



*The Mineral Riches of the East Coast Lachlan Fold Belt*

Presentation to the 2023 Victoria Gold Mining & Exploration Forum

Wednesday 22<sup>nd</sup> February 2023 12:15 AEDT

Mr. James Chirnside – Chairman & Managing Director

ASX:DTM

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*Investors are cautioned that forward looking information is no guarantee of future performance and accordingly, investors are cautioned not to place undue reliance on these forward-looking statements.*

# CORPORATE PROFILE

## Corporate Metrics

- ASX Code - DTM
- Shares on Issue ~ 155.26m
- Options & Performance Rights on Issue ~ 28.36m
- Market Capitalisation @ \$0.05 = ~A\$8.0 m

## Key Personnel

- Mr. James Chirnside – Chairman & Managing Director
- Mr. Carl Swensson – Non-Executive Director
- Mr. Richard Udoverya – Non-Executive Director
- Ms. Julie Edwards – Company Secretary

## Management

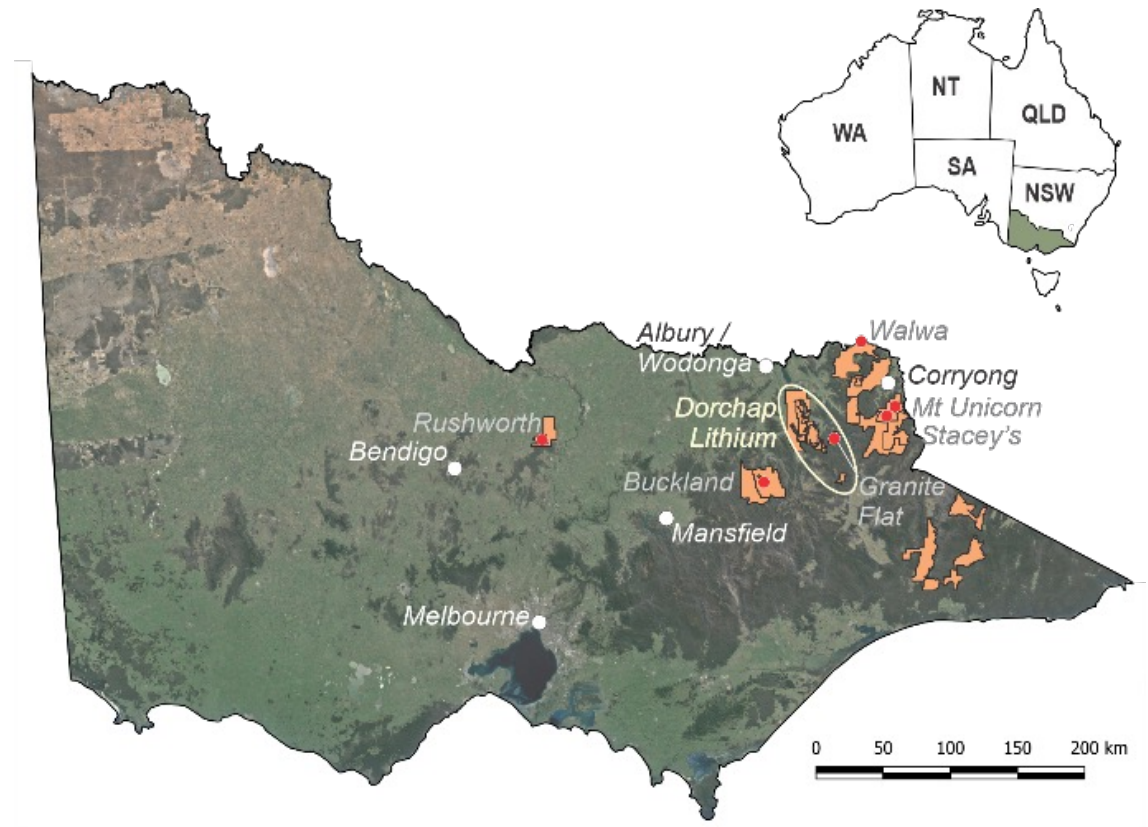
- Dr. Ben Hines – Head of Exploration
- Mr. Dean Turnbull – Founder and Senior Geologist
- Mr. Michael Roberts – Finance & Administration
- Mr. Tommy Ashley – Head of Operations

## Service Providers

- Lowell Accounting Services - Accounting
- Morrows - Audit
- Resources Law International - Legal Advisors
- Biosis - Environment & Cultural Heritage
- ALS Limited, Gekko Systems - Lab Services
- AMETS – Land Management
- Mr. David Foster – Metallurgical consulting
- Mr. Simon Law – Mining Engineer and Economist

# EXPLORATION LICENCES, FOOTPRINT & PROJECTS

- ~6,500 km<sup>2</sup> tenement area
- Geographic focus on NE Victoria, Eastern Victoria and NSW (Lachlan Fold Belt)
- Extensive team experience in Lachlan Fold Belt Geology
- Central Lachlan Fold Belt
  - *Silurian to Devonian granites*
  - *Three orogenic events*
- Diverse geological setting
  - *Orogenic Au*
  - *Porphyry Cu-Au, Mo-Cu-Ag*
  - *Li-Cs-Ta Pegmatites*
- Exposures to Precious, Critical, and Base metals
- Footprint includes:
  - 9 Historic Goldfields
  - >1,500 LCT Pegmatite dykes
  - 8 Au-Cu, Mo-Cu Porphyry targets



