



# Trident Lithium Project NSW

**ASX: SLB**

**INVESTOR  
PRESENTATION**

September 2023

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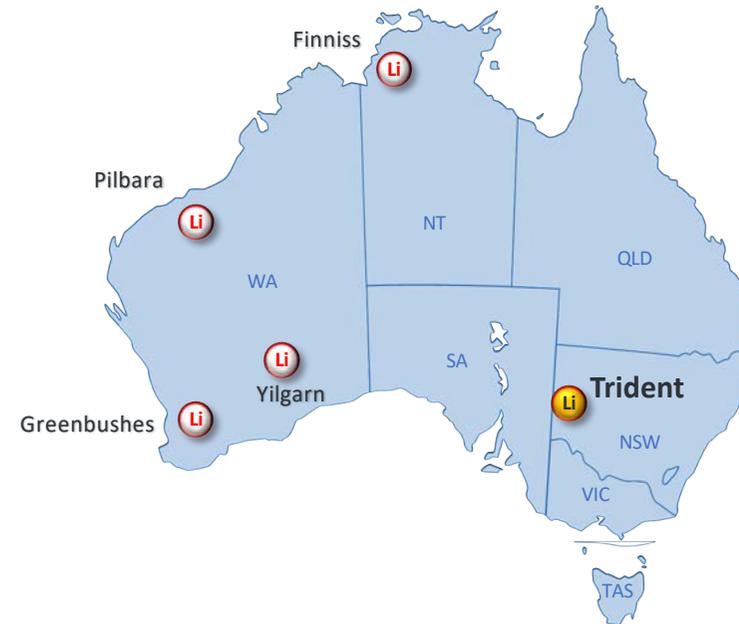
The information in this Presentation that relates to Exploration Results is based on information compiled by Colin Skidmore. Colin Skidmore has sufficient experience, which is relevant to the styles of mineralization and types of deposit under consideration, and to the activities, which he is undertaking. Colin Skidmore is a Member of the Australian Institute for Geoscientists and is a "Competent Person" as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Colin Skidmore consents to the inclusion of information in this presentation that relates to Exploration Results in the form and context in which it appears.

## JORC – Exploration Targets

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## WHY INVEST IN STELAR

- New large-scale Trident Lithium Project near world-class Broken Hill Mine and infrastructure in NSW
- Stelar leveraging hard-rock lithium expertise and success to expand into exciting new NSW lithium pegmatite field
- Fully funded for its work programme offering significant leverage to exploration success
- SLB's Market Cap of ~\$17M offers huge potential upside (refer following slide)
- Investment opportunity to get in on the ground floor of the next potential lithium discovery



*“Stelar Metals CEO, Colin Skidmore and myself worked successfully together at Core Lithium to identify and establish the Finnis Lithium Project, which has recently become the first operating lithium mine in the NT. We are excited about this new project opportunity as we aim to repeat similar success for Stelar shareholders and stakeholders in NSW”*

Stephen Biggins, Chairman  
ASX Announcement (16 Feb 2023)

# Trident Lithium Project

## New South Wales



“Lithium minerals were discovered at the Trident Project in 1919 and it became one of the first significant lithium mines in Australia along with Finniss and Wodgina between 1940’s and 1960’s. Since then, the 1960’s Trident activities were essentially forgotten which now provides a great opportunity for Stelar Metals”

Colin Skidmore, CEO

# CORPORATE SNAPSHOT

## BOARD & MANAGEMENT



**Stephen Biggins**

Non-Executive Chairman

- BSc Hons (Geology), MBA.
- 25 years' local and international exploration and discovery experience as a geologist and executive
- **Founder and ex Managing Director of Core Lithium (ASX: CXO), Chairman of Winsome Resources (ASX: WR1)**



**Colin Skidmore**

Chief Executive Officer

- BSc Hons, MAppSc.
- 25 years' experience as an exploration geologist and project manager
- **Supported identification and acquisition of the Finnis Lithium project with Stephen at CXO**



**Geoffrey Webster**

Independent Non-Executive Director



**Will Dix**

Independent Non-Executive Director



**Nick Harding**

Company Secretary

## CAPITAL STRUCTURE

Share Price – 31 August 2023

A\$0.32 per share

Shares on Issue – 31 August 2023

51.6M

Escrowed Shares

11.2M (3 Months)

