

# Securing **Future Lithium** Supply in Africa

ASX: TYX



AFRICA DOWN UNDER PRESENTATION

SEPTEMBER 2023

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## No new information disclaimer

The information in this presentation incorporates technical information reported to the public in announcements submitted to the ASX on 16/05/2022 ("Tyranna Secures Strategic Lithium Exploration Project In Angola"), 30/05/2022 ("Confirmation of High-Grade Assays from Namibe Lithium Project"), 1/08/2022 ("Namibe Lithium Project exploration update"), 22/08/2022 ("Further outstanding results from Namibe Lithium Project"), 12/09/2022 ("Drilling Plan for Muvero Prospect, Namibe Lithium Project"), 13/10/2022 ("Exploration update - Namibe Lithium Project"), 18/10/2022 ("Drilling Commences at the Muvero Prospect"), 07/11/2022 ("Lithium mineralisation intersected at Muvero"), 11/11/2023 ("Amendment to ASX announcement - Lithium mineralisation inter"), 06/12/2022 ("Maiden Drilling of Muvero Completed"), 22/02/2023 ("Maiden drill program intersects 2.02% lithium over 22.75m"), 02/03/2023 ("TYX to examine untested potential of Namibe Lithium Project"), 08/03/2023 ("Outstanding Metallurgy Results from Muvero Prospect"), 04/05/2023 ("TYX Secures Funding and Off Take Partner for over AUD \$31M"), 08/05/2023 ("New Lithium Discoveries at Namibe Lithium Project"), 29/05/2023 ("Assay results demonstrate Lithium mineralisation at Namibe"), 15/06/2023 ("Tyranna executes Offtake Agreement with Sinomine"), 18/07/2023 ("Tyranna ready to complete Sinomine transaction"), 18/07/2023 ("Completion of Sinomine Subscription Agreements"), 15/08/2023 ("Drilling imminent to expand Muvero"). It does not include new or additional technical information which has not been previously publicly reported.

## Competent Person's Statement

The information in this report that relates to exploration results for the Namibe Lithium Project is based on, and fairly represents, information and supporting geological information and documentation that has been compiled by Mr Peter Spitalny who is a Fellow of the AusIMM. Mr Spitalny has a relevant interest in Tyranna Resources Ltd and Angolan Minerals Pty Ltd. Mr Spitalny is employed by Han-Ree Holdings Pty Ltd through whom he provides his services to Tyranna as an Executive Director (Technical). Mr Spitalny has more than five years relevant experience in the exploration of pegmatites and qualifies as a Competent Person as defined in the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code). Mr Spitalny consents to the inclusion of the technical information in this report in the form and context in which it appears.



# Investment Summary – All The Boxes Ticked

## New frontier high grade lithium exploration in Namibe, Angola



### FIRST MOVER ADVANTAGE IN HIGHLY PROSPECTIVE LOCATION

200km<sup>2</sup> of tenement holdings consisting of pegmatite field hosting over 1000 individual pegmatites which are exposed within an area spanning 25km long and up to 10km wide.



### FULLY FUNDED TO EXPLORE

Over \$31 million in funding secured in two stages from Sinomine Resource Group and Sinomine International Exploration (Hong Kong) for exploration and development of the project



### OFFTAKE AGREEMENT SECURED

Binding offtake agreement for 50% of the spodumene and 50% of the pollucite with Sinomine including USD\$10,000,000 prepayment.



### ACCELERATING SIGNIFICANT EXPLORATION UPSIDE

- Initial sampling of LCT pegmatites delivering 7.49% Li<sub>2</sub>O as confirmation of its potential.
- 98%+ of pegmatites not yet sampled



### EXCELLENT LOCAL INFRASTRUCTURE

20km from provincial capital (Namibe), deep water ports, grid power and rail infrastructure.



### SUPPORTIVE GOVERNMENT

There is a unanimous expression of support and enthusiasm for the project, including a commitment to assist in its development. Ministerial Approval from the Angolan Government achieved for the transfer of the Namibe Project Licence to Tyranna's 100% owned Angolan subsidiary company.



### EXPERIENCED LEADERSHIP, TECHNICAL AND DEVELOPMENT EXPERTISE

The Company's experienced technical expertise is now enhanced by the investment by Sinomine Resources Group to the Development expertise of this \$7Billion Market Cap Company.



### STRONG ESG CREDENTIALS

Greater than 90% local employment with a low carbon footprint. Majority of Namibe's electricity is generated by hydropower and solar power.

