

**16 May 2023**

## **TREK METALS TO PRESENT AT RESOURCES RISING STARS INVESTOR CONFERENCE**

Trek Metals is pleased to advise that the company's Chief Executive officer, Derek Marshall will be presenting at the Resources Rising Stars Conference to be held at RACV Royal Pines Resort on the Gold Coast on Tuesday 16th and Wednesday 17th May 2023.

Resource Rising Stars will be live streamed and investors can watch the presentation from the following link: [https://www.bigmarker.com/series/resources-rising-stars-2023-/series\\_summit](https://www.bigmarker.com/series/resources-rising-stars-2023-/series_summit)

The presentation slides to be delivered by Mr Marshall are attached.

Authorised by the Board.

**ENDS**

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BATTERY-FOCUSED MINERALS EXPLORER

# Powering up in the Pilbara



*Drilling imminent at emerging high-grade lithium discovery  
Advanced Hendeka manganese Project*

+

+ ASX  
TKM

+ PRESENTER

DEREK MARSHALL - CEO

RESOURCE RISING STARS - INVESTOR PRESENTATION

16 May 2023

ASXTKM ⊕

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## Forward Looking Statements

This presentation may contain forward looking statements that are subject to risk factors associated with mineral exploration, mining and production businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates. This presentation also contains reference to certain intentions, expectations, future plans, strategy and prospects of the Company. Those intentions, expectations, future plans, strategy and prospects may or may not be achieved. They are based on certain assumptions, which may not be met or on which views may differ and may be affected by known and unknown risks. In particular, there is a risk that the Company will not be able to expand or upgrade its existing JORC resource. The performance and operations of the Company may be influenced by a number of factors, many of which are outside the control of the Company. No representation or warranty, express or implied, is made by the Company, or any of its directors, officers, employees, advisers or agents that any intentions, expectations or plans will be achieved either totally or partially or that any particular rate of return will be achieved. Given the risks and uncertainties that may cause the Company’s actual future results, performance or achievements to be materially different from those expected, planned or intended, recipients should not place undue reliance on these intentions, expectations, future plans, strategy and prospects. The Company does not warrant or represent that the actual results, performance or achievements will be as expected, planned or intended. These forward-looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. The forward-looking statements are made as at the date of this announcement and the Company disclaims any intent or obligation to update publicly such forward looking statements, whether as the result of new information, future events or results or otherwise.

## Competent Person’s Statement - Exploration Results

The information in this announcement relating to Exploration Results is based on information compiled by the Company’s Chief Executive Officer, Mr Derek Marshall, a competent person, who is a Member of the Australian Institute of Geoscientists. Mr Marshall has sufficient experience relevant to the style of mineralisation and to the type of activity described to qualify as a competent person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.” Mr Marshall consents to the inclusion in this announcement of the matters based on his information in the form and content in which it appears.

## Competent Person Statement – Mineral Resources

The information in relation to Mineral resources is extracted from the report entitled “Trek accelerates battery metals strategy with acquisition of advanced WA manganese project via scheme of arrangement with Edge Minerals Limited” dated 6 June 2022 and is available to view on [www.asx.com.au](http://www.asx.com.au) (Search ASX:TKM). The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the 6 June 2022 market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person’s findings are presented have not been materially modified from the original market announcement.

## For Additional Information refer TKM ASX Announcements

Tambourah:

- 14/02/23 - Lithium discovery potential at Tambourah
- 07/11/22 - High Grade Lithium Assays of up to 3.07% Li<sub>2</sub>O at Tambourah
- 27/10/22 - Spodumene Confirmed at Tambourah Lithium Project
- 21/07/22 - Pilbara Battery Metals Exploration Advancing on Multiple Fronts
- 26/05/22 - Lithium Pegmatites Identified at Tambourah
- 17/04/23 - Approvals Received for Maiden Lithium Drilling Program at Tambourah Project – Pilbara, WA

Hendeka:

- 20/09/22 - Edge Minerals Scheme Booklet
- 06/06/22 - Trek Accelerates Battery Metals Strategy & Scheme Implementation Agreement with Edge Minerals
- 28/04/23 - March 2023 Quarterly Activities Report

# Why Trek Metals?

A diversified explorer with a high-growth battery metals portfolio



## Battery Metal Focus

Trek's focus is to explore for and develop critical metals that are essential to the global decarbonisation and electrification megatrend via the production of lithium-ion batteries, in particular nickel-cobalt-manganese (NCM) battery chemistries which are gaining market share due to their superior performance.



## Strategically Located Assets

Trek's portfolio is focused within Western Australia, recently rated as the #1 mining jurisdiction globally. The Pilbara region is an established mining hub with world-class infrastructure and services – an ideal location to discover and develop new projects.



## Proven team with deep battery market experience

The Trek board were founding directors of lithium producer Pilbara Minerals Ltd (ASX: PLS) and played an instrumental role in transforming it from a junior exploration company into the multi-billion-dollar ASX-100 company it is today.

ASX TKM (+)



# Corporate Snapshot

Experienced team of battery metal pioneers



## Capital Structure

ASX Code	TKM.ASX
Share Price (10 <sup>th</sup> May 2023)	\$0.060
Shares on issue	363.9m
Market Cap.	\$21.8m
Cash and cash equivalents (31 <sup>st</sup> March 2023)	\$2.7m
Enterprise Value	\$19.1m

## Board of Directors

Tony Leibowitz	Non-Executive Chairman
Neil Biddle	Non-Executive Director
John Young	Non-Executive Director
Valerie Hodgins	Non-Executive Director



