



# Corporate Presentation

July 2022

**Creating Value Through Discoveries**

**ASX: GSN**

# Key Assets and Fundamentals



## Large Scale Gold-Nickel-Copper Projects in renowned discovery districts

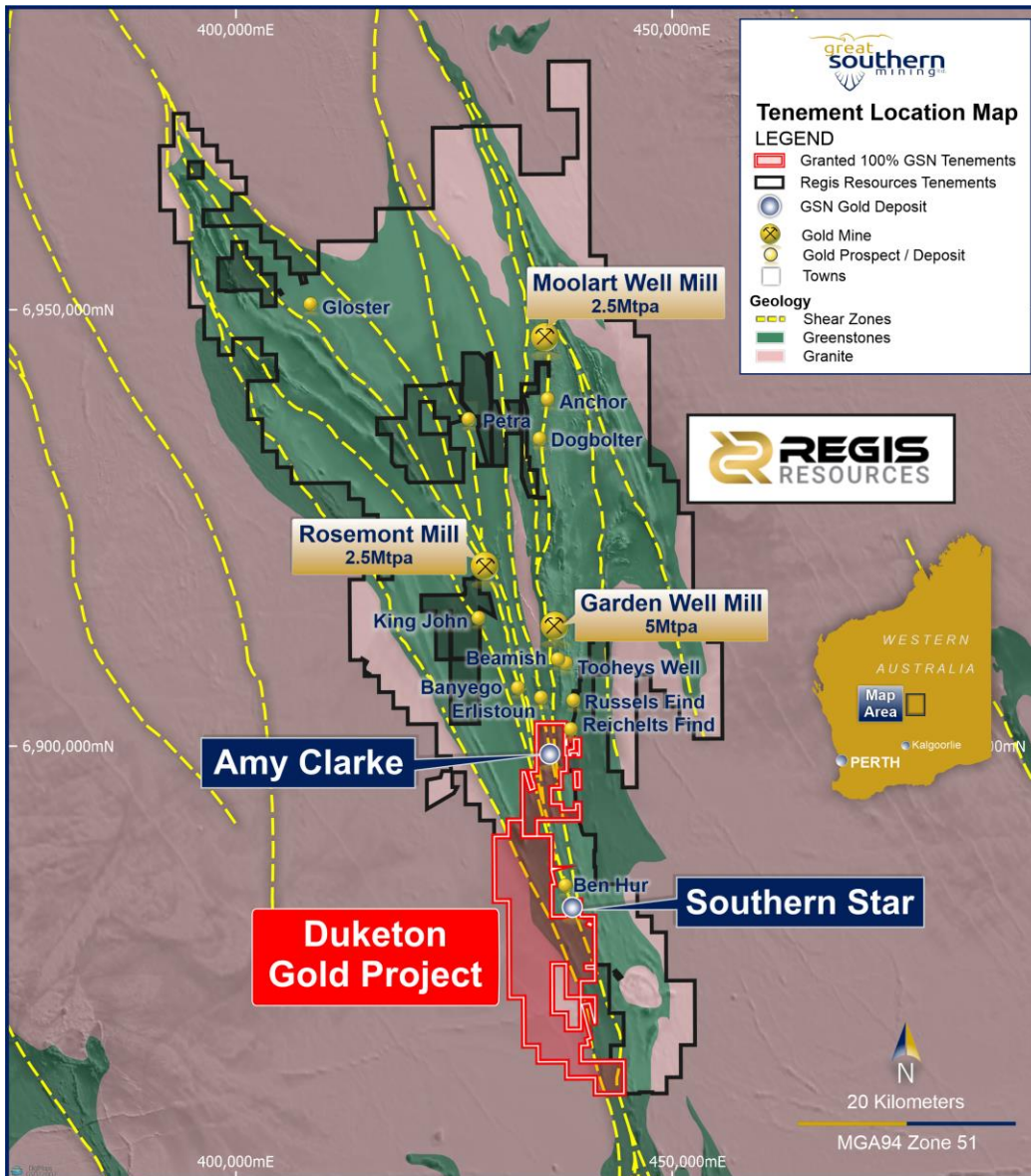
- Laverton Gold District (>25Moz) – Duketon Gold Project (>265 km<sup>2</sup>), Mon Ami (5 km<sup>2</sup>).
- North QLD Copper-Gold District (>20Moz) – Edinburgh Park porphyry (Au, Cu, Ag), 1356 km<sup>2</sup>.
- Exposure to Nickel and PGE's – East Laverton Nickel Project, 405 km<sup>2</sup>.

## Strategic focus to unlock value

- Management team with proven track record in value creation and discoveries.
- Advanced exploration infrastructure in place with bases of operations in both jurisdictions.
- Well supported and stable team of geologists in WA and QLD.



# WA - Overview



## 3 KEY PROJECTS:

### Duketon Gold Project

- Southern Star
- Amy Clarke
- Golden Boulder

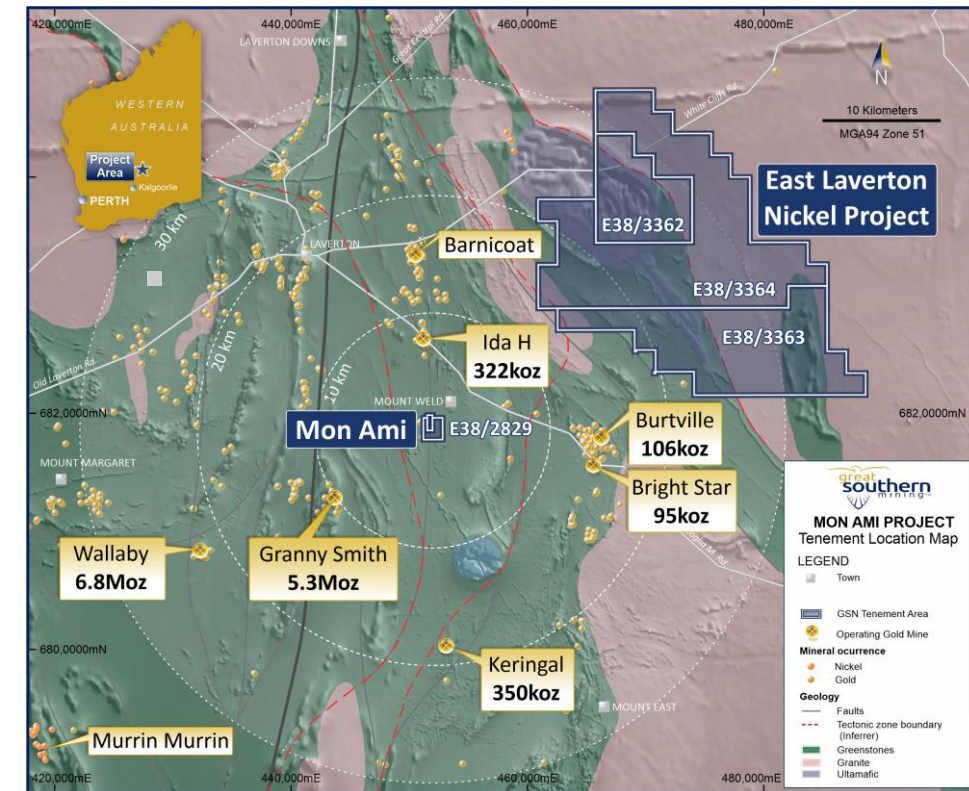
### Mon Ami Gold Project

- Indicated Mineral Resource 1.56Mt @ 1.11 g/t Au for 55 k oz Au<sup>1</sup>.