# Corporate Snapshot

Fully funded to develop high grade lithium projects in Angola

## Current Capital Structure

**\$62.7M**

Market Capitalisation  
at 01 September 2023

**3.28B**

Issued Capital

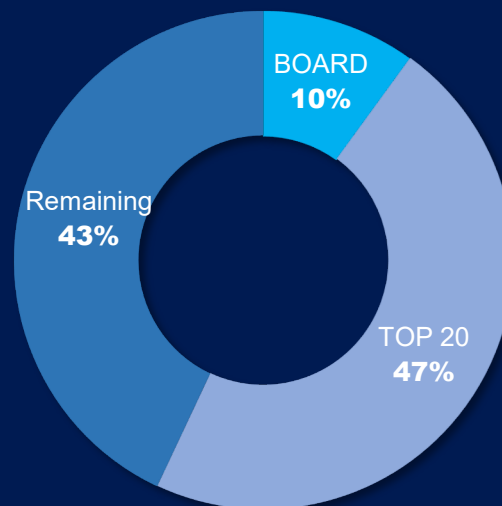
**\$14.85M**

Cash Balance as  
at 18 July 2023  
(inclusive of TYX  
subsidiaries)

**577M**

Options

## Shareholders



Top 5 Shareholders		% of Units
1	MR JASON PETERSON	8.52
2	FRESHWATER RESOURCES PTY LTD <THE ASHTON SUPERFUND A/C>	7.14
3	AFRICAN LITHIUM (HONG KONG) CO. LIMITED (SINOMINE)	5.48
4	MR SHANE PAUL LEHMANN <LEHMANN A/C>	4.03
5	HAN-REE HOLDINGS PTY LTD	3.71

# Directors & Management



**JOE GRAZIANO**  
Chairman

Joe has over 30 years' experience providing financial and strategic advice to small cap unlisted and listed public companies and privately owned businesses in WA's resource-driven industries. Since 2014 he has been focused on corporate advisory, company secretarial, strategic planning and Due Diligence with listed corporations including Mergers & Acquisitions, Capital Raisings, Corporate Governance, ASX compliance and structuring. Joe is currently a director of Pathways Corporate a specialised Corporate Advisory business.



**PAUL WILLIAMS**  
Executive Director

Paul has been involved in Angola since 2008 and was directly involved with the Longonjo licence currently being developed by Pensana. His initial working years were in accounting, finance and project management and the last twenty years have been in the mining and resources sector with Australian Stock Exchange (ASX) listed companies involved in Australia, Angola, Mauritania and Kenya.



**PETER SPITALNY**  
Executive Director  
(Technical)

Peter is an exploration geologist who has investigated more than 40 lithium pegmatite projects in Australia or globally. He was principal technical advisor to AVZ Minerals Ltd during the early exploration of the Manono Lithium and Tin Project in the DRC, leading to definition within the Roche Dure pegmatite of the largest hard-rock lithium Mineral Resource in the world.



**DAVID WHEELER**  
Non-Executive Director

David has more than 30 years of Senior Executive Management, Directorships, and Corporate Advisory experience. He is a foundation Director and Partner of Pathways Corporate a boutique Corporate Advisory firm that undertakes assignments on behalf of family offices, private clients, and ASX listed companies. David has engaged in business projects in the USA, UK, Europe, NZ, China, Malaysia, Singapore and the Middle East. David has experience on public and private company boards and currently holds several Directorships and Advisory positions in Australian companies.



**TIM SLATE**  
Company Secretary

Tim holds a Bachelor of Commerce from the University of Western Australia. He is a Chartered Accountant, an Associate Member of the Governance Institute of Australia and a Graduate of the Australian Institute of Company Directors. Tim has over 15 years' experience providing accounting, secretarial and corporate advice to private and public companies.



# Sinomine Resource Group – Major Strategic Shareholder

**Committed to the exploration and development of the Namibe lithium project**



中矿资源集团股份有限公司

SINOMINE RESOURCE GROUP CO., LTD.

Founded in 1999, Sinomine is a global mining group (Revenue ~US\$1 billion in 2022) with a comprehensive resource industrial chain, in particular EV-lithium material development.<sup>1</sup>

Sinomine's business covers more than 40 countries including, like Canada, US, UK, Norway, Zambia, Congo (DRC), Zimbabwe, Uganda, Indonesia, Malaysia and other regions in Asia, Africa, Europe, America, and Oceania.

Sinomine is an integrated "mining, dressing, and smelting" enterprise that covers the entire spectrum of hard rock lithium ore development, lithium concentrate processing, and the production and sales of lithium compounds.

Strong foundations in advanced processing technology and industry-leading expertise, Sinomine's lithium fluoride products have a stellar reputation in the market for high quality and consistent performance. As a result, Sinomine maintains a significant market share and have successfully integrated into Tesla's supply chain system.

- **Off Take Agreement with Tyranna for 50%**
- **Sinomine to invest circa AUD \$31,000,000 with half the funds received to date for exploration and development**

<sup>1</sup> <https://www.wsj.com/market-data/quotes/CN/XSHE/002738/financials>



# The Race Is On

We all know the stats of Li but... Where is the new lithium supply coming from?

AFRICA AMONG TOP  
GLOBAL PRODUCERS



For 7 out of 10 minerals  
necessary for the global  
transition towards a greener  
economy and for  
manufacturing electric cars.

LITHIUM DEMAND BY 2025



1.5 million  
metric tons

LITHIUM BY 2040



Tenfold to  
Thirty-fold





Geopolitical factors have shaped escalating international competition over natural resources in strategic regions including Africa, which holds a significant portion of the world's mineral resources.