Ticker

ASX: SLB

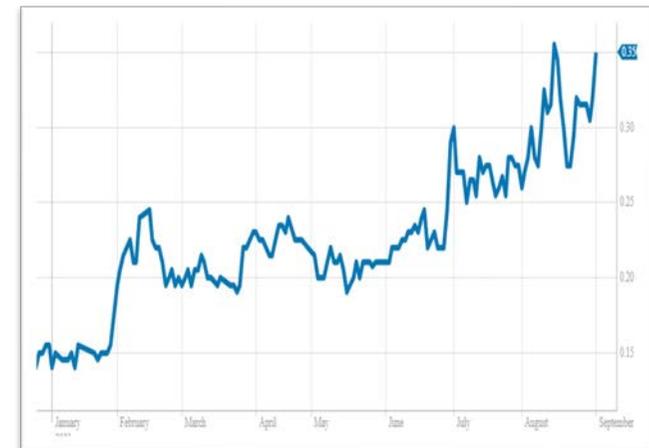
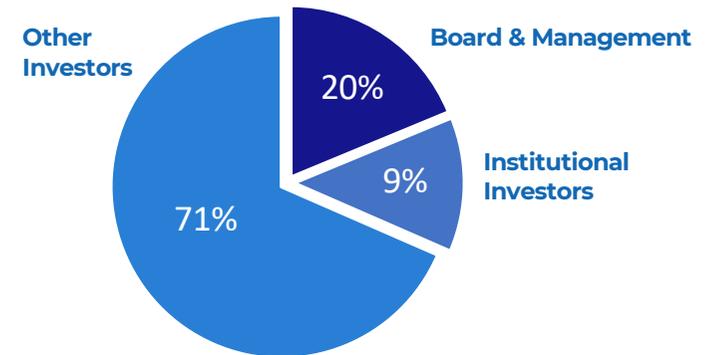
Undiluted Market Cap – 31 August 2023

~\$16.5M

Cash – 31 August 2023

\$3.1M

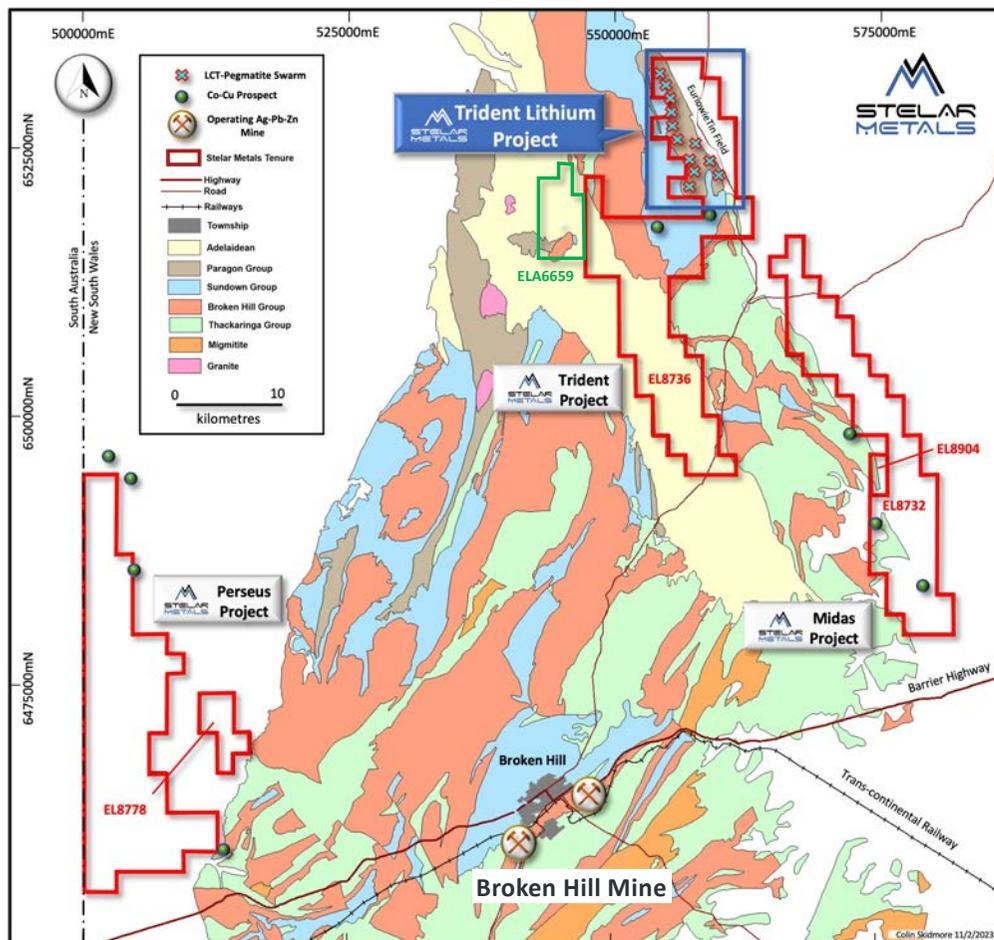
## SHAREHOLDING STRUCTURE



# TRIDENT LITHIUM PROJECT

- **Historic lithium and tin mining area with known LCT-Type Pegmatites that are highly anomalous in Li-Ce-Ta-Sn-Rb**
- SLB acquired 90% of 4 granted exploration licenses (719km<sup>2</sup>) near Broken Hill NSW for \$1m
- Trident Lithium Project extends over 20km of Strike, with individual pegmatites over 1km in length and up to >100m wide
- Spodumene and lithium potential at depth has NEVER been tested by drilling
- Located near world-class mine infrastructure at Broken Hill NSW on Crown Pastoral Land

