



# Corporate Presentation

April 2022

**Creating Value Through Discoveries**

**ASX: GSN**



# Corporate Overview



## CAPITAL STRUCTURE

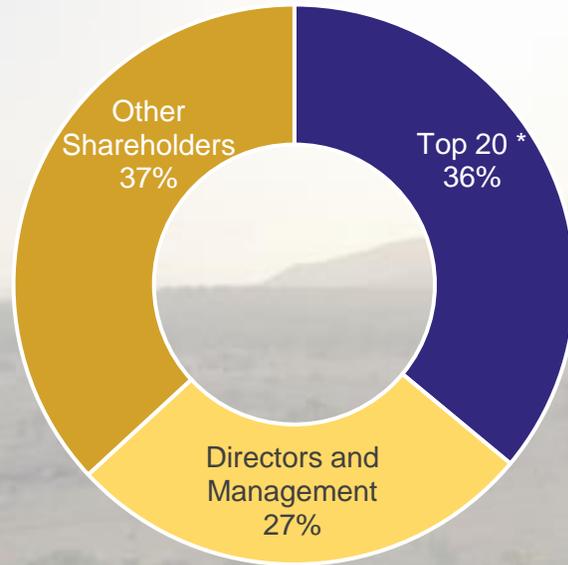
**532m**  
SHARES ON ISSUE

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**187m**  
LISTED OPTIONS  
Exercise Price \$0.05 Sep 22

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**\$41m**  
MARKET CAP\*\*  
as at April 6, 2022 (5.8c)



## BOARD OF DIRECTORS

<b>Executive Chairman</b>	Mr John Terpu
<b>Non-executive Director</b>	Ms Kathleen Bozanic
<b>Non-executive Director</b>	Mr Andrew Caruso
<b>Non-executive Director</b>	Mr Matthew Blake
<b>Company Secretary</b>	Mr Mark Petricevic

## SHARE PRICE



\* Top 20 balance excludes securities held by Directors and Management within the top 20.  
\*\*Diluted basis including conversion of Listed Options.

# Key Assets and Fundamentals



## Strategic 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 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>.

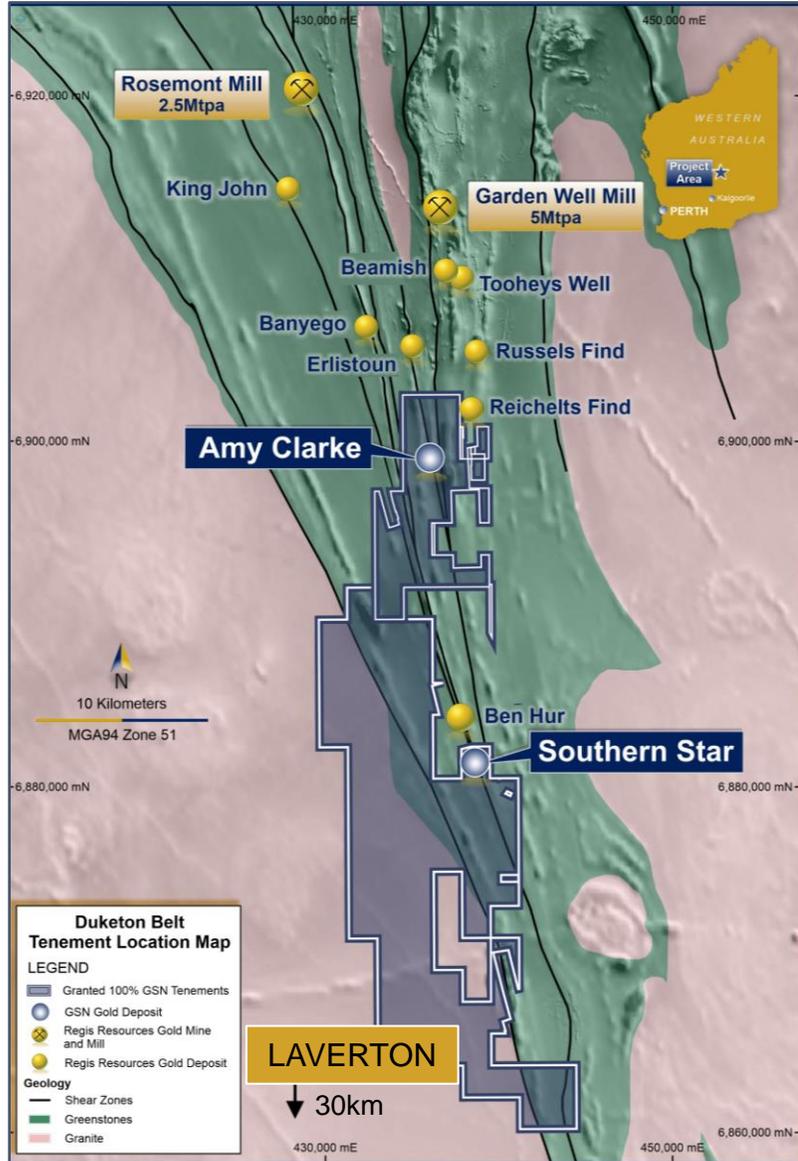
## Professional and experienced team

- 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.

## Extensive work programs underway

- 5,000m RC program underway at Southern Star<sup>1</sup>.
- East Laverton drill program commencing April 2022.
- Drill target program at North Queensland ongoing – targets to be presented May 2022.

