



**Finding the copper the world needs for a low-carbon future**

**The Stavelly Copper-Gold Project**

Dawn of a new world-class copper-gold province in Western Victoria

RIU Resurgence Conference – December 2021



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# A Modern Australian Copper-Gold Growth Company



- **First-mover position** – largest and most strategic tenement holding in the Stavely Volcanic Belt, western Victoria
- **A committed explorer** – focused on making transformational mineral discoveries since \$6m IPO in 2014
- **Discovery**– outstanding shallow high-grade copper-gold-silver discovery (September 2019), the Cayley Lode
- **Resource drill-out underway** – targeting maiden JORC Resource– access to southern paddock agreed from 1 December, 4 rigs mobilising
- **New style of mineralisation** – Magma/Butte copper lode-style system, never before seen in Australia
- **Multiple discovery opportunities** – potential to become a new copper province as additional mineralised prospects are tested
- **Well-funded** – \$11.1m in cash (September 2021)



# Corporate Summary



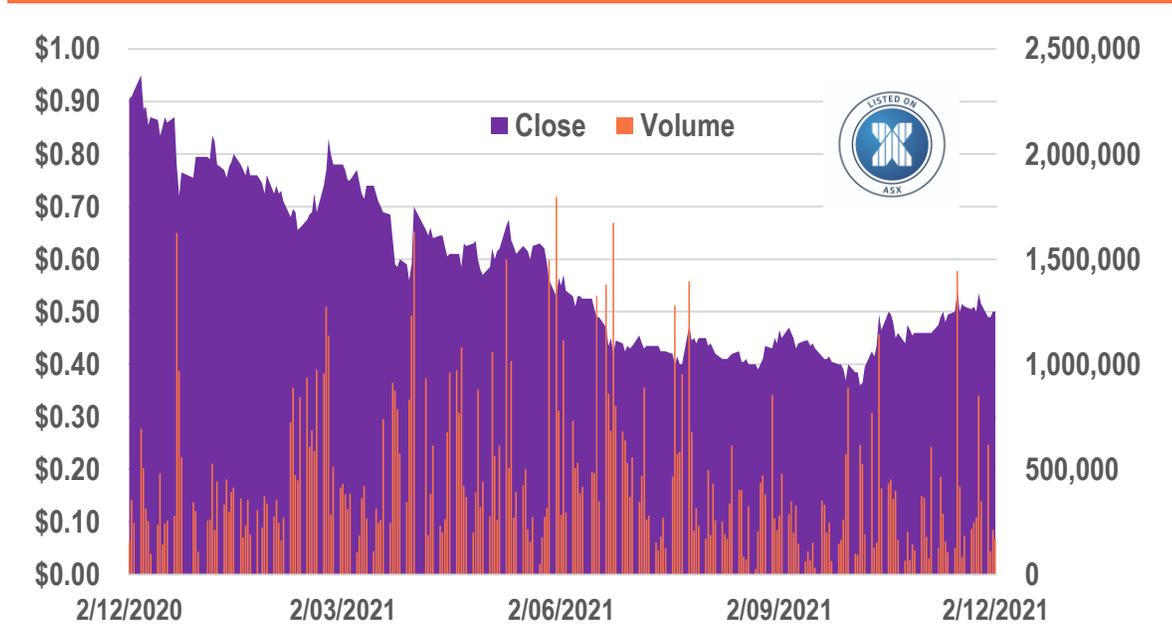
## CAPITAL STRUCTURE

ASX Ticker	SVY
Share Price (2/12/21)	\$0.50
Shares on Issue	261M
Cash (30/09/21)	\$11.1M
Market Capitalisation	\$131M
Management and Staff	~20% equity

## Directors

Chris Cairns	Executive Chairman
Jennifer Murphy	Technical Director
Peter Ironside	Non-Executive Director
Amanda Sparks	Non-Executive Director & Company Secretary
Rob Dennis	Non-Executive Director

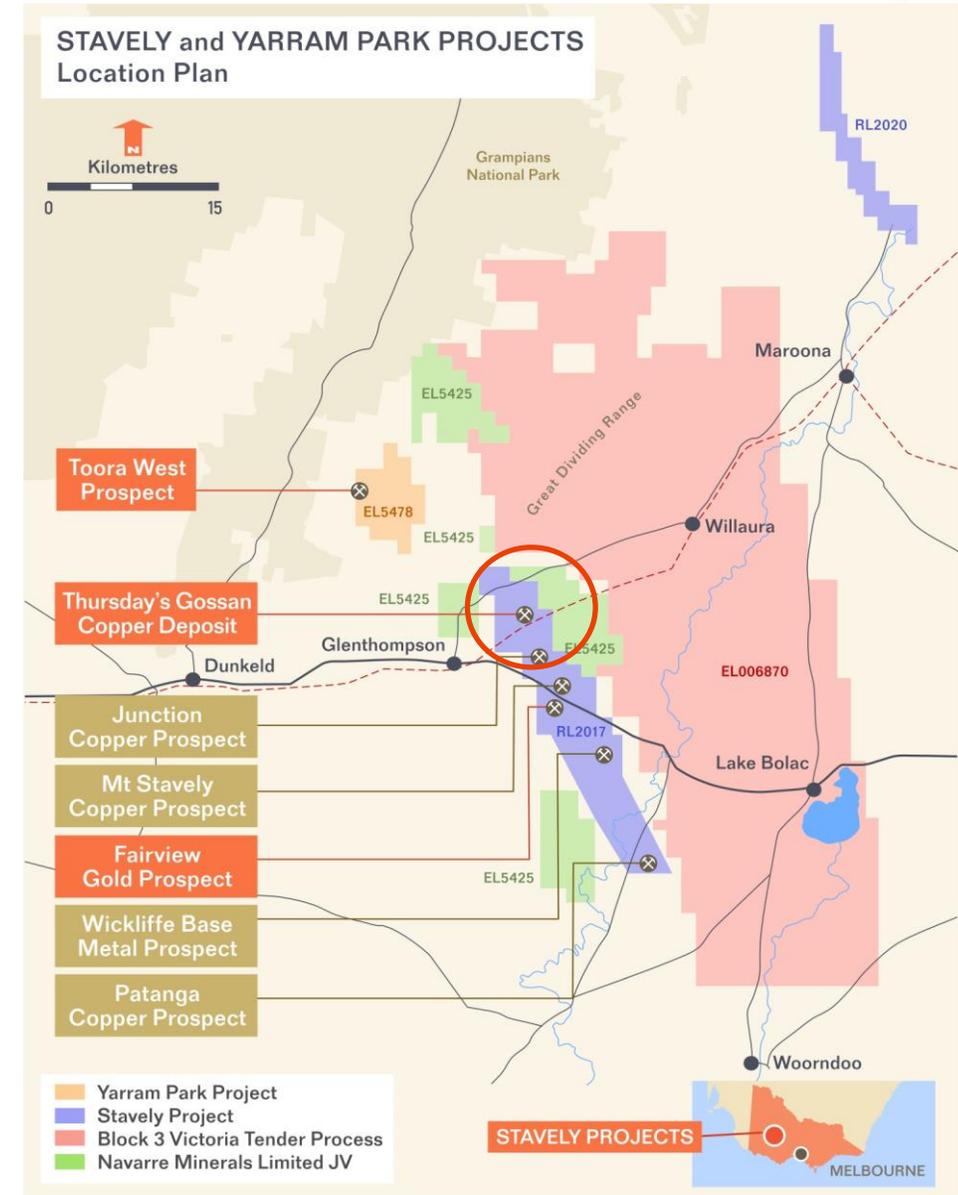
## 12-month Share Price to 2 December 2021



# First-Mover Position in Victoria's Stavelly Arc



- Two cornerstone assets – 100%-owned **Stavelly** and **Ararat** Projects
- **1,461km<sup>2</sup> ground position** in Australia's new exploration hot-spot of western Victoria (Kirkland Lake – Fosterville)
- Majority of exploration since 2014 focused on Thursday's Gossan, targeting a **Tier-1, Cadia-style copper-gold** porphyry system



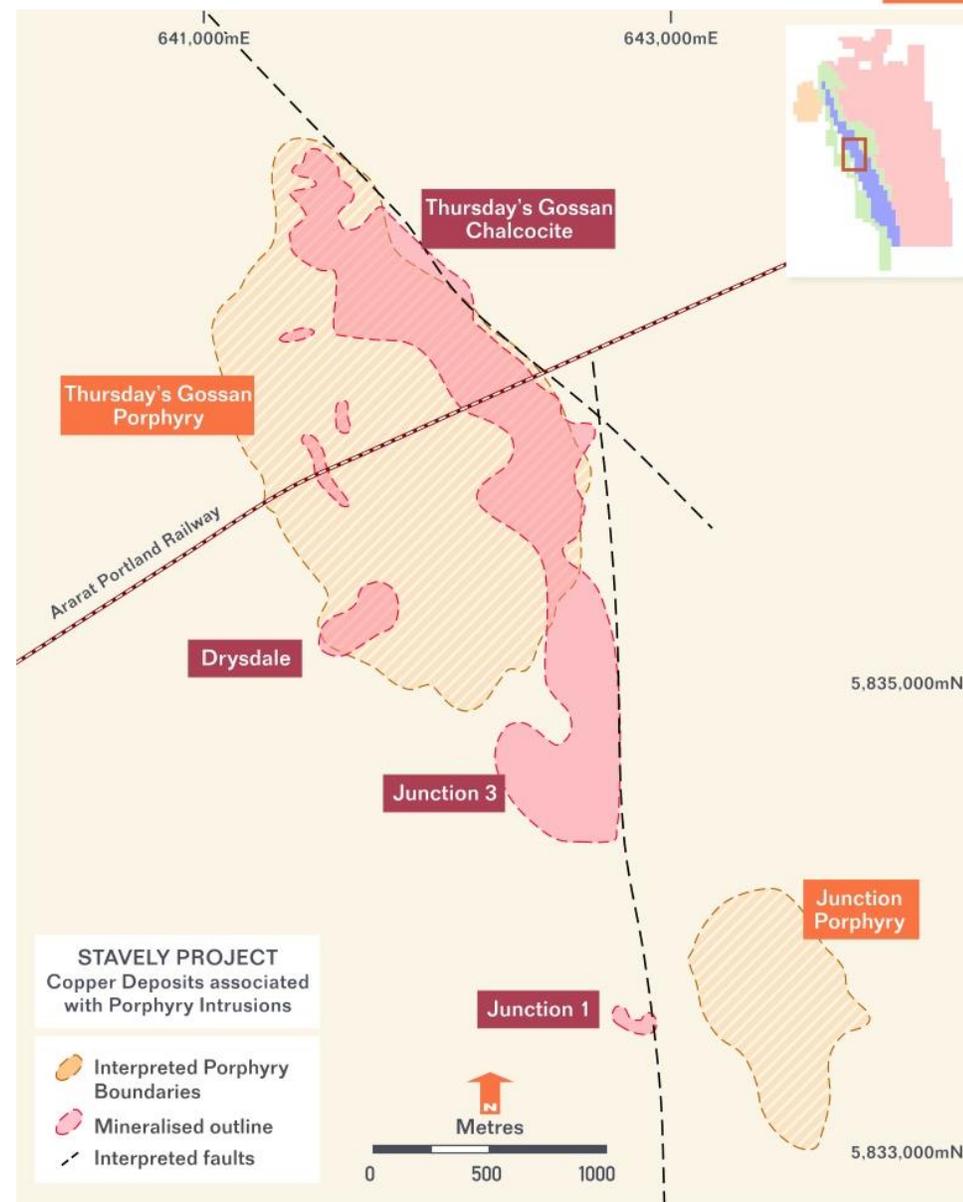
# Stavely Copper-Gold Project – Thursday's Gossan



- Thursday's Gossan includes an extensive chalcocite-enriched blanket occurring 30m to 80m below surface
- Inferred Mineral Resource of **28Mt at 0.4% copper<sup>1</sup>** for 110kt of contained copper
- Developed as the surface expression of high-grade lode-style copper veins
- A large portion of the chalcocite-enriched blanket is likely to be 'captured' by an open pit optimisation
- Huge exposure to copper price upside

**We always knew there was plenty of shallow copper at Thursday's Gossan. But we were looking for a porphyry at depth....**

<sup>1</sup> reported in compliance with JORC 2012, see ASX announcement 8 September 2015, subsequent Annual Reports and available from [www.stavely.com.au](http://www.stavely.com.au)