# TENEMENTS STATUS

Tenement Number	Name	Tenement Type	Area (km <sup>2</sup> ) Unless specified	Interest	Location	
MIN006619	Mt View <sup>2</sup>	Mining License	224 Ha	100%	NE Victoria	
EL5315	Mitta Mitta <sup>4</sup>	Exploration Licence	148	100%	NE Victoria	
EL006016	Rushworth <sup>4</sup>	Exploration Licence	32	100%	Central Victoria	
EL006277	Empress	Exploration Licence	87	100%	NE Victoria	
EL006300	Eskdale <sup>3</sup>	Exploration Licence	96	100%	NE Victoria	
EL006486	Mt Creek	Exploration Licence	116	100%	NE Victoria	
EL006764	Cravensville	Exploration Licence	170	100%	NE Victoria	
EL006861	Buckland	Exploration Licence	414	100%	NE Victoria	
EL006994	Wangara	Exploration Licence	190	100%	Central Victoria	
EL007007	Union	Exploration Licence	3	100%	Central Victoria	
EL007008	Buckland West	Exploration Licence	344	100%	NE Victoria	
EL006865	Dart	EL (Application)	567	100%	NE Victoria	
EL006866	Cudgewa	EL (Application)	508	100%	NE Victoria	
EL007099	Sandy Creek	Exploration Licence	437	100%	NE Victoria	
EL007170	Berringama	EL (Application)	27	100%	NE Victoria	
EL007430	Buchan	EL (Application)	546	100%	Gippsland	
EL007435	Goonerah	EL (Application)	587	100%	Gippsland	
EL007425	Deddick	EL (Application)	341	100%	Gippsland	
EL007428	Boebuck	EL (Application)	355	100%	NE Victoria	
EL007426	Walwa	EL (Application)	499	100%	NE Victoria	
EL007754	Tallandoon	EL (Application)	88	100%	NE Victoria	
RL006615	Fairley's <sup>2</sup>	Retention License	340 Ha	100%	NE Victoria	
RL006616	Unicorn <sup>1&amp;2</sup>	Retention License	23,243 Ha	100%	NE Victoria	
EL9476	Woomargama	Exploration Licence	85	100%	New South Wales	
ELA6536	Yambacoon	EL (Application)	549	100%	New South Wales	
ELA6548	Barellan	EL (Application)	159	100%	New South Wales	

All tenements remain in good standing as of 30<sup>th</sup> September 2022.

NOTE 1: Unicorn Project area subject to a 2% NSR Royalty Agreement with Osisko Gold Royalties Ltd dated 29 April 2013.

NOTE 2: Areas subject to a 1.5% Founders NSR Royalty Agreement.

NOTE 3: Areas are subject to a 1.0% NSR Royalty Agreement with Minvest Corporation Pty Ltd (See DTM ASX Release 1 June 2016).

NOTE 4: Areas are subject to a 0.75% Net Smelter Royalty on gold production, payable to Bruce William McLennan.



# SUMMARY OF WORKS COMPLETED – 2022

## Dorchap Lithium Project Pegmatites

- XRD identified dominant primary spodumene mineralisation

## Granite Flat Cu-Au Intrusion related project

- Drill testing geophysical targets (1003m)
- Completion of soil survey (~5,030 samples)
- Additional drill testing (1221m)

## Buckland Orogenic Gold

- Orientation soil survey across Shippens Gully

## Rushworth Orogenic Gold Project

- Reconnaissance sampling & structural mapping
- pXRF analysis of drill pulps – geochemical characterisation
- Regional soil geochemical sampling & testing (~3,600 samples)



# SUMMARY OF WORKS COMPLETED – 2022 cont....

## Land Management / Tenements

- Renewals
- New applications

## Corporate Activities

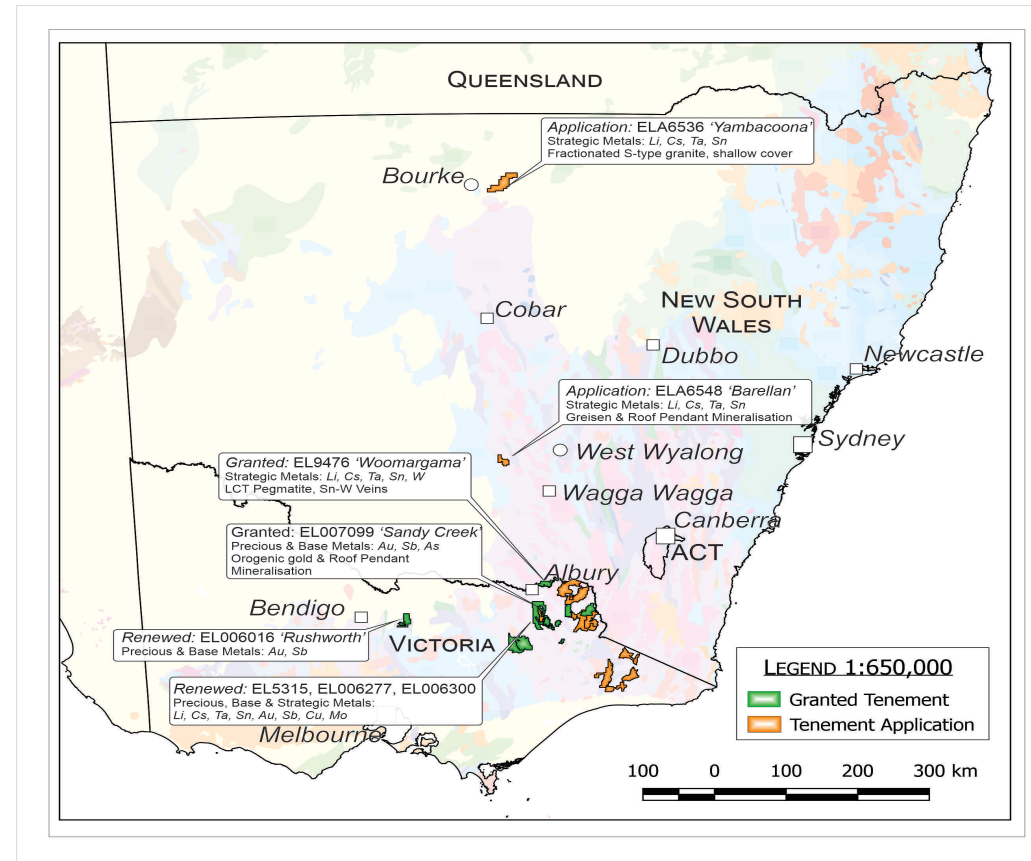
- SQM Farm-in Joint Venture
- Other corporate engagements

