

# Sunday Creek

An Expanding and Significant Global Gold Discovery

15 January 2025



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**Overview:** This presentation (this “Presentation”) dated January 15, 2025, has been prepared by Southern Cross Gold Consolidated Ltd (“SXGC” or the “Company”) and is authorized for release by Managing Director, Michael Hudson.

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Although the Company believes its expectations are based upon reasonable assumptions and has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. As such, these risks are not exhaustive; however, they should be considered carefully. If any of these risks or uncertainties materialize, actual results may vary materially from those anticipated in the forward-looking statements found herein. Due to the risks, uncertainties, and assumptions inherent in forward-looking statements, readers should not place undue reliance on forward-looking statements.

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**Qualified/Competent Person:** Mr. Michael Hudson, President, CEO and Managing Director of SXGC, a Qualified Person as defined by National Instrument 43-101, and Competent Person as defined by JORC, and a Fellow in good standing with the Australasian Institute of Mining and Metallurgy, has reviewed, verified and approved the technical information in this Presentation.

# Important Information

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# Important Information

For the purposes of JORC, certain information in this Presentation that relates to exploration results is extracted from the Independent Geologist's Report dated December 11, 2024, which was issued with the consent of the Competent Person, Mr. Steven Tambanis. The Technical Report is included in the Company's prospectus dated December 11, 2024, which was lodged with the Australian Securities and Investments Commission (ASIC) on December 11, 2024, for the purpose of compliance with ASX Listing Rules, as part of the Company's application for admission to the Official List. The Technical Report is available for download at [www2.asx.com.au](http://www2.asx.com.au) under code "SX2". The Company confirms that it is not aware of any new information or data that materially affects the information related to exploration results included in the prospectus. The Company confirms that the form and context of the Competent Persons' findings in relation to the report have not been materially modified from the prospectus filing.

For the purposes of NI 43-101, certain information in this Presentation that relates to exploration results is extracted from the independent technical report titled "NI 43-101 Technical Report, Sunday Creek Gold-Antimony Project, Victoria, Australia" and dated September 25, 2024 (the "Technical Report") prepared for the Company by Mark Saxon, a qualified person under NI 43-101. The Technical Report is available for download under the Company's profile on [www.sedarplus.ca](http://www.sedarplus.ca) and on the Company's website at [www.southerncrossgold.com](http://www.southerncrossgold.com)

Information in this Presentation relates to the Exploration Target for the Sunday Creek Project is based on information compiled by Mr Kenneth Bush and Mr Michael Hudson. Mr Bush is a Member of Australian Institute of Geoscientists and Mr Hudson is a Fellow of The Australasian Institute of Mining and Metallurgy. Mr Bush and Mr Hudson each have sufficient experience relevant to the style of mineralization and type of deposit under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Bush is Exploration Manager and Mr Hudson is Managing Director of Southern Cross Gold Limited and both consent to the inclusion in the report of the matters based on their information in the form and context in which it appears. For further exploration target information see historic SXG News Release Dated 23/01/24: <https://www.southerncrossgold.com/investor/historical-announcements-asx-sxg>. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original document/announcement and the Company confirms that the form and context in which the Competent Person's findings are presented have not materially modified from the original market announcement.

Certain information in this Presentation also relates to prior exploration results reported by Southern Cross Gold Ltd, are extracted from the following announcements, which are available to view on [www.southerncrossgold.com](http://www.southerncrossgold.com) under historical announcements:

4 October, 2022 [SDDSC046](#), 20 October, 2022 [SDDSC049](#), 5 September, 2023 [SDDSC077B](#), 12 October, 2023 [SDDL003 & 4](#), 23 October, 2023 [SDDSC082](#), 9 November, 2023 [SDDSC091](#), 14 December, 2023 [SDDSC092](#), 5 March, 2024 [SDDSC107](#), 27 May, 2024 [SDDSC117](#), 13 June, 2024 [SDDSC118](#), 28 October, 2024 [SDDSC137W2](#), 10 December, 2024 [SDDSC145](#), 18 December, 2024 [SDDSC129 & 144](#)

## Au Equivalent Calculation

SXGC considers that both gold and antimony that are included in the gold equivalent calculation ("AuEq") have reasonable potential to be recovered at Sunday Creek, given current geochemical understanding, historic production statistics and geologically analogous mining operations. Historically, ore from Sunday Creek was treated onsite or shipped to the Costerfield mine, located 54 km to the northwest of the project, for processing during WW1. SXGC considers that it is appropriate to adopt the same gold equivalent variables as Mandalay Resources Ltd in its Mandalay Technical Report, 2024 dated 28 March 2024. The gold equivalence formula used by Mandalay Resources was calculated using Costerfield's 2023 production costs, using a gold price of US\$1,900 per ounce, an antimony price of US\$12,000 per tonne and 2023 total year metal recoveries of 94% for gold and 89% for antimony, and is as follows:  $AuEq = Au (g/t) + 1.88 \times Sb (\%)$ .