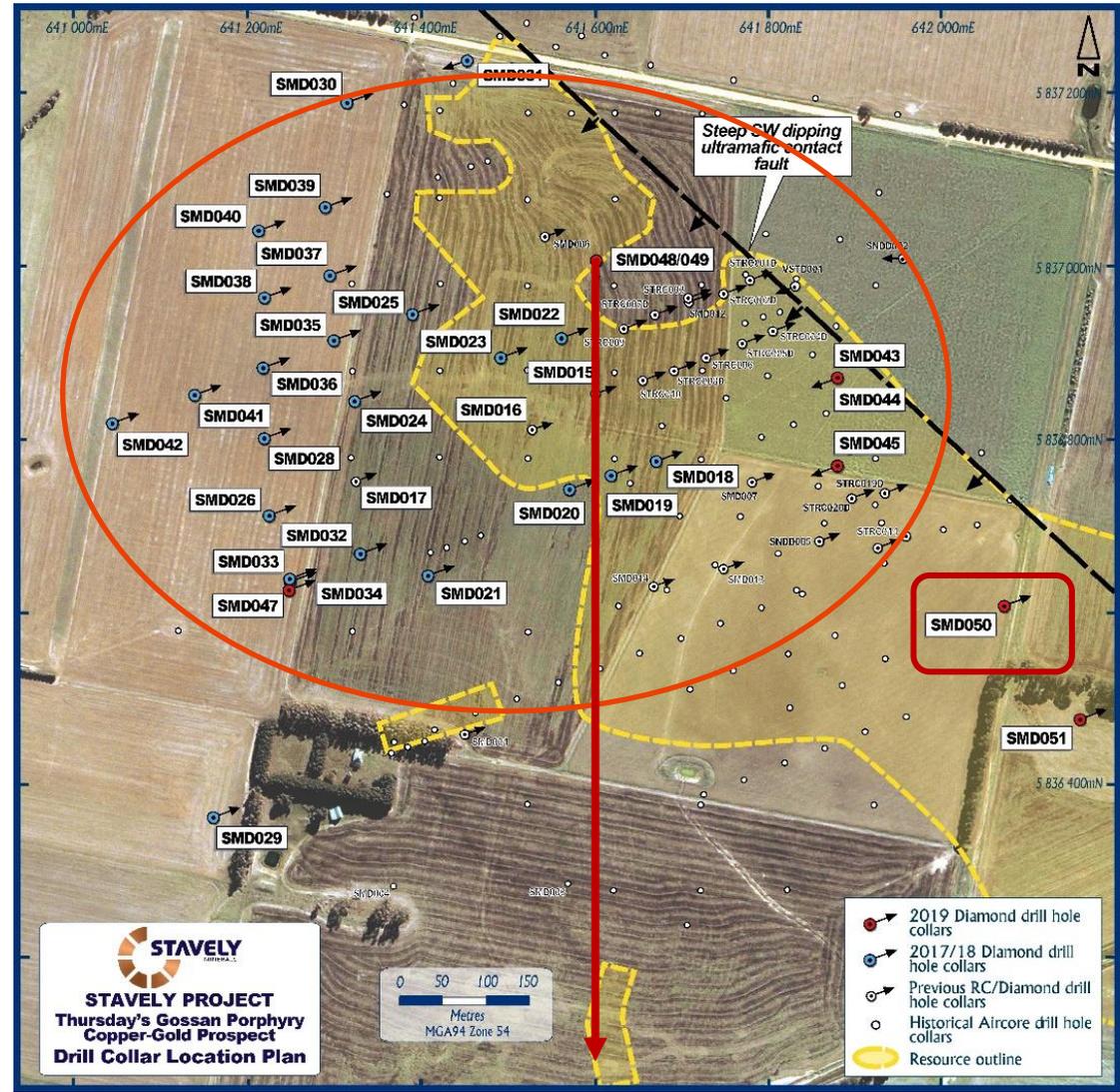


# Thursday's Gossan – The Story So Far



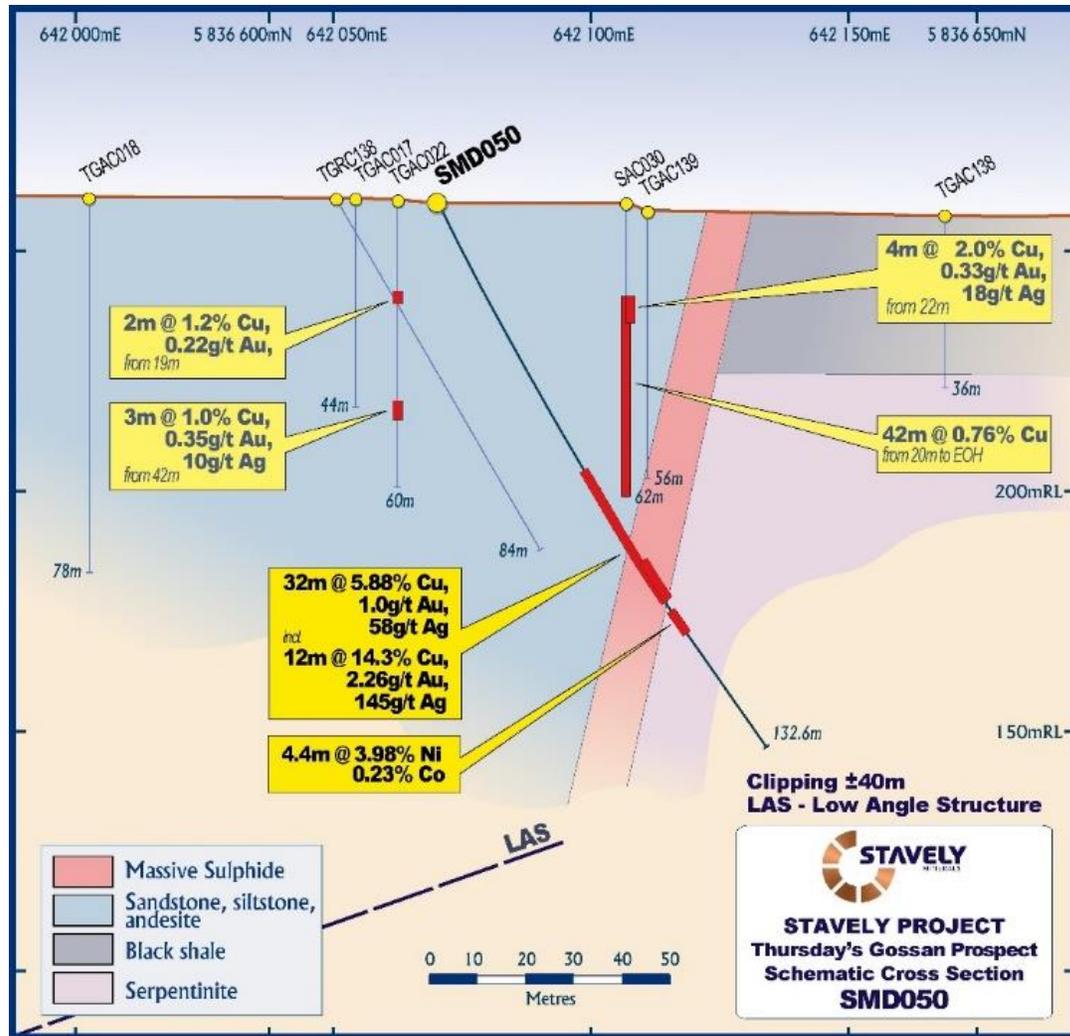
- 49 diamond drill-holes completed to depths of up to 1.8km targeting the elusive “core” of the porphyry system
- Strong indications of proximity to a buried porphyry with significant encouragement from assays, petrology and geochemistry
- **Significant breakthrough in September 2019** following decision to target a shallow, structurally controlled target along the steeply-dipping Ultramafic Contact Fault

**Hole SMD050 was a game changer**



See ASX announcement 26/09/2019 and available from [www.stavely.com.au](http://www.stavely.com.au)

# Discovery Breakthrough – Hole SMD050



## SMD050

- **32m at 5.88% copper, 1.00g/t gold and 58g/t silver**, from 62m drill depth, including:
  - *12m at 14.3% copper, 2.26g/t gold and 145g/t silver from 82m, including:*
  - *2m at 40% copper, 3.00g/t gold and 517g/t silver*
- Surprisingly, SMD050 also intersected:
  - *4.4m at 3.98% nickel, 0.23% cobalt and >1% chrome*

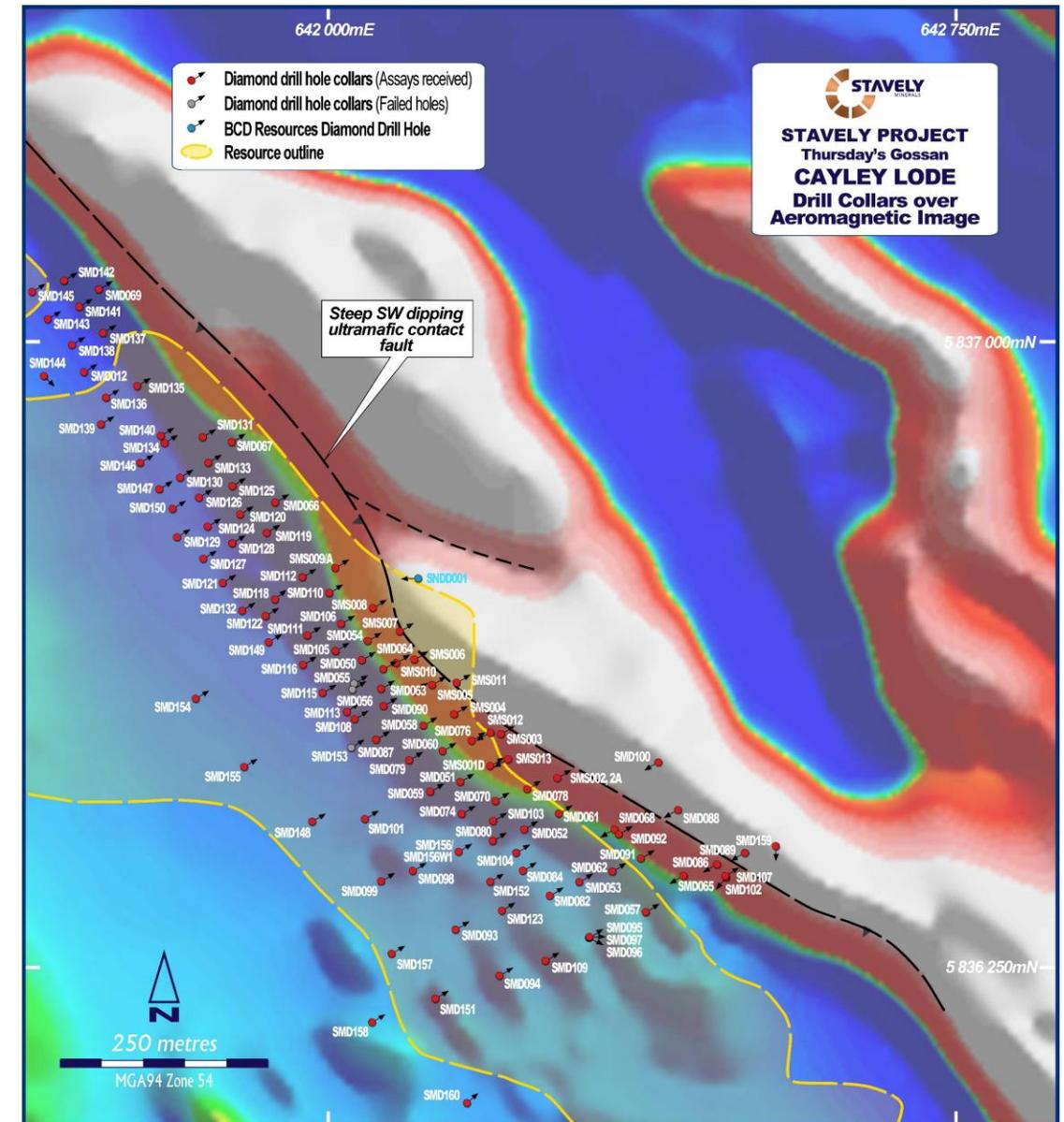


See ASX announcement 26/09/2019 and available from [www.stavely.com.au](http://www.stavely.com.au)