## Work Health & Safety

- WH&S officer appointment
- Review of procedures and reporting

## Environment & Community

- Remediation of historic workings
- Drill hole remediation program following heavy rains & scouring
- Conversion of exploration camp to solar power
- Steel core trays replaced with recycled plastic core trays





# DORCHAP LITHIUM PROJECT - Summary

## Location

- Situated in the Dorchap Range, between Eskdale & Glen Wills
- Historic tin mining district

## Style

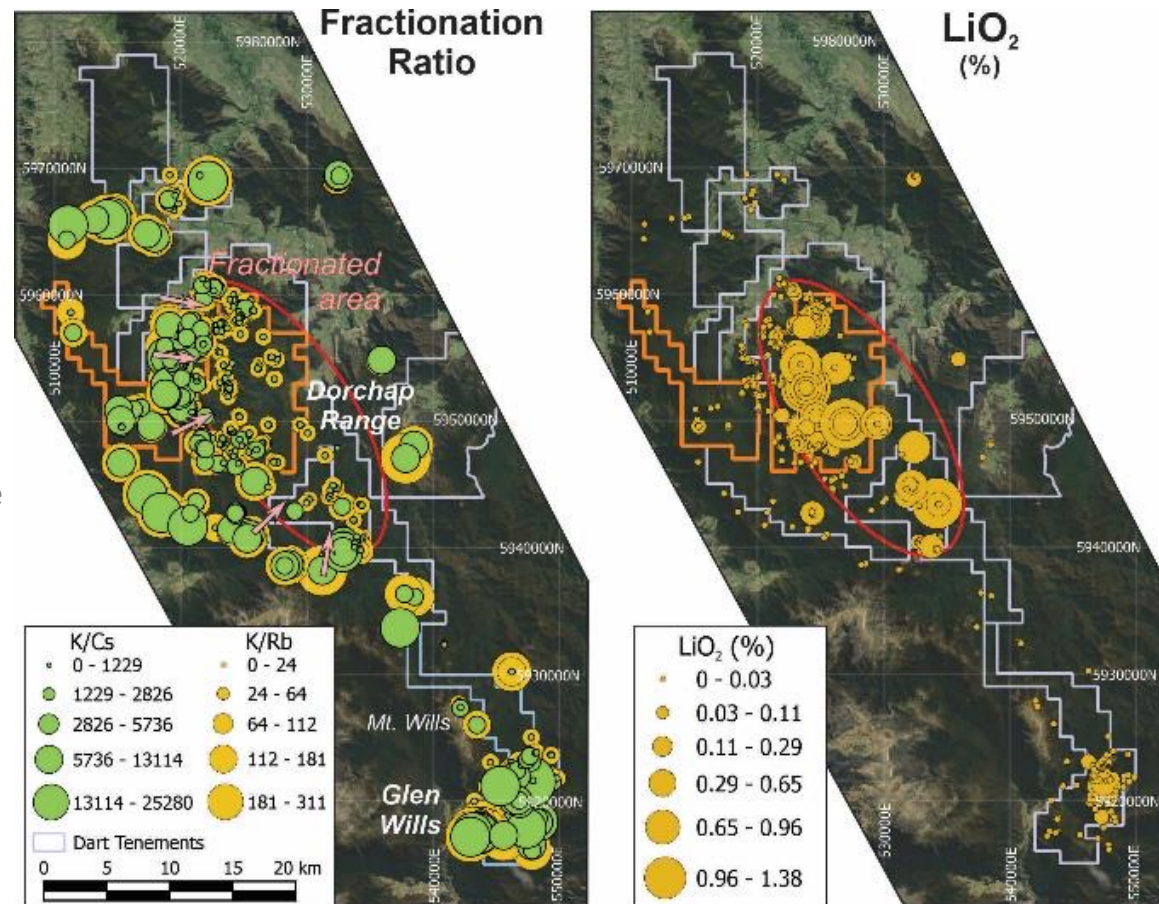
- Pegmatite hosted Lithium-Caesium-Tantalum (LCT) mineralisation
- Spodumene & Petalite mineralisation, with localised lepidolite & amblygonite
- Exposure is often poor or obscured by heavy vegetation

## Scale

- 20x12km zone of highly-fractionated pegmatites identified from surface sampling
- >1,500 LCT pegmatite dykes across the dyke swarm
- Multiple Li mineralised pegmatite dykes identified, with Li hosted primarily by spodumene