# WA - Overview

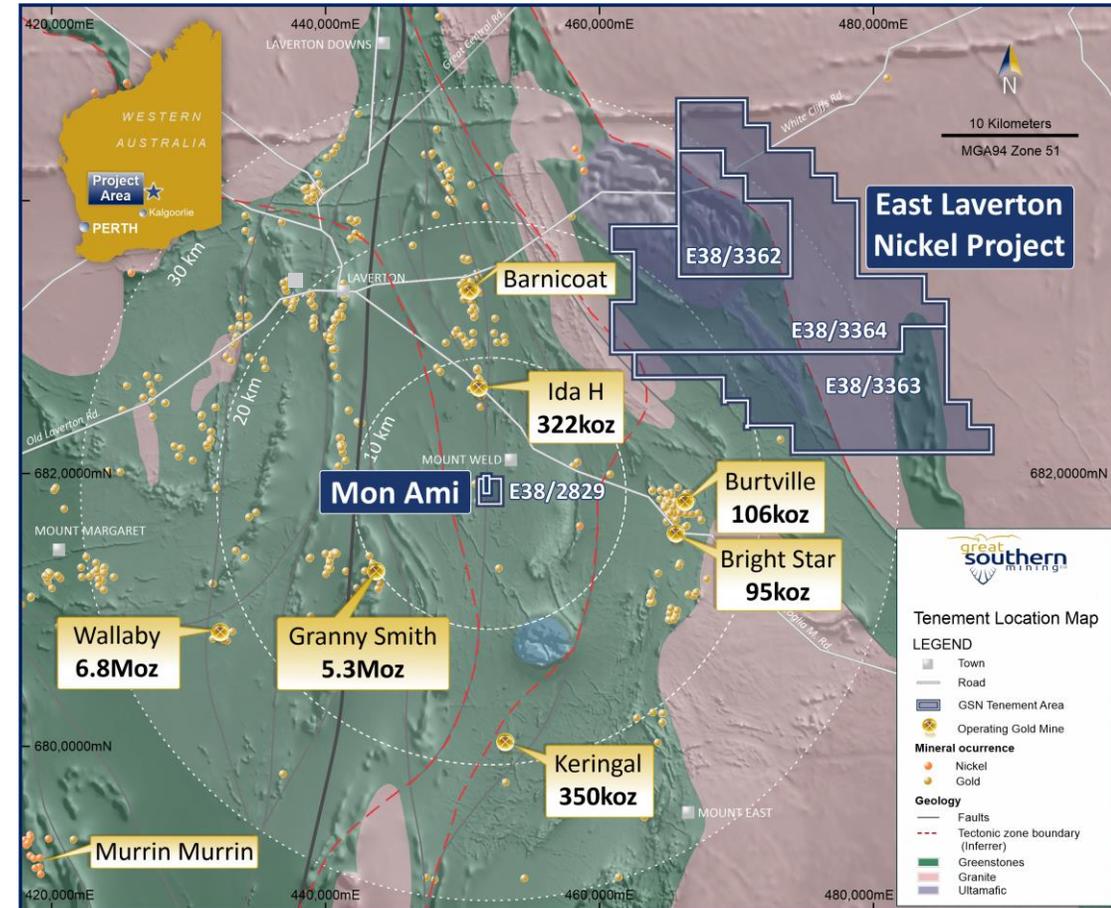


## 3 KEY PROJECTS:

- Duketon Gold Project (incl. Southern Star Gold Deposit and Amy Clarke).
- Mon Ami – Indicated Mineral Resource 1.56Mt @ 1.11 g/t Au for 55 k oz Au<sup>1</sup>.
- East Laverton Nickel Project.

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

Base of operations in Laverton to support exploration activities.



1 – Refer ASX announcement 21/7/21

# WA – Multiple projects along the exploration pipeline



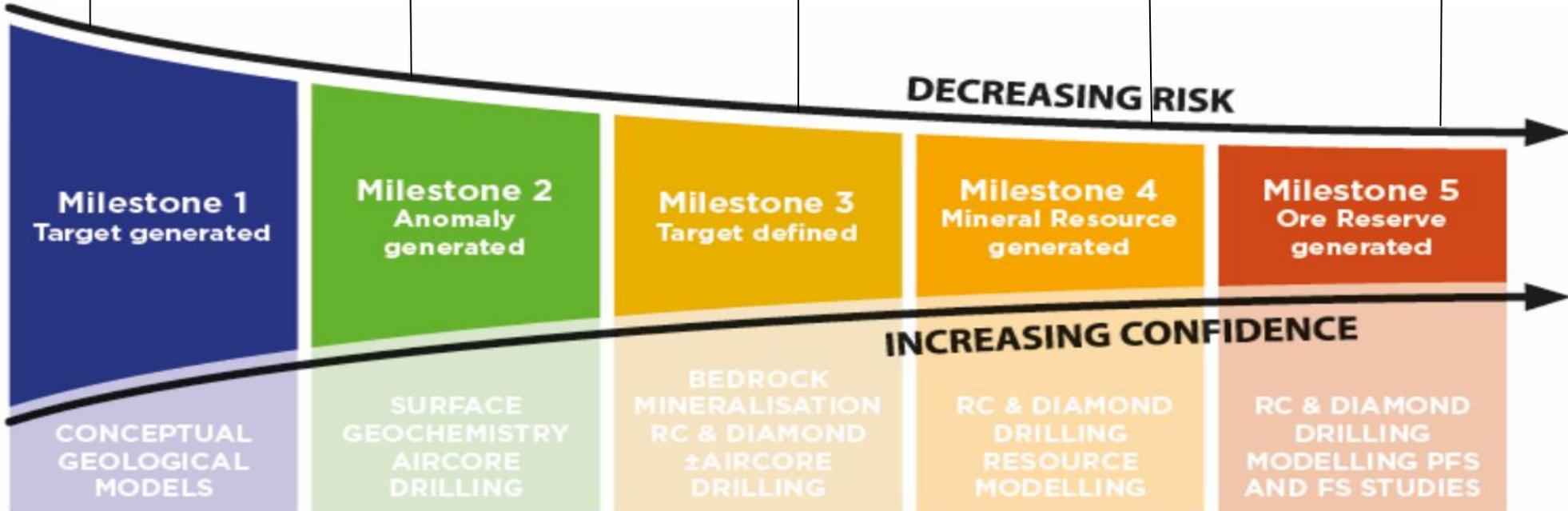
- Southern Star - Ben Hur Trend
- Garden Well Trend
- East Laverton Nickel (Rotorua)
- Duketon Nickel (Rosie/Camelwood Trend)

- Duketon Gold Project - Amy Clarke**
- East Laverton Nickel - Diorite Hill**

- Duketon Regional Targets:**
- Ogilvie's
  - Golden Boulder
  - One Weight Wonder

