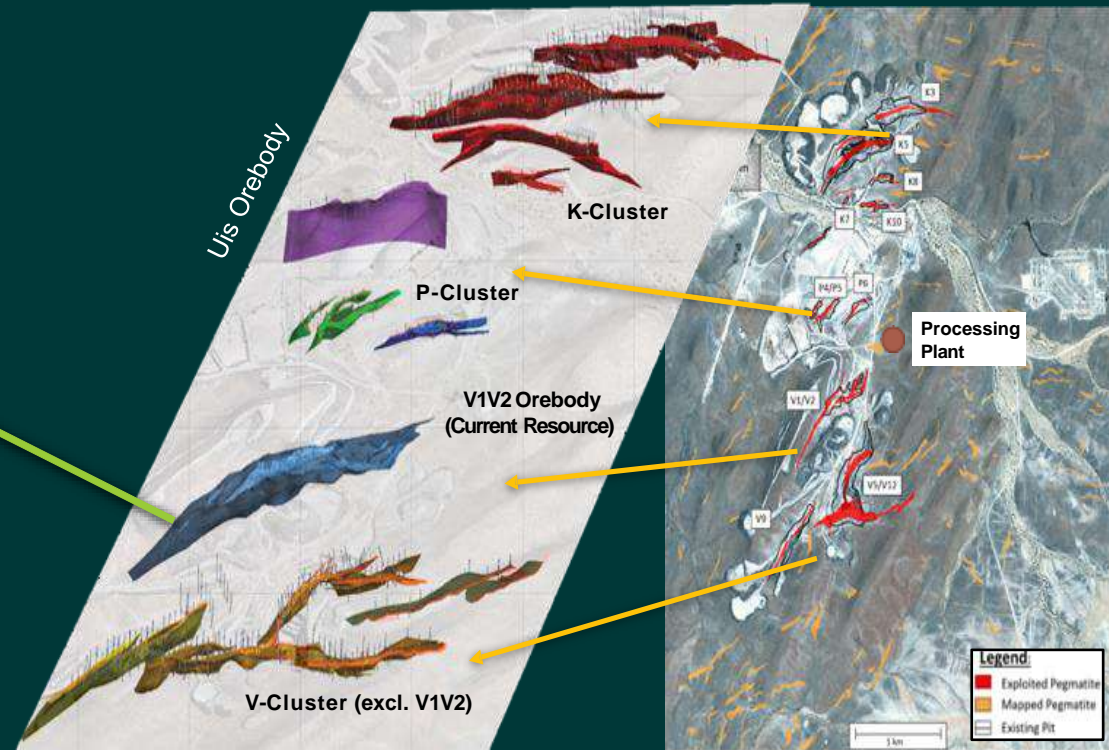


## RESOURCE ENDOWED : UIS MINING LICENCE AREA (ML134)

### Opportunity to substantially increase the Uis resource



MRE UIS V1V2 pegmatites February 2023	Tin (Sn)	Lithium (Li <sub>2</sub> O)	Tantalum (Ta)
Grade	0.15%	<b>0.73%</b>	86 ppm
Gross resource tonnes	81 Mt	<b>81 Mt</b>	81 Mt
Contained Metal	120 Kt	<b>1.45 Mt LCE</b>	6.96 Kt