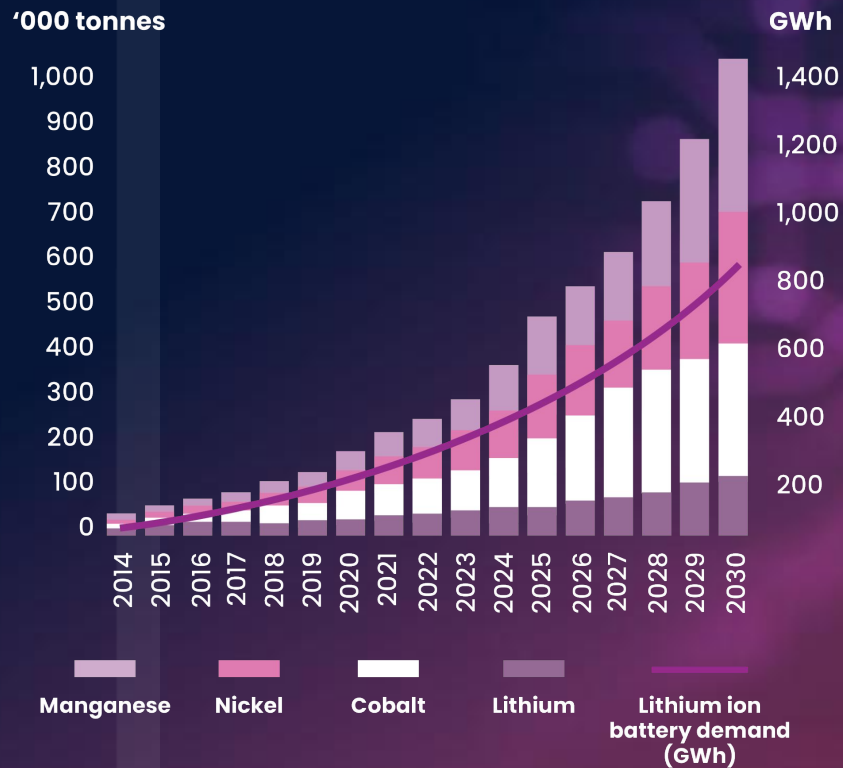
The infrastructure rich Pilbara region of WA is consistently voted the best place globally to undertake mining – photo taken a short drive from Trek's Tambourah Lithium Project

# Battery Metal Focus

Transformational demand being driven by the burgeoning lithium-ion battery industry

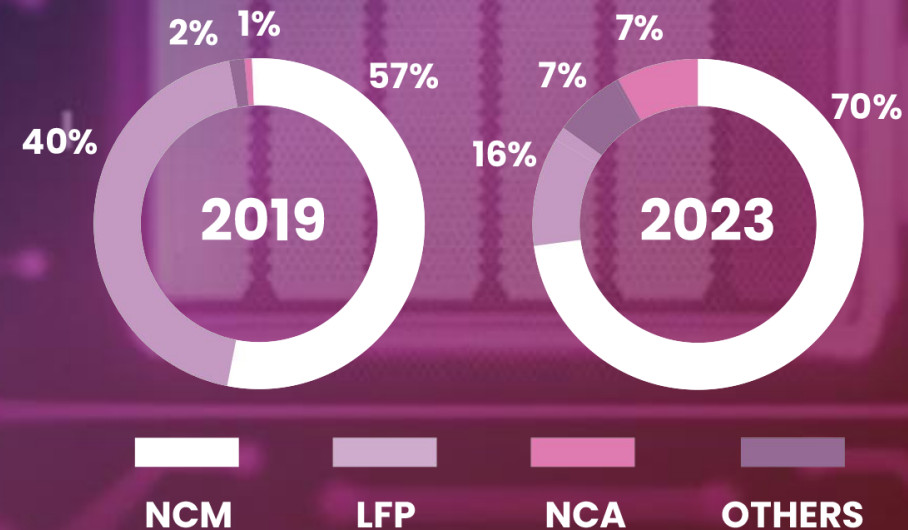


Global lithium-ion and materials demand forecast from EV sales, 2015-2030 (Thousands of tonnes, GWh)



Source: Bloomberg New Energy Finance

## NCM chemistry gaining market share



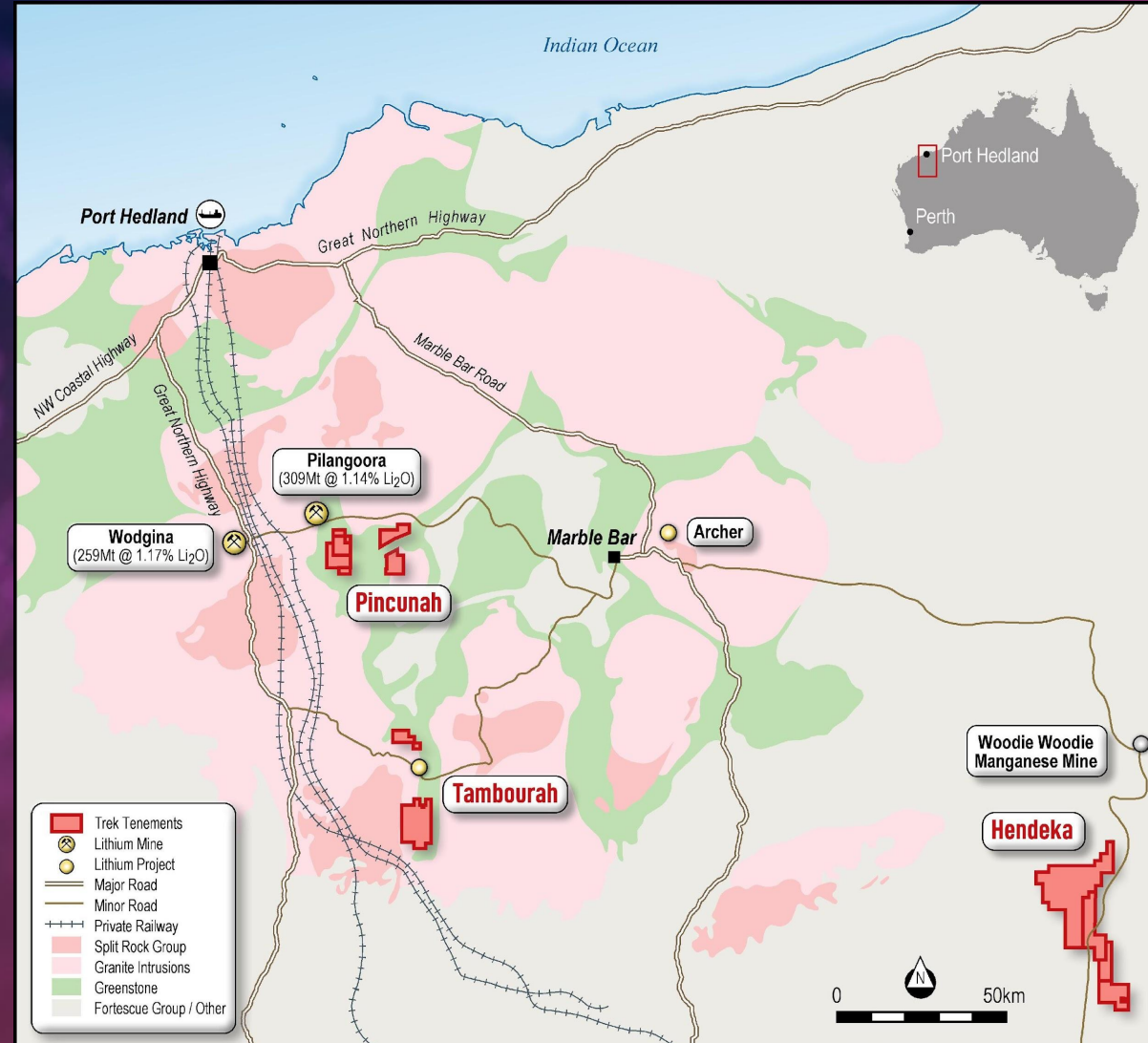
Source: FBI CRC Li-ion battery cathode manufacturing in Australia