## Results Highlights

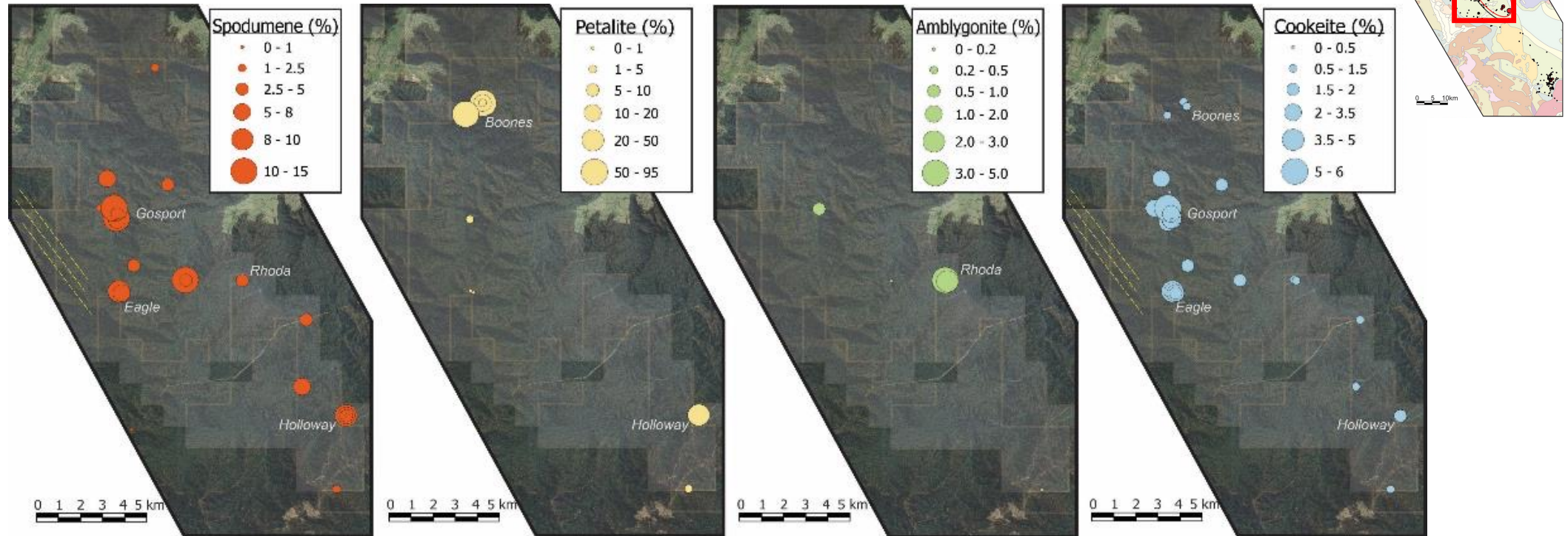
- 10m @ 1.38%  $\text{Li}_2\text{O}$  (rockchip sampling)
- 10m @ 1.22%  $\text{Li}_2\text{O}$  (rockchip sampling)
- 10m @ 0.95%  $\text{Li}_2\text{O}$  & 20m @ 0.33%  $\text{Li}_2\text{O}$  (Eagle Dyke, channel sampling)
- 16m @ 0.32%  $\text{Li}_2\text{O}$ , (Bluejacket Dyke, rock-chip sampling)
- 20m @ 0.332%  $\text{Li}_2\text{O}$  from 2m, *including* 2m @ 1.16%  $\text{Li}_2\text{O}$  (drilling)



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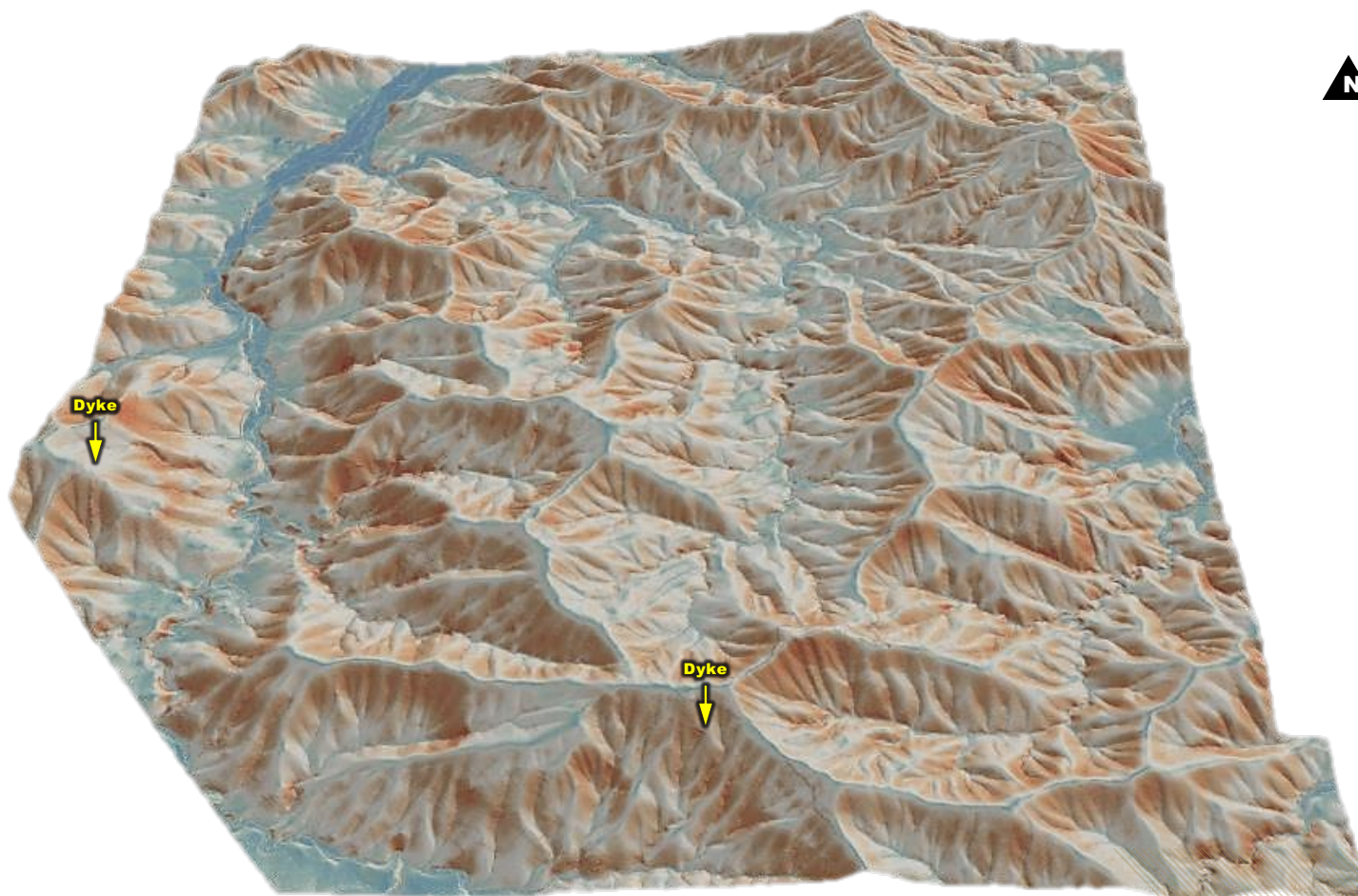