  
Current resource:  
**138 Mt**

Validation drilling 2023

  
Target resource:  
**200Mt**

Regional exploration  
programme

More than **200Mt**  
upside potential from regional  
pegmatites

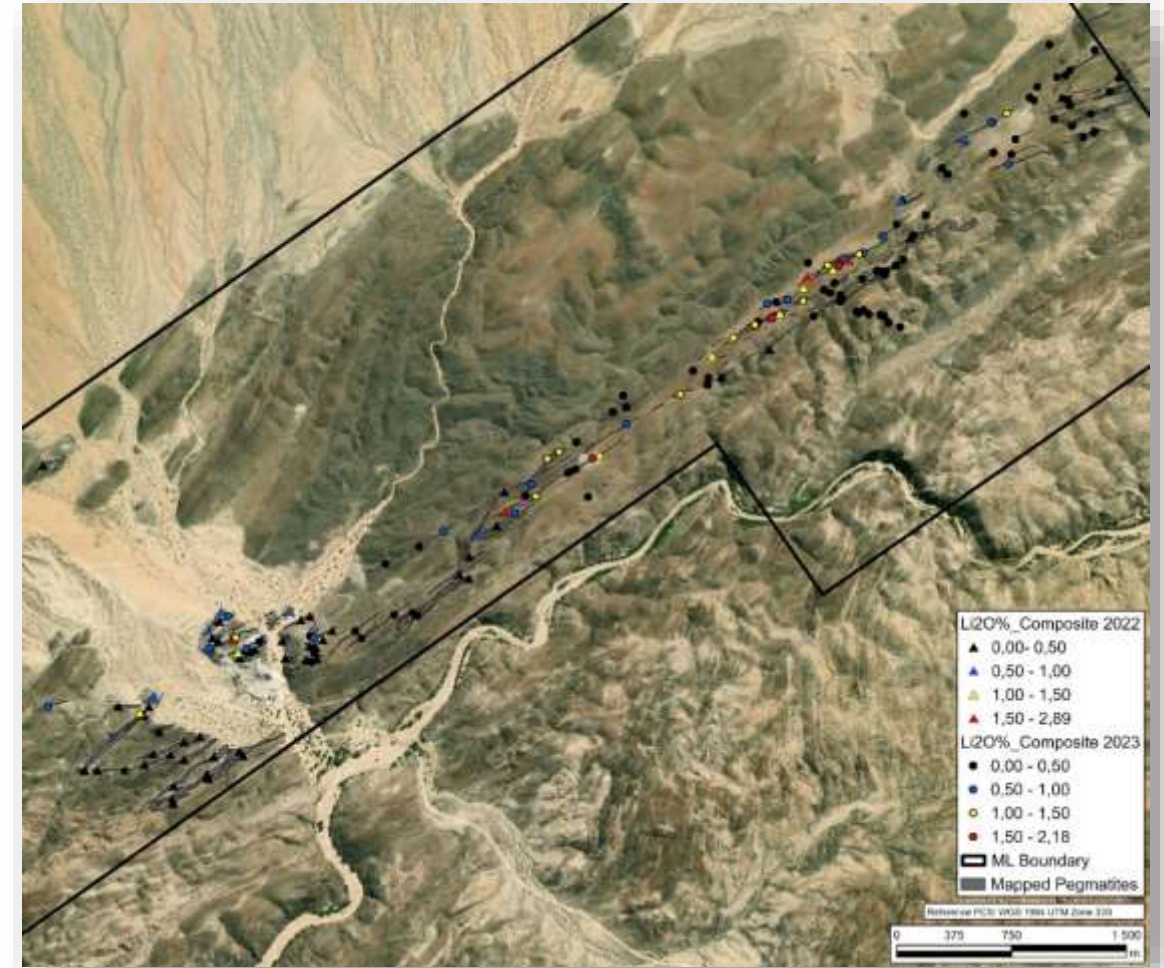




## RESOURCE ENDOWED: LITHIUM RIDGE MINING LICENCE (133)

### Continuous lithium mineralisation along 6km strike

- 3,300 ha licence area at 35km from Uis Mine.
- Pegmatite hosted mineralisation
- Channel sampling results indicate high concentrations of lithium, tin and tantalum.
  - 9.65 m with an average grade of 2.18% Li<sub>2</sub>O, 0.18% Sn and 89 ppm Ta.
  - 13 m with an average grade of 1.93% Li<sub>2</sub>O, 0.10% Sn, and 36 ppm Ta.
  - 24 m with an average grade of 1.65% Li<sub>2</sub>O, 0.15% Sn, and 52 ppm Ta.
- Observed lithium minerals **include petalite and spodumene**
- Ore **compatible with Uis processing plant**
- Reverse circulation drilling completed in April 2023
  - **Drilling results imminent**