**Stelar has a strong position in a major NSW Pegmatite Province**



Location of Stelar's tenements and the Trident Lithium Project near Broken Hill in NSW on simplified geology

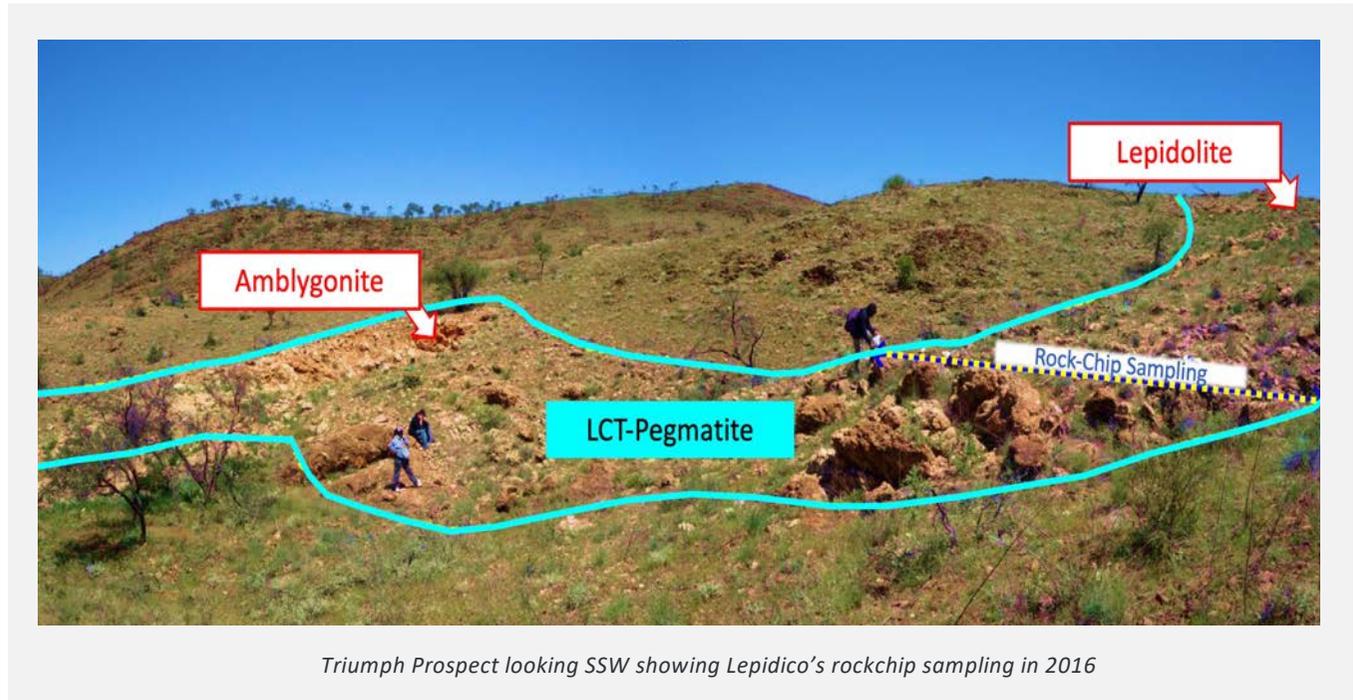
## TRIDENT LITHIUM PROJECT: HISTORIC WORK