# World-Class Location

The Pilbara region of Western Australia is a mining powerhouse

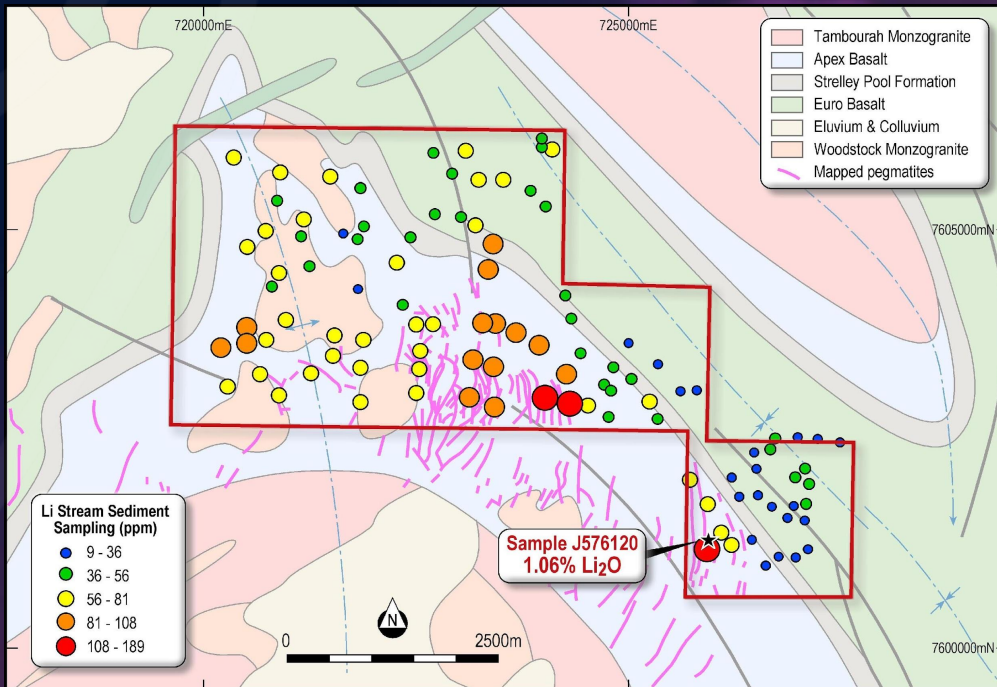
- Infrastructure-rich: roads, rail, power & port
- A region rich in world-class ore deposits (including two hard rock lithium deposits with >200Mt)
- Proven pathway to development in a short timeframe