### East Laverton Nickel Project

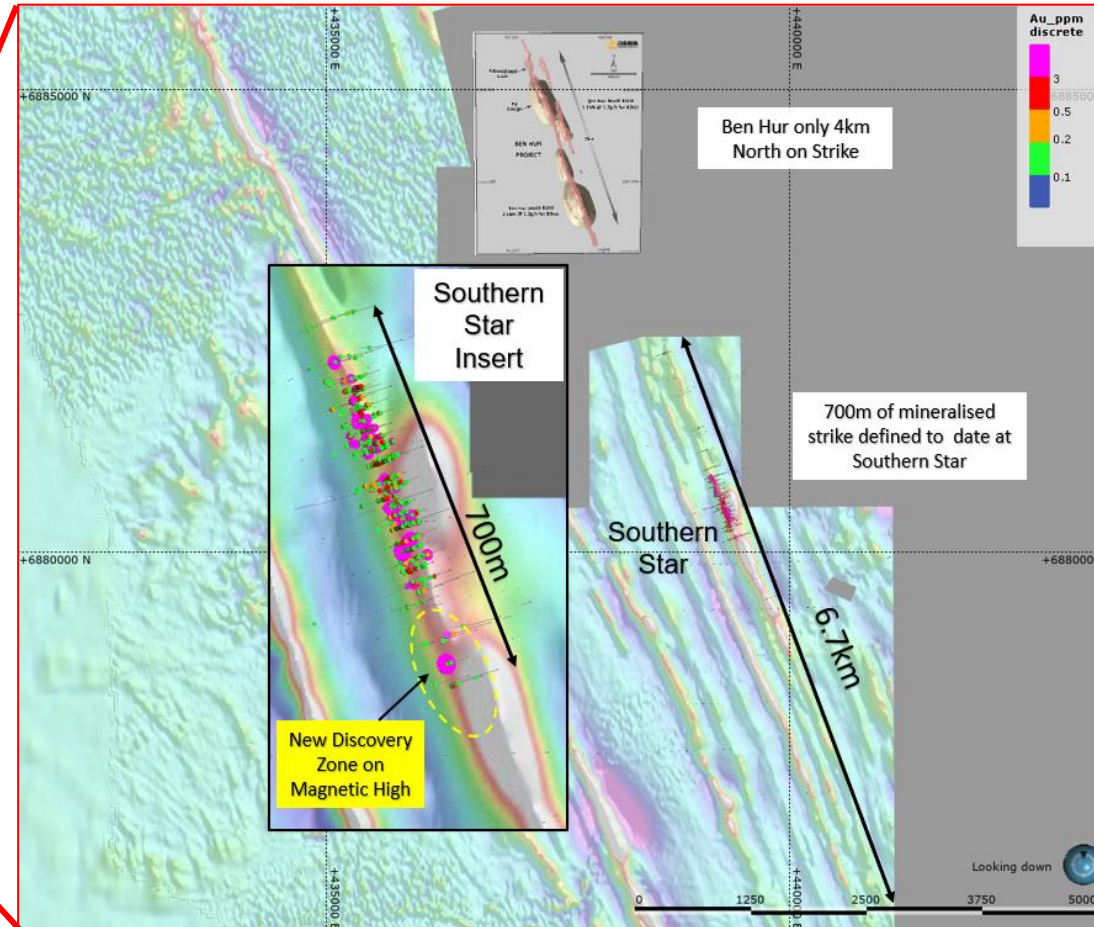
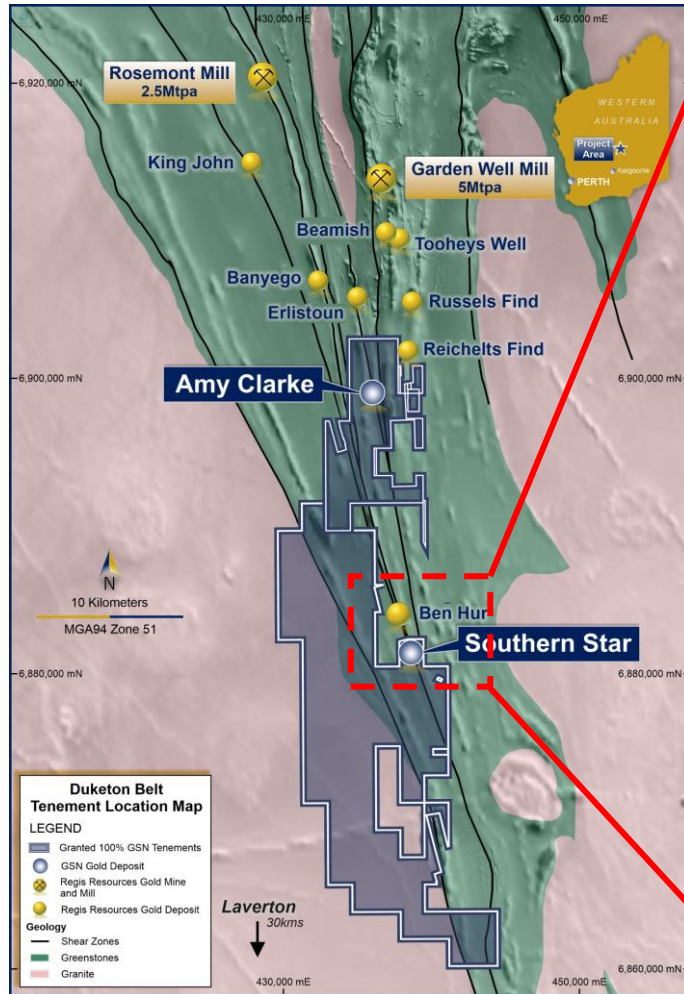
- Massive Nickel sulfide potential.

All projects within 30km of operating gold mills and key infrastructure.





# Duketon Gold Project: Southern Star



Southern Star insert highlighting maximum gold downhole with draped magnetic data (TMI1vd) highlighting the regional 345° trending stratigraphy that host both Ben Hur and Southern Star deposits (Refer ASX:GSN announcement 5/10/21)

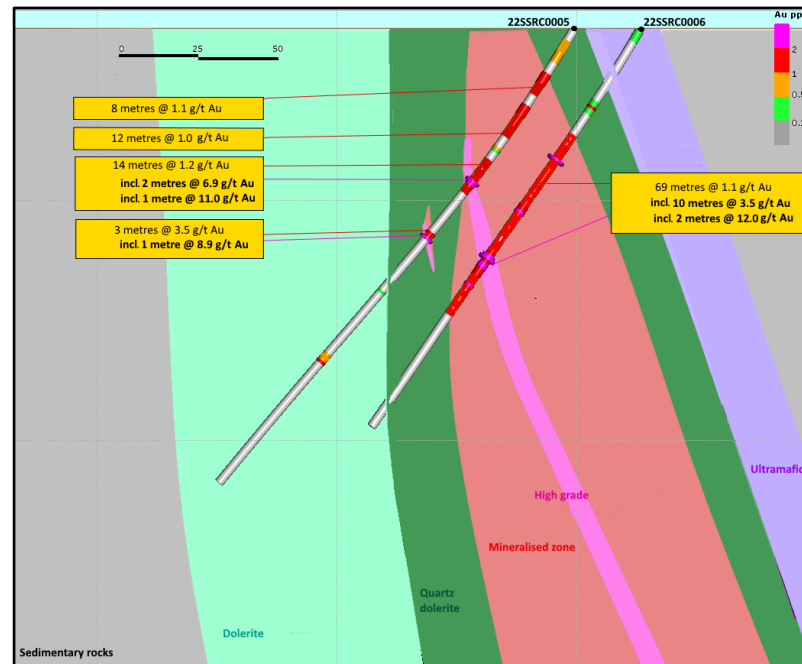
- Gold deposits in the Duketon Belt reside on well understood Mineralised corridors.
- 12km of the mineralised Rosemont Trend to explore on GSN tenure.
- 6.7km to test directly along strike of Southern Star which is only 4km along strike from Regis Resources 390koz Ben Hur Deposit<sup>1</sup>.