# Project Location

Proximity to infrastructure, 20km from:

-  The provincial capital, Namibe, a coastal city in the southwest of Angola, Africa with a population exceeding 300,000
-  Deep water Atlantic Ocean ports of Saco and Namibe
-  Grid power
-  Rail Infrastructure























# Project Geology

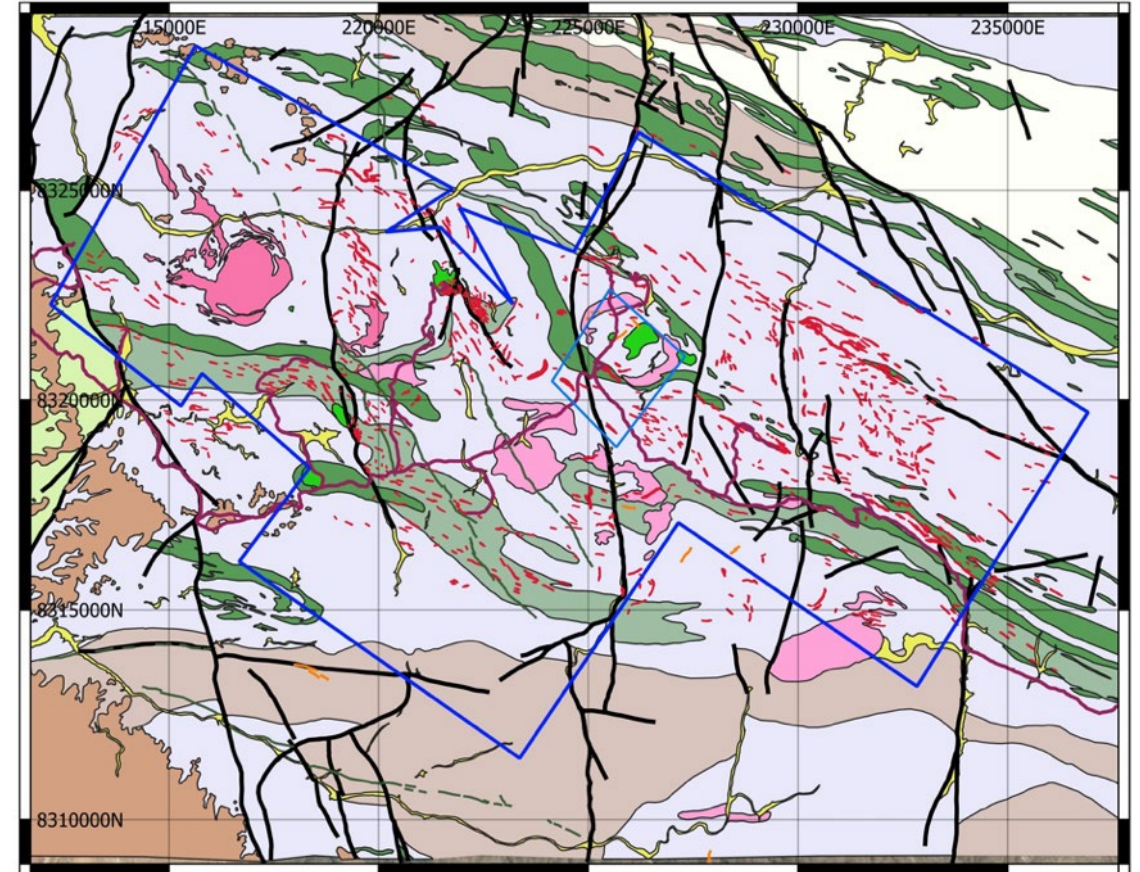
## Typical “pegmatite field” geology

- Complex, deformed highly metamorphosed terrane, like other pegmatite fields.
- Pegmatites of varying size, varying orientation and within a broad range of host-rocks.

### Legend

 Prospection Title No.023/05/03/T.P/ANG-MIREMPET 2023	 Alluvium
 Caniqui Licence Boundary	 Namibe Basin: sedimentary rocks
 Tracks	 Namibe Basin: Volcanic Rocks
 Fault	 Pegmatite
 Quartz Vein	 Leucogranite
 Dolerite dykes	 Granite
	 Pyroxenite/gabbro-norite
	 Namibe Group: Amphibolite unit
	 Namibe Group: Schist Unit d
	 Namibe Group: Schist Unit c
	 Namibe Group: Schist Unit b
	 Namibe Group: Schist Unit a

### Interpreted Geology, Giraul Pegmatite Field



WGS-84 UTM projection zone 33L Grid convergence 1°W  
Magnetic declination 6°W (2022)