**Southern Star**

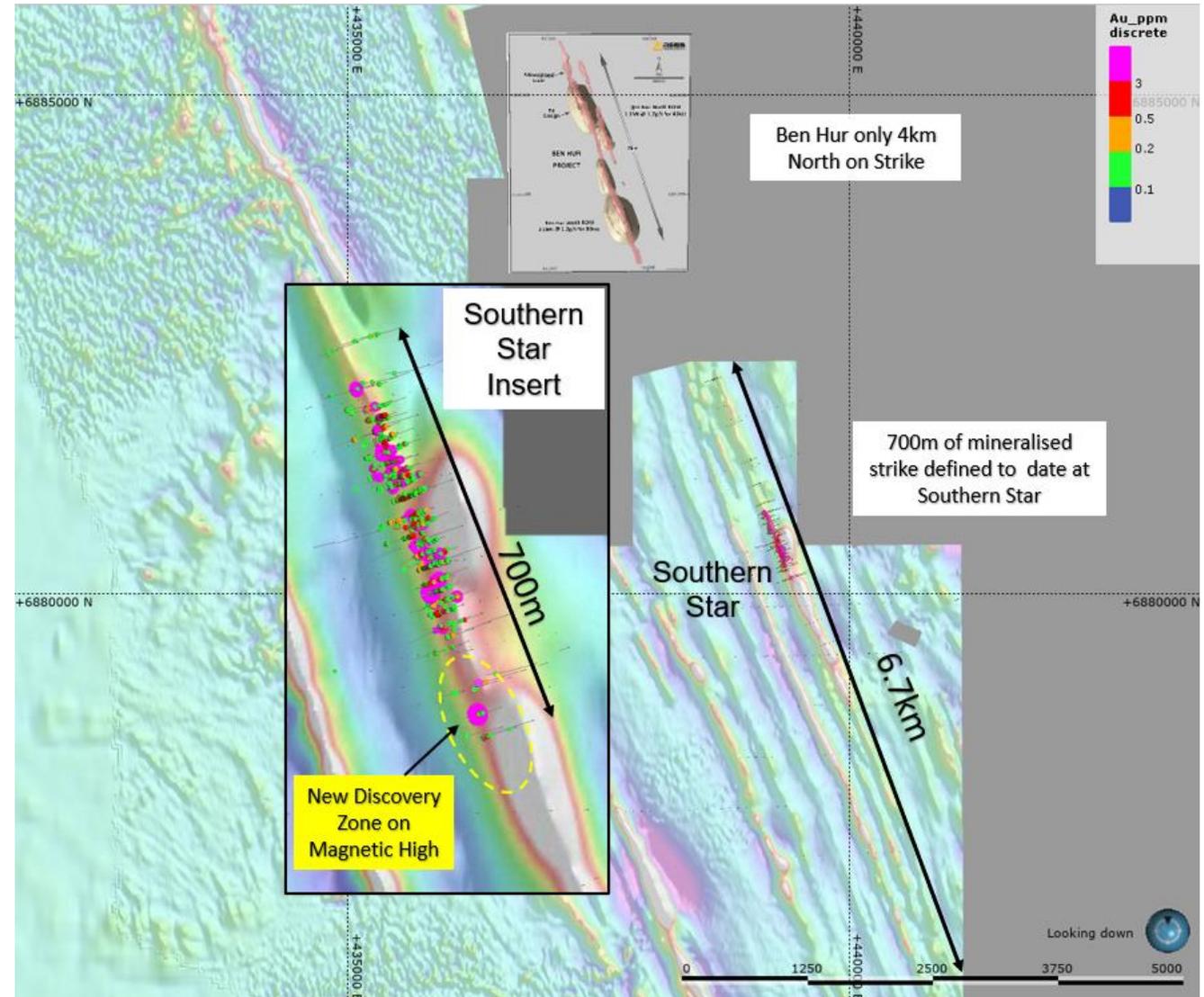
**Mon Ami**



# Duketon: Southern Star Deposit



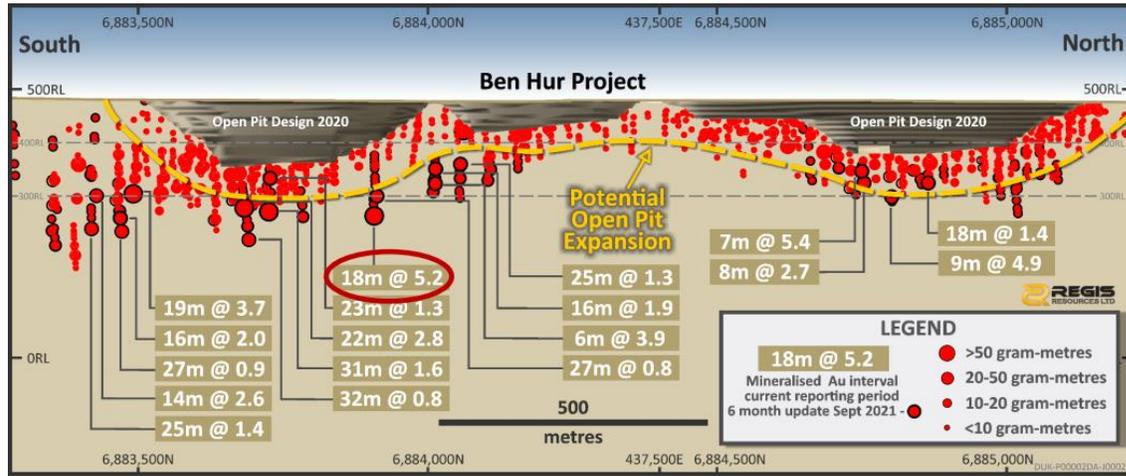
- To date, 700m strike of thick, continuous stacked gold mineralisation now defined.
- Open in all directions, very limited shallow drilling along strike.
- 12km of this mineralised trend to explore on GSN tenure.
- 4km along strike from Regis Resources 390koz Ben Hur Deposit<sup>1</sup>.
- GSN only drilled ~6,000m to date.



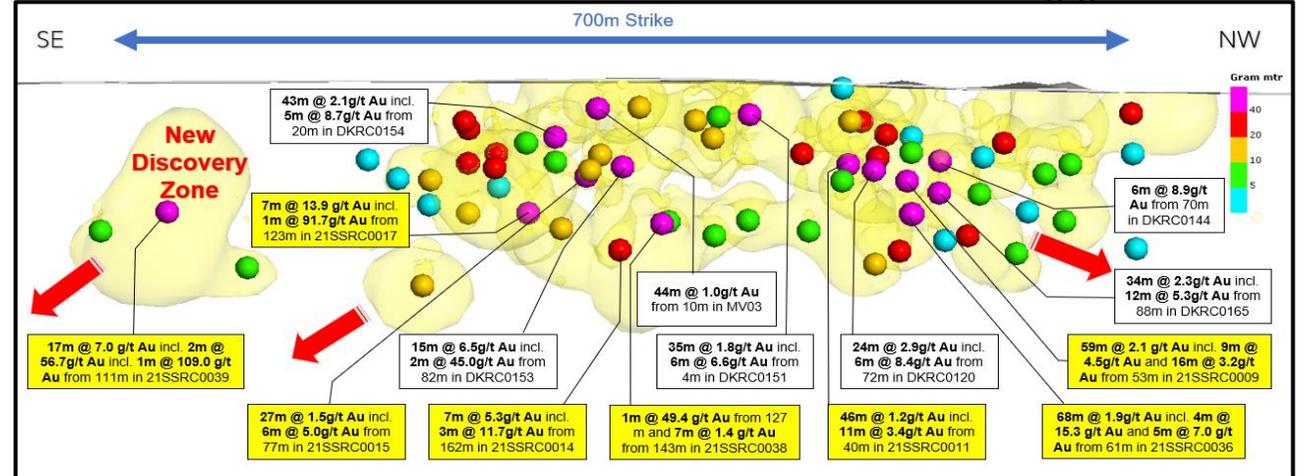
Southern Star insert highlighting maximum gold downhole with draped magnetic data (TMI1vd) highlighting the regional 345° trending stratigraphy that host both Ben Hur and Southern Star deposits (Refer ASX:GSN announcement 5/10/21)