<sup>1</sup> Refer to ASX:RRL announcement 6/4/21

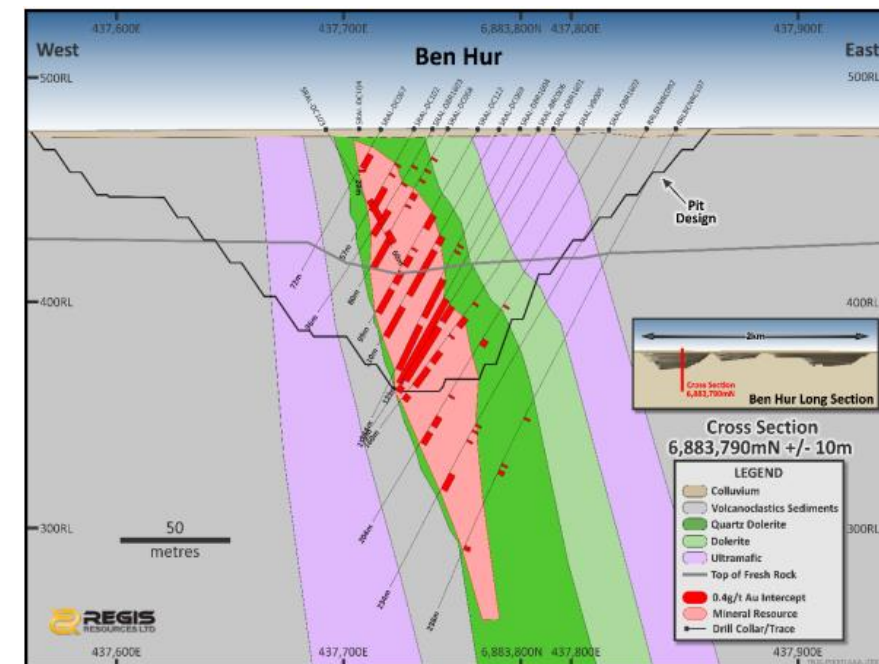
# Southern Star – Ben Hur Analogue



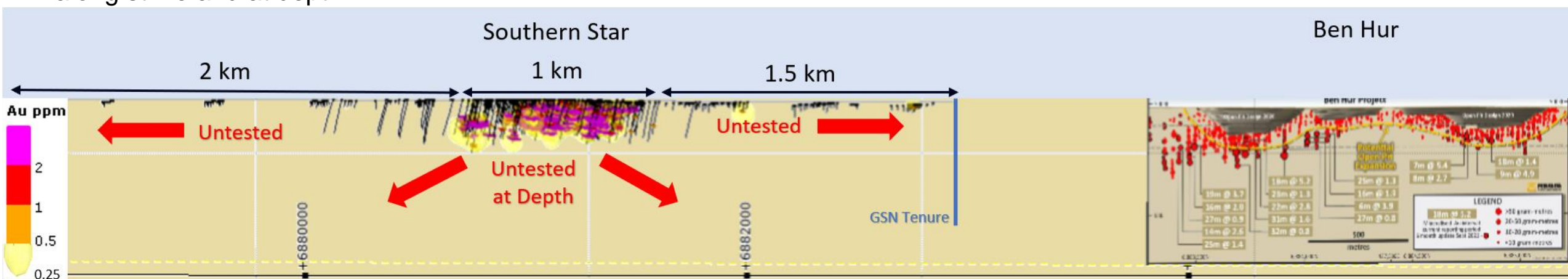
- Recent drilling and multielement analysis has confirmed Southern Star as a large mineralised system.
- Massive potential for growth. Ben Hur Resource Estimate based on ~130,000m drilling for 10.3Mt at 1.2g/t Au for 390k oz<sup>1</sup>. Southern Star has had ~20,000m drilling total (~10,000m drilled by GSN).
- 1.5km of this mineralised Rosemont-Ben Hur Trend to explore to north and ~4km south of Southern Star.
- Open in all directions, limited drilling along strike and at depth.