**1884:** Euriowie Lithium-Tin Field was discovered.

**1956:** Small-scale mining of hard-rock lithium (Amblygonite) at Trident.

**2007-2015:** Carpenteria's focus was tin but identified multiple pegmatites with anomalous Li-Cs-Ta-Sn-Rb.

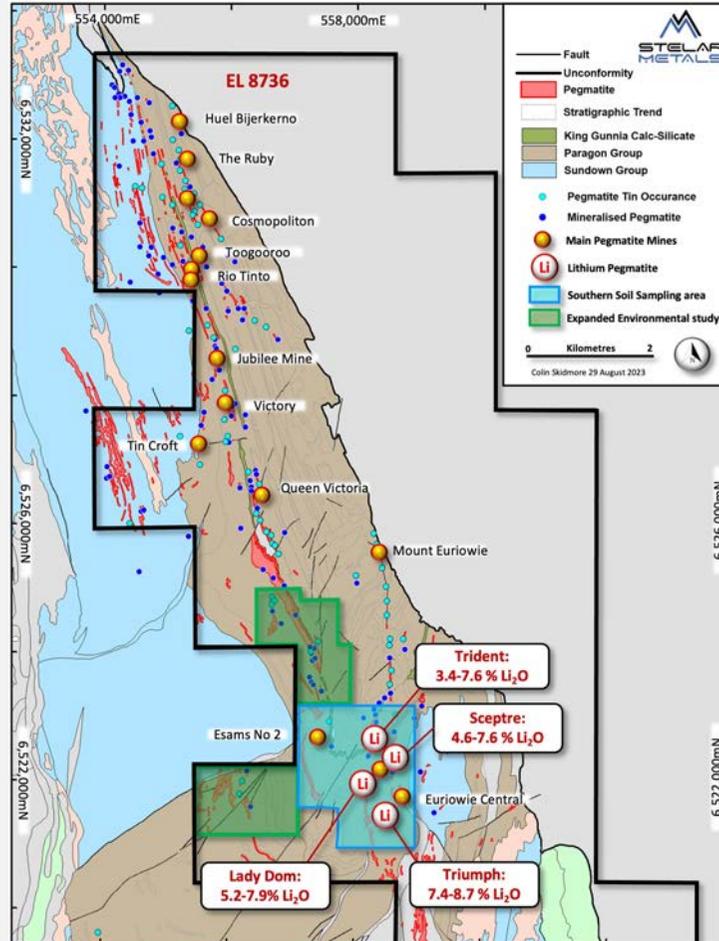
**2016-2017:** Lepidico were first to focus on lithium but only did orientation work that identified lithium mineralisation at surface and broad Li-Cs-Ta-Sn soil anomalies



# TRIDENT PROJECT: LITHIUM MINERALISATION

## Rock-chip Sampling

Triumph	7.4 - 8.7% Li <sub>2</sub> O
Lady Don	5.2 - 7.9% Li <sub>2</sub> O
Trident	3.4 - 7.6% Li <sub>2</sub> O
Sceptre	4.6 - 7.6% Li <sub>2</sub> O



Trident Lithium Project showing distribution of pegmatites and known mineral occurrences

- More than 250 known mineral occurrences over 20 kilometres of pegmatite strike.
- Stelar’s rock-chip sampling confirmed high-grade lithium assays from multiple pegmatites
- Most hard-rock lithium mines globally also have amblygonite and lepidolite on surface with spodumene zoning discovered at depth once drilled

## POSITIVE COMPARISON TO GREENBUSHES AND FINNISS

Characteristics	Greenbushes-WA (Talison JV)	Finniss-NT (Core Lithium)	Trident-NSW (Stelar Metals)
Tin production started in the 1800's	✓	✓	✓
Pegmatites are deformed with low-moderate grade metamorphism	✓	✓	✓
Economic-scale, highly-fractionated, zoned, LCT-type Pegmatites	✓	✓	✓
Amblygonite and lepidolite lithium minerals	✓	✓	✓
Spodumene discovered by drilling below oxidised zone	✓	✓	Inaugural Drilling in 2023-Q4
Economic lithium discovered after ~100 years of mining	✓	✓	
Lithium Production	Since 1985	2022	

# EXPLORATION TIMETABLE

## 2023 – Q3

### Mapping & Sampling

- ✓ Systematic mapping and surface sampling over known high-lithium LCT Pegmatites



### Geophysics

- ✓ Acquisition and processing of geophysics to aid mapping of pegmatite at depth



### Drilling Approval

- ✓ Application for drilling approvals with NSW regulators



## 2023 – Q4

### Drilling Program

- ✓ Initial shallow drilling program to map orientation and morphology of the pegmatites at depth and to assess spodumene potential

*On schedule*

### Review

- ✓ Extensive review of all technical data to fully inform next program of work around key target areas within the tenement

*In progress*

## Ongoing work

### Follow up programs

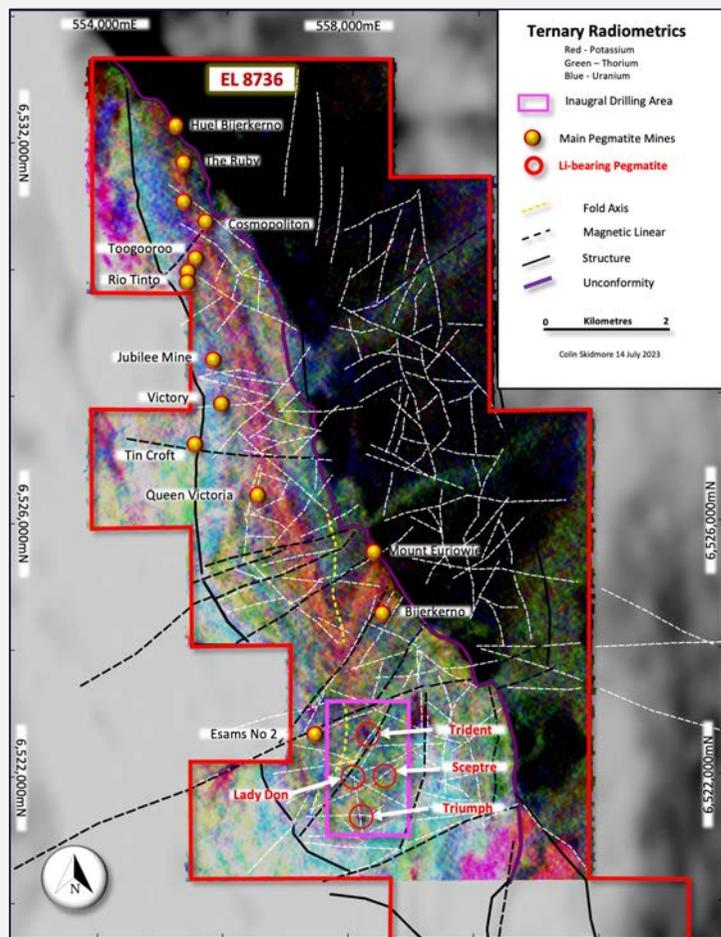
- ✓ Follow up deeper RC and diamond drilling programs to quantify lithium grade distribution, mineralogy and metallurgy
- ✓ Systematic exploration of other prospective pegmatites along 20km of strike in the Euriowie Pegmatite Field