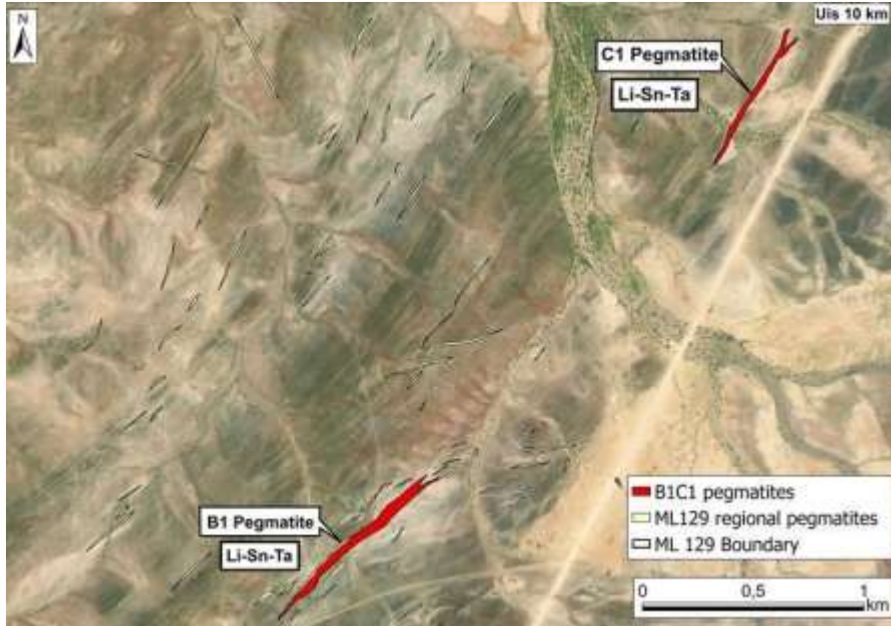


Aerial map of a lithium ridge project with channel sample results (2022,2023)



# RESOURCE ENDOWED: SPODUMENE HILL MINING LICENCE (129)

## Visible spodumene mineralisation



Aerial map of spodumene hill and drill cores with visible spodumene

- 4,900ha licence area 10 km from Uis
- **Spodumene confirmed by XRD analysis**
- **Mineralogically similar to the Uis pegmatites**
  - Open ended at depth
- Drilling programme completed March 2023. Results indicated significant lithium and tantalum mineralisation
  - 14.52m at 1.38% Li<sub>2</sub>O, 285 ppm Ta and 0.131% Sn
  - 5m at 2.32% Li<sub>2</sub>O
  - 2.5m at 2.04% Li<sub>2</sub>O
- Potential for additional mineralized pegmatites being investigated