Southern Star Cross Section – refer ASX:GSN announcement 29/6/22



Ben Hur Cross Section – refer ASX: RRL announcement 6/4/21



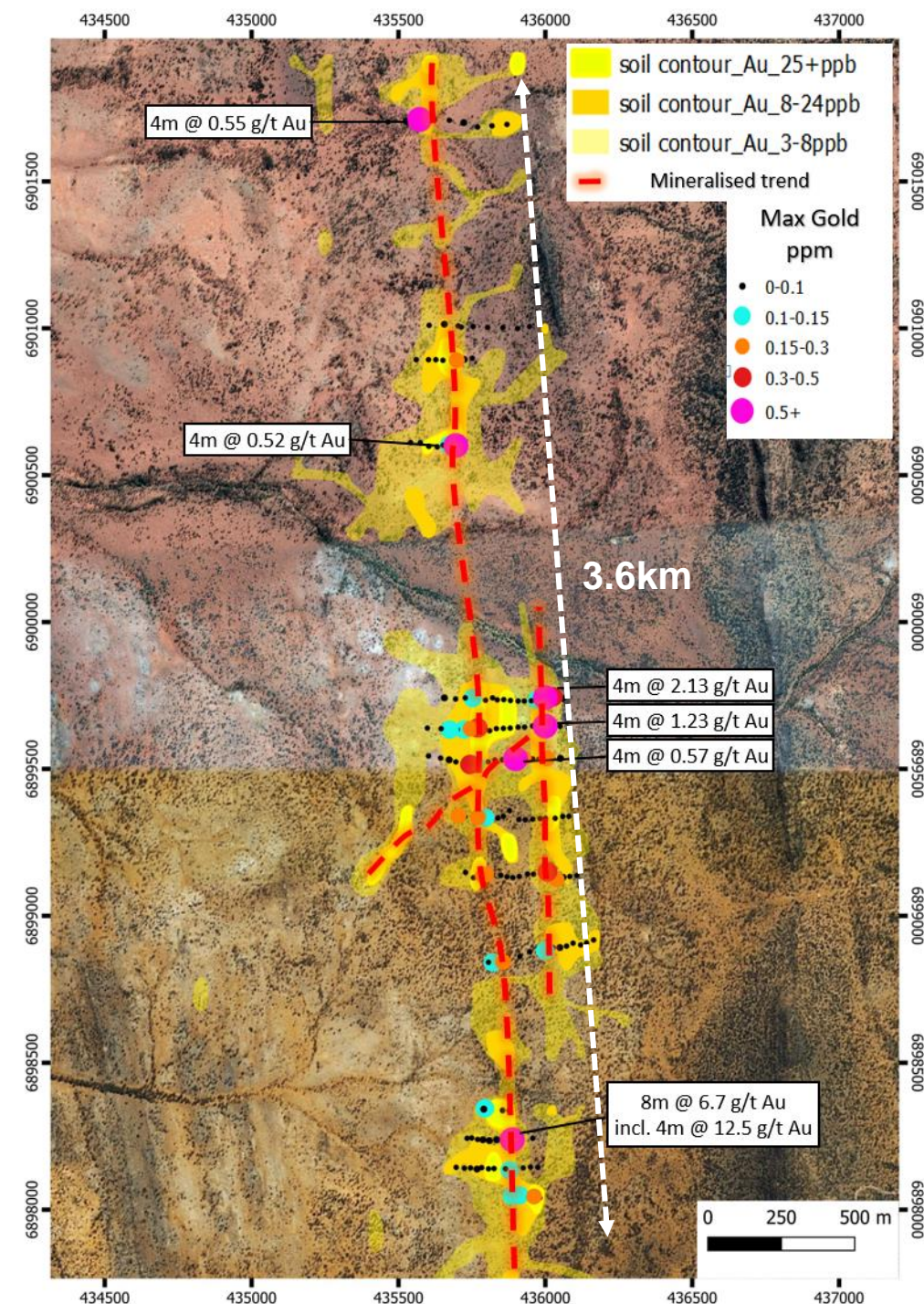


# Duketon Gold Project: Amy Clarke

- Tenement acquired in late 2020 with little historical exploration undertaken.
- Very underexplored with last drill testing in mid-1990's with shallow, ineffective RAB drilling.
- Project progressed by exploration team from a concept target to drill ready target.
- Soil program has identified 4km of anomalism with similar grade and tenor to Garden Well anomaly prior to the 2.1 Moz @ 1.4 g/t Au gold discovery<sup>1</sup>.
- Main anomalism sits along strike (<3.5km) from Erlistoun pit - 320koz @ 1.9 g/t Au<sup>1</sup>.
- Q4 GSN drilling confirmed two significant mineralised trends including:
  - **8m @ 6.7g/t Au incl. 4m @ 12.5g/t Au<sup>2</sup>**

<sup>1</sup>Source: ASX:RRL announcements 8/3/11, 18/1/11

<sup>2</sup>Refer ASX announcement 17/1/22





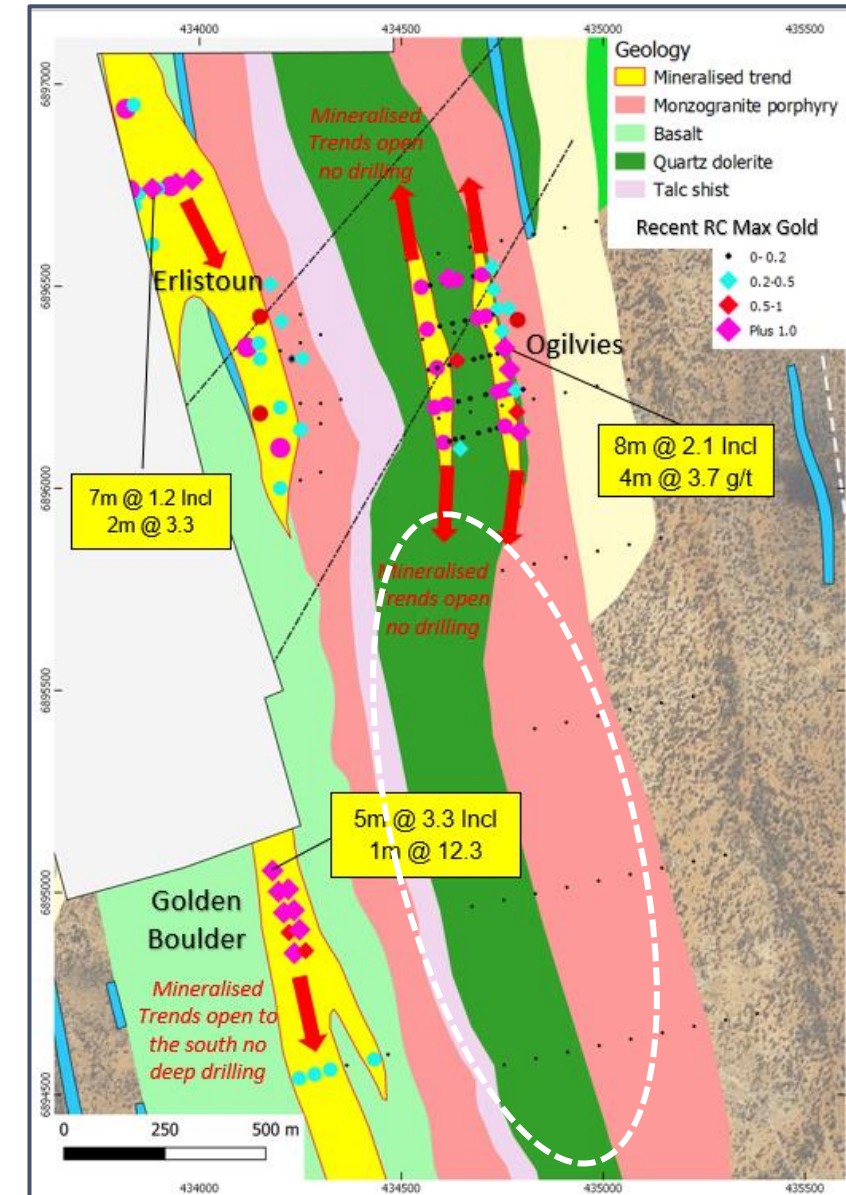
# Duketon Gold Project: Regional Targets



- Targets generated by GSN in-house geology team following collation of over 24,000 soil samples and 12,000 drillholes across Duketon Belt.
- Highest ranked targets tested by a small RC drill program 2021 with some outstanding drilling results<sup>1</sup>:
  - ❖ **Ogilvie's**: 8m @ 2.1 incl. 4m @ 3.7 g/t Au
  - ❖ **Golden Boulder**: 5m @ 3.3 incl. 1m @ 12.3 g/t Au
  - ❖ **One Weight Wonder**: 7m @ 1.5 incl. 2m @ 3.2 g/t Au
  - ❖ **Erlistoun**: 7m @ 1.2 incl. 2m @ 3.3 g/t Au
- Identified mineralised trends under-explored and historic drilling is sparse and shallow (~40m depth).
- Presence of multiple parallel quartz lodes identified.