# An Abundance Of Pegmatites!

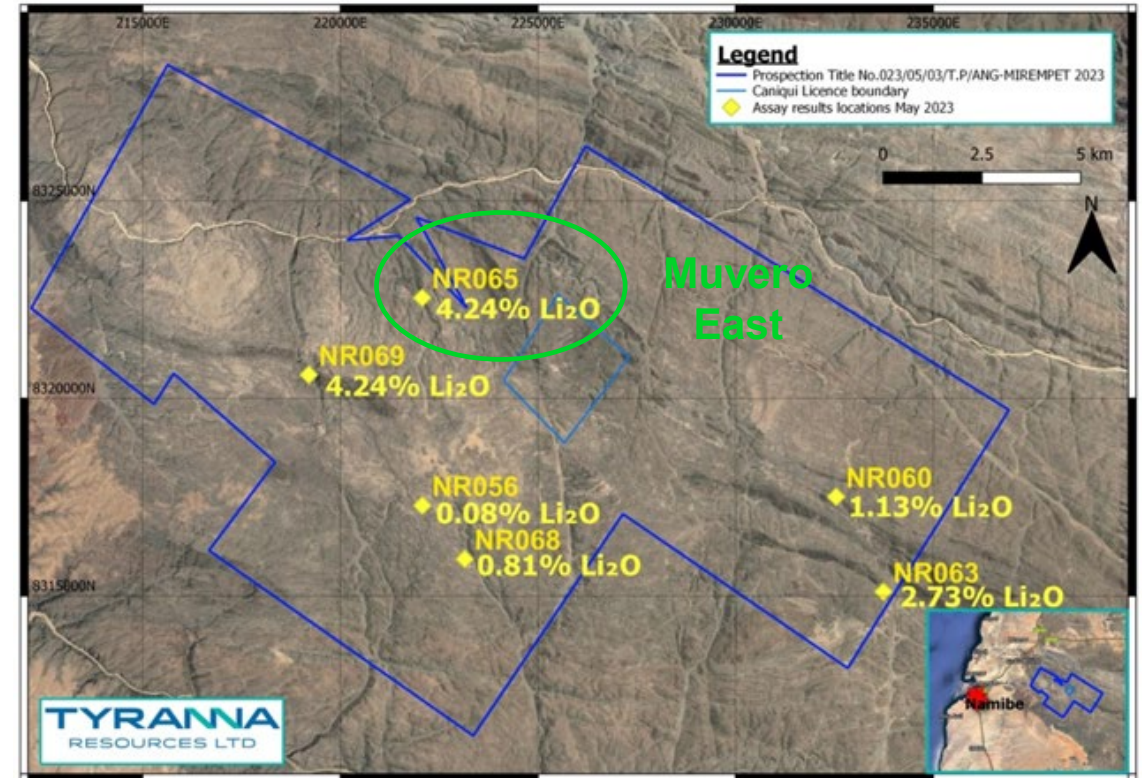
- More than 1,000 known pegmatites in the granted licence boundary
- Sampling to date has tested about 2% of the pegmatites, with all belonging to the LCT pegmatite family
- Only 22 sites sampled to-date

- Li minerals confirmed at 10 of the 22 tested sites
- Spodumene present at 4 of the 10 sites containing Li minerals

98% of the pegmatites in the project area have not been sampled!



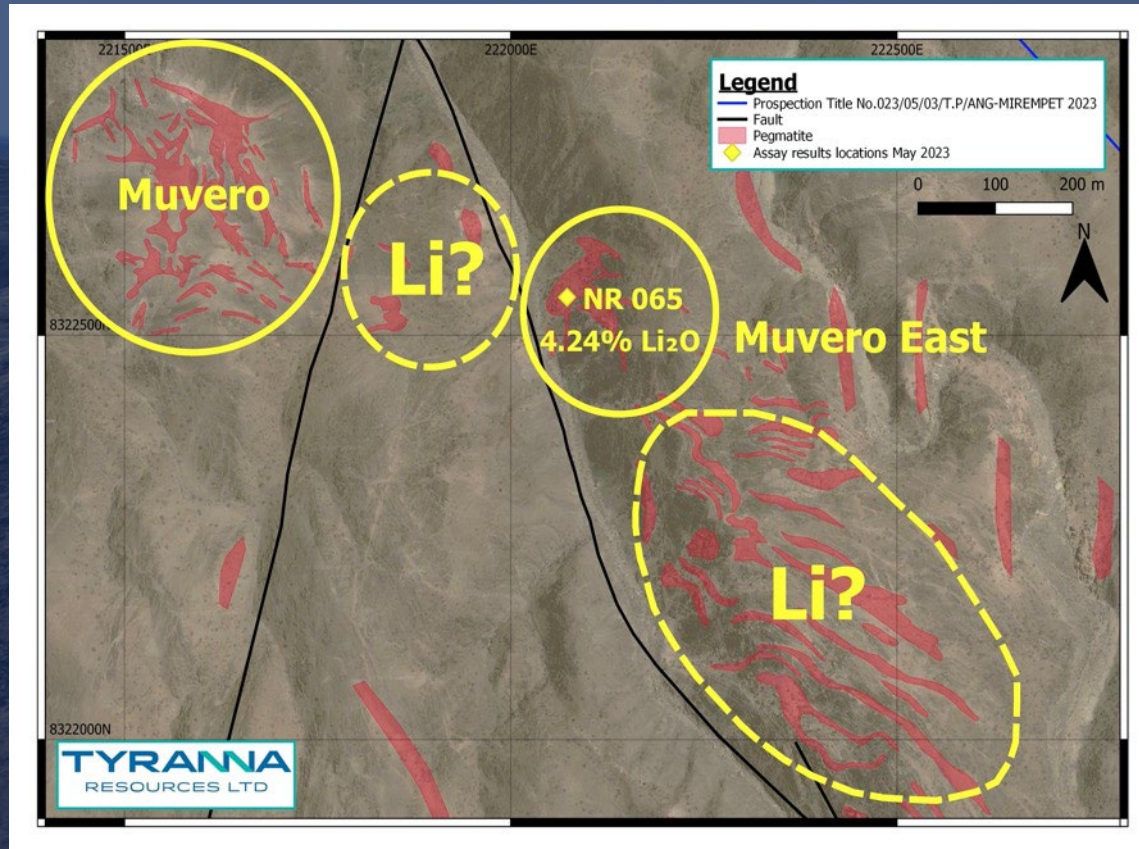
Best results from each location sampled in March 2023