# Cayley Lode Discovery – Shallow, High-Grade Mineralisation



- Magma / Butte copper lode-style system – outstanding exploration target never before seen in Australia
- Mineralisation so far defined over ~1.5 km strike length to ~300m depth, averaging 10-50m thickness
- Resource drilling underway on ~40m X 40m drill pattern
- Mineralisation remains open along strike and down-dip
- Access to the southern paddock agreed for 1 December commencement with 4 x rigs
- Maiden Mineral Resource expected early Q2 2022
- Scoping Study completion Q2 2022



# Cayley Lode Discovery – Shallow, High-Grade Mineralisation



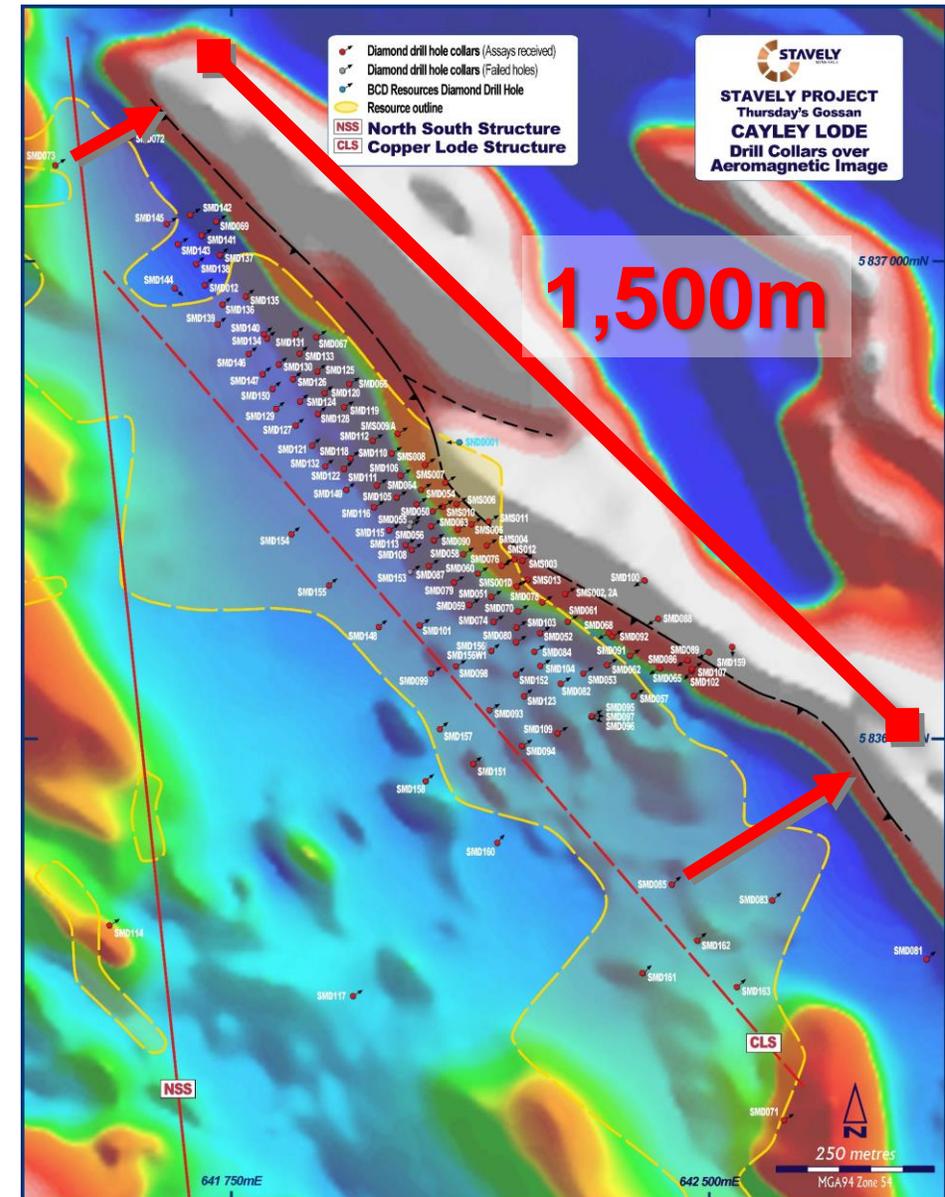
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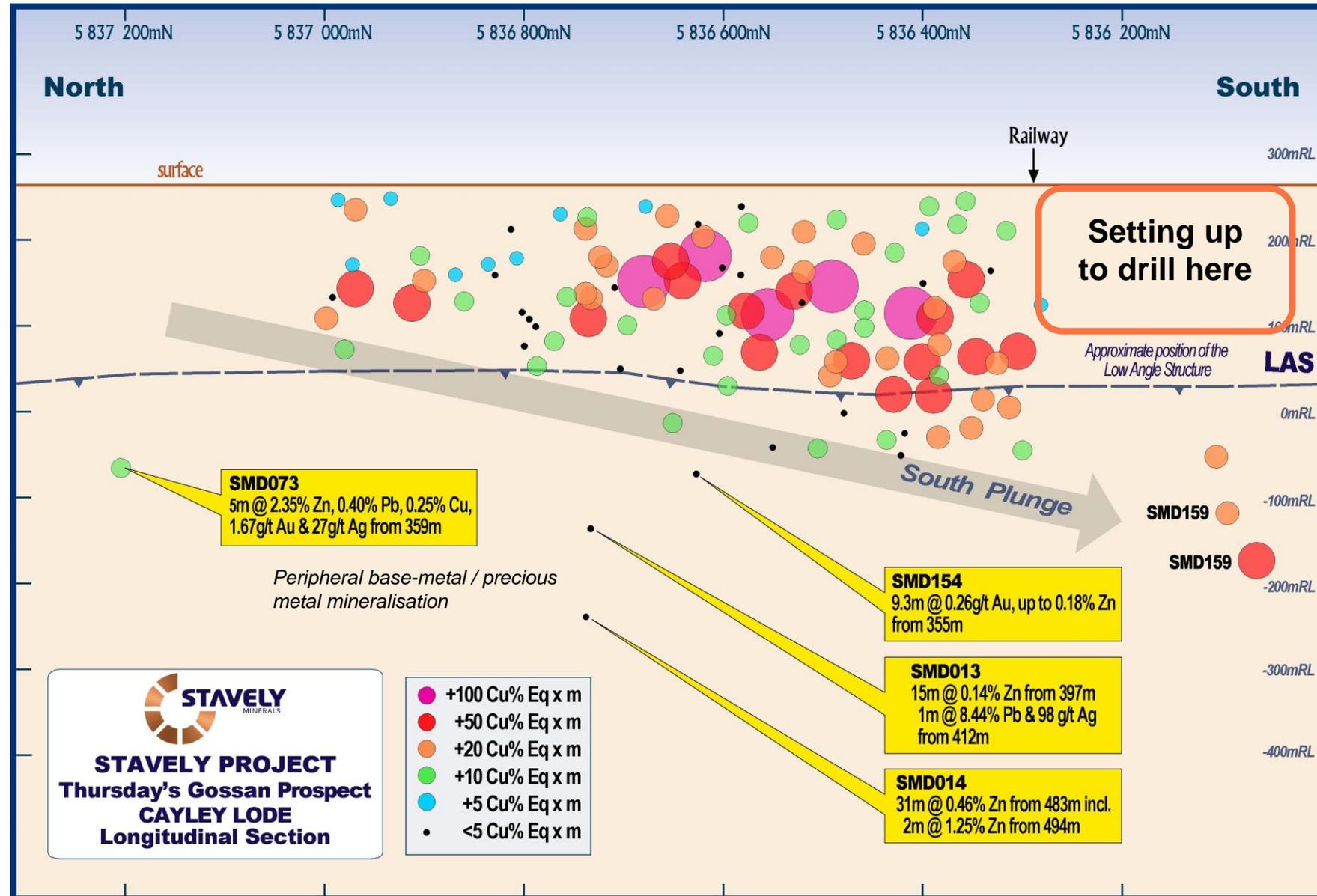
# Cayley Lode Discovery – Shallow, High-Grade Mineralisation



- SMD073 – 5m at 2.35% Zinc, 0.4% Lead, 0.25% Copper, 1.67g/t Gold and 27g/t Silver – typical peripheral Magma-style intercept
- SMD085 – 23m at 1.07% Copper, 0.11g/t Gold
- ~1,500m of mineralisation strike extent and remains open



# Cayley Lode Discovery – Resource Drilling Long Section



**STAVELY MINERALS**

**STAVELY PROJECT**  
 Thursday's Gossan Prospect  
**CAYLEY LODGE**  
 Longitudinal Section

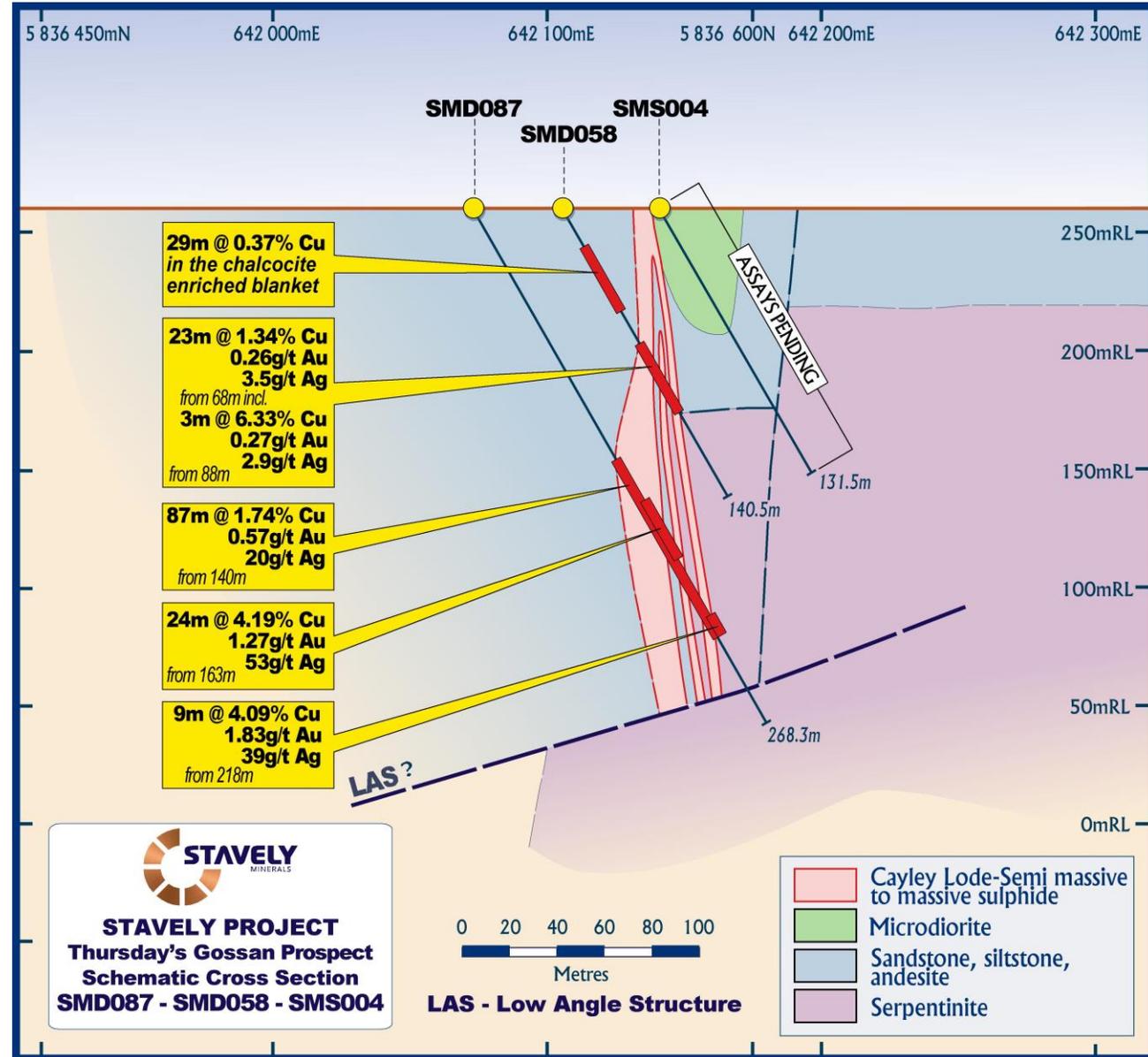
# Cayley Lode Discovery – Amenable to Open Pit and UG