*In progress*

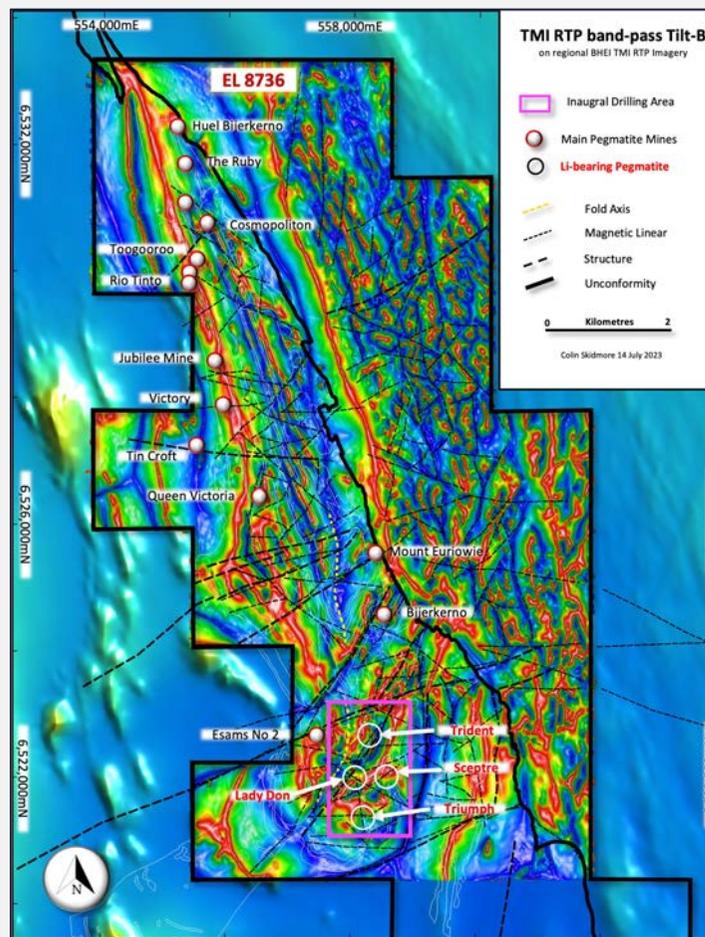
- ✓ Expand Lithium Assets

*In progress*

# NEW HIGH-RESOLUTION GEOPHYSICS



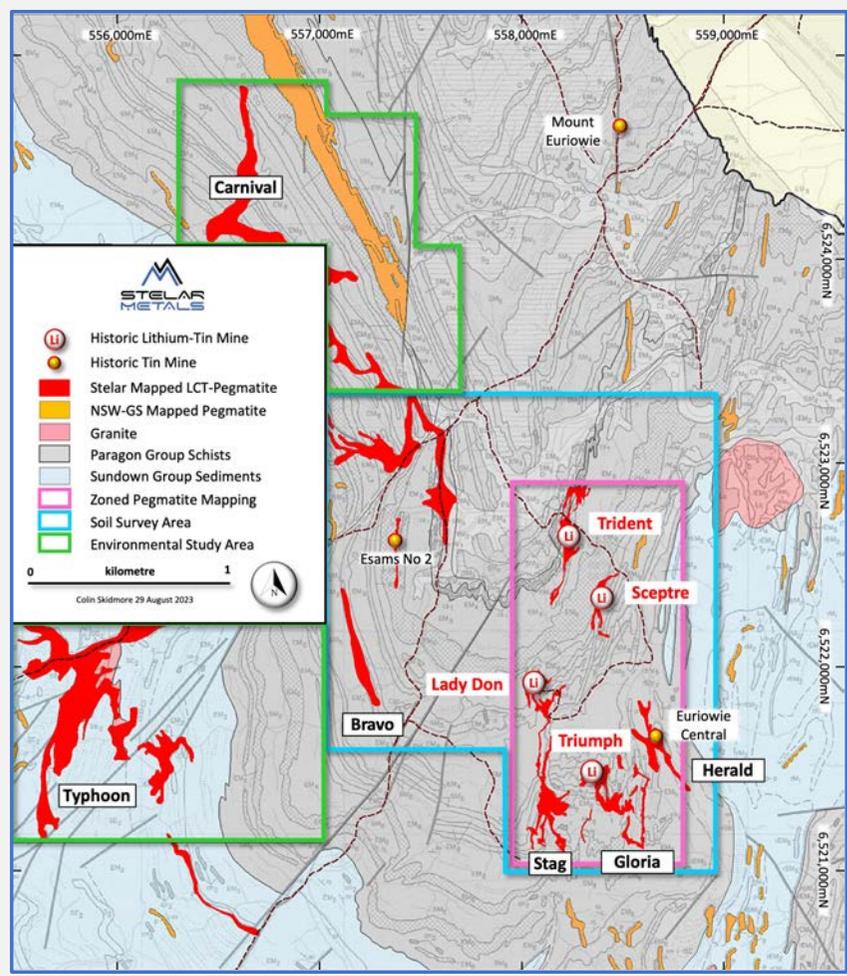
256-channel Radiometrics



High-resolution Magnetics

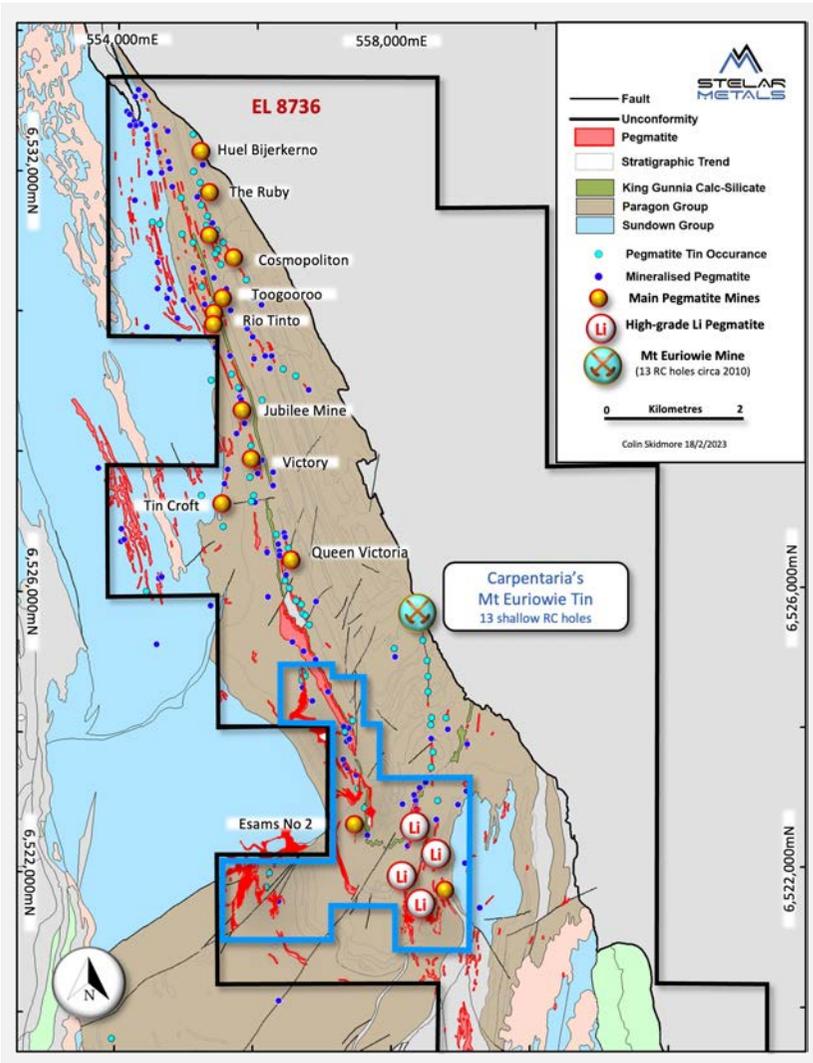
- Collaboration with SensOre to test new exploration techniques under \$130M NSW Incentive funding
- 2,160 line km flown on 40m spaced lines at 40m terrain clearance
- SensOre use AI Machine Learning to identify Cesium isotopes and remotely map LCT pegmatites
- Advanced processing by Dave McInnes to generate high-level derivatives to interpret structural framework for mapping pegmatites