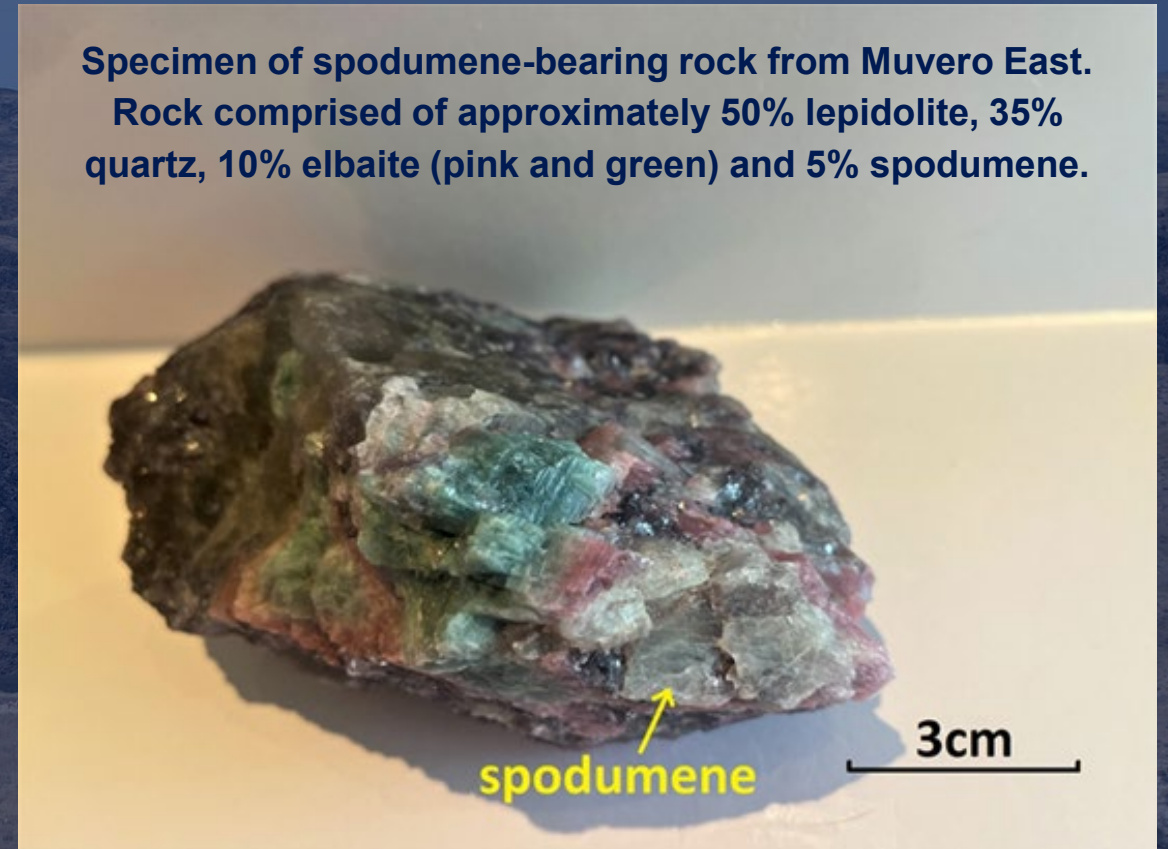


# Encouraging Assays Expand The Potential

Lithium mineralisation at Muvero & Muvero East may be part of a large system



Specimen of spodumene-bearing rock from Muvero East.  
Rock comprised of approximately 50% lepidolite, 35% quartz, 10% elbaite (pink and green) and 5% spodumene.