## SMD087

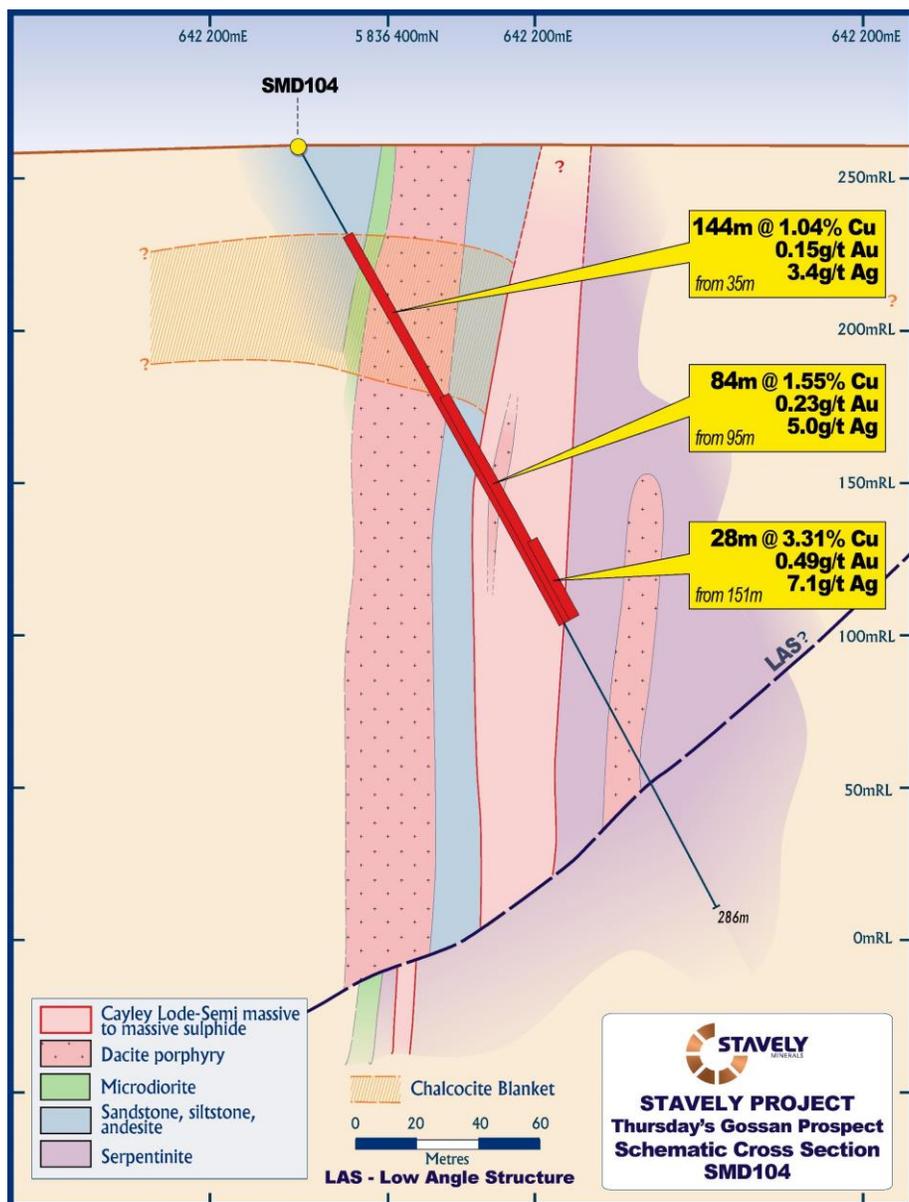
- 87m @ 1.74% Cu, 0.57g/t Au and 20g/t Ag, incl.
- 24m @ 4.19% Cu, 1.27g/t Au and 53g/t Ag, and
- 9m @ 4.09% Cu, 1.83g/t Au and 39g/t Ag

Typical of most Cayley Lode intercepts:  
 – a large intercept amenable to open pit bulk mining, and  
 - multiple discrete higher-grade intervals providing a ‘sweet spot’ of focus for underground mining



See ASX announcement 15/06/2020 and 14/07/2020 and available from [www.stavely.com.au](http://www.stavely.com.au)

# Cayley Lode Discovery – Recent Big Intercepts

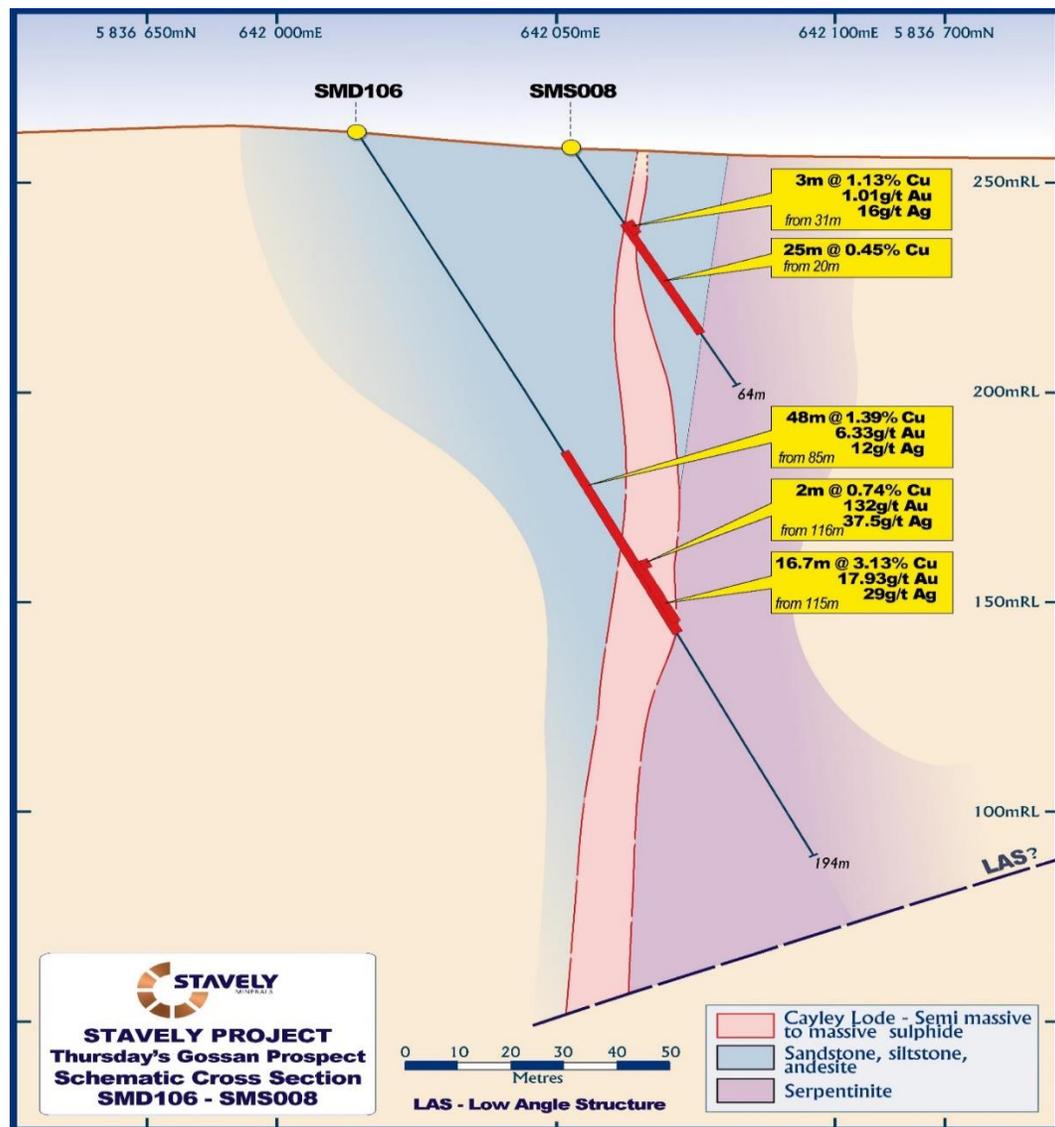


## SMD104

- **144m at 1.04% copper, 0.15g/t gold and 3.4g/t silver**, from 35m drill depth, including:
  - **84m at 1.55% copper, 0.23g/t gold and 5g/t silver** from 95m, including:
    - **28m at 3.31% copper, 0.49g/t gold and 7.1g/t silver**

See ASX announcement 28/10/2020 and available from [www.stavely.com.au](http://www.stavely.com.au)

# Cayley Lode Discovery – Recent Big Intercepts

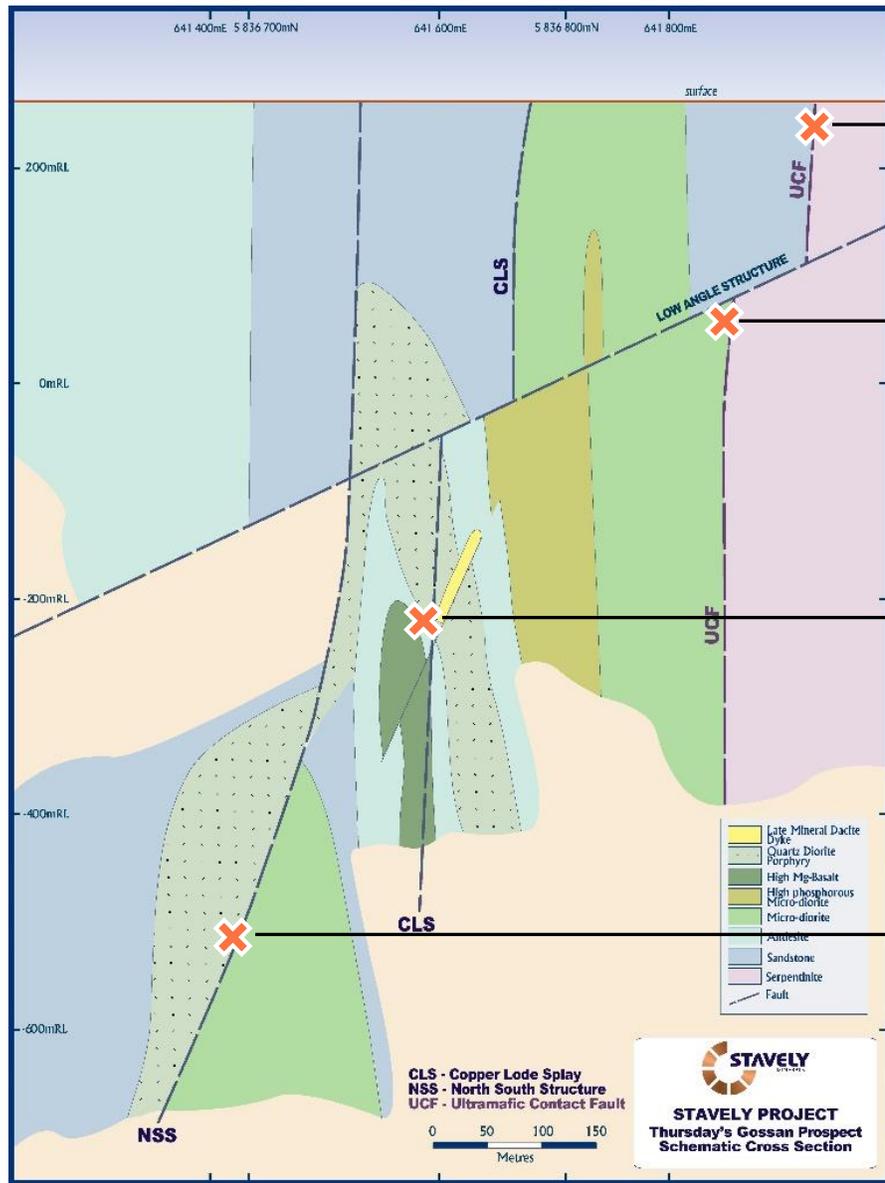


## SMD106

- 48m at 1.39% copper, 6.33g/t gold and 12g/t silver, from 85m drill depth, including:
  - 16.7m at 3.13% copper, 17.93g/t gold and 29g/t silver from 115m, including:
    - 2m at 0.74% copper, 132g/t gold and 38g/t silver from 116m, and
  - 0.9m at 21.10% copper, 17.45g/t gold and 232g/t silver from 130.8m