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

# Southern Star – Ben Hur Analogue

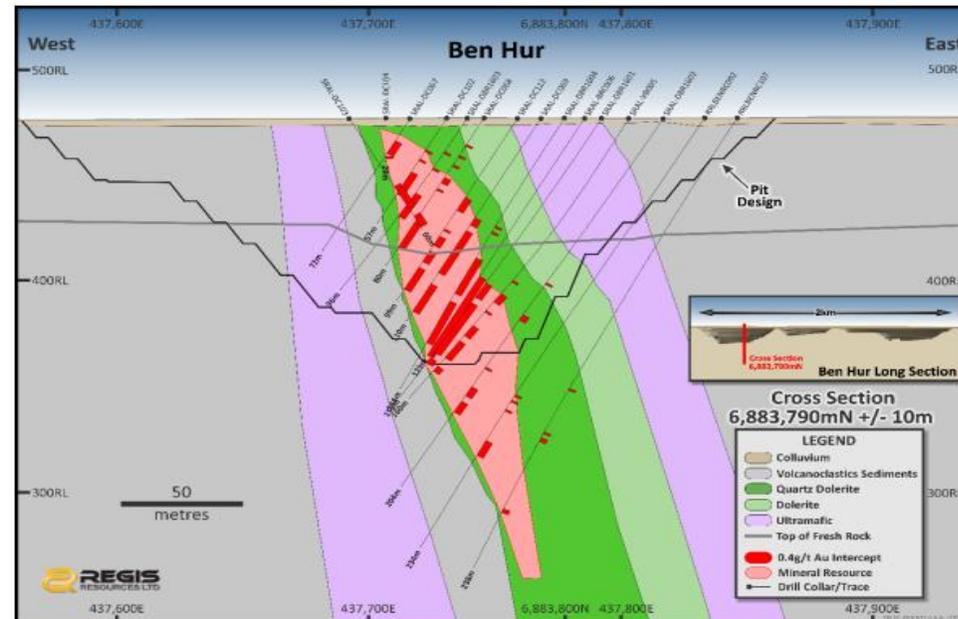


Ben Hur Long Section – refer ASX: RRL announcement 31/3/22

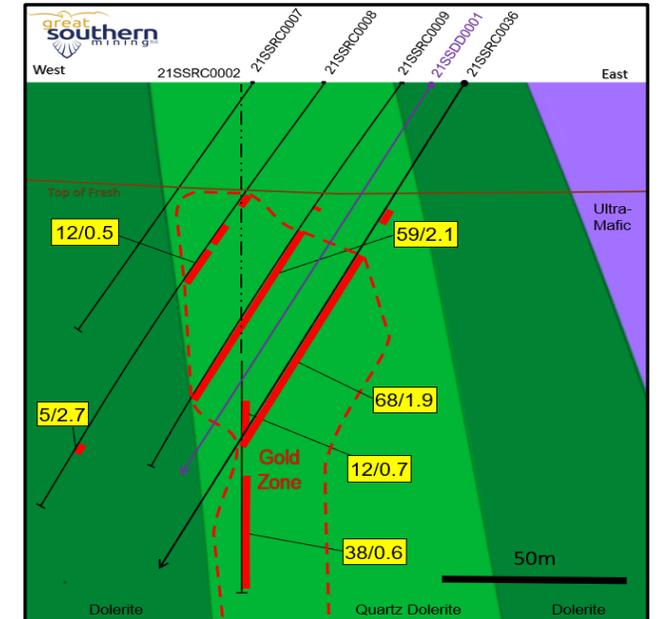


Southern Star Long Section – refer ASX:GSN announcement 11/10/21

- Southern Star is 4km along strike on the same mineralised trend as Ben Hur.
- Deposits display a very similar style of mineralisation, with the primary lode proximal to the sheared footwall of the quartz dolerite.
- 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 <13,000m drilling total (6,000m drilled by GSN).



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



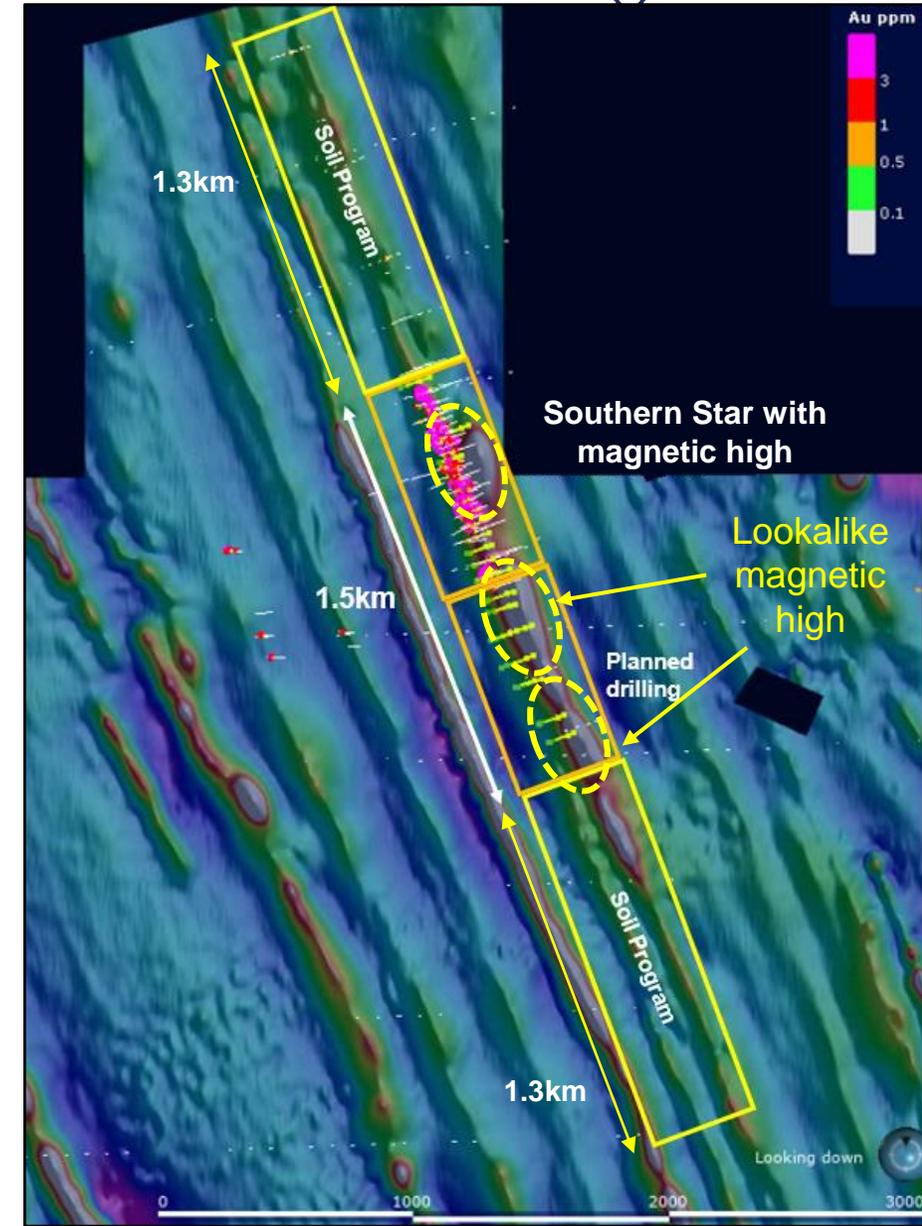
Southern Star Cross Section – refer ASX:GSN announcement 13/12/21

1 - Refer ASX: RRL announcement 6/4/21

# Southern Star - Next Steps

- Target mafic sills (quartz dolerite) with the thickest quartz-bearing lithologies (that occur near deep-tapping structures); such lithologies may be tracked using geophysical techniques.
- Extensive geology mapping complete, aiding in next steps.
- Southern portion better constrained due to field mapping (outcrop), lithochem and pathfinder element association.
- 5,000m RC program commenced<sup>1</sup>, split as follows:
  - ❖ ~1,500m to focus on linking new discovery zone to main deposit.
  - ❖ ~1,000m for resource extension and gaps.
  - ❖ ~2,500m to focus on southern extension corridor (~1km south of known mineralisation).
- Multi element soil programs planned north (660 samples) and south (505 samples) where data is sparse with intention to refine and delineate additional targets along strike.