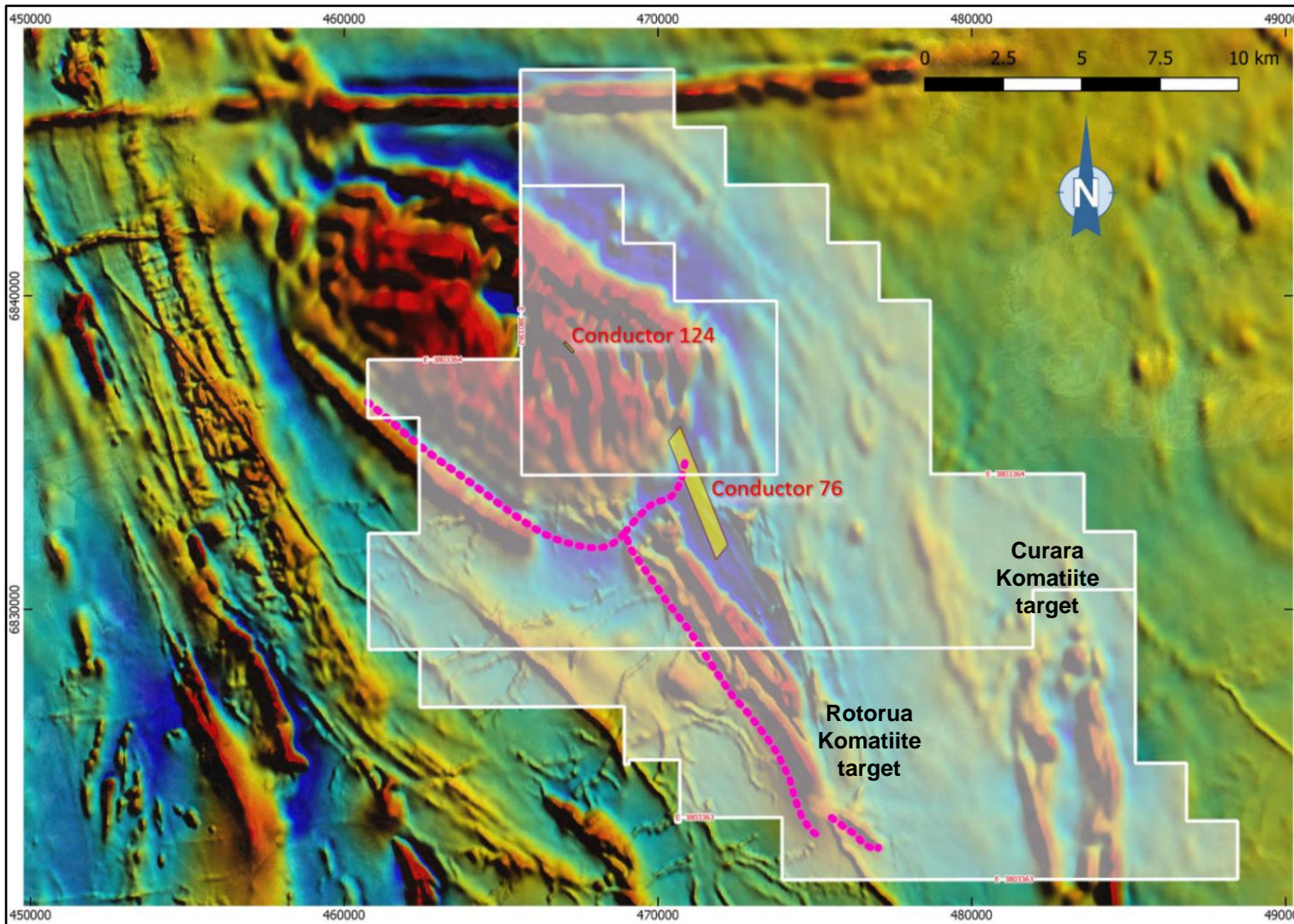
## Next Steps

Field mapping, multielement sampling and regional aircore to be undertaken to aid proof of concept of a large, stacked lode system.



<sup>1</sup> – All results from program included in ASX announcement of 21/9/21

# East Laverton Nickel Project



Diorite Hill Magmatic complex (red oval magnetic response), highlighting newly identified conductors overlayed with GSWA magnetics and interpreted basal contact.

- Multiple ground based electromagnetic (EM) conductors identified by the 2021 Moving-Loop Electro-Magnetic survey.
- Infill Fixed-Loop Electro-Magnetic survey completed in early 2022.<sup>1</sup>
- A large EM conductor located in close proximity of the edge of the interpreted Diorite Hill magmatic intrusion, which is a favourable position for massive sulfide accumulation.
- Nickel sulphide potential in layered intrusions historically overlooked. Only a focus in WA since the 2012 Nova discovery.
- No historical nickel-copper drilling conducted over the large conductor.