# ECONOMIC-SCALE ZONED LITHIUM PEGMATITES

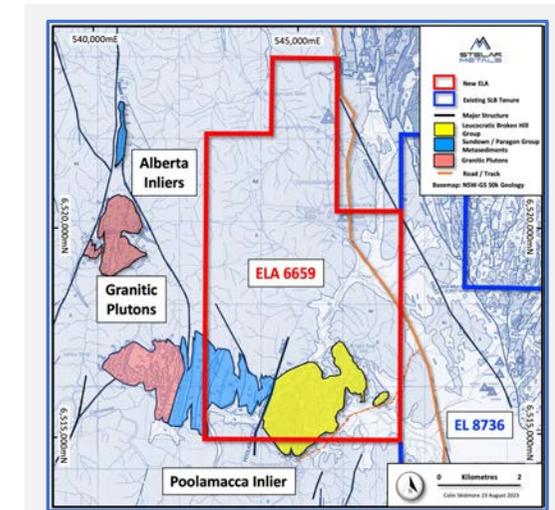


- Economic scale pegmatites mapped with high surface lithium assays
- Classic zoned LCT-Pegmatites with lithium mineralised-feldspar zones adjacent to barren quartz cores
- Pegmatites hosted by sub-vertical schists that are thickened by folding, pinching and swelling
- Stelar's mapping has found large-scale zoned pegmatites south of *Triumph* (*Stag*, *Gloria* and *Herald*)

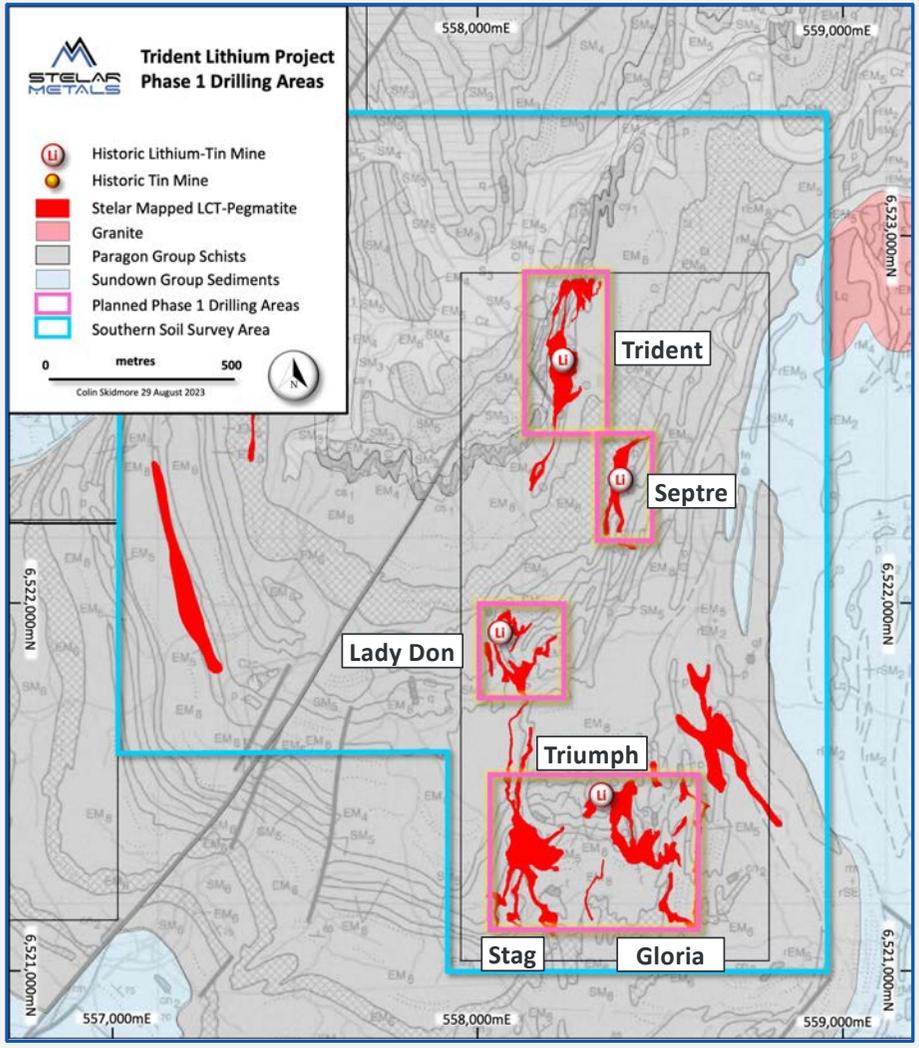
# LITHIUM EXPLORATION POTENTIAL



- Recent reconnaissance mapping has identified multiple large new zoned LCT-pegmatites such as *Typhoon* and *Carnival* that extend for up to 3km and 100's metres in width
- Only <20% of the Euriowie Tin-Lithium Pegmatite Field has been accessed by Stelar to date
- Stelar has already applied for additional tenure to the west of Trident over similar geology in the prospective Poolamacca Inlier



# TRIDENT LITHIUM DRILLING PROGRAM - PHASE 1 – SOUTHERN AREA



- First drill application lodged
- 19 RC holes of ~150m depth (~3,000m)
- Designed to map orientation and morphology of pegmatites and test for spodumene at depth
- Inaugural drilling program to start in 2023
- **Stelar targeting first large scale hard-rock lithium project discovery in NSW**