# The Muvero Prospect

## Lithium anomalism

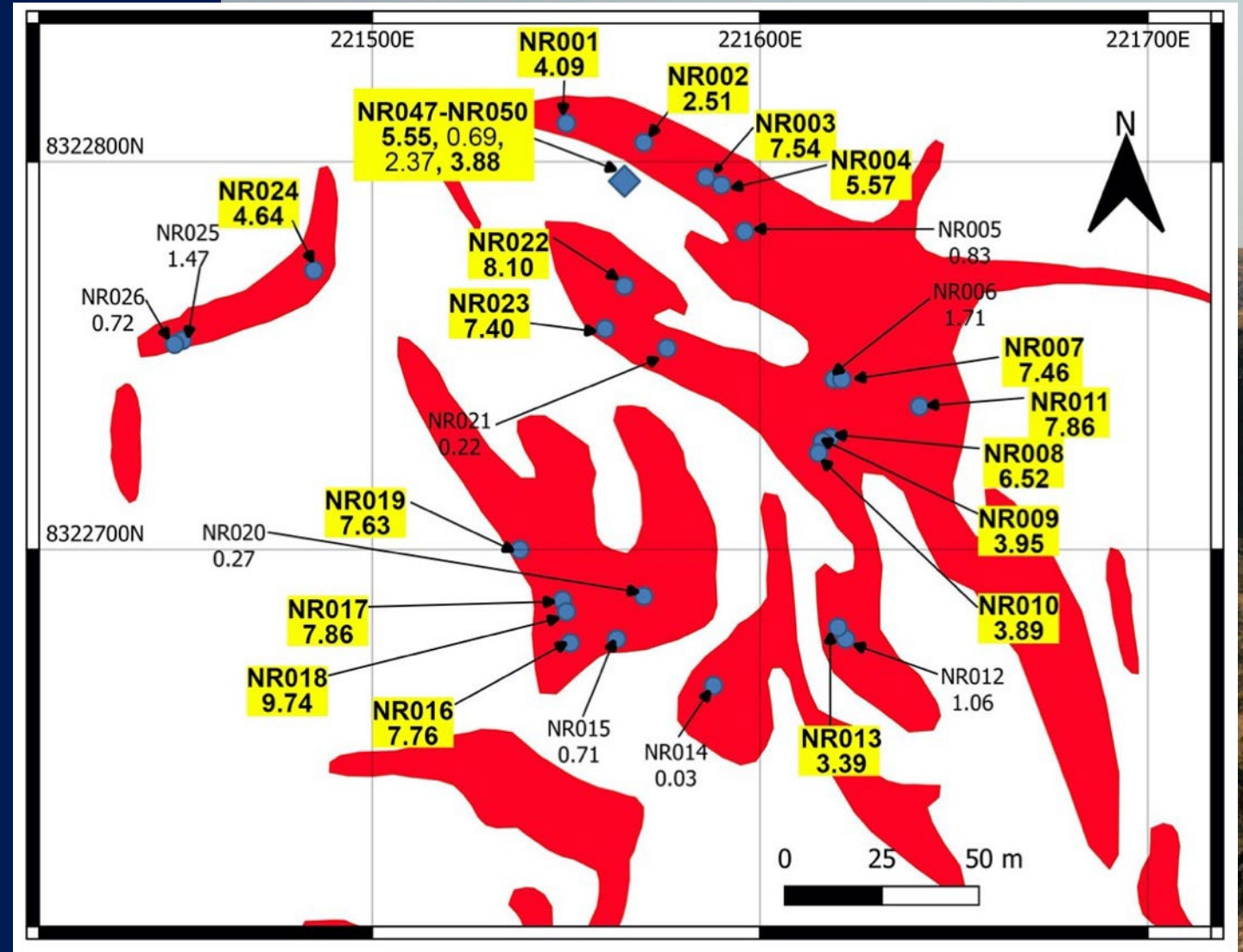
Sample locations (blue spot),  
with sample ID (e.g. NR001) &  
%Li<sub>2</sub>O



### Legend

- Pegmatite
- Samples from small pit nearby
- Rock-chip sample points

WGS-84 UTM projection zone 33L Grid convergence 1°W  
Magnetic Declination 6°W (2022)