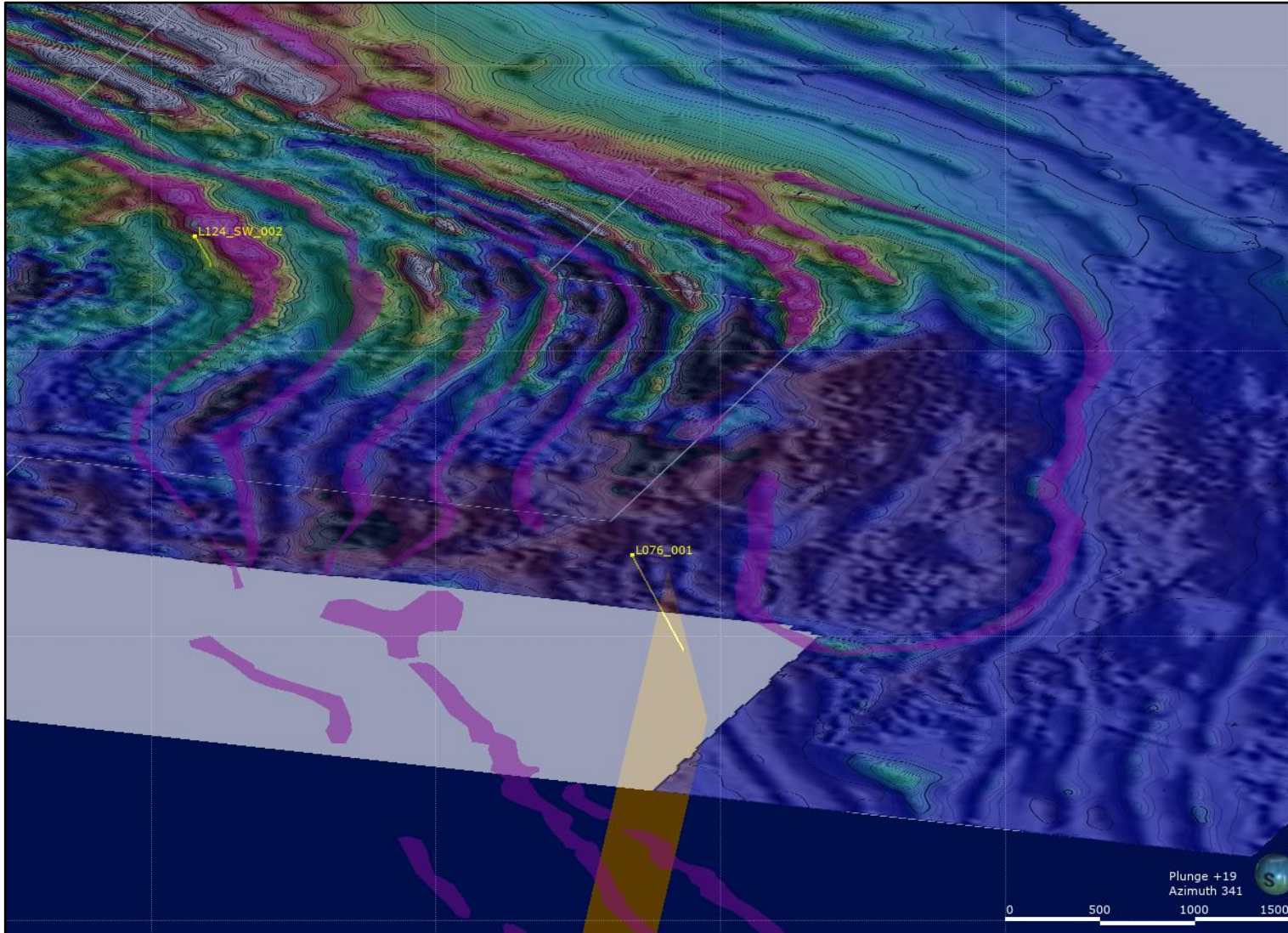
1 - Refer ASX announcement 9/3/22



# East Laverton Nickel Project - Next Steps



- Drill program has been designed by Newexco Exploration.
  - ❖ ~600m RC with diamond tail hole designed to intersect the large conductor (L076). Conductor modelled at 2km x 1km; and
  - ❖ ~500m RC program designed to test the shallower conductor (L124).
- Company has engaged nickel expert, Dr Jon Hronsky<sup>1</sup>, for a review of the Project.
- A planned EM survey over the Rotorua complex in conjunction with Newexco will be undertaken.





# Mon Ami Gold Project

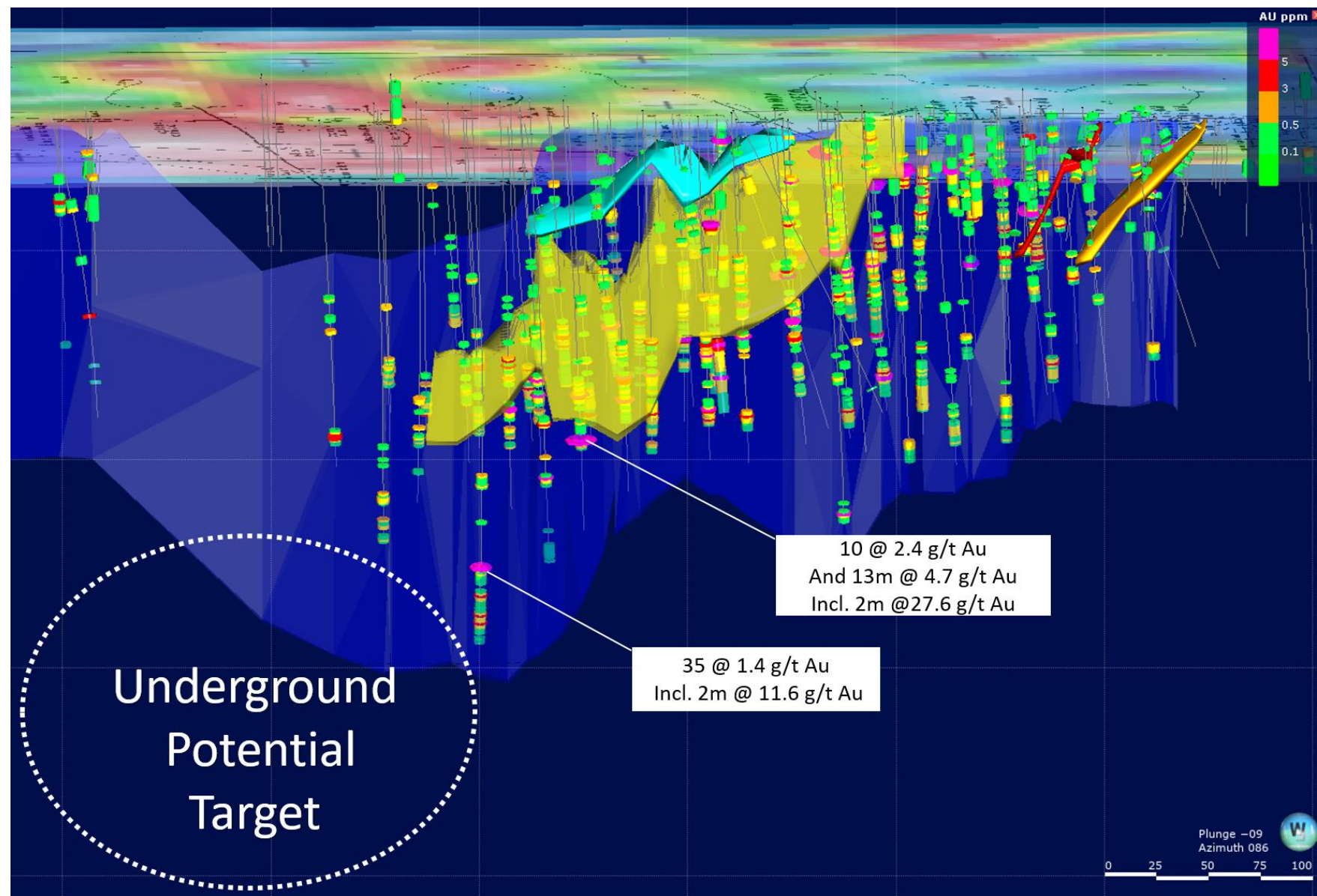


- Mineral Resource 1.56Mt @ 1.11 g/t Au for 55.5 koz Au<sup>1</sup>
- 95% in Indicated Classification.
- Metallurgical recovery average 95% in oxide and transition zone<sup>2</sup>.
- Deeper high-grade target analogous to Ida H high-grade underground mine 7km along strike (historical production 176Koz @ 22.8 g/t Au)<sup>3</sup>.