See ASX announcement 02/11/2020 and available from [www.stavelly.com.au](http://www.stavelly.com.au)

# Vertically Extensive – With Multiple Discovery Opportunities



**SMD050: 32m at 5.88% copper, 1.00g/t gold and 58g/t silver, from 62m drill depth on the UCF**

**SMD059: 18m at 1.00% copper, 0.1g/t gold and 3g/t silver, from 235m drill depth on the UCF underneath the LAS**

**SMD032: 6m at 6.73% copper, 0.84g/t gold and 15g/t silver, from 538m drill depth on the CLS**

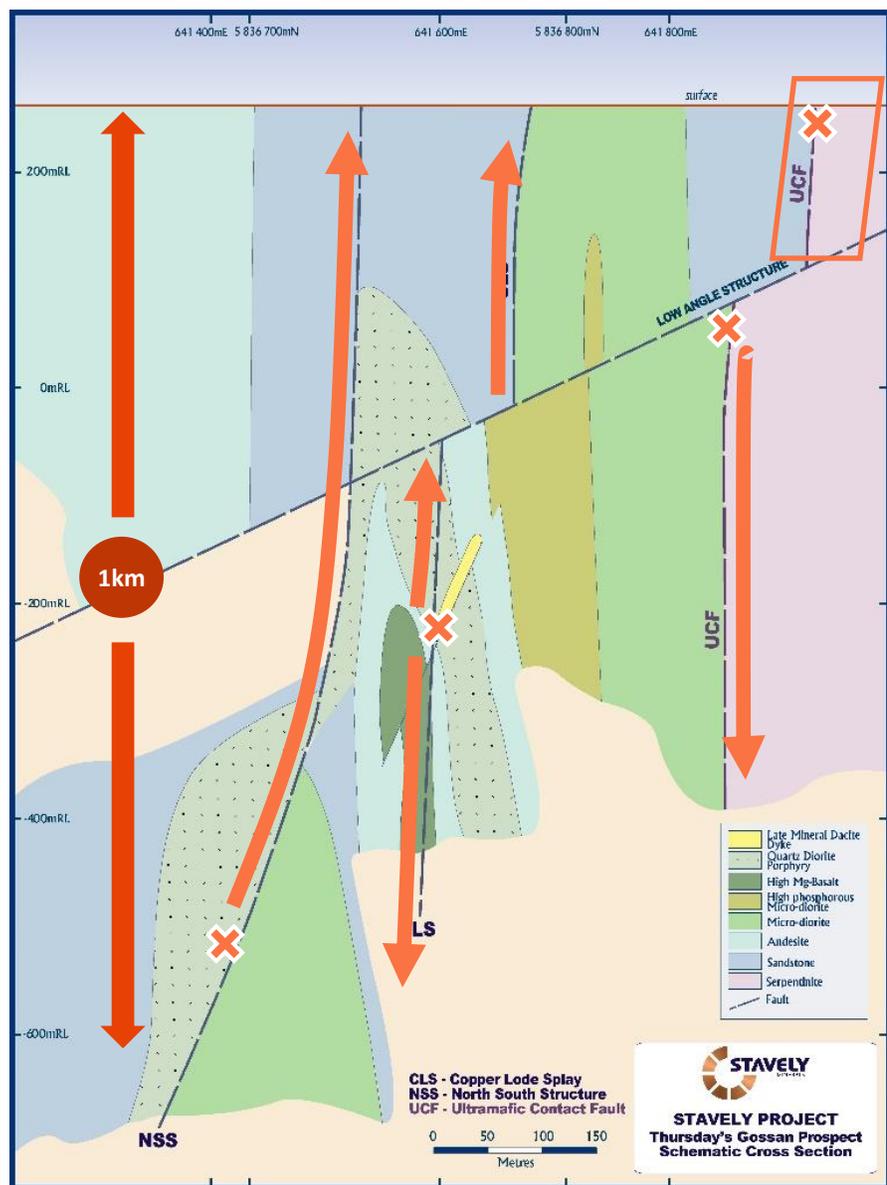
**SMD044: 10m at 2.43% copper, 0.30g/t gold and 11g/t silver, from 583m drill depth on the CLS**

**SMD044: 38.3m at 1.59% copper, 0.27g/t gold and 8g/t silver, from 890m drill depth on the NSS**

**SMD044W1: 18m at 3.62% copper, 0.28g/t gold and 15g/t silver, from 848m drill depth on the NSS**

See ASX announcements 17/12/2019, 26/09/2019, 23/04/2019, 12/03/2019, 18/12/2018 and available from [www.stavelly.com.au](http://www.stavelly.com.au)

# Current Programs – Systematic Exploration Approach

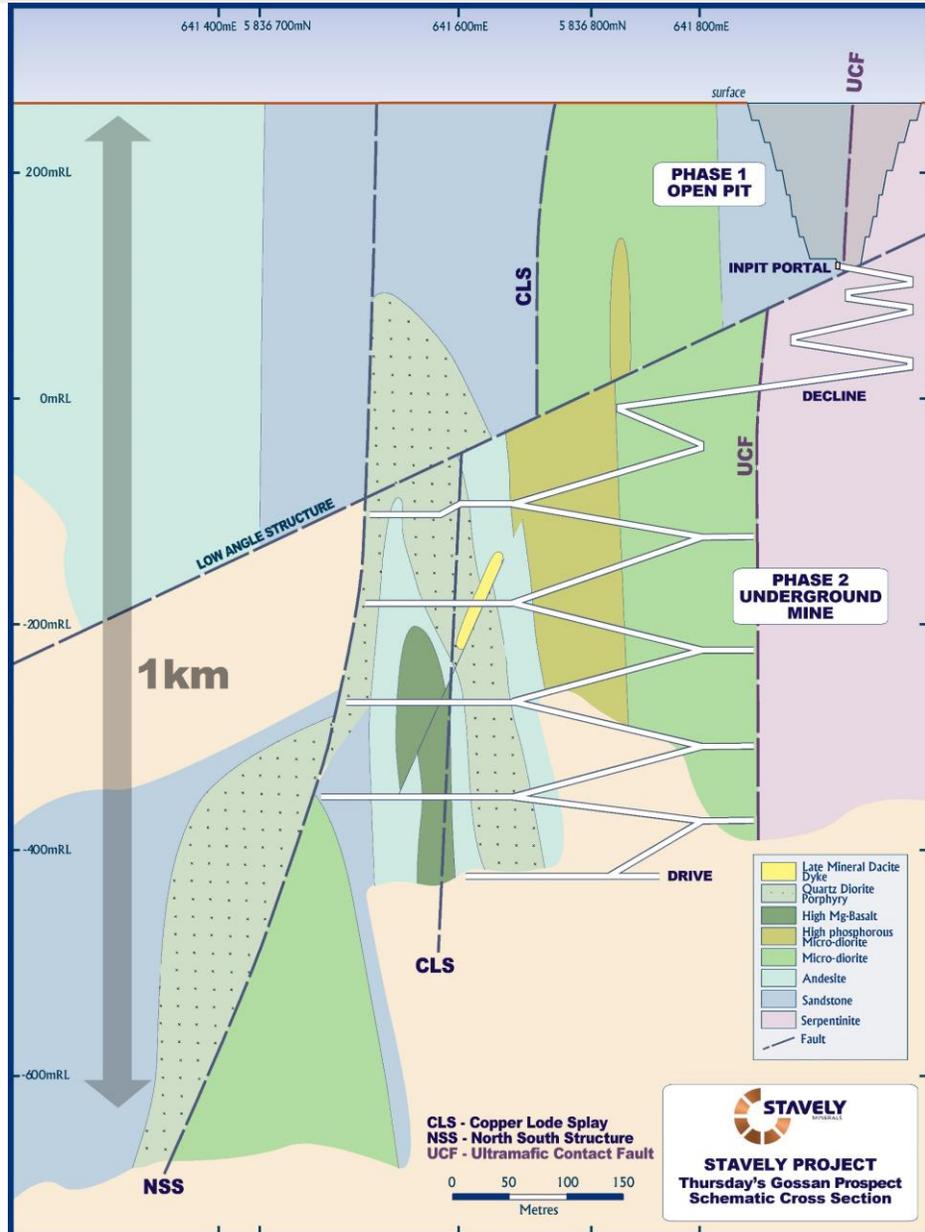


1. Complete shallow Resource drill-out on Ultramafic Contact Fault (Cayley Lode)
2. Continue to define mineralisation on the Ultramafic Contact Fault below the Low Angle Structure
3. Bring mineralisation in the Copper Lode Splay closer to surface
4. Extend the Copper Lode Splay at depth
5. Bring mineralisation in the North-South Structure closer to surface
6. Test regional targets



Big Bang opportunity – find the porphyry, it's still out there!

# Current Programs – How do we see this as a possible development?



1. A Phase-1 open pit based on high-grade structurally-controlled mineralisation drives an open pit that also captures a significant proportion of the 28Mt at 0.4% copper secondary chalcocite-enriched blanket
2. A Phase-2 underground is developed from the base of the Phase-1 open pit and spirals between mineralised lodes on either side of the decline
3. Additional lodes are accessed from existing infrastructure
4. If continuity of mineralisation is confirmed to depths in excess of 1km – and we have intercepted mineralisation at ~1,150m drill depth in SMD045W2\* – then at a vertical rate of mining advance of 50m-60m per year, we can envisage a multi-decade underground mine life after the Phase-1 open pit

\*See ASX announcement 18 June 2019 and available from [www.stavely.com.au](http://www.stavely.com.au)



- Complete Mineral Resource drill-out of shallow (0-200m) mineralisation of the Cayley Lode – this is the material that will be available to an open pit optimisation
- Commence Scoping Study on Phase 1 Open Pit Development
- Re-deploy drills to define the Cayley Lode at depth – this will lay the foundation for a Phase 2 underground
- Bring in parallel mineralised structures ie. the Copper Lode Splay – this could be accessed by the same underground infrastructure and may influence the Phase 1 Open Pit
- The objective is to demonstrate that a Phase 1 Open Pit underpins the development and the underground represents a multi-decade mine-life accessing multiple mineralised structures –
  - *lots of drilling to be done*
  - *Metallurgy and geotechnical studies in-progress, environmental and ground water monitoring in-progress*
  - *Modifying Factors yet to be applied in various stages of economic studies*
- Drill test regional targets