# The Muvero Prospect

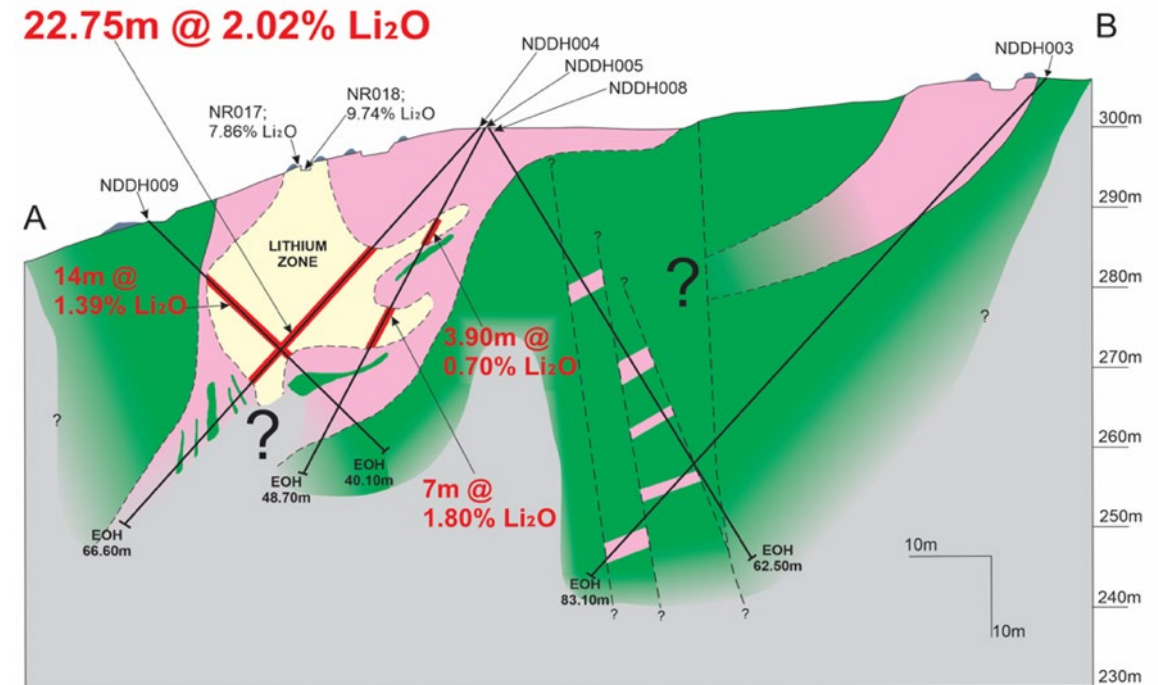
## Early-stage exploration success

Drill-holes NDDH004, NDDH005 and NDDH009 intersected different parts of the same zone of lithium mineralisation, with the following results:

- **NDDH004**; from 20.25m to 43m, 22.75m @ 2.02% Li<sub>2</sub>O
  - including 24m to 31m, 7m @ 3.06% Li<sub>2</sub>O,
  - which contains 1m @ 5.26% Li<sub>2</sub>O from 29m
- **NDDH005**; from 13.10m to 17.00m, 3.90m @ 0.70% Li<sub>2</sub>O
  - And from 26.00m to 32.00m, 7m @ 1.80% Li<sub>2</sub>O
- **NDDH009**; from 10.00m to 24.00m, 14m @ 1.39% Li<sub>2</sub>O
  - Including 14.30m to 19.00m, 4.70m @ 1.95% Li<sub>2</sub>O

The intersection by NDDH004 of an interval of high grades of Caesium by NDDH004 (40m – 41m, 1m @ 23,884ppm Cs, i.e., **1m @ 2.53% Cs<sub>2</sub>O**) suggests that the drill-hole passed through part of a **pollucite** zone. This proves that pollucite is present in at least two parts of the Muvero pegmatite and may prove to be an economically significant component.

## Cross-section AB, displaying intersected zone of high-grade lithium mineralisation.



# The Muvero Prospect

## Outstanding metallurgy results

- **Exceptional concentrate** quality produced at high recovery
- Concentrate Grade of **6% Li<sub>2</sub>O** or more
- **Low Impurities**, e.g., < 0.11% Fe<sub>2</sub>O<sub>3</sub>
- **80%– 82% Recovery**
- Spodumene concentrate can be produced from either 12mm or 8mm crush, **much coarser than most deposits**
- XRD confirms **spodumene dominates the lithium mineralisation**
- Results support potential of Muvero to be a **source of high-grade Direct Shipping Ore (DSO)**

*The pit that the rubble collected as the bulk sample originated from.*

The Heavy Liquid Separation data confirms high grade concentrates **containing** low iron can be produced at high mass recoveries.

Sample	SG Fraction	Mass	Assay			Deportment		
		%	% Li <sub>2</sub> O	% Fe <sub>2</sub> O <sub>3</sub>	% K <sub>2</sub> O	Li <sub>2</sub> O	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O
<b>Head</b>			<b>3.758</b>	0.11	2.09			
<b>-12.5+0.85mm</b>	3.1SX	21.93	<b>7.527</b>	0.24	0.11	42.50%	46.46%	1.13%
	3.1FT	16.52	<b>6.989</b>	0.17	0.43	29.72%	24.78%	3.27%
	2.9FT	15.68	<b>4.246</b>	0.12	7.12	17.14%	16.60%	51.97%
	2.7FT	43.27	<b>0.916</b>	0.03	2.08	10.20%	11.46%	41.87%
	2.5FT	2.60	<b>0.652</b>	0.03	1.44	0.44%	0.69%	1.75%
<b>-8+0.85mm</b>	3.1SX	21.31	<b>7.843</b>	0.16	0.09	44.63%	41.23%	0.91%
	3.1FT	14.38	<b>7.047</b>	0.15	0.35	27.05%	26.08%	2.34%
	2.9FT	17.70	<b>3.975</b>	0.10	7.09	18.79%	21.41%	58.32%
	2.7FT	45.65	<b>0.774</b>	0.02	1.79	9.44%	11.04%	37.88%
	2.5FT	0.96	<b>0.359</b>	0.02	1.23	0.09%	0.23%	0.54%