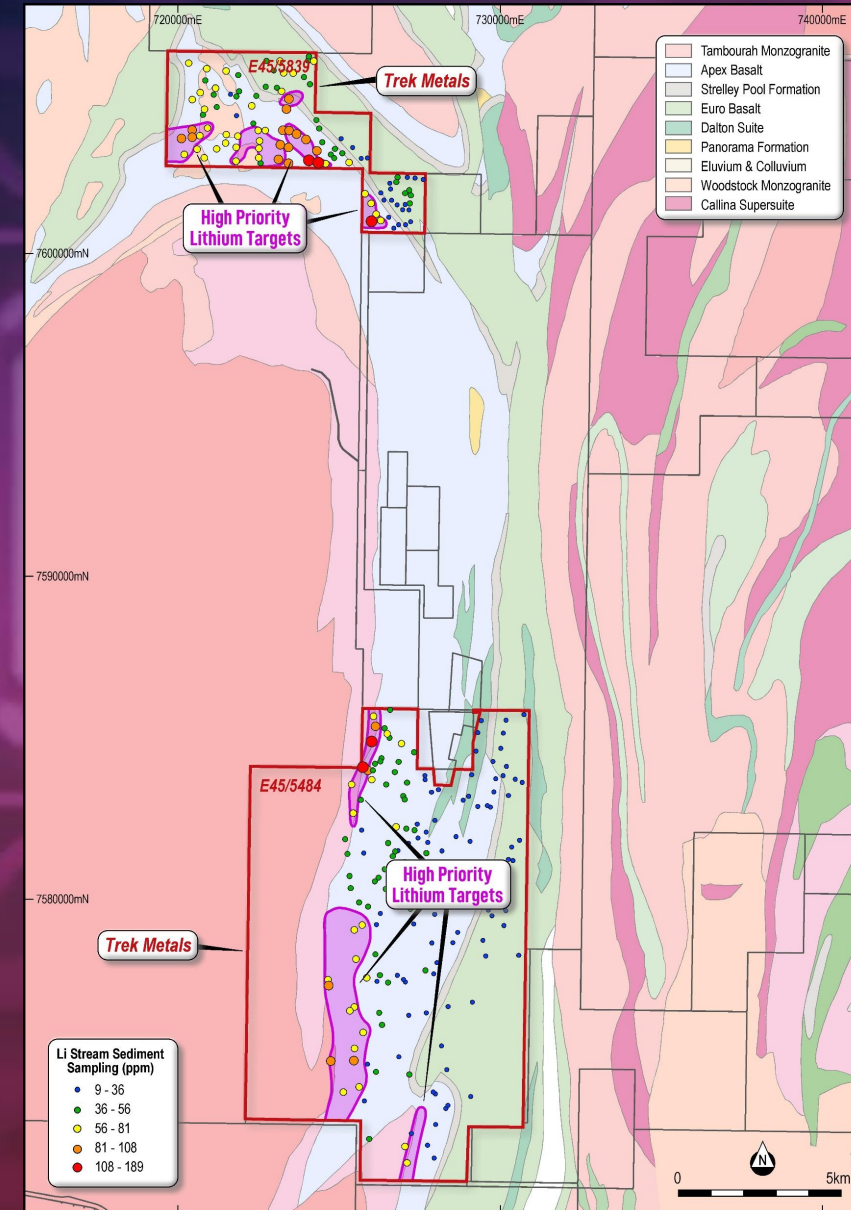
# Tambourah - Lithium

Large tenement holding with a significant Lithium-Caesium-Tantalum (LCT) pegmatite system

- Large area with elevated Li-Cs-Ta in steams
- Multiple pegmatites and high grade lithium at surface
- Under-explored - no drilling to date (ever!)



Tambourah North – lithium in streams



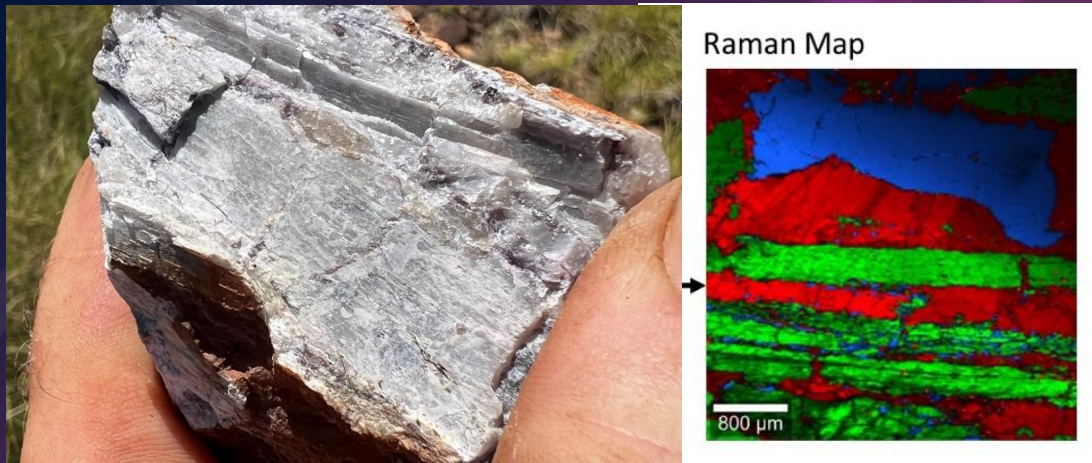
Tambourah Project - lithium in streams



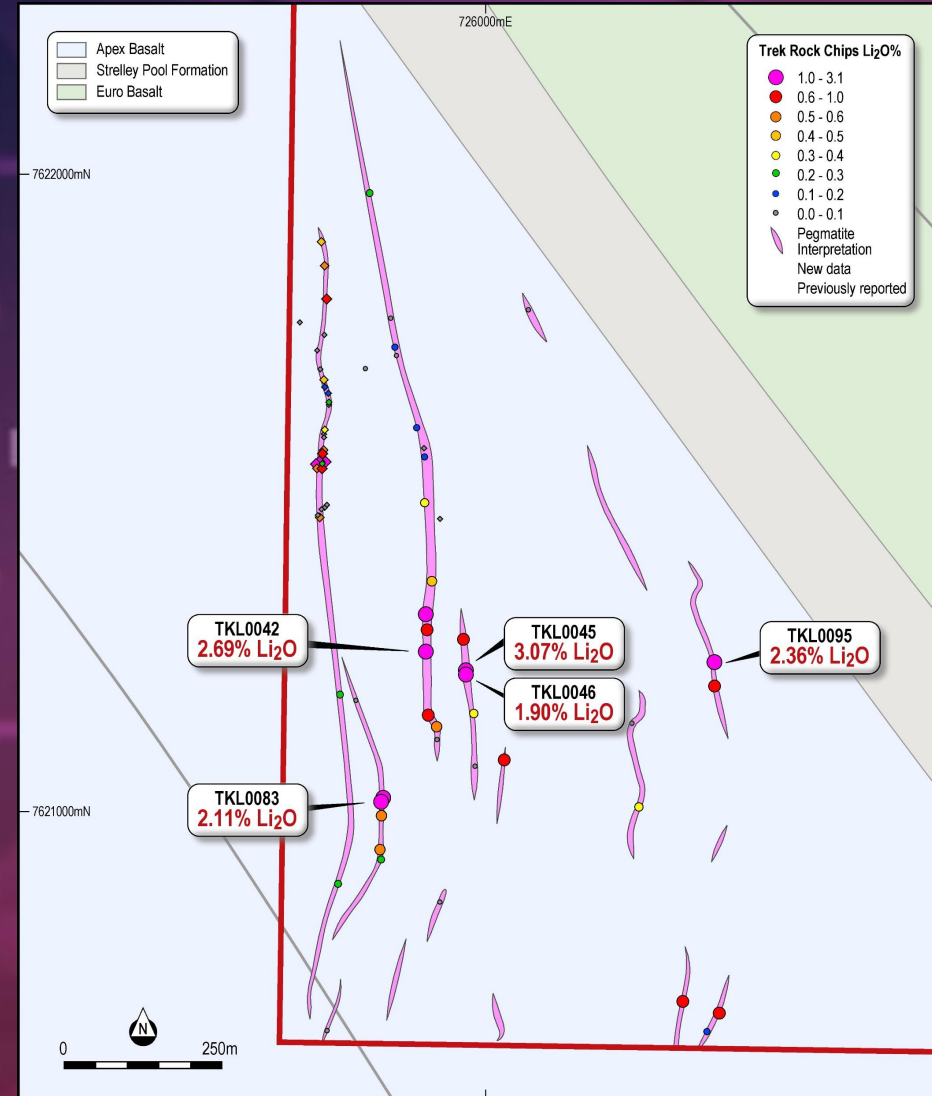
# Tambourah - Lithium

High-grade lithium & spodumene, with maiden drill testing imminent

- Rock chip sampling returned high grade lithium
- Spodumene confirmed across multiple stacked dykes
- Maiden drill testing to commence next month