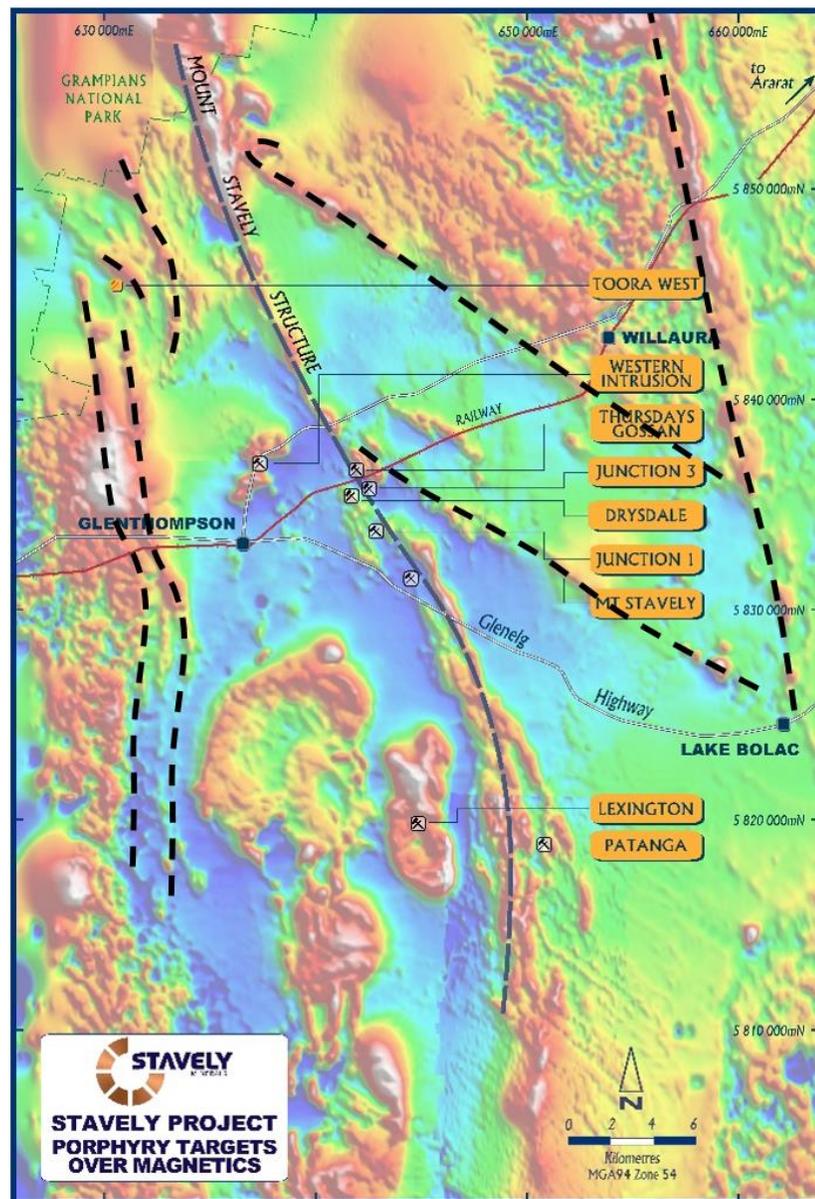
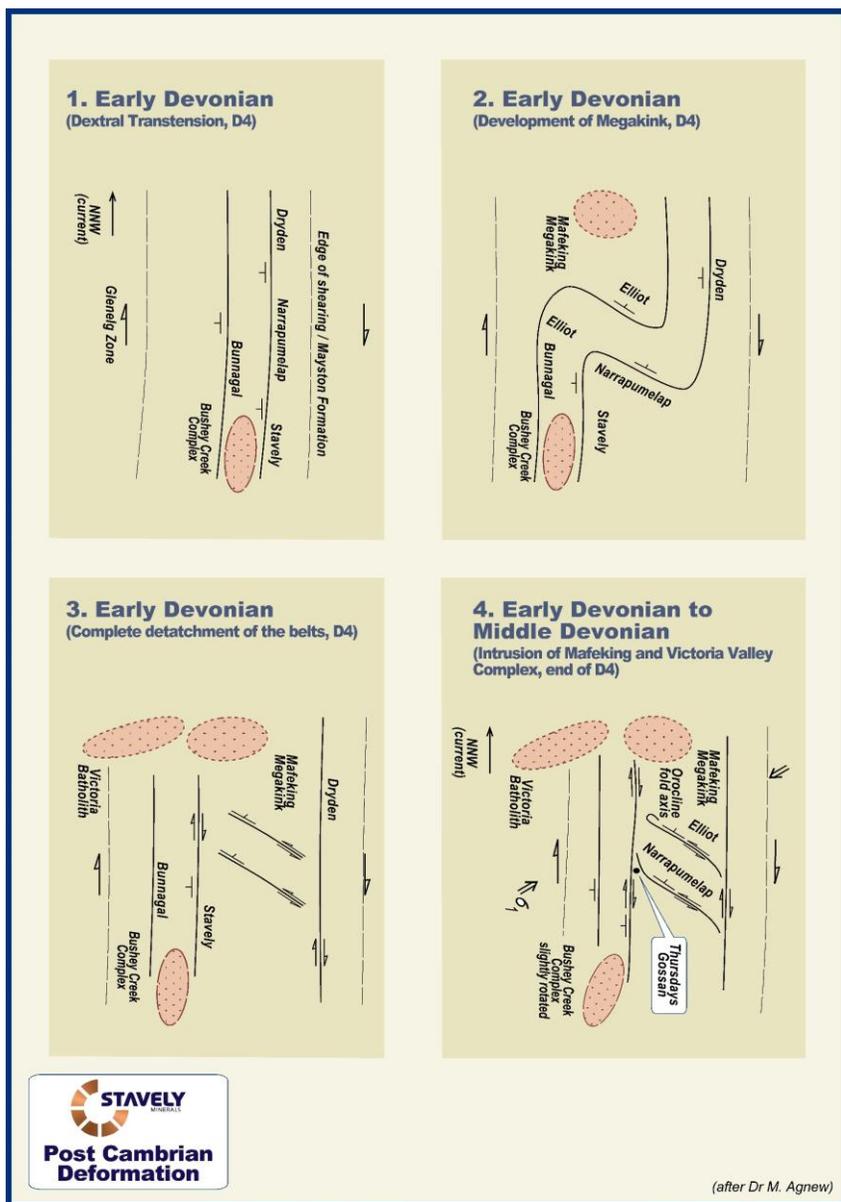
# STAVELY

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ASX Code: SVY

## REGIONAL EXPLORATION

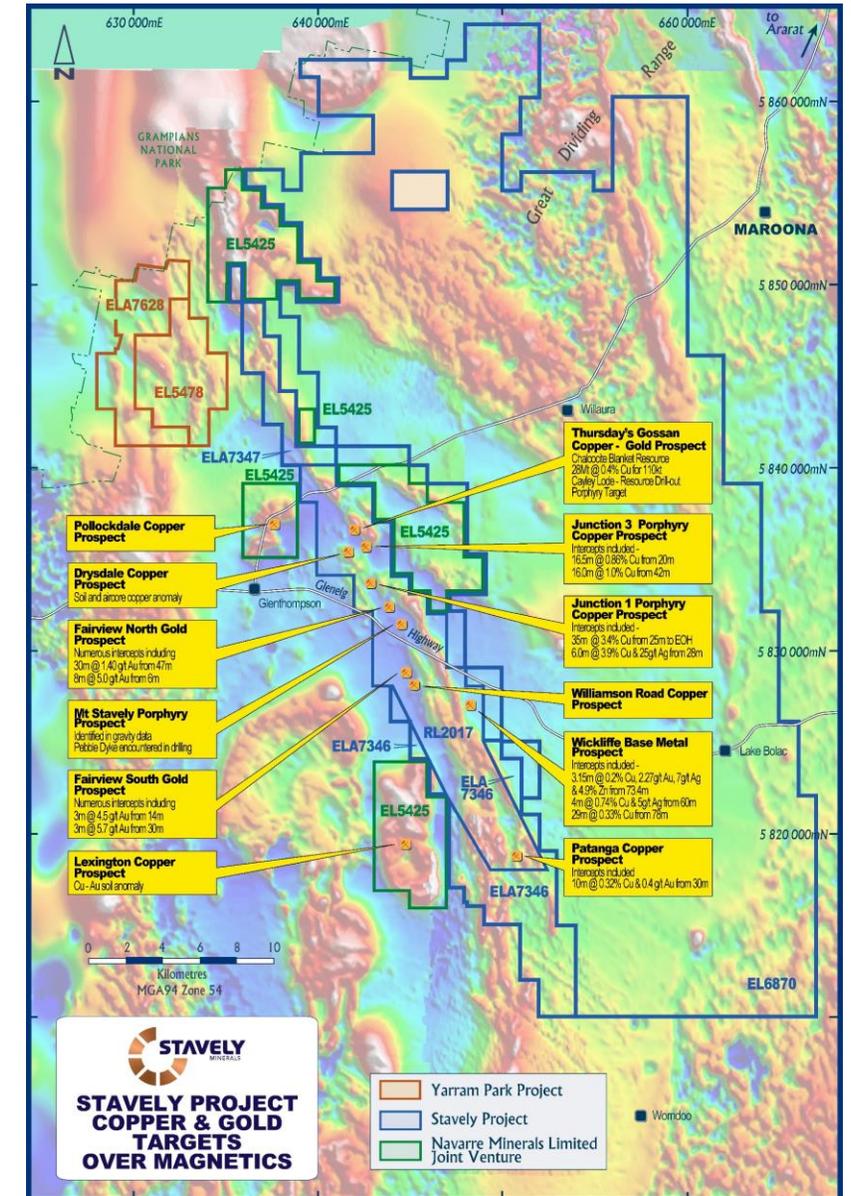
# Regional Exploration – Massive Opportunity for Discovery



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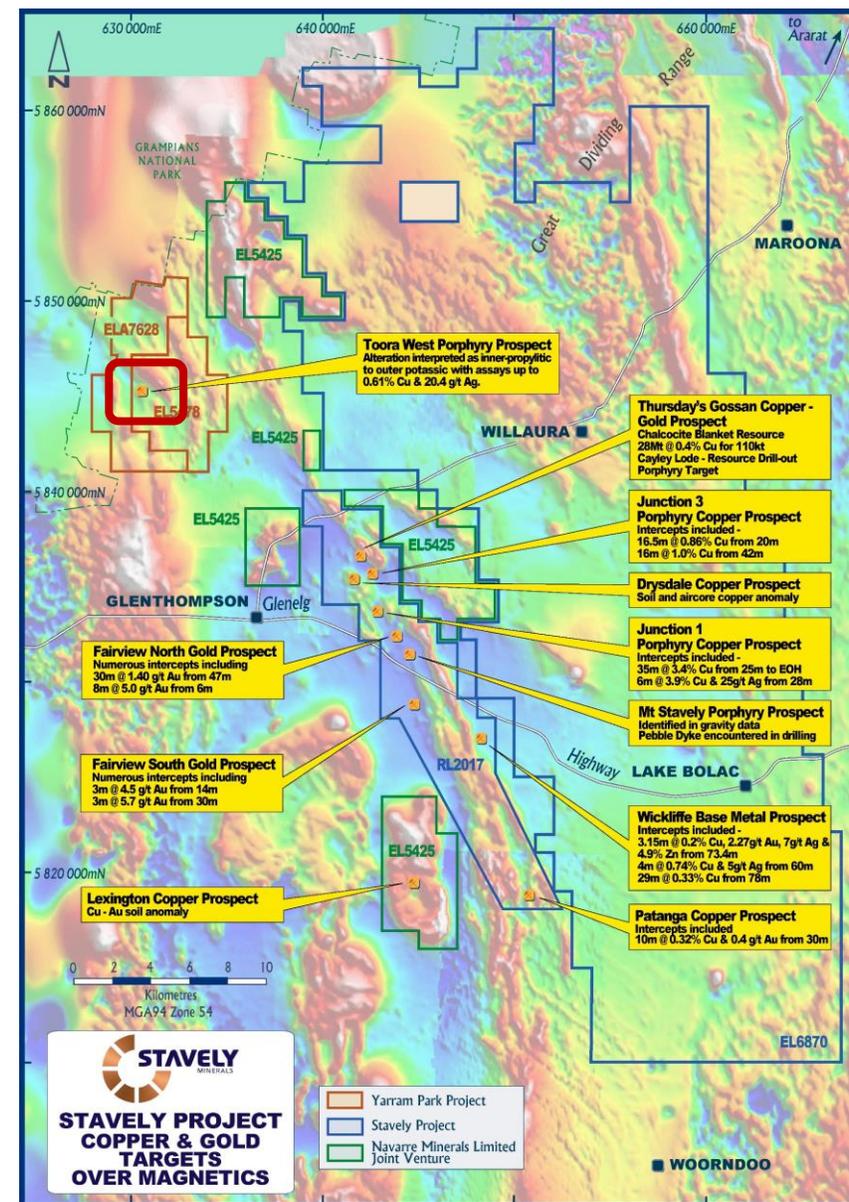
- Despite previous exploration by industry ‘top dogs’ Newcrest, Rio Tinto, CRA Exploration and North Limited, Stavely Minerals has a ‘first mover’ advantage
- Almost 1,500km<sup>2</sup> of tenure covering ~115km of porphyry-prospective volcanic arc segments
- Known prospects occur largely within a ~20km window of sub-crop – this is what the majors focused on
- The other ~95km of prospective arc rocks are covered by younger cover or younger basalt – this is Stavely’s first mover advantage



# Regional Exploration – Toora West Discovery



- Emerging discovery at the Toora West porphyry prospect
- ‘Blind’ discovery under 30m of younger transported cover
- Diamond drilling in-progress