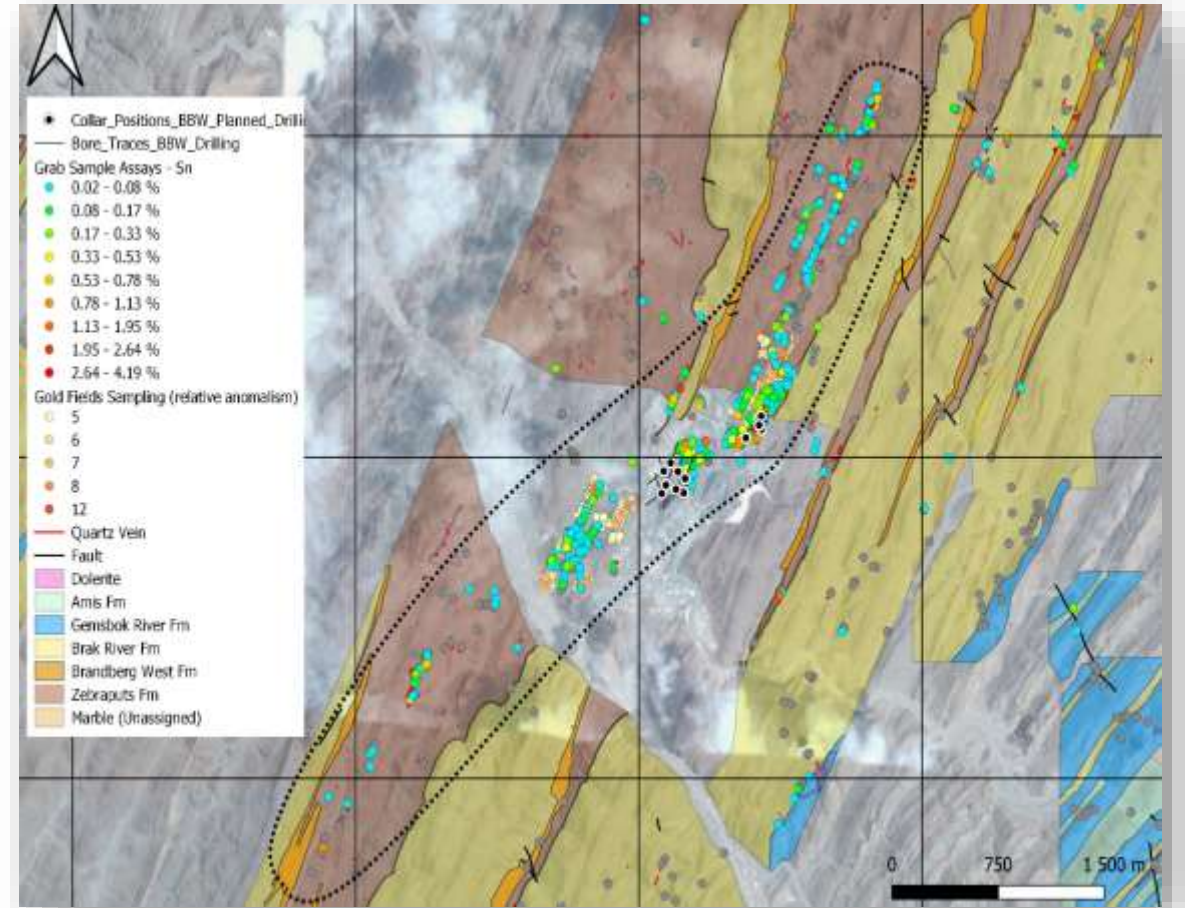




# RESOURCE ENDOWED: BRANDBERG WEST EXPLORATION LICENCE

## WORK PLAN OVERVIEW

- Initial drilling within the historical pit and along northern extension,
  - Programme divided into two parts due to budget constraints
  - Initial portion has been approved
- Near- mine exploration programme
  - To follow up on litho-geochemical anomalies over the most prospective areas
  - To develop additional trench and drill targets
- Regional exploration programme
  - To assess broader licence potential
  - To follow up on targets identified by historical and 2021 exploration programmes



Aerial map of Brandberg West



## THE FIRST LITHIUM PROCESSING PLANT IN NAMIBIA

*Supporting the Namibian drive for lithium beneficiation*







# FIRST LITHIUM TESTING PLANT IN NAMIBIA

## Completion of commissioning imminent

Commissioning of the bulk sampling pilot plant commenced in July 2023

Leverage on existing bulk infrastructure services.

Plant to support testing requirements regionally and nationally

Pilot campaigns to inform lithium production flow-sheet design

Andrada well – positioned to pioneer lithium beneficiation in Namibia

Potential to achieve early lithium revenue through off-take agreement



*Aerial view of the lithium bulk sampling plant : 20 JUNE 2023*



## HIGH PURITY SALEABLE CONCENTRATE PRODUCED

Initial saleable petalite concentrate at 4.16%  $\text{Li}_2\text{O}$  from offsite piloting programme