# DORCHAP LITHIUM PROJECT - Mineralogy



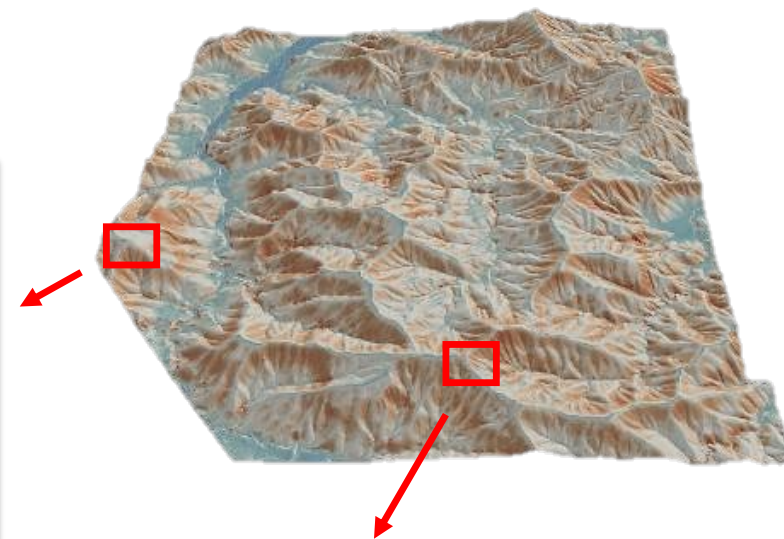
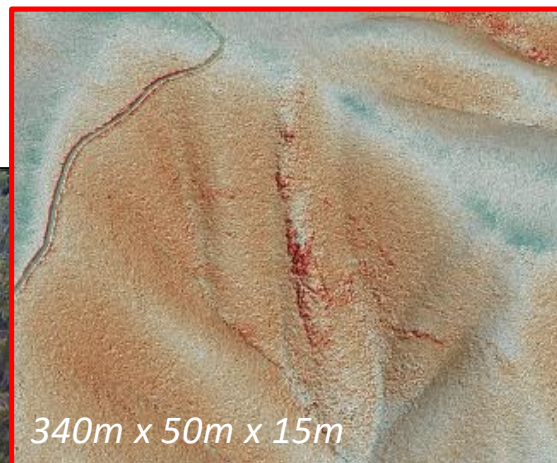
XRD analysis shows project is spodumene dominant

# DORCHAP LITHIUM - LiDAR





## DORCHAP LITHIUM – LiDAR cont.



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# GRANITE FLAT Cu-Au PROJECT- Summary

## Location

- Situated adjacent to the Omeo Highway, between Mitta Mitta & Glen Wills

## Scale

- 1.8x 2.4km soil Cu-Au footprint, additional anomalies open in all directions
- Significant remanent magnetism anomalies identified north of project footprint
- IP chargeability and resistivity anomalies identified across 1.5 x 2.0km footprint
- Significant intervals of Cu-Au mineralisation intersected up to 180m below surface

## Style

- Two mineralisation styles identified:
- Intrusion-related Cu-Au – long intervals of low-grade Cu-Au
- Hydrothermal overprint – Narrow silica-sulphide veins of high-grade Au-Cu-Ag ± Pb, Zn