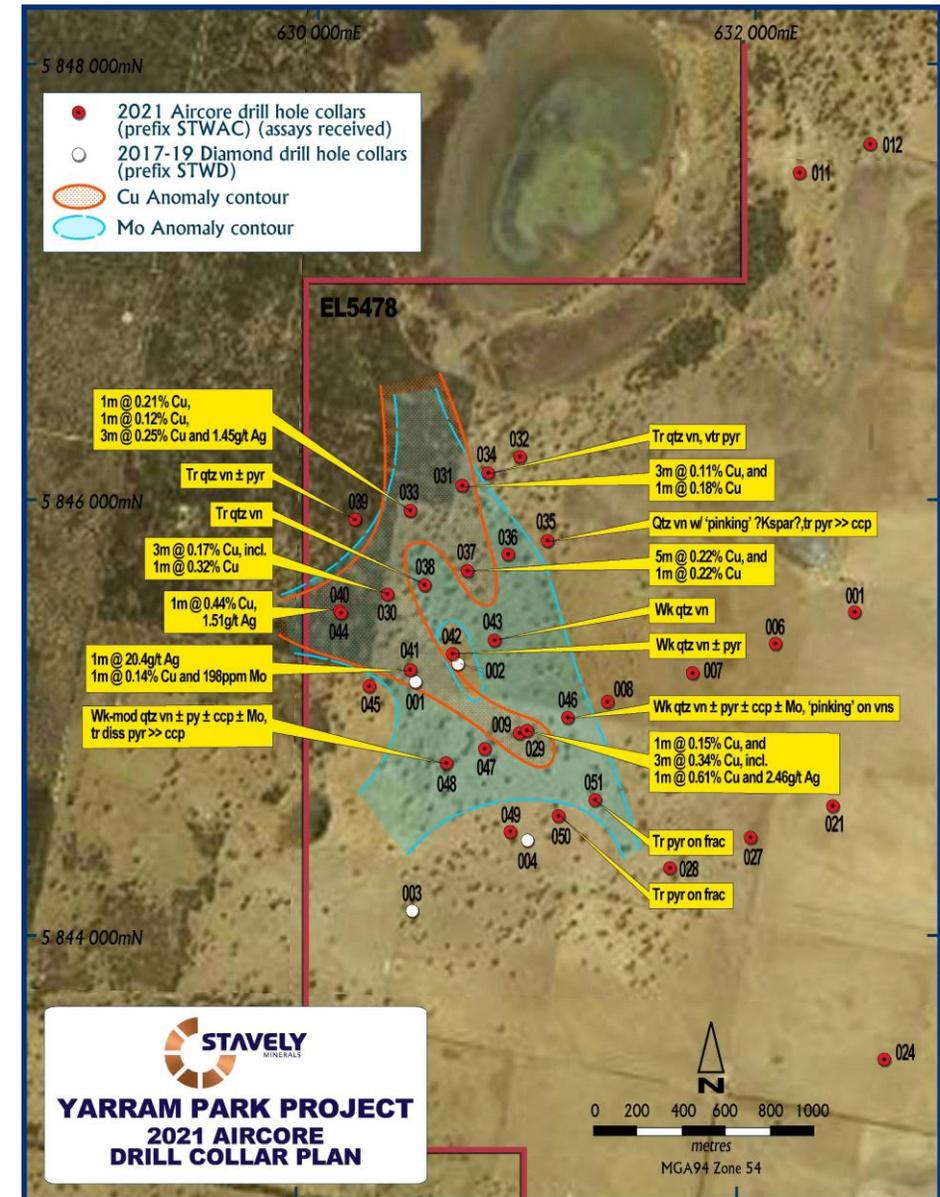


# Regional Exploration – Toora West Discovery



- Emerging discovery at Toora West
- Aircore drilling intercepts porphyry-style alteration and quartz veining with copper sulphides defined over 1,600m x 1,000m
  - STWAC029
    - 1m at 0.15% Cu from 58m down-hole, and
    - 3m at 0.34% Cu from 64m, including:
      - 1m at 0.61% Cu and 2.46g/t Ag from 64m
  - STWAC030
    - 3m at 0.17% Cu from 35m down-hole, including:
      - 1m at 0.32% Cu from 35m, and
    - 1m at 0.14% Cu from 45m
  - STWAC031
    - 3m at 0.11% Cu from 39m down-hole, and
    - 1m at 0.18% Cu from 50m to the end-of-hole
- Strong anomalism, **better grades expected at depth**

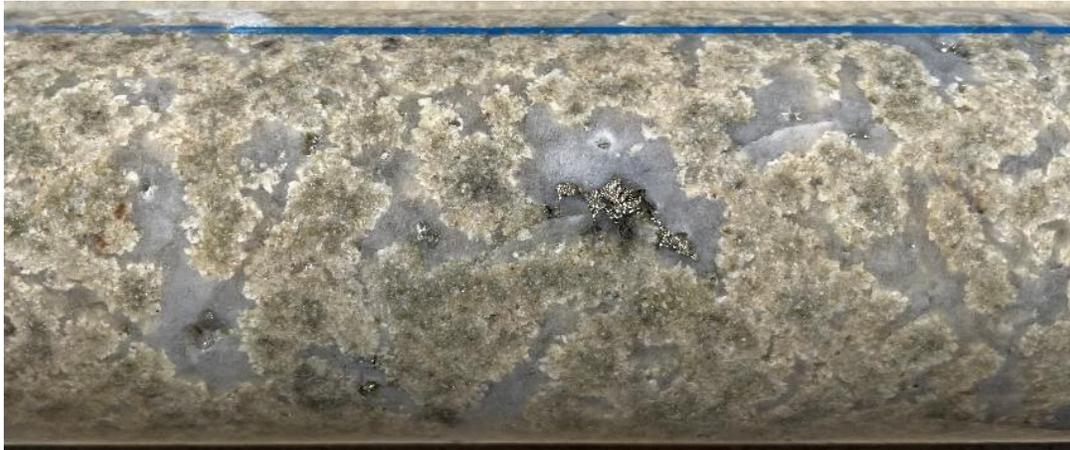
See ASX announcement 07/07/2021 and available from [www.stavelly.com.au](http://www.stavelly.com.au)



# Regional Exploration – Toora West Discovery



- STWD006 – in-progress



'brain rock' 108.3m



Pyrite-chalcopyrite-chalcocite fracture coating 171.8m



Quartz-moly vein 130.5m



Quartz-pyrite-chalco vein w/ pink selvage 186.6m



Quartz-pyrite-chalcopyrite vein in red-rock altered ?monzodiorite 328.4m

See ASX announcement 02/12/2021 and available from [www.stavely.com.au](http://www.stavely.com.au)

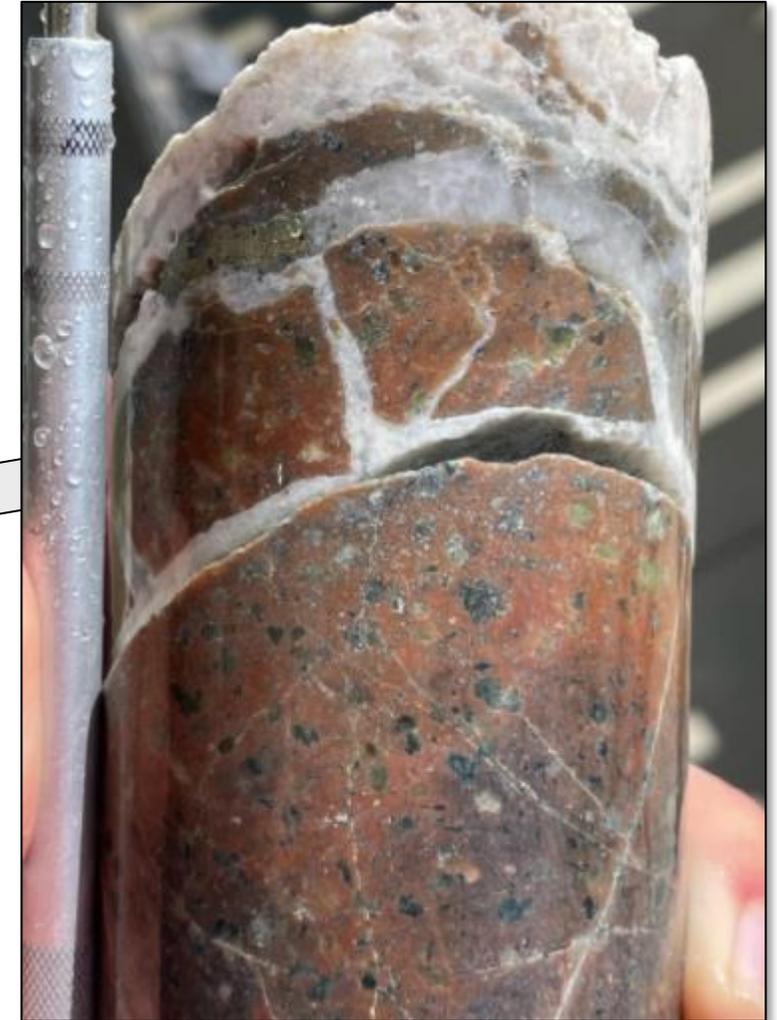
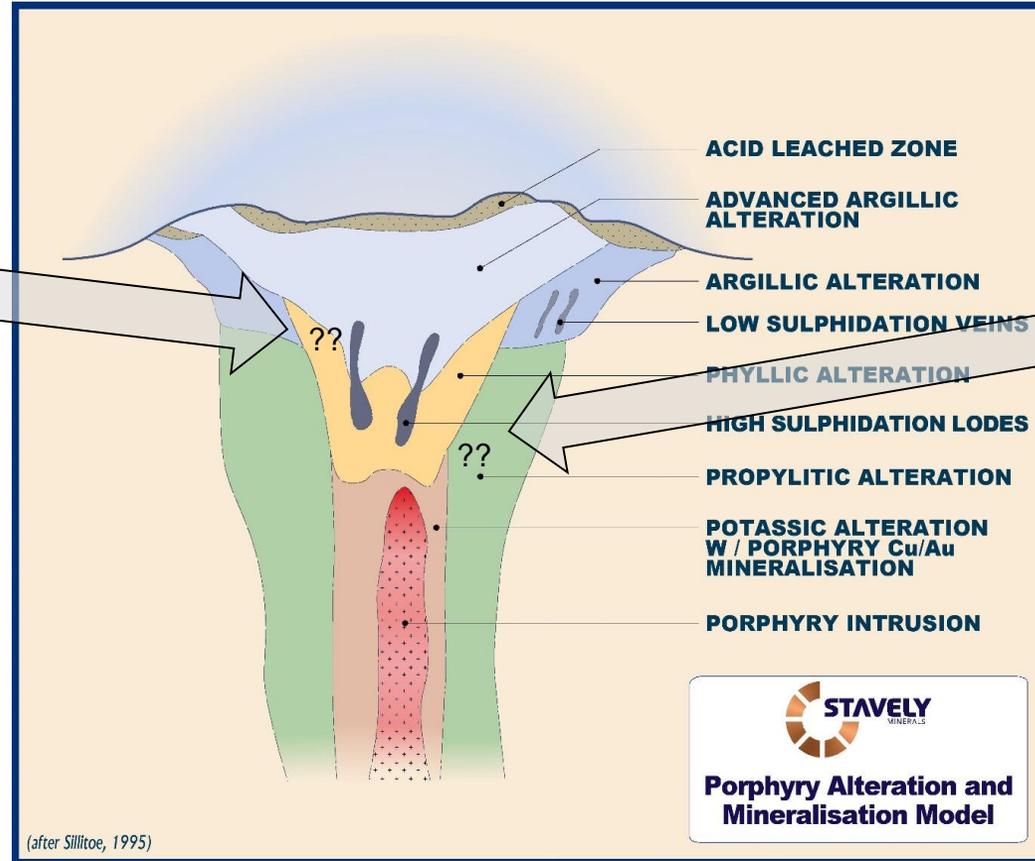
# Regional Exploration – Toora West Discovery