Off-site lithium piloting on all mining licences to date

### Objectives:

- To determine mineralisation variability
- To produce saleable concentrate

High purity (85%) saleable concentrate produced in May 2023

Concentrate was shipped to potential off-takers

Off-site testwork to be brought on-site to the lithium processing plant at Uis



Test batch of the lithium petalite concentrate : May 2023



CEO , Anthony Viljoen showcasing high-quality petalite sample : May 2023





# LITHIUM DEVELOPMENT: ROADMAP

## Lithium bulk sampling pilot plant and strategic partnership focus





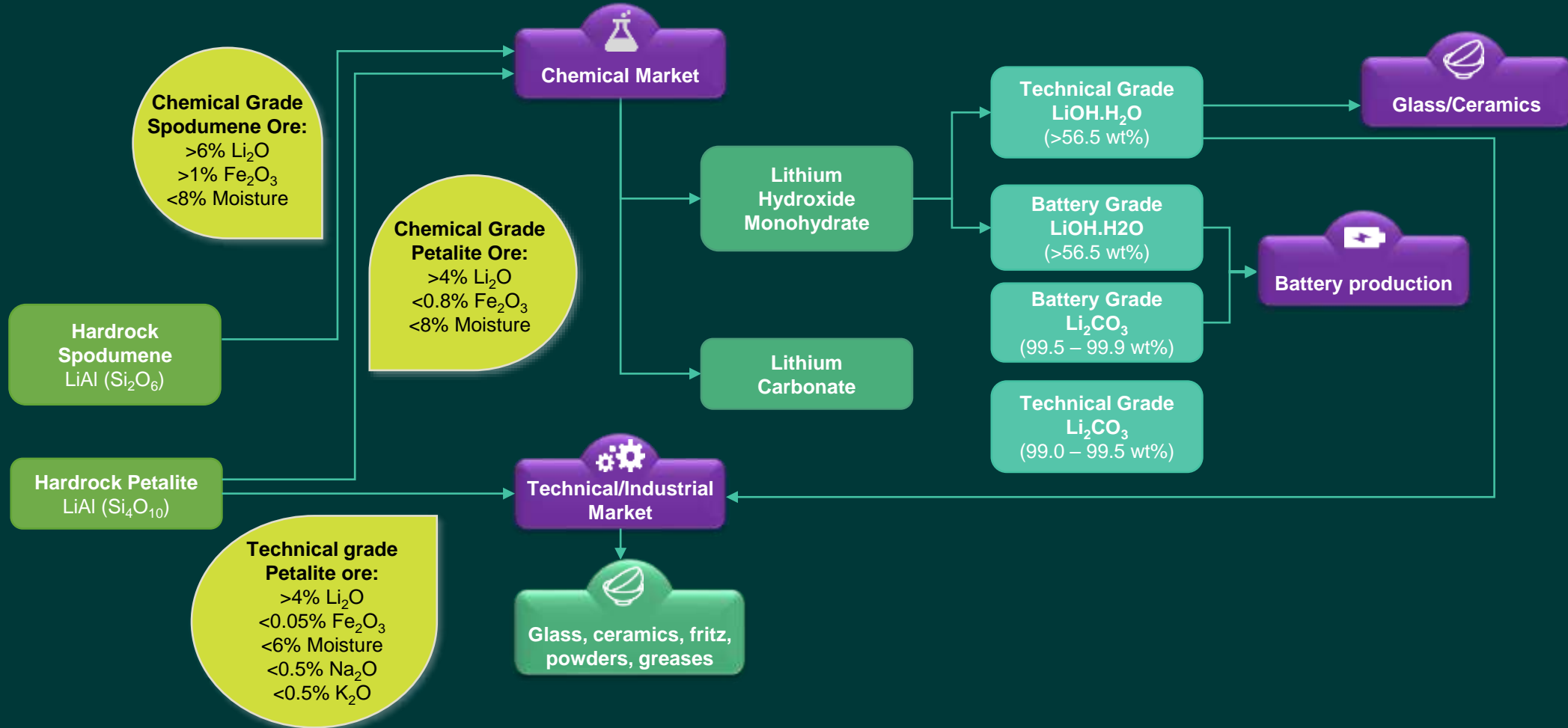
## APPENDIX







## Lithium feedstock specifications





## CONTACT US

T: +27 11 268 6555  
[investorrelations@andradamining.com](mailto:investorrelations@andradamining.com)

T: +44 207 920 2150  
[andrada@tavistock.co.uk](mailto:andrada@tavistock.co.uk)

## REGISTERED OFFICE

POBox 282 Oak House  
Hirzel Street, St Peter Port  
Guernsey GY13RH

## REPRESENTATIVE OFFICE | SOUTH AFRICA

Illovo Edge Office Park Building 3,  
Ground floor, 5 Harries Road  
Illovo, South Africa, 2196

## REPRESENTATIVE OFFICE | NAMIBIA

4th Avenue East, Number 1,  
Uis, PO Box 30, Erongo, Namibia

## HANNAM&PARTNERS

3rd Floor  
7-10 Chandos Street  
London  
W1G 9DQ  
United Kingdom  
+44 (0)20 7907 8500

## STIFEL

150 Cheapside  
London  
EC2V 6ET United  
Kingdom  
+44 20 7710 7600

## TAVISTOCK

Investor Relations  
18 St. Swithin's Lane,  
London  
EC4N 8AD  
+44 (0) 20 7920 3150



*“Andrada aims to be a tier one technology metals mining company, sustainably creating value for all stakeholders.”*