Spodumene from outcrop at the Eastern Prospect (spodumene in green, quartz in blue & albite in red)



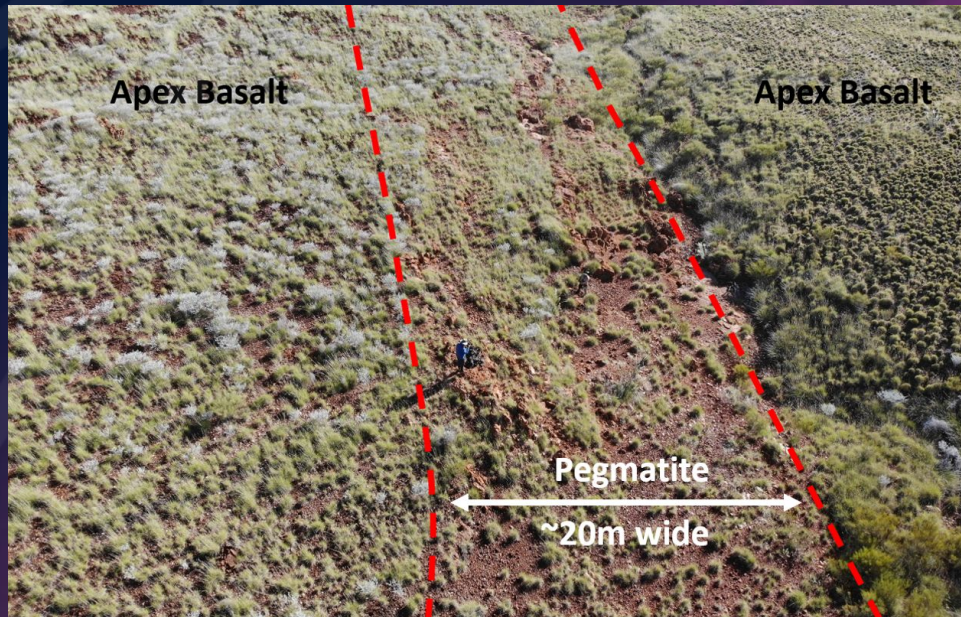
Eastern Prospect – High grade rock chips



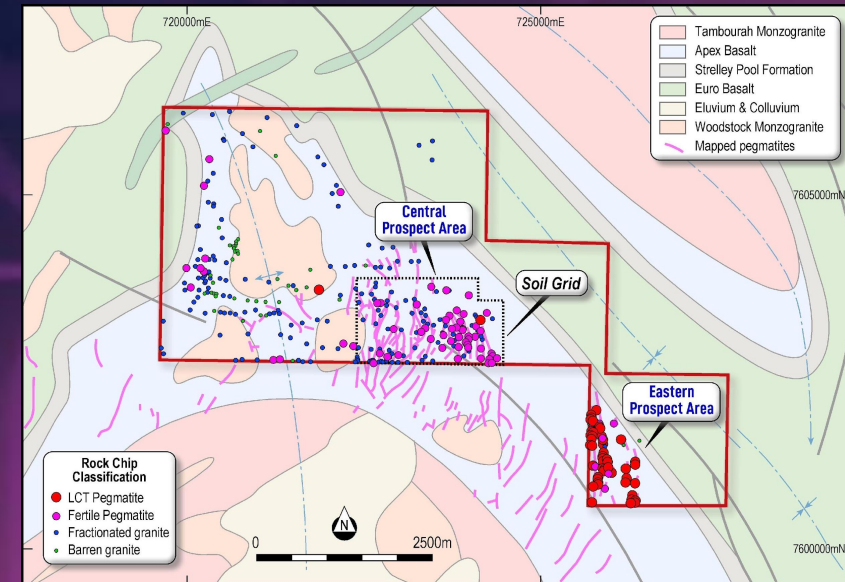
# Tambourah - Lithium

## Multiple advanced exploration targets

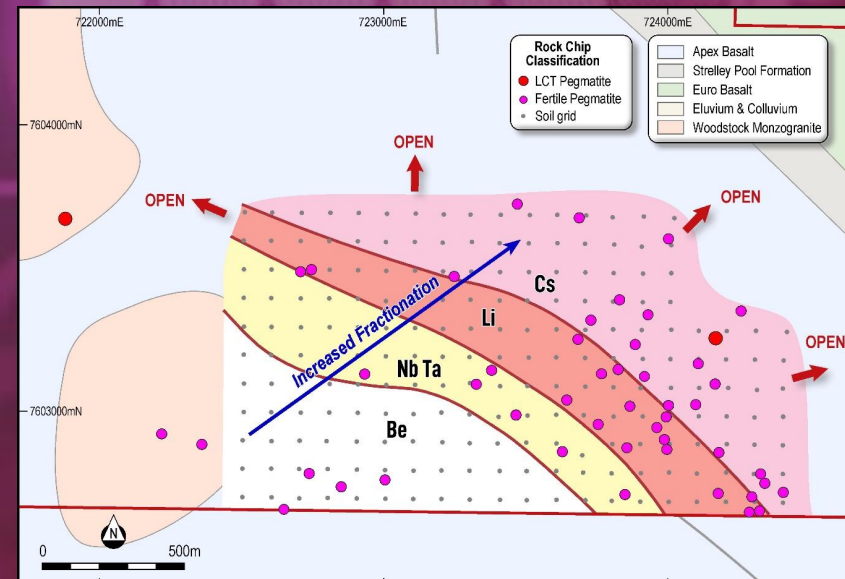
- Thicker and higher density of fertile pegmatites at the Central Prospect
- Soils exhibit strong fractionation in the Central Prospect
- Maiden drilling Eastern and Central Prospect areas