- STWD006 – in-progress



Quartz-pyrite-chalco vein w/  
pink selvage 186.6m



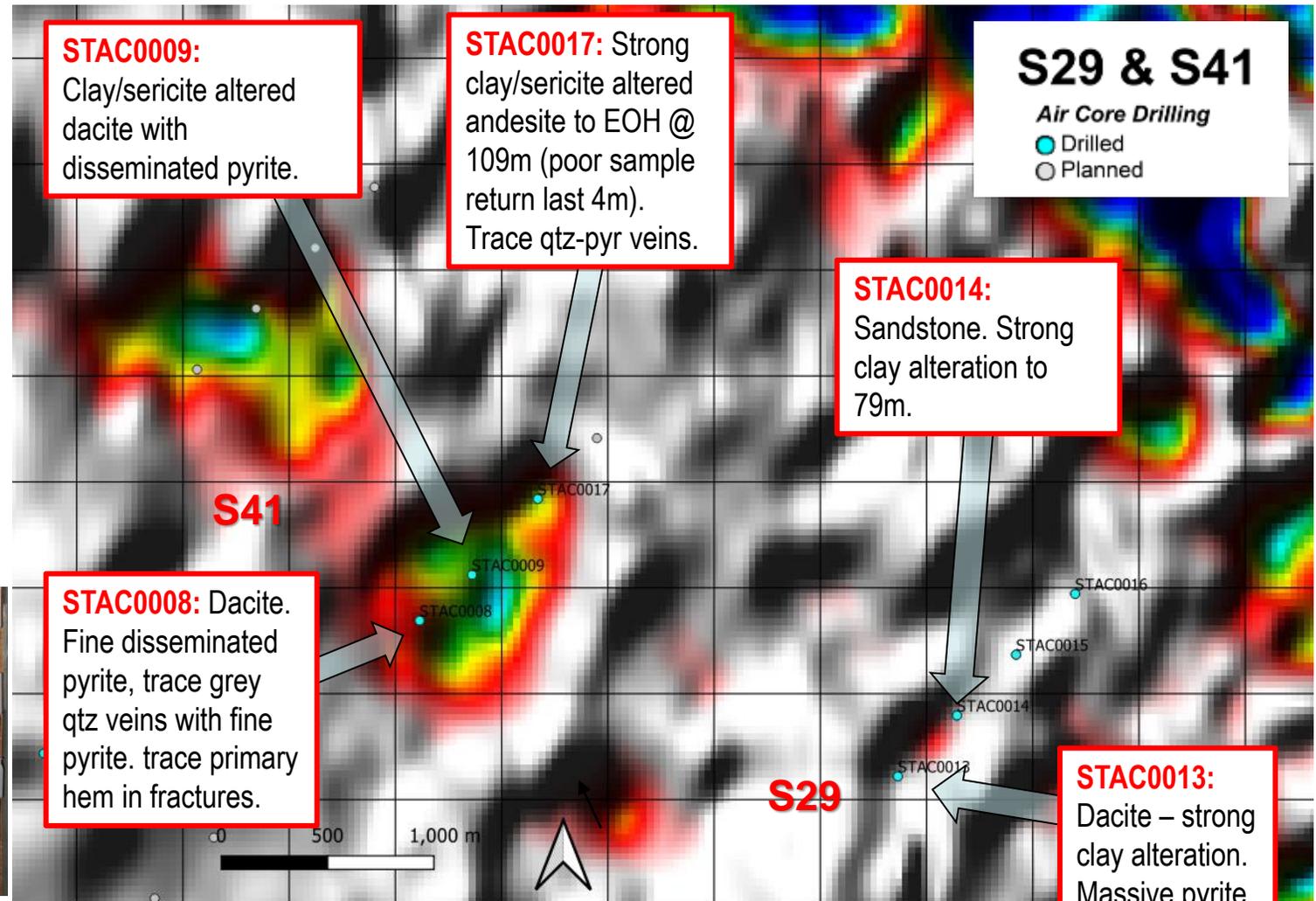
Quartz-pyrite-chalcopyrite vein in red-rock  
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See ASX announcement 02/12/2021 and available from [www.stavely.com.au](http://www.stavely.com.au)

# Regional Exploration – 80% success rate so far!



- Regional targets S29, S41, Muirhead and Yarram Gap (4 out of 5 targets tested to date) all associated with hydrothermal clay alteration and sulphides
- All 'blind' with no surface expression
- 80% success rate so far

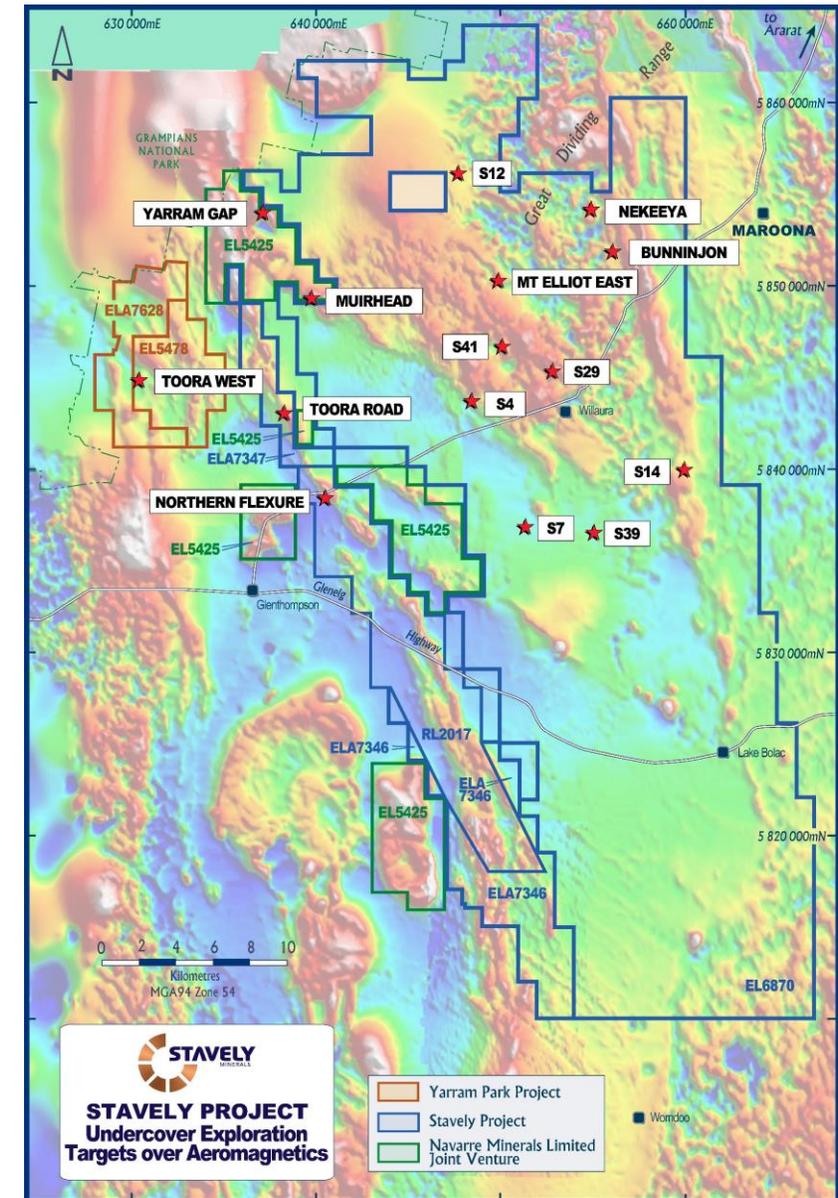


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# Regional Exploration – Massive Opportunity for Discovery



- Emerging discovery at Toora West
- ‘Blind’ discovery under 30m of younger transported cover
- To be tested with 3 x diamond drill holes – second hole STWD006 in-progress
- Very important implication:
  - *The Stavely Minerals geology team has developed a targeting methodology that has identified porphyry-style copper-molybdenum mineralisation under cover*
  - *This methodology can be extended throughout the ~1,500km<sup>2</sup> tenure held by Stavely Minerals*
- The team has identified 19 regional targets ready for testing subject to landowner access agreements



See ASX announcement 14/10/2021 and available from [www.stavely.com.au](http://www.stavely.com.au)



Activity	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22
Toora West Diamond Drilling		Yellow							
Regional Exploration	Green	Green				Green	Green	Green	Green
Mineral Resource Drilling			Purple	Purple	Purple				
Receipt of Resource Drilling Assays				Orange	Orange	Orange			
Mineral Resource Estimate							Blue		
Scoping Study								Red	

= lots of news flow

# Copper...the Ultimate “Future-Facing” Commodity



3.6 tonnes of copper for every MW of wind power



4-5 tonnes of copper for every MW of photo-voltaic solar power

In order to migrate to a **low-carbon economy** and provide **alternative energy solutions**, certain strategic minerals are required to build the wind farms, solar farms, electric vehicles and high-technology needed to facilitate this transition.

**Copper is one of the key metals required**

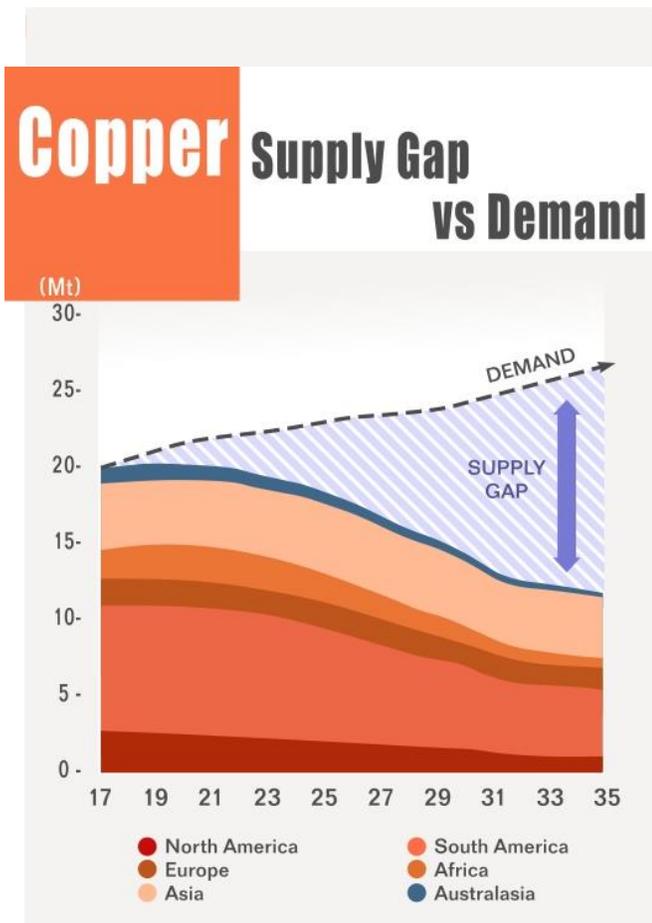


4 x more copper in an electric car than one with an internal combustion engine



6 types of bacteria killed by copper surfaces

# Copper...Compelling Market Fundamentals



CRU estimates a 15 million tonne copper supply deficit by 2035

There are very few high-quality projects coming on stream in first world jurisdictions

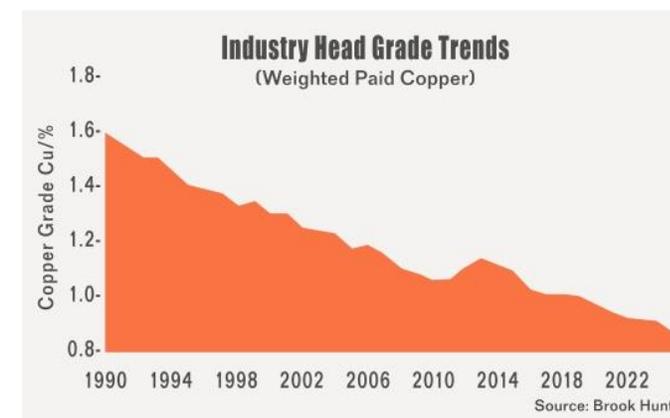
## Copper M&A

### The Cupboard is Nearly Bare



Escondida, the world's largest copper mine:

- 1.72% Cu average head grade in 2007
- 0.52% Ore Reserve grade in 2019



# Summary – Key Investment Takeaways



- ✓ First-mover position (1,461km<sup>2</sup>) in a potential emerging copper province
- ✓ Discovery of structurally-controlled high-grade lode-style copper-gold-silver mineralisation similar to the Magma (Arizona) and Butte (Montana) deposits
- ✓ In an Australian context, the best comparable deposits are the Cobar Basin mines
- ✓ Intercepts across three structures ranging from surface to 1,150m drill depth – “tall” system
- ✓ Shallow resource drill-out resumed targeting ~20% of one of the three potentially mineralised structures identified to date – plenty of potential to identify others
- ✓ Outstanding potential for an all-new porphyry province – multiple targets being tested over the next 6 months





# STAVELY

MINERALS

ASX Code: SVY

**Contact Us:**  
**Stavely Minerals Limited**  
Level 1, 168 Stirling Highway  
Nedlands WA 6009  
[www.stavely.com.au](http://www.stavely.com.au)  
[info@stavely.com.au](mailto:info@stavely.com.au)  
Ph: 08 9287 7630

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