**OBJECTIVE: Determine how big Southern Star could be.**

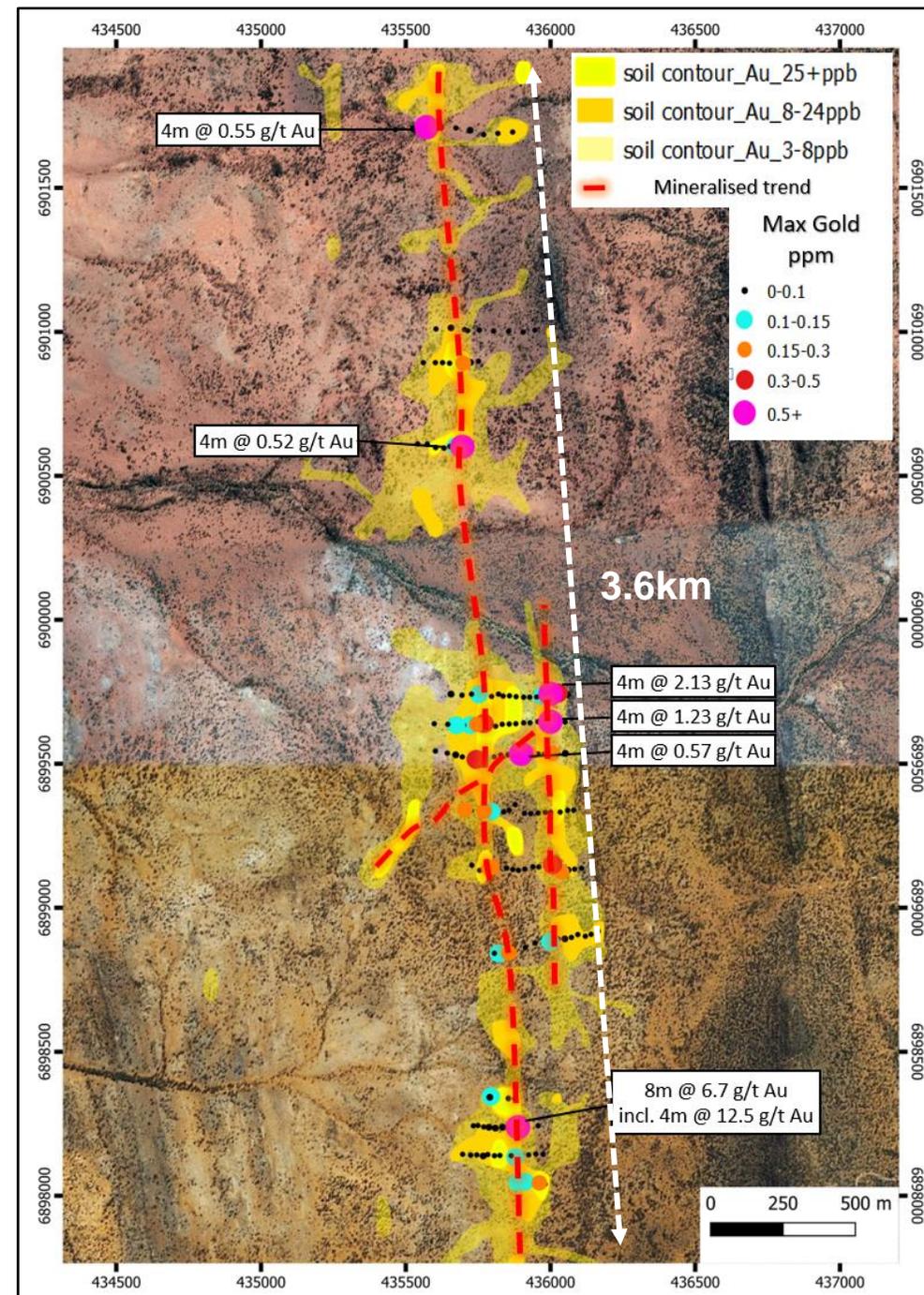


# Duketon: Amy Clarke

- Tenement acquired in late 2020 with little historical exploration undertaken.
- Project progressed by exploration team from a concept target to drill ready target.
- Kilometre scale soil anomaly of similar grade and tenor to Garden Well anomaly prior to 2.1 Moz @ 1.4 g/t Au gold discovery<sup>1</sup>.
- Along strike (3.5km) from Erlistoun 320koz @ 1.9 g/t Au<sup>1</sup>.
- Q4 2021 confirmed two mineralized trends and included 8m @ 6.7g/t Au incl. 4m @ 12.5g/t Au<sup>2</sup>.

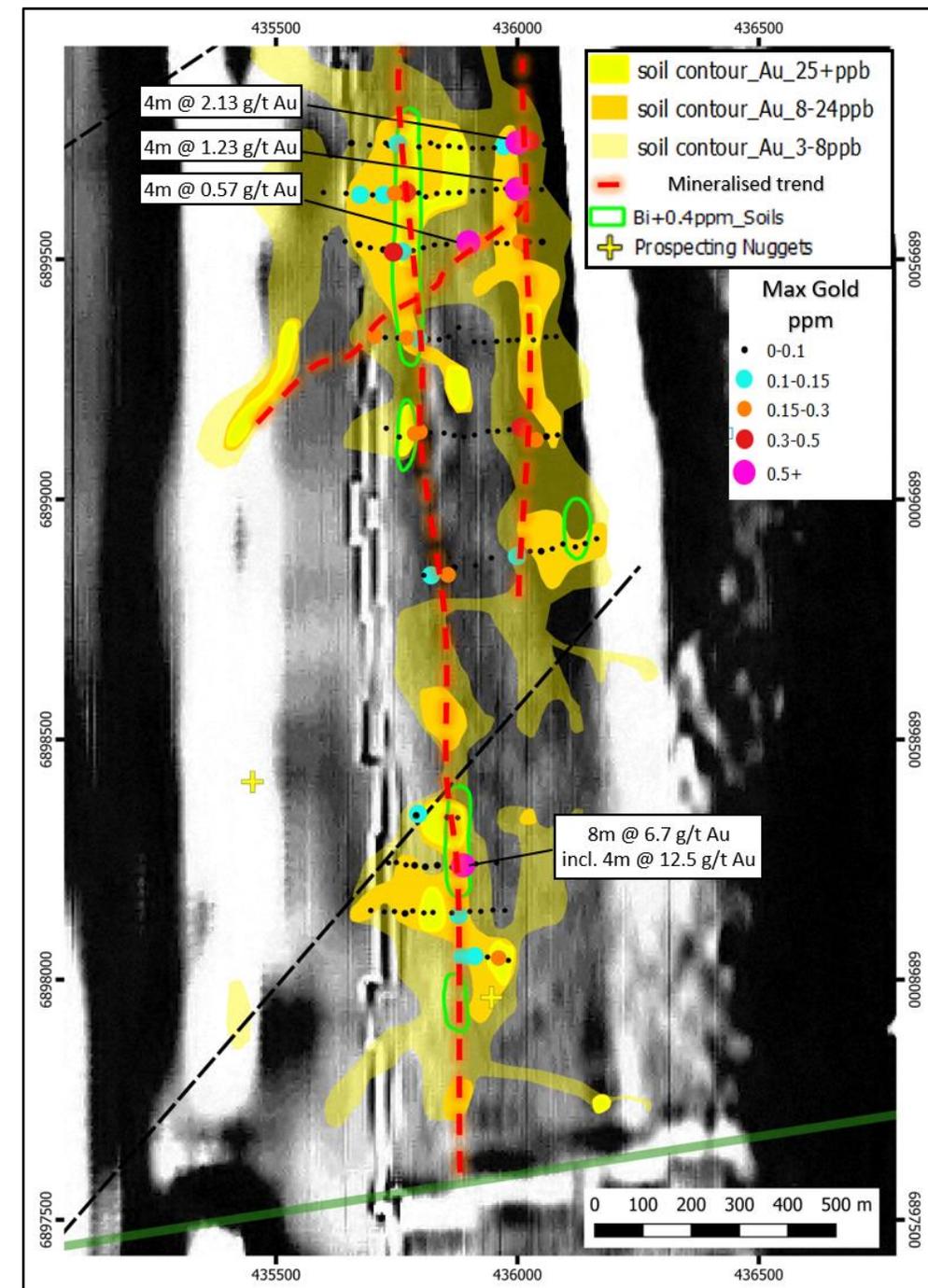
<sup>1</sup>Source: ASX:RRL Announcements 8/3/11, 18/1/11

<sup>2</sup>Refer ASX:GSN Announcement 17/1/22



# Amy Clarke - Next Steps

- Soil data and mineralisation to date suggests a high grade quartz vein lode style deposit similar to the Regis Resources Erlistoun deposit.
- Field validation and mapping of the recent high-grade intersections to the south to be undertaken.
- Bottom of hole, multielement data being evaluated.
- Standout intersection of 8m @ 6.7g/t Au<sup>1</sup> is significant. Occurred at 32m-40m downhole within fresh rock, below the weathered zone.
- Follow-up, close spaced drill program has been recommended and is being designed.