Central Prospect pegmatite outcrop



Rock chip results highlight lithium prospectivity



Strong fractionation trends in Central Prospect soils

# Battery Metal Focus

**Manganese** – an essential mineral in steel and the forgotten battery metal



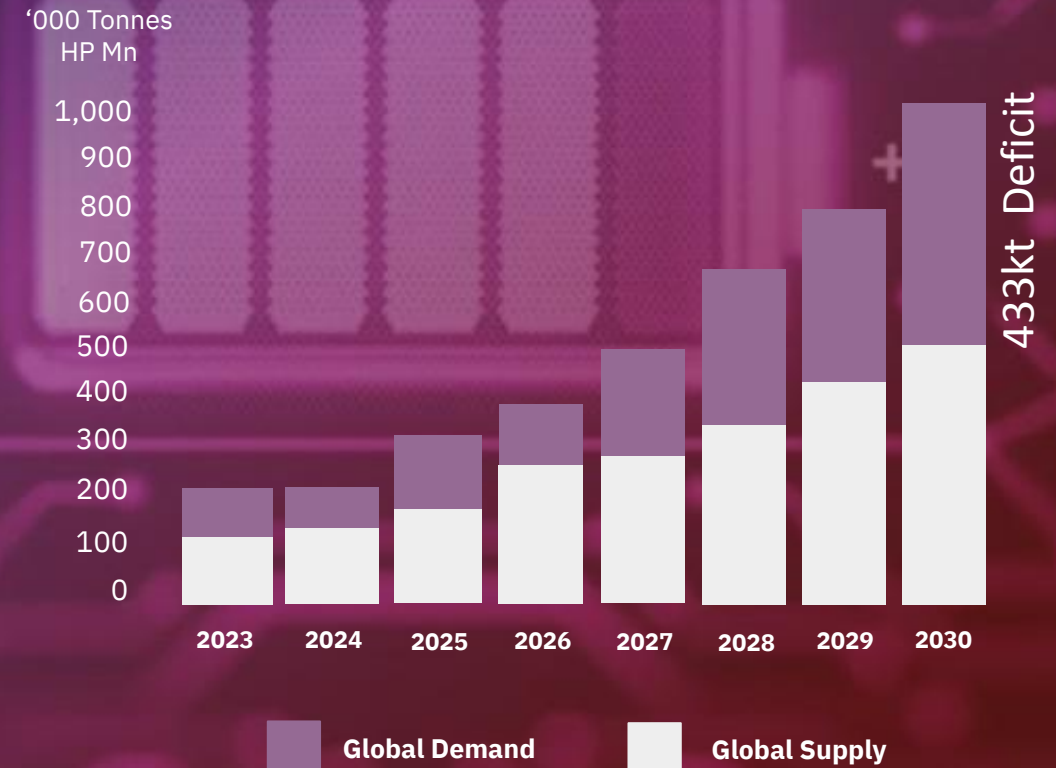
## Manganese Concentrate

- Manganese (Mn) is the fourth most consumed metal globally
- 90% used by the steel industry to prevent corrosion, resist abrasion and increase hardenability
- Baseload demand from the steel industry predicted to increase with continued global urbanisation

## Manganese Sulphate

- Predicted high growth demand from EV sector
- Mn increasingly added into battery chemistries (in particular NCM & emerging LFMP)
- Battery grade High Purity Manganese Sulphate Monohydrate (HPMSM) required for the EV sector