<sup>1</sup>Refer to ASX Announcement 21/7/21 for the Mon Ami Mineral Resource

<sup>2</sup>Refer to ASX Announcement 25/1/19 for the Mon Ami Metallurgy Results

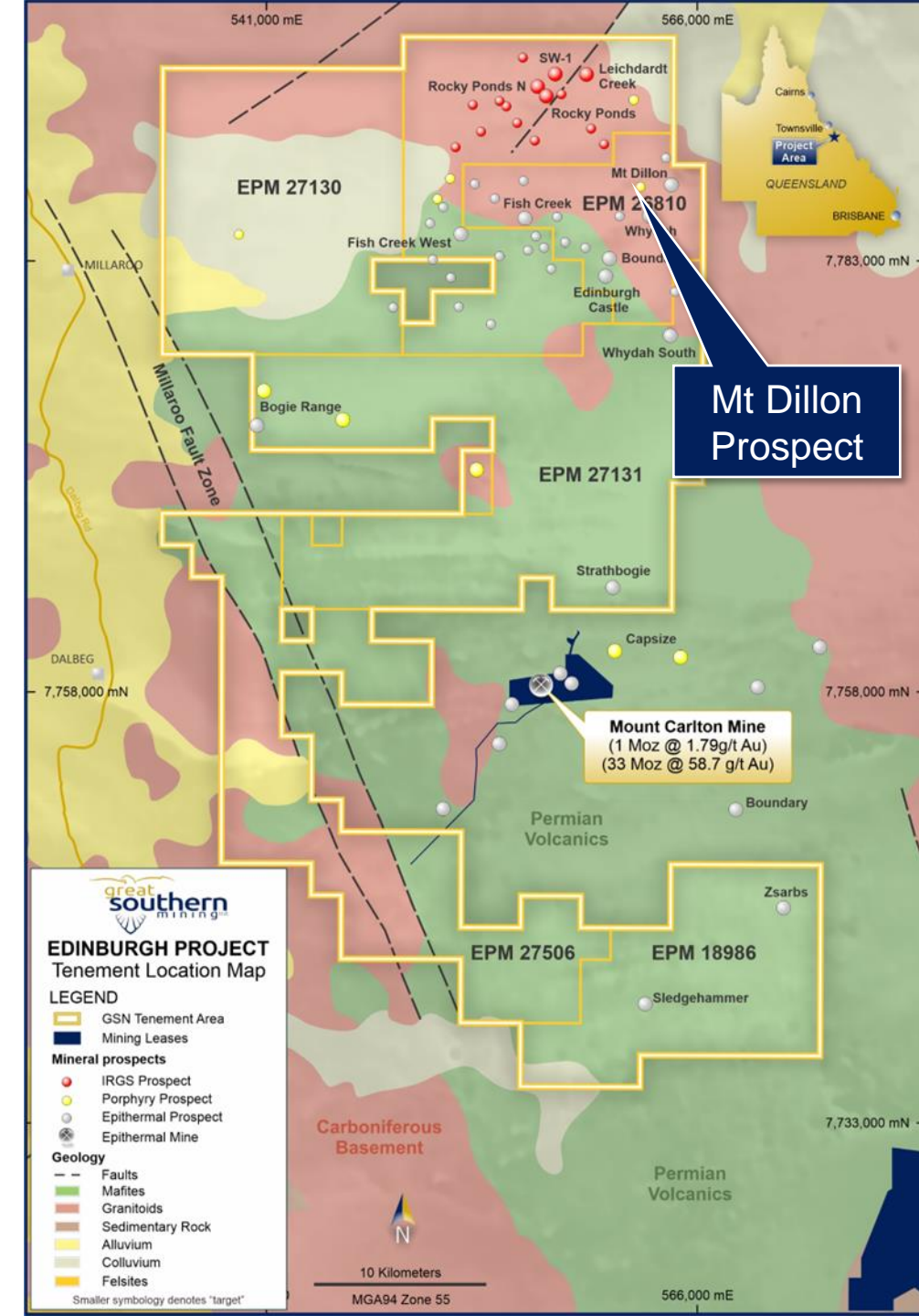
<sup>3</sup>Refer to ASX Announcement 12/8/20 and 2/3/21 for the Mon Ami Drilling Results





# QLD: Edinburgh Park Project

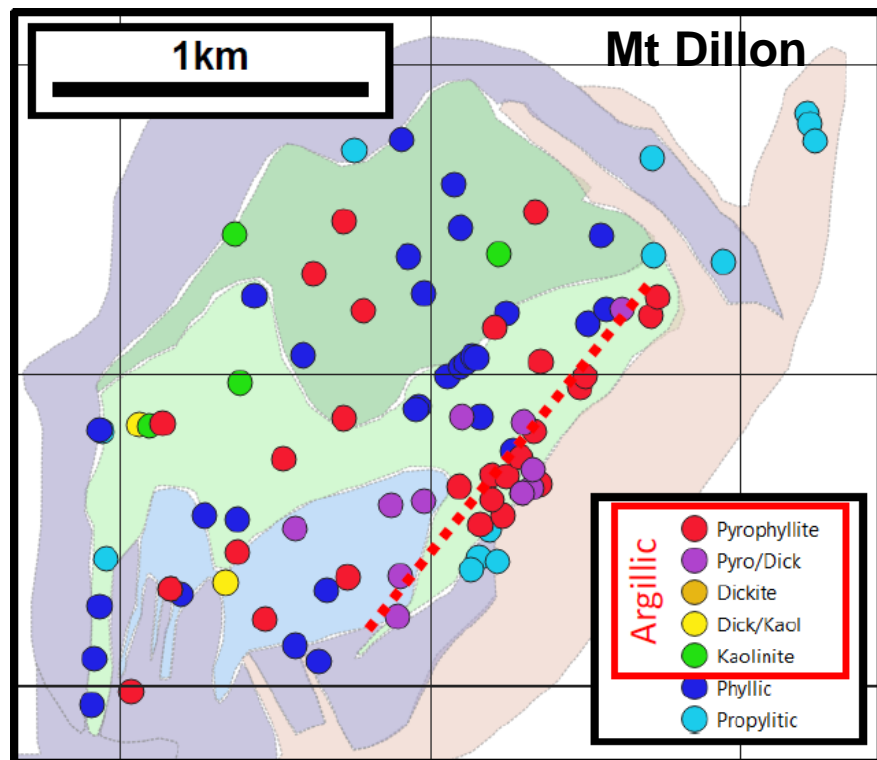
- Tier 1 district with >1,000km<sup>2</sup> tenure surrounding 1.7Moz Au Eq Mt Carlton Mine.
- Prospective for high and low sulphidation mineralisation of the Mt Carlton type.
- Associated high level Cu-Au porphyry deposits hosted within Early Permian Volcanics (Lizzie Creek Volcanics) also identified.
- 19 new regional targets identified from hyperspectral survey.
- Hyperspectral targets validated by alteration mapping at Mt Dillion, Fish Creek and Edinburgh Castle
- Exploration focus on prospective ENE to NE structural corridors, and in particular the intersection of NNW trending structures.