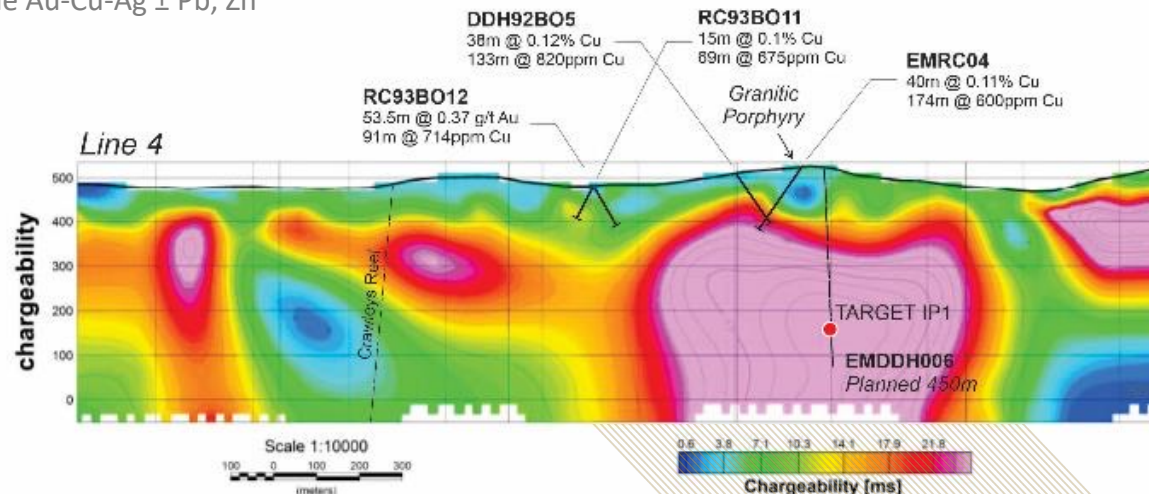
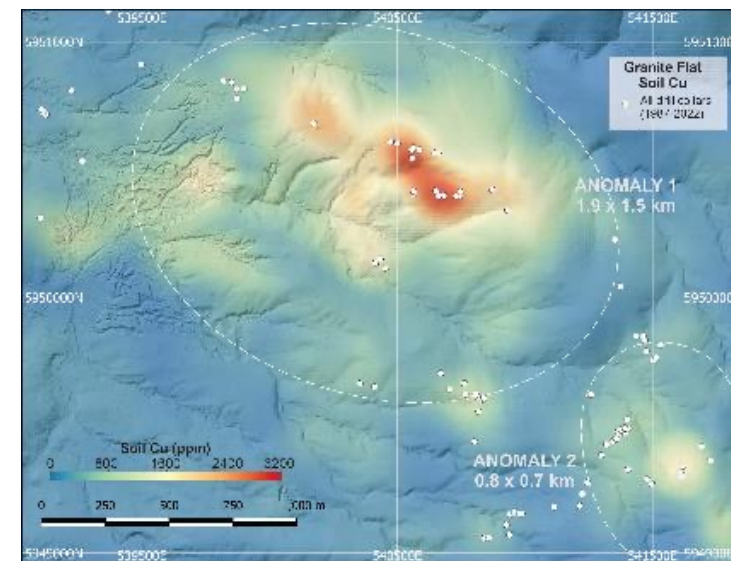
## Results Highlights

### Gold

- 19m @ 9.39 g/t Au, including 3m @ 41.1 g/t from 28m
- 4m @ 3.23 g/t Au, including 1m @ 7.84 g/t from 15m

### Copper

- 19m @ 0.61% Cu, including 3m @ 1.52%
- 28m @ 0.35% Cu, including 9m @ 0.73% from 7m
- 40m @ 0.11% Cu including 19m @ 0.18% Cu from 35m
- 138m @ 0.09% Cu from surface (entire hole)
- 111m @ 0.07% Cu from surface





# GRANITE FLAT Cu-Au PROJECT - Diamond Drilling

## Low-grade targets, long intercepts

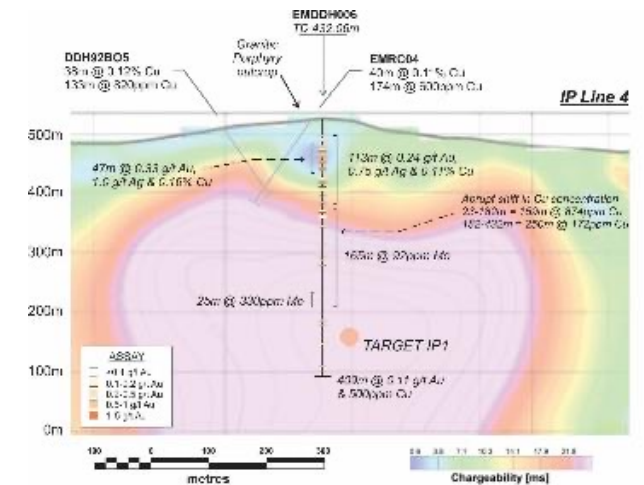
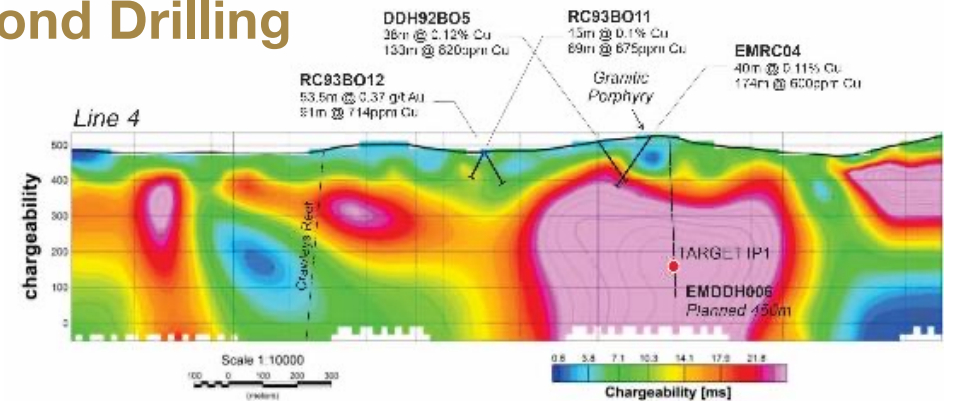
- Dominantly shallow drilling