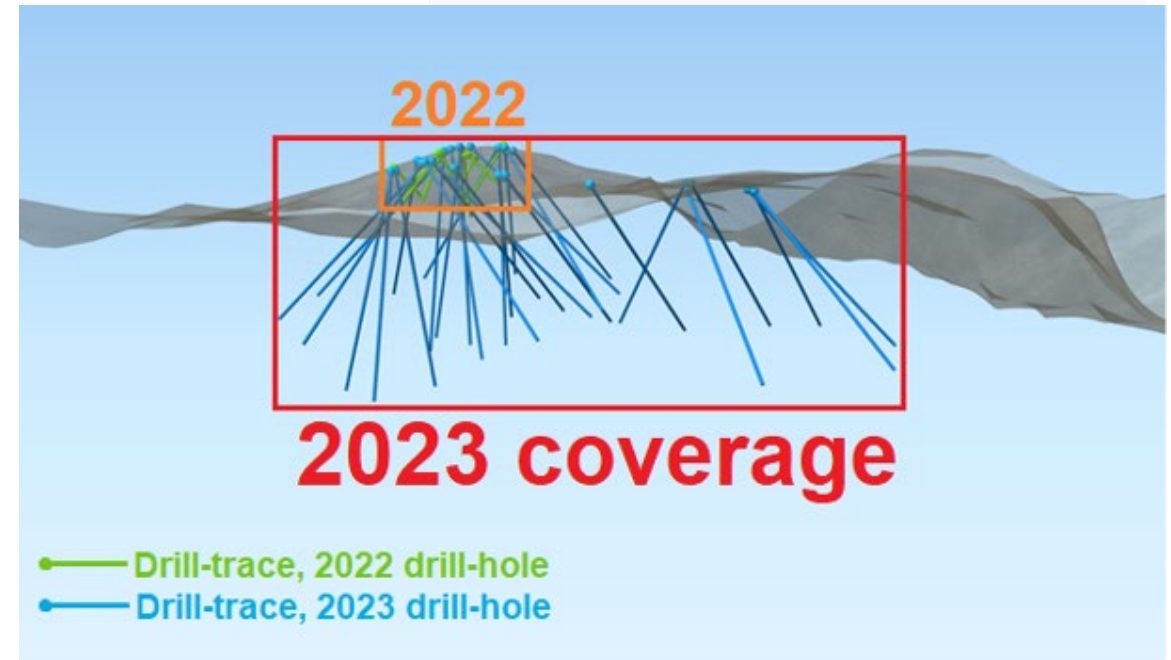
# The Muvero Prospect

## The next phase of exploration

- ✓ Drilling is scheduled for early October 2023 and will focus upon the Muvero Prospect.
- ✓ A total of 30 drill-holes have been planned, each to a down-hole depth of 200m, for a total of 6,000m
- ✓ Drilling to test Muvero East will commence in early 2024 after drill-rig access has been finalised, along with other prospects for which drilling is planned.

Schematic 3-D view of planned drilling.

This view is from the southwest looking towards the northeast.



# News Flow

Defining a resource & expanding the footprint

**September  
2023**

**Pre-drilling update  
(access tracks,  
camp site, local  
government)**

**October  
2023**

**Helicopter-assisted  
survey of remote  
pegmatites up-date  
-----  
Initial drilling  
commencing**

**November  
2023**

**Drilling  
completion**

**December/  
January  
2023-24**

**Drilling  
results expected**



# So Why Tyranna?

**Tyranna is a 100% dedicated lithium exploration company focused on high-grade, hard rock lithium assets in Angola**

## ✓ Exploration for high-grade, hard rock lithium deposits

Primary Focus is exploration for high-grade, hard rock lithium deposits in the Giraul Pegmatite Field located in the Province of Namibe, Angola.

## ✓ Key milestones completed

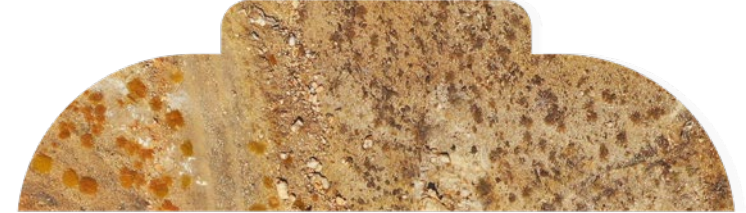
The Company has completed key milestones to-date through sampling and testing a small part of the field to determine the existence of Lithium Mineralisation.

## ✓ Strategic funding & offtake partnership with Sinomine

The Company now has a strategic partner with a binding Off-take Agreement in Sinomine Resources Group to fast-track exploration and define a lithium resource of significance!

## ✓ Experienced in-country team

The Company has built an experienced in-country team to enhance the exploration activities in 2023 and onwards.





# TYRANNA

RESOURCES LTD

## Contact Us

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