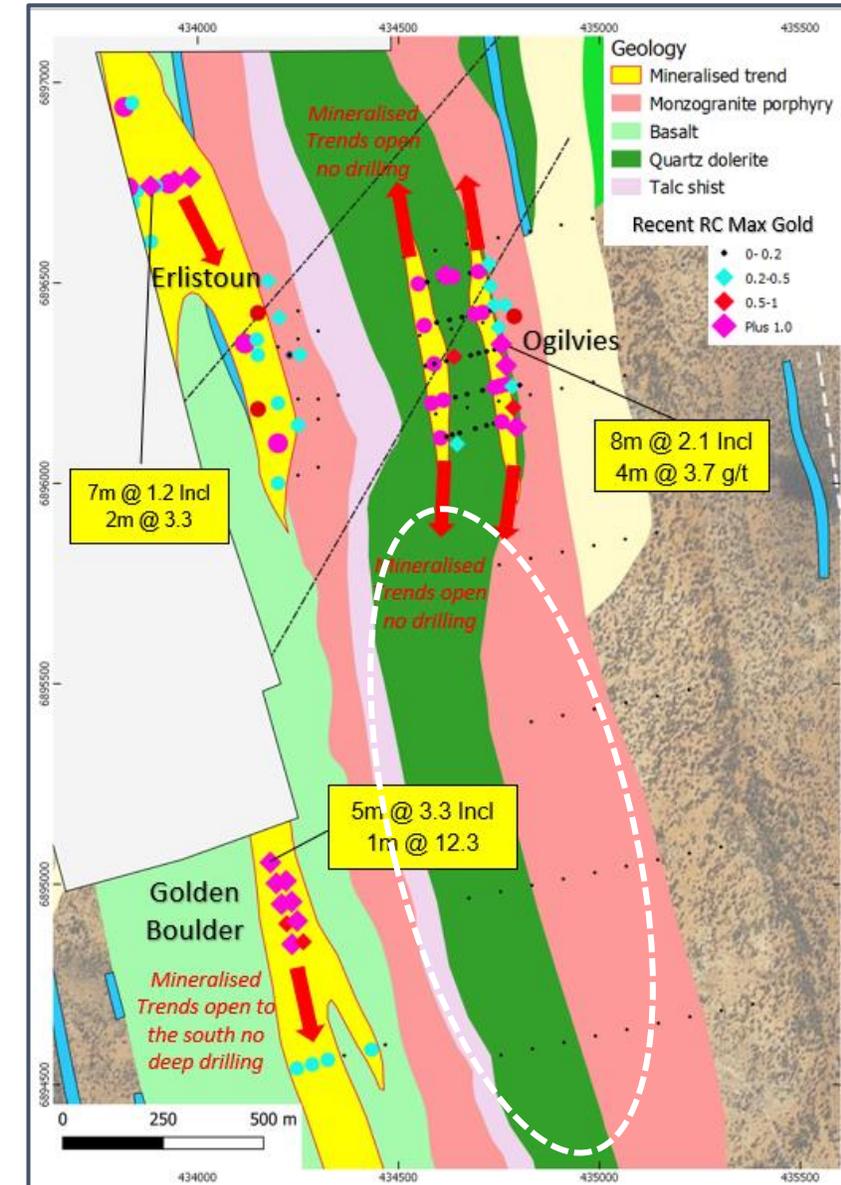
# Duketon Gold Project: Regional Targets



- 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.