## Dart completed:

- 2,224m Diamond drilling completed (12 holes; 2022)
- 1,280m across 4 holes targeting geophysical targets
- Deepest hole on the project - 429m (Feb 2022)
- 937m targeting shallow epithermal overprint (8 holes)

## Geophysical survey shows large anomalies at 200-400m below surface

- None of the geophysical anomalies identified have ever been drilled - until now
- First phase drilling of geophysical targets completed



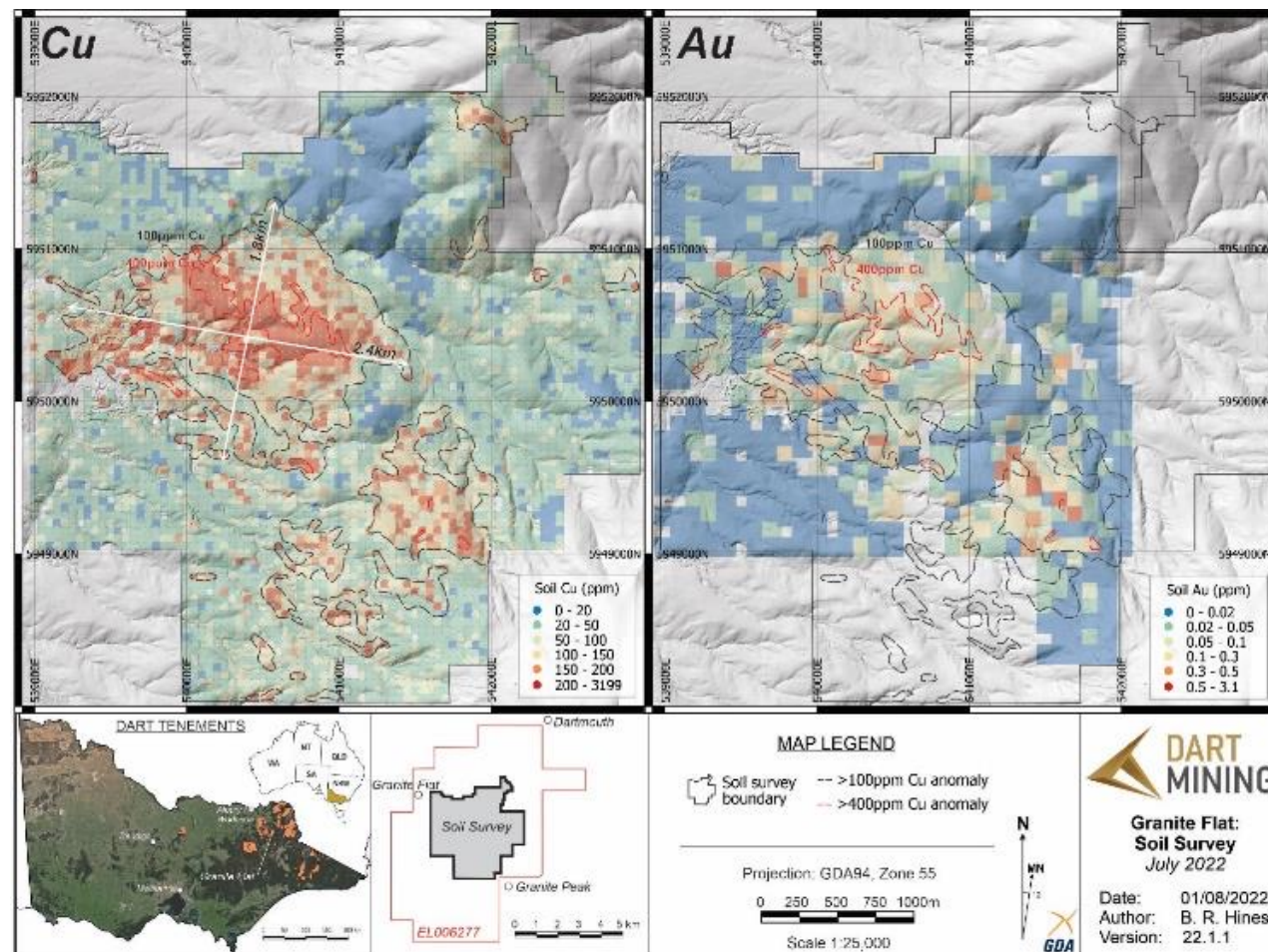
# GRANITE FLAT Cu-Au PROJECT – Soil Geochemistry Survey

## Regional soil grid completed

- 50x50m sample resolution
- 4x4km area sampled
- 5030 samples collected and analysed
- Subset (100x100m grid) analysed for soil gold
- Peak results 0.32% Cu & 3.1 g/t Au
- Largest anomaly spans 1.8x2.4km

## In addition

- Several additional anomalies identified, including As and Pb outside of primary Cu-Au anomalies