Based on the latest Costerfield calculation and given the similar geological styles and historic toll treatment of Sunday Creek mineralization at Costerfield, SXGC considers that a  $AuEq = Au (g/t) + 1.88 \times Sb (\%)$  is appropriate to use for the initial exploration targeting of gold-antimony mineralization at Sunday Creek.



# Aim to Create the Highest Margin Gold Business Globally



## Exceptional Hit Rate

Sunday Creek compares favorably with global leading hit rates for this stage of the project's development

**55 individual intersections**  
>100 AuEq g/t x m

**167 drill holes for 70.7 km**  
drilling reported to date

**70 vein sets wireframed**  
within main drill area



## 3 Clear Objectives

Drilling plan has three clear objectives that will have the largest emphasis over the next six months

- 1 Demonstrate **Grade**
- 2 Demonstrate **Volume**
- 3 Demonstrate **Scale**



## 5 diamond drill rigs operating at site

Aim to increase capacity with additional rig per quarter, **60 km drilling planned to Q3 2025**



## News flow continuous



## Funded with permits

**\$22 m** cash

**1,055 ha** freehold, 4 house blocks

**100% owned projects**, no commercial royalties



# Corporate Structure



## Capitalization Summary

Share Price (15 JAN 2025)	C\$3.23
Shares Issued	221.6M
Fully Diluted	236.0M
Basic Market Capitalization	C\$715.8M
Cash (31 August 2024)	A\$22M



## Other Data

Options	Price	No. of Securities
JLM Options (Expiry 16 May 2025)	A\$0.30	1.35M
Class A ESOP (Expiry 16 May 2025)	A\$0.30	1.96M
Class B ESOP (Expiry 16 May 2026)	A\$0.30	2.78M
Class C ESOP (Expiry 16 May 2027)	A\$0.30	2.78M
Unlisted ESOP (Expiry 15 August 2026)	A\$0.66	1.25M
Broker Options (Expiry 28 November 2025)	A\$0.87	1.11M
Consultant Options (Expiry 23 October 2026)	A\$1.20	1.50M
Director Options (Expiry 7 November 2026)	A\$1.20	3.55M
Broker Options (Expiry 10 February 2026)	C\$0.76	0.82M
Performance Rights (3-5 years)		0.28M

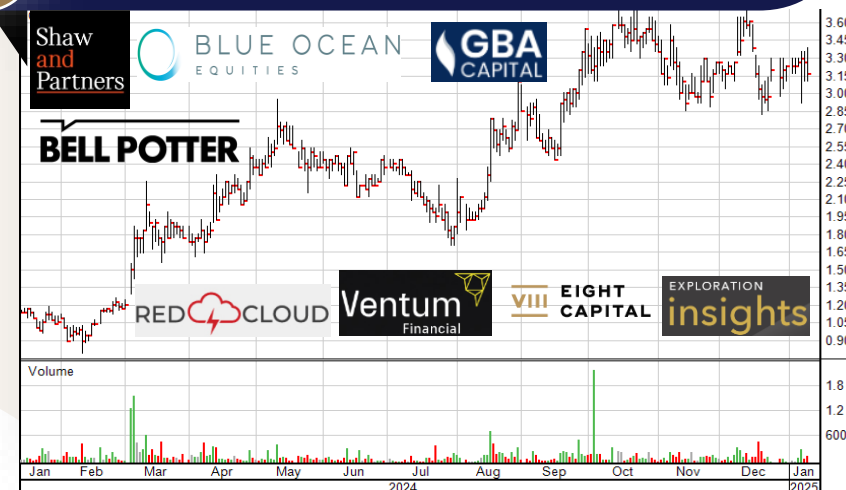


## Major Shareholder Summary

<b>HNW</b> (Springtide Capital, Firelight Investments, Swiss private bank clients, others)	31.2%
<b>Institutions</b> (Franklin Templeton, Konwave, Ruffer, Merk, Earthlabs, SG Hiscock, CQS, Ixios, Schroders, Mackenzie, Invesco, Firetrail, US Global, Earth Resource, Serafin, Kaplan, Wincrest)	23.7%
<b>Board and Management</b>	3.0% (8.6% FD)
<b>Other</b>	42.1%
<b>TOTAL</b>	<b>100.0%</b>



## Share Price Performance – 1 Year and Coverage



# Exploration and Mining History



## History

- 1850s - Alluvial mining
- 1860s - Surface mining to 30m
- 1880s - Shaft mining to 100m, 1890s to 180m
- Early 1900s – cyanide
- WW1 – Open by Imperial munitions act - antimony
- 1960s Eastern Prospectors – few drill holes
- 1980s CRA/BHP
- 1986 – mid 1990's, Ausminde - 29 RC drill holes totalling 960 metres;
- 2008 - Beadell Resources 30 RC holes with 7 diamond drill tails – oxide focus