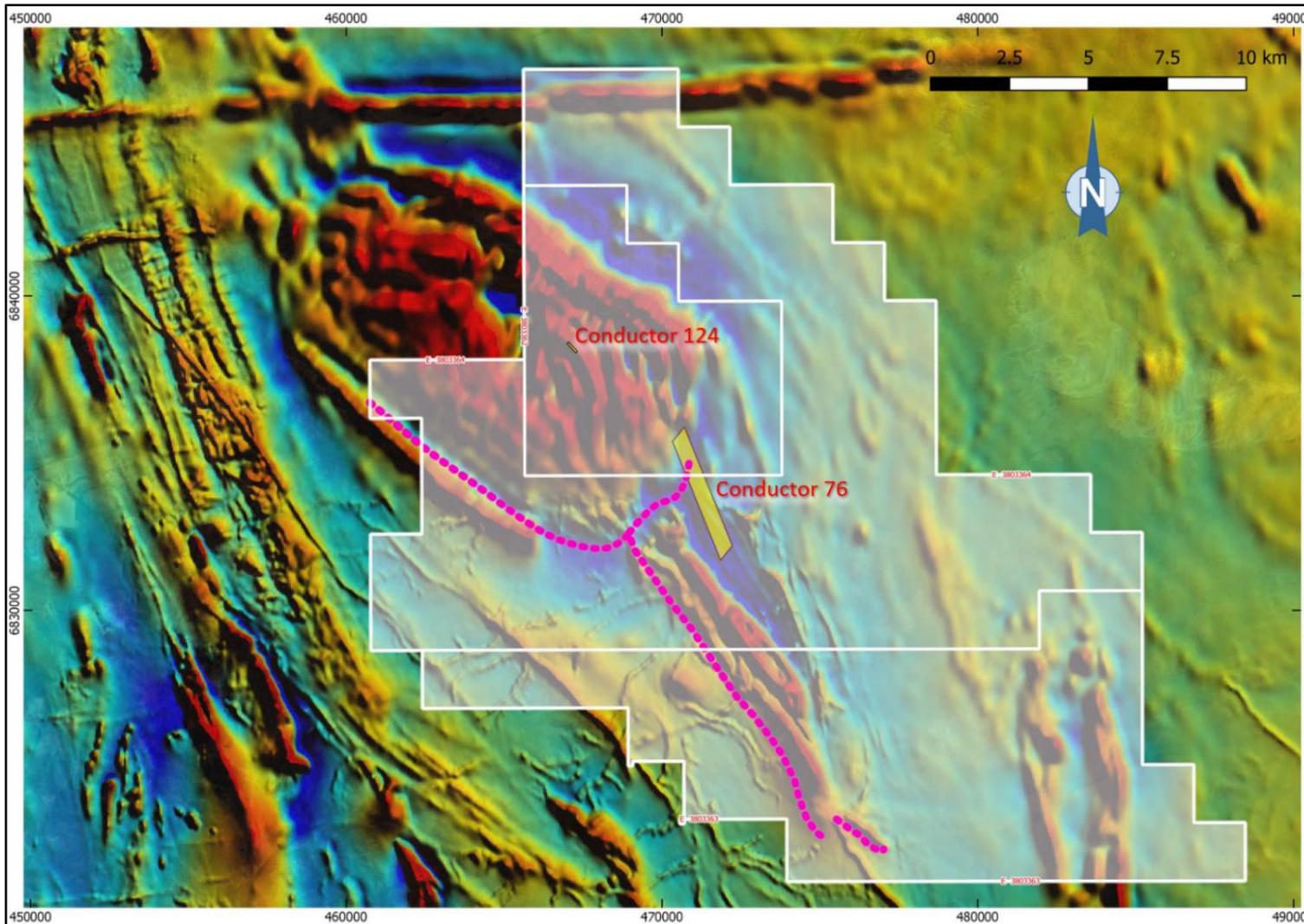
## Next Steps

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

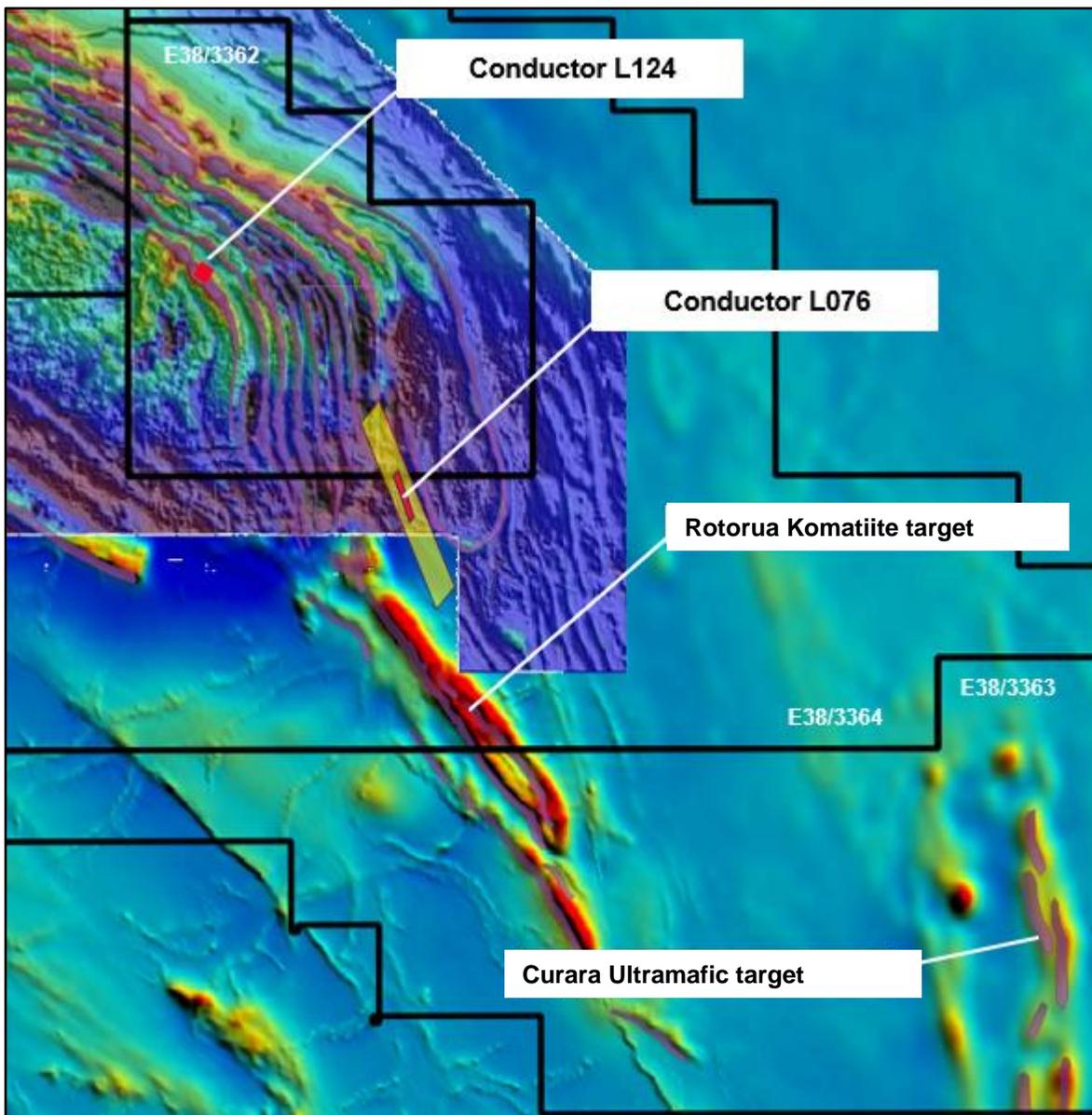


Diorite Hill Magmatic complex (red oval magnetic response), highlighting newly identified conductors overlaid with GSWA magnetics and interpreted basal contact.

- 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.

<sup>1</sup> - Refer ASX announcement 9/3/22

# East Laverton Nickel Project - Next Steps



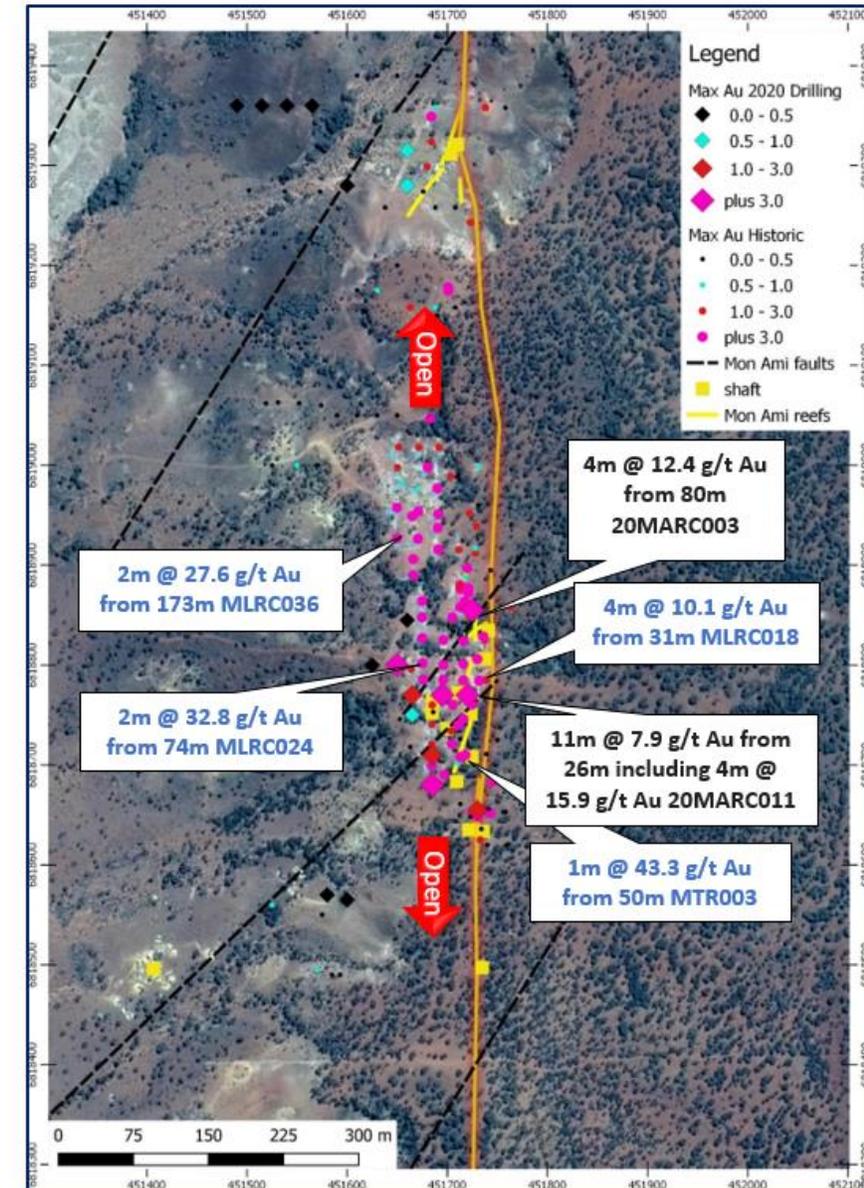
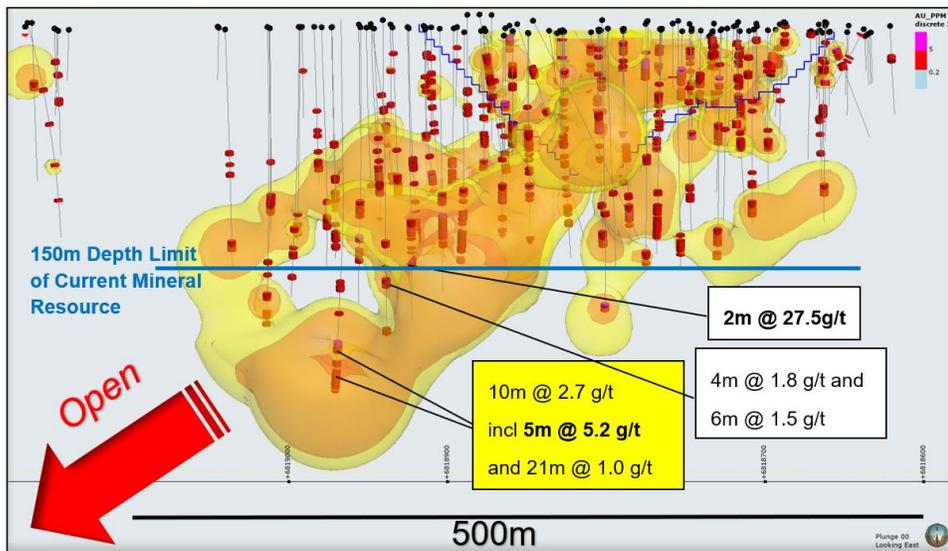
- Drill program has been designed by Newexco Exploration.
  - ❖ ~600m RC with diamond tail hole designed to intersect the large conductor (L076); and
  - ❖ ~500m RC hole designed to test the shallower conductor (L124).
- Company has engaged nickel expert, Dr Jon Hronsky<sup>1</sup>, for a review of the Project.
- Heritage clearance received with drill rig to commence program later in April 2022 following site clearance.
- A planned EM survey over the Rotorua complex in conjunction with Newexco will be undertaken.