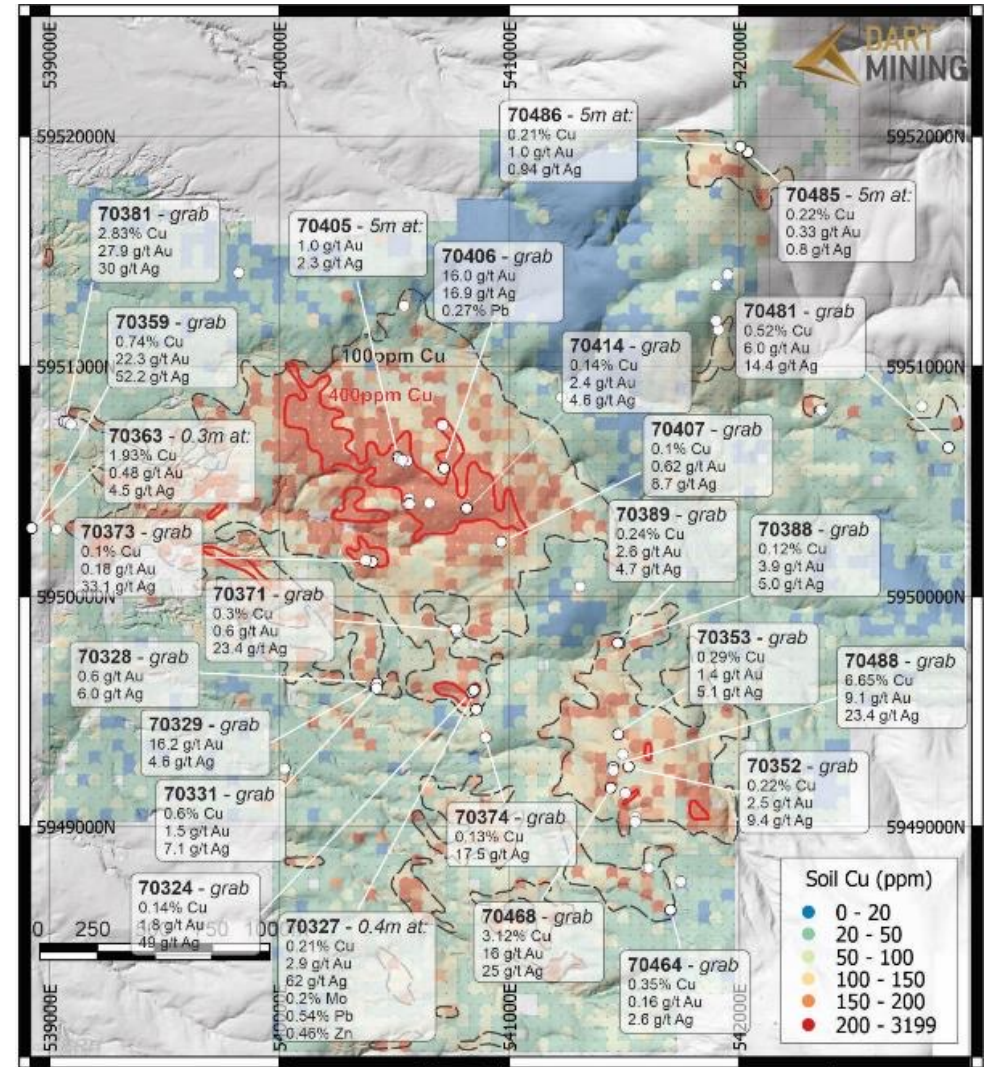
# GRANITE FLAT Cu-Au PROJECT – Rock chip sampling

## Surface rock chip sampling

- Surface sampling has followed up on historic workings identified in LiDAR
- Epithermal overprint - distinct geochemistry; narrow, high-grade mineralisation

## Several mineralisation trends identified

- Future exploration targets
- Peak results include: **27.9g/t Au, 6.65% Cu, 49 g/t Ag**



# Proposed Work Schedule 2023

## Flagship Projects

### Dorchap Lithium Li

- *Surface sampling program*
- *Drilling of roadside targets*
- *Drilling of off-road targets*

### Granite Flat Cu-Au

- *Drilling – bulk tonnage target*
- *Drilling – high-grade targets*
- *Geophysics interpretation & review*

## Other Projects

### Rushworth Au

- *LiDAR acquisition*
- *Bulk sample composition & analysis*
- *Completion of soil survey*
- *Identification of drill targets*

### Sandy Creek Au

- *Diamond drilling of selected deeper targets*

### Buckland Valley Au

- *Diamond drilling north of Fairley's ridge*

### Mt Unicorn Mo-Cu (203mt JORC resource)

- *Review and reassess project*
- *Test and assess metallurgy*
- *Drilling*



## Molybdenum Price \$US / Kg, Currently ~\$US 45 / pound



- Unprecedented rundown in munitions inventories leading to rapid increase in munitions production
- Increased application in fertilisers used in food production
- Increased application in construction steel post China earthquake in 2019

# SUMMARY

- Exceptional and commanding tenement position in a mineral rich, under-explored, region
- Polymetallic exposure with 14 of 32 “critical minerals” represented and anomalous across Dart’s footprint
- Renewable energy transition underpinning demand for much of the metals complex
- Many of these critical minerals are represented within Dart’s exploration portfolio
- Constructive long-term metal price fundamentals including low inventories, continuing Covid supply chain issues, and Ukraine war
- Geolocation of projects increasingly necessary to avoid unreliable or sanctioned supply dependencies
- DTM is cheap vs. peers and has higher levels of prospectivity
- Well funded with very supportive long-term shareholders

*Dart Mining is a responsible, low cost, self-reliant, mineral explorer, employing a systematic and focussed exploration approach*

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