**Global High Purity Manganese Demand & Supply**



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2021

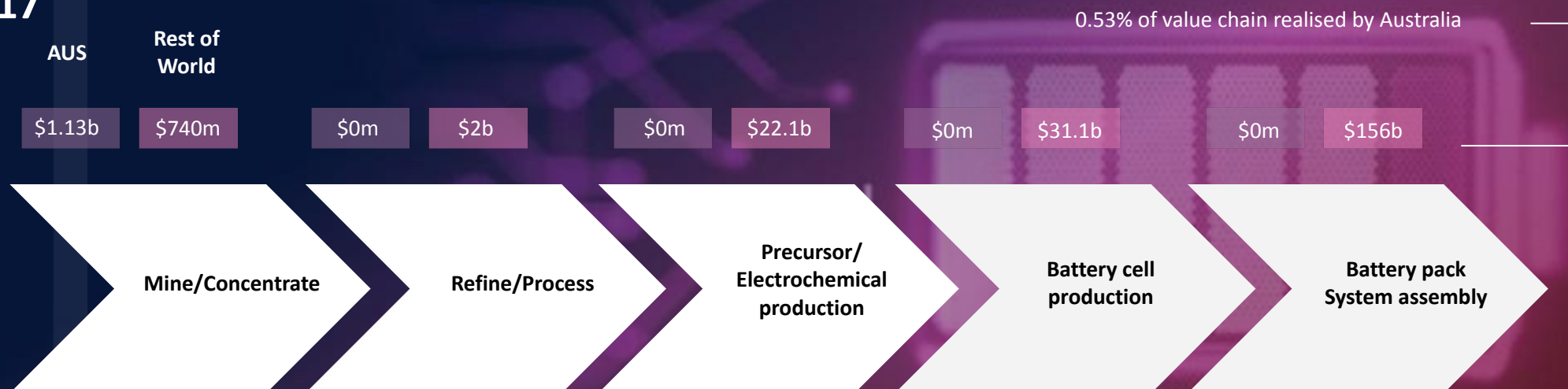


# Battery Metal Focus

Aiming to move up the value chain by participating in downstream processing



2017



Hard rock / Brine

LiOH, Li<sub>2</sub>CO<sub>3</sub>

MnSO<sub>4</sub>.H<sub>2</sub>O

Li(Ni<sub>x</sub>Mn<sub>y</sub>Co<sub>z</sub>)O<sub>2</sub>  
Graphite

Sinter/Assemble

Manufacture,  
deploy, manage

\$10.1b

\$16.2b

\$2.6b

\$63.2b

\$0m

\$385b

\$0m

\$500b

\$0m

\$1.68t

2025

0.47% of value chain realised by Australia

Source: FBI CRC Li-ion battery cathode manufacturing in Australia

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# Hendeka - Manganese

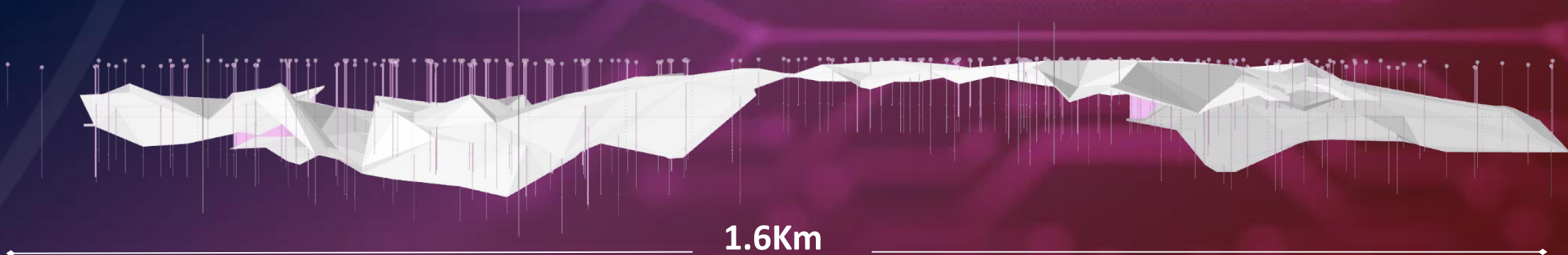
A forgotten Pilbara battery metals asset with huge upside



- Inferred Resource 11Mt @ 15% Mn
- Upgradeable through beneficiation (concentrate grades up to 44.6% Mn)
- Granted tenure & heritage agreements

	Mt	Mn%	Al <sub>2</sub> O <sub>3</sub> %	Fe%	SiO <sub>2</sub> %	P%	LOI(1000)
Contact	2.8	13.6	5.1	15.7	42.9	0.054	8.4
Contact North	8.5	15.4	3.0	15.0	42.4	0.057	8.6
Combined	11.3	15.0	3.5	15.2	42.5	0.057	8.5

Table 1: JORC Inferred Resource utilising a 10.1% Mn cut-off



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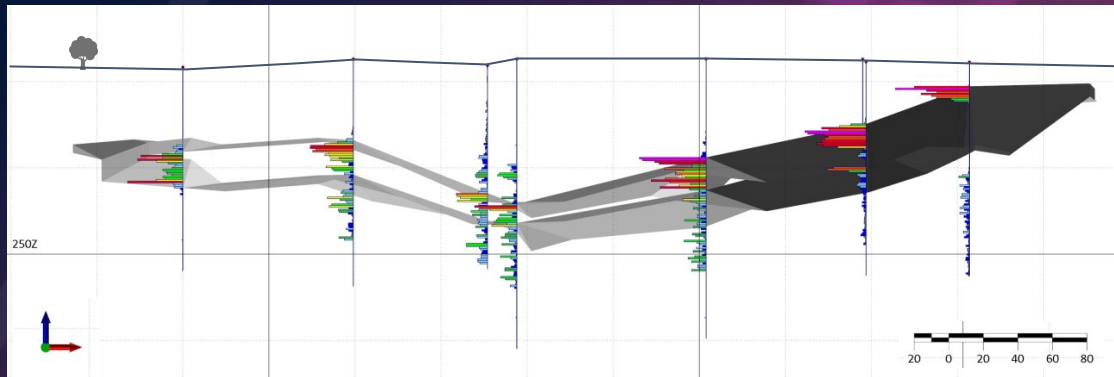
# Hendeka - Manganese

Significant growth potential, opportunity to produce a value-added product

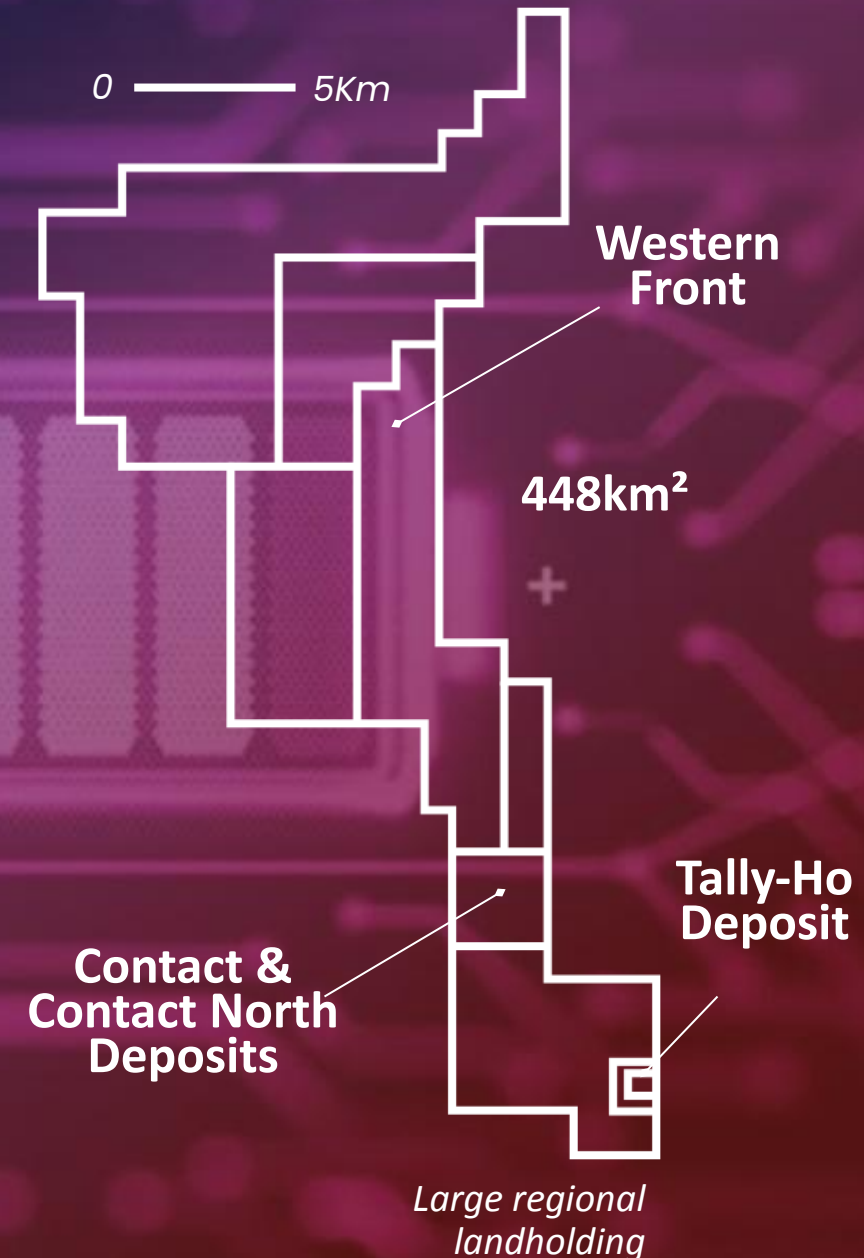
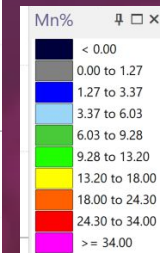
- Increase Resource confidence
- Vertical integration - produce High Purity Manganese Sulphate Monohydrate (HPMSM)
- Regional exploration upside



MnSO<sub>4</sub> · H<sub>2</sub>O



Contact North Deposit – Cross Section [View N 7537450 +/-20m]





# Hendeka - Manganese

## High priority regional targets & on-going metallurgy

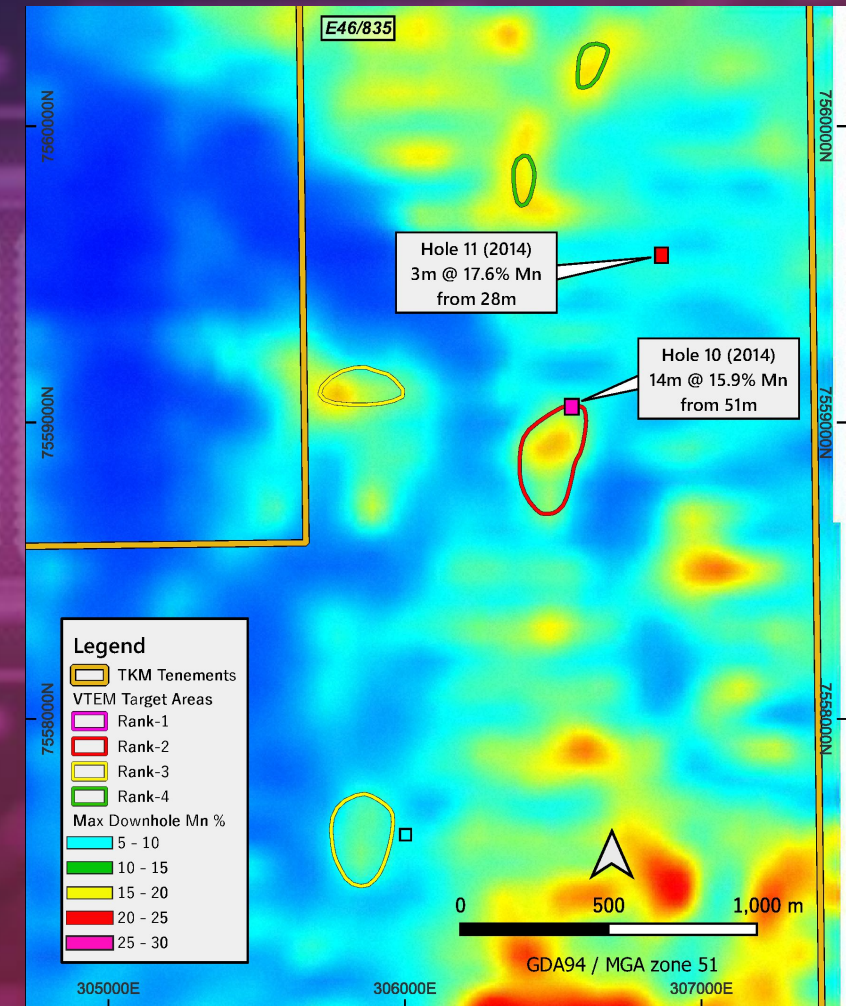
- Last round of historical exploration drilling (2014) intersected 14m @ 15.9% Mn from 51m in Hole 10
- Recent VTEM survey has produced multiple high priority targets, including one immediately adjacent to Hole 10
- 400kg bulk composite undergoing metallurgical test work



Example of drill core used in metallurgical composite



Scrubbing product



Hendeka regional targets over VTEM anomaly imagery

# Game Plan



2022

Completed

2023

Value Creation Pathway

## Tambourah Lithium

- ✓ High grade lithium identified in outcrop
- ✓ Drill targets identified
- ✓ Heritage agreement signed & POW approved

## Hendeka Manganese

- ✓ Hendeka Project Acquisition
- ✓ Diamond drilling completed to generate material for metallurgical test work
- ✓ VTEM survey to aid in generation of regional exploration targets

## Tambourah Lithium

- ✓ Heritage survey Q1
- Maiden drill program 3000m RC Q2 (on track to commence June)
- Soil sampling on regional lithium pegmatite targets Q2
- Further drill testing of maiden drill areas and/or drill testing of new target areas

## Hendeka Manganese+

- Concentrate metallurgy test work (in progress)
- High purity sulphate metallurgy test work Q2
- Resource drilling & regional target testing H2 CY23
- Resource update & desktop economic studies



# Invest with us

## ASXTKM



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