<sup>1</sup> - Refer ASX announcement 9/3/22

# 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

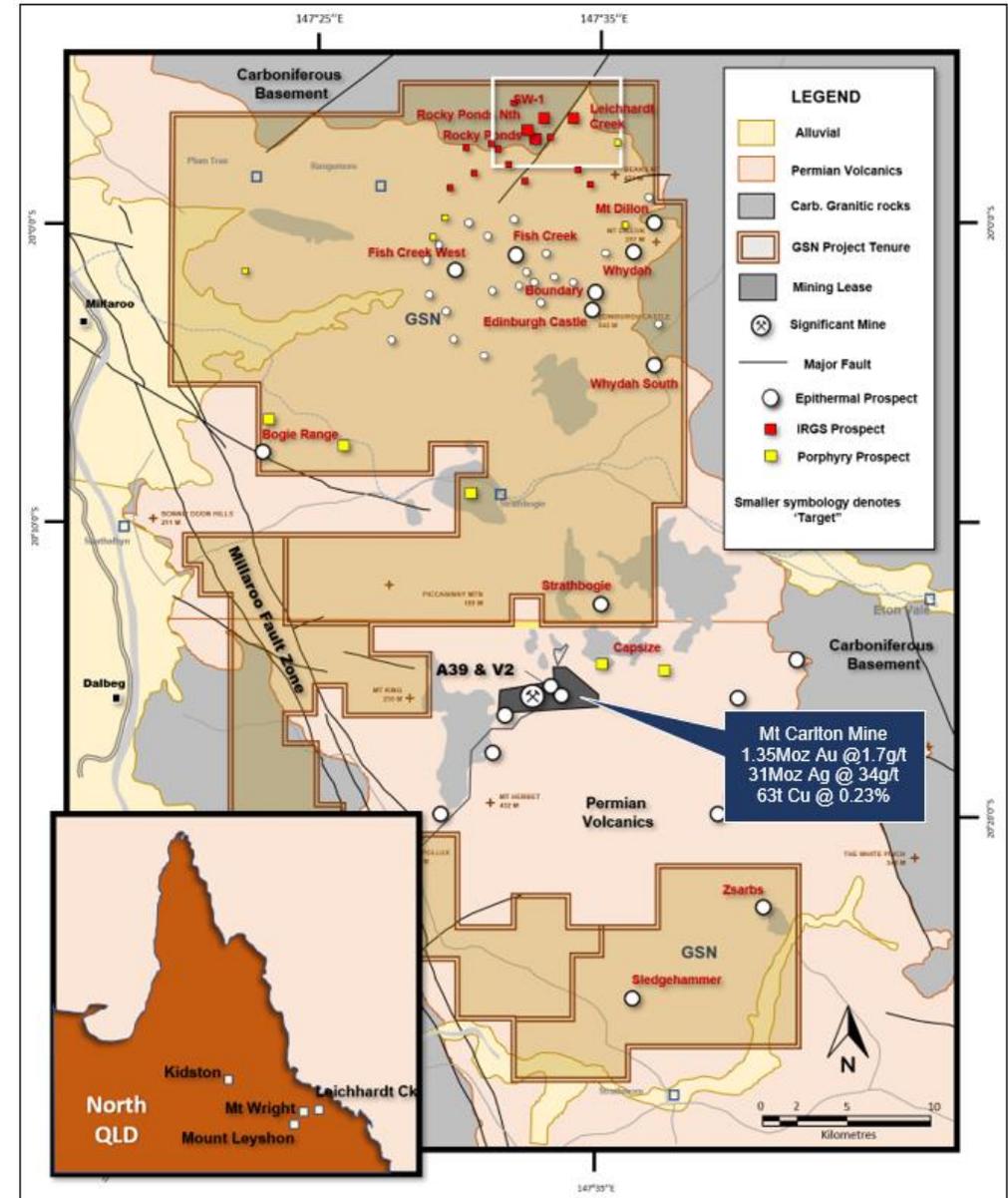
<sup>2</sup>Refer to ASX Announcement 25/1/19 for the Mon Ami Metallurgy Results

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

# QLD: Edinburgh Park Project



- >1,000km<sup>2</sup> surrounding 1.7Moz Au Eq Mt Carlton Mine.
- Potential for very large IRGS and HS gold deposits.
- 19 targets identified from hyperspectral survey.
- Full-time GSN team on the ground.
- Working up drill targets for 2022 at:
  - Leichhardt Creek
  - Fish Creek
  - Edinburgh Castle
  - Molongle
  - Mt Dillion



# Why GSN?

- ✓ Strategic landholdings in Tier 1 Australian mining districts.
- ✓ Genuine potential for major gold, copper, silver and nickel 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.

# Contact

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Executive Chairman

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BALCATTWA WA 6021

# 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,, 21/7/21, 21/9/21, 5/10/21, 11/10/21, 13/12/21, 17/1/22, 9/3/22, 31/3/22. 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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