# READY TO DISCOVER HIGHLY PRIZED MINERALS



Stellar Metals is leveraging its expertise and success in hard-rock lithium to repeat success and value growth for shareholders



Well funded exploration program planned for 2023 with \$3.1M cash in bank



Stellar Metals leveraging hard-rock lithium exploration and development expertise



Highly regarded mining jurisdiction and exposure



Favourable market conditions for battery minerals



Experienced exploration and discovery team



## CONTACT

**Colin Skidmore, Chief Executive Officer**

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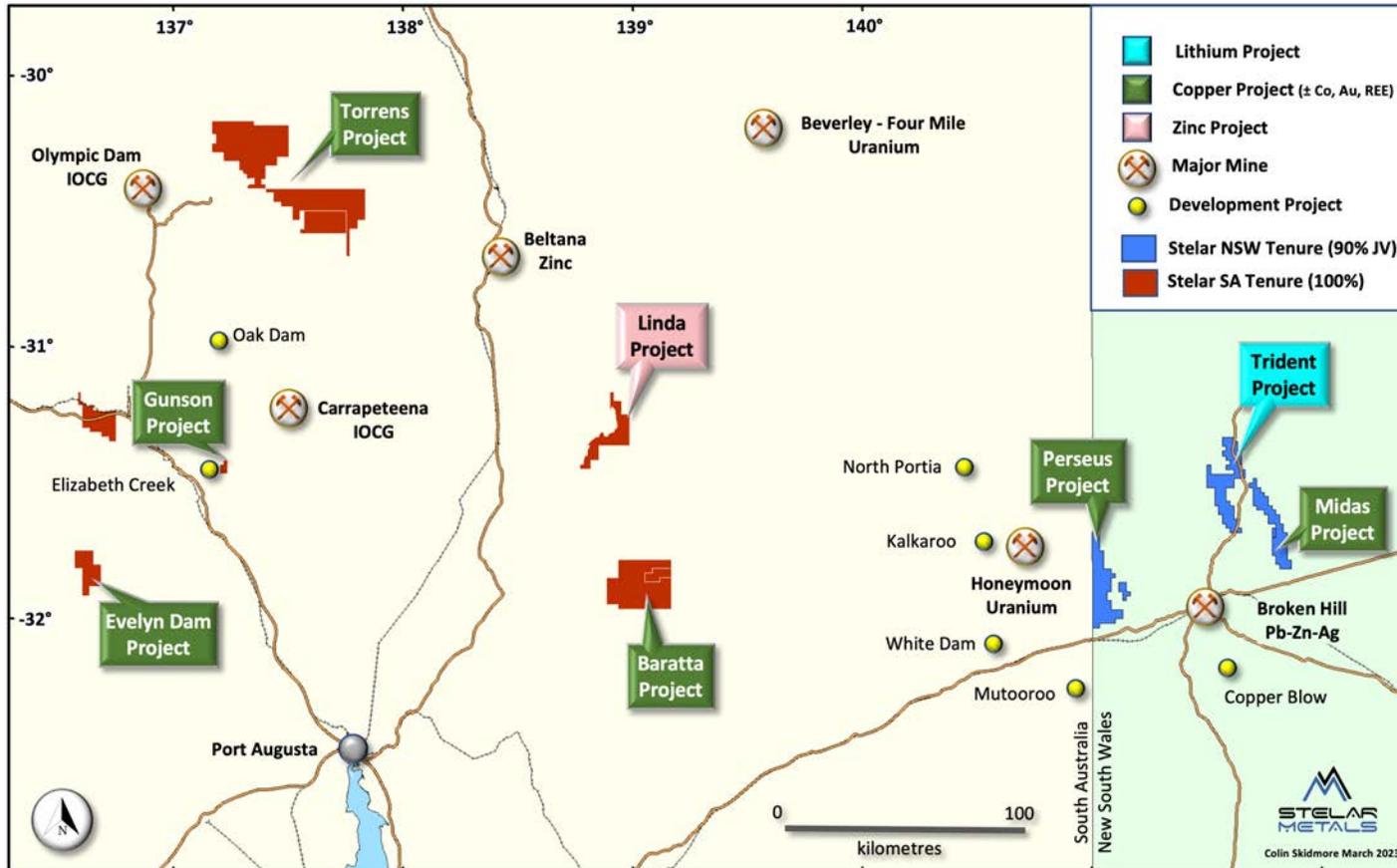
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# APPENDIX : PORTFOLIO of Li-Cu-Co-Au-REE PROJECTS



**2,755km<sup>2</sup>** of granted exploration licences in SA and NSW

Target Styles:

### Copper – Cobalt

Midas, Perseus, Trident

### Iron Oxide Copper Gold

Gunson, Perseus, Torrens, Evelyn Dam

### Sedimentary Copper

Gunson, Baratta

### Carbonate-hosted Zinc

Linda

### Rare Earth Elements

Baratta, Trident

**Portfolio of Critical Metal Projects in world-class mining provinces**