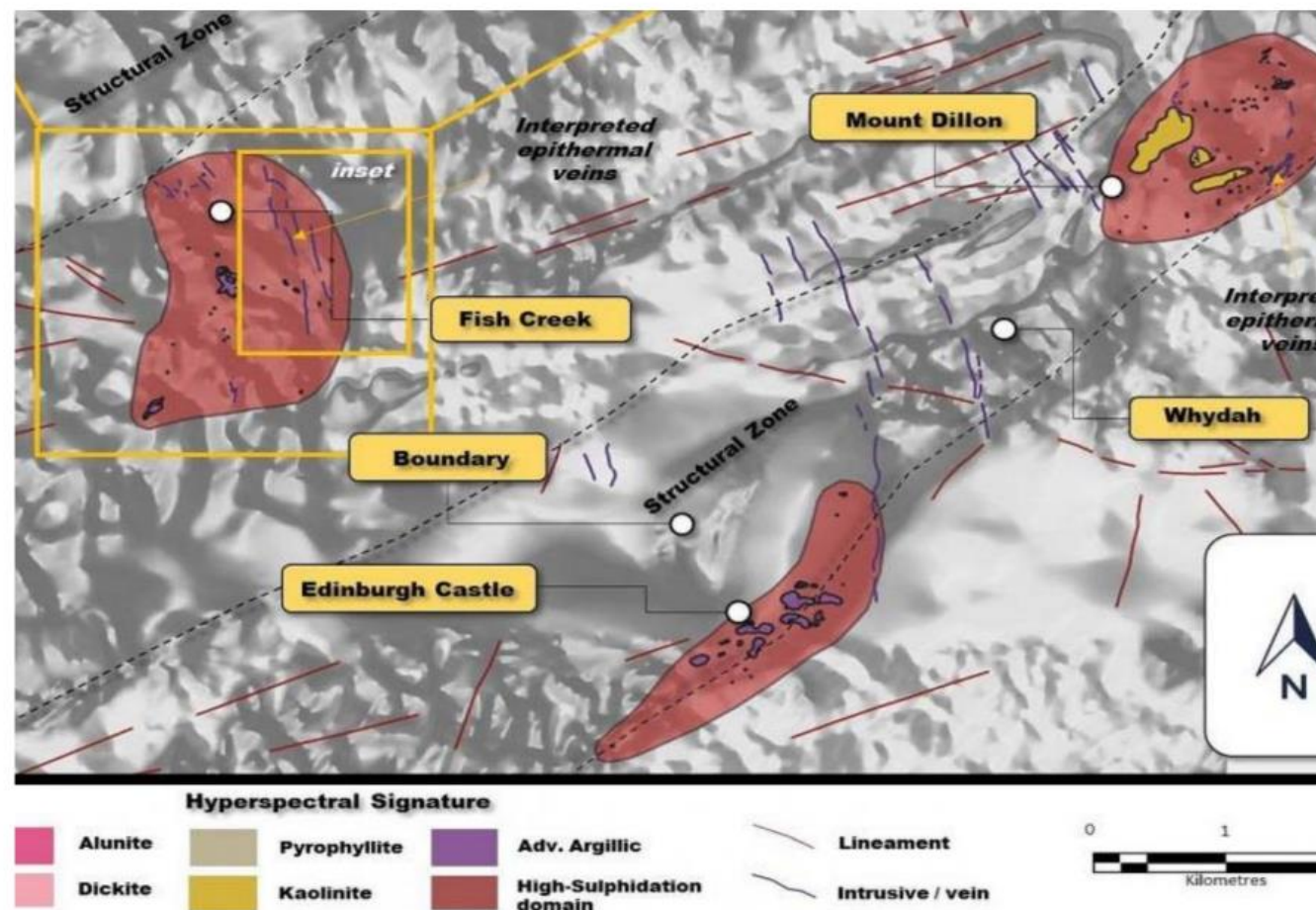
# Queensland Targets



Hyperspectral targets validated by alteration mapping at Mt Dillon, Fish Creek and Edinburgh Castle



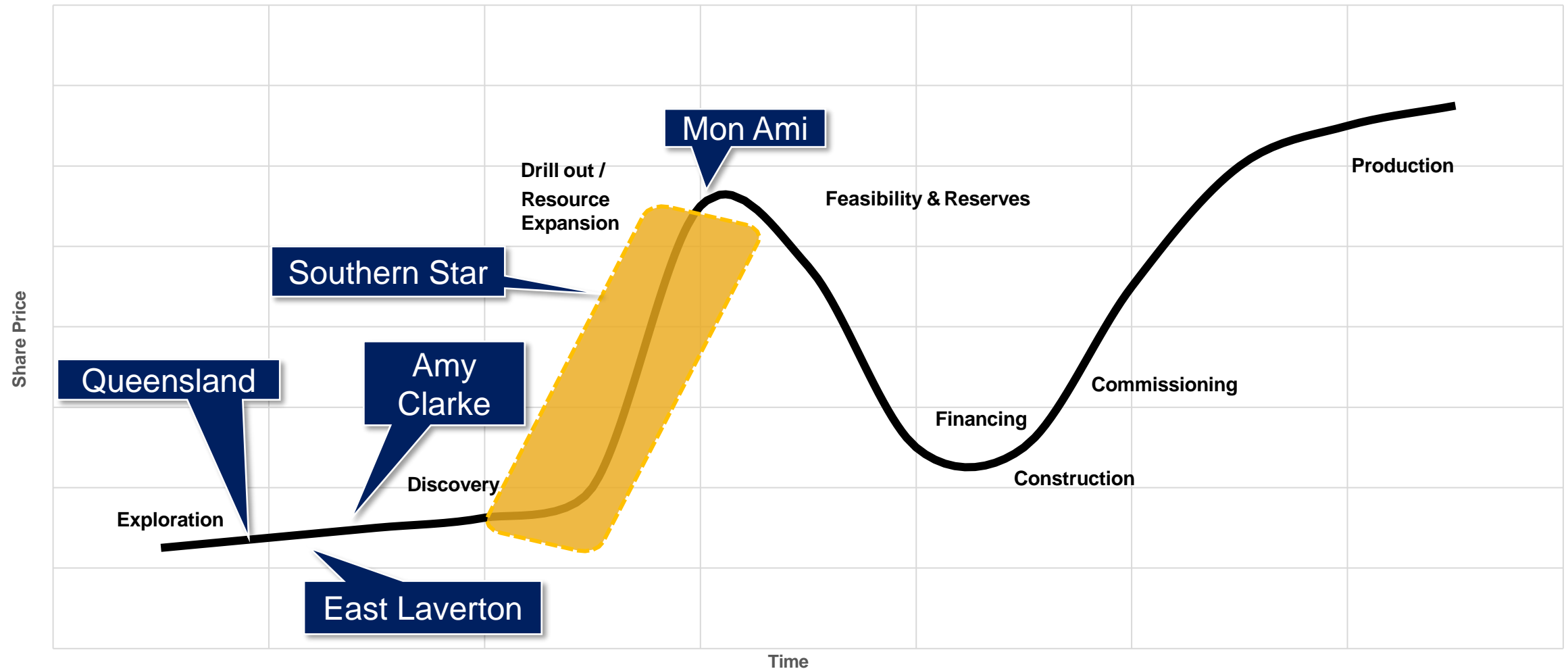
Very coherent alteration suggests large scale porphyry target.  
Strong target for Mt Carlton type mineralisation.



For further details on Queensland targets refer ASX Announcement 28/10/21, 2/8/21, 27/5/20 for the hyperspectral survey; 14/4/21 for the Fish Creek soil survey; and 3 18/3/21 for the Leichhardt Creek soil survey.



# | Multiple Projects along the value curve



# Why GSN?



- ✓ Strategic landholdings in Tier 1 Australian mining districts.
- ✓ Genuine potential for major gold, nickel and copper discoveries.
- ✓ Value proposition enhanced by hungry neighbouring mills.
- ✓ Quality Board with skin in the game and experienced exploration teams.
- ✓ Active exploration programs underway with strong results pipeline.



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# Disclaimer



Deposit	Competent Person	Employer	Professional Institute
Duketon, East Laverton and Mon Ami Exploration Results and Geological Interpretation	Simon Buswell-Smith	Great Southern Mining Ltd	MAIG
Mon Ami Mineral Resource	Dr Michael Cunningham	SRK Consulting (Australasia) Pty Ltd	MAusIMM, MAIG

**Competent Persons Statement:** The information in this report that relates Exploration Results and Mineral Resources is based on the information of the Competent Persons listed in the table above. Each of the Competent Persons have sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity they are undertaking to qualify as Competent Persons under the JORC Code (2012). For new information each consent to the inclusion in the report of the matters based on his information in the form and context in which they occur. Previously announced information is cross referenced to the original announcements. In these cases, the Company is not aware of any new information or data that materially affects the information presented and that the technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons findings are presented have not been materially modified from the original market *announcements of (GSN: 25/1/19, 12/8/20, 2/3/21, 14/4/21, 21/7/21, 21/9/21, 5/10/21, 11/10/21, 28/10/21, 13/12/21, 17/1/22, 9/3/22, 31/3/22, 15/6/22, 29/6/22 and 5/7/22. References to ASX: RRL announcements of 18/1/11, 8/3/11, 6/4/21, 31/3/22 are noted in the presentation).*

ASX announcements are available on the Company's website at [www.gsml.com.au](http://www.gsml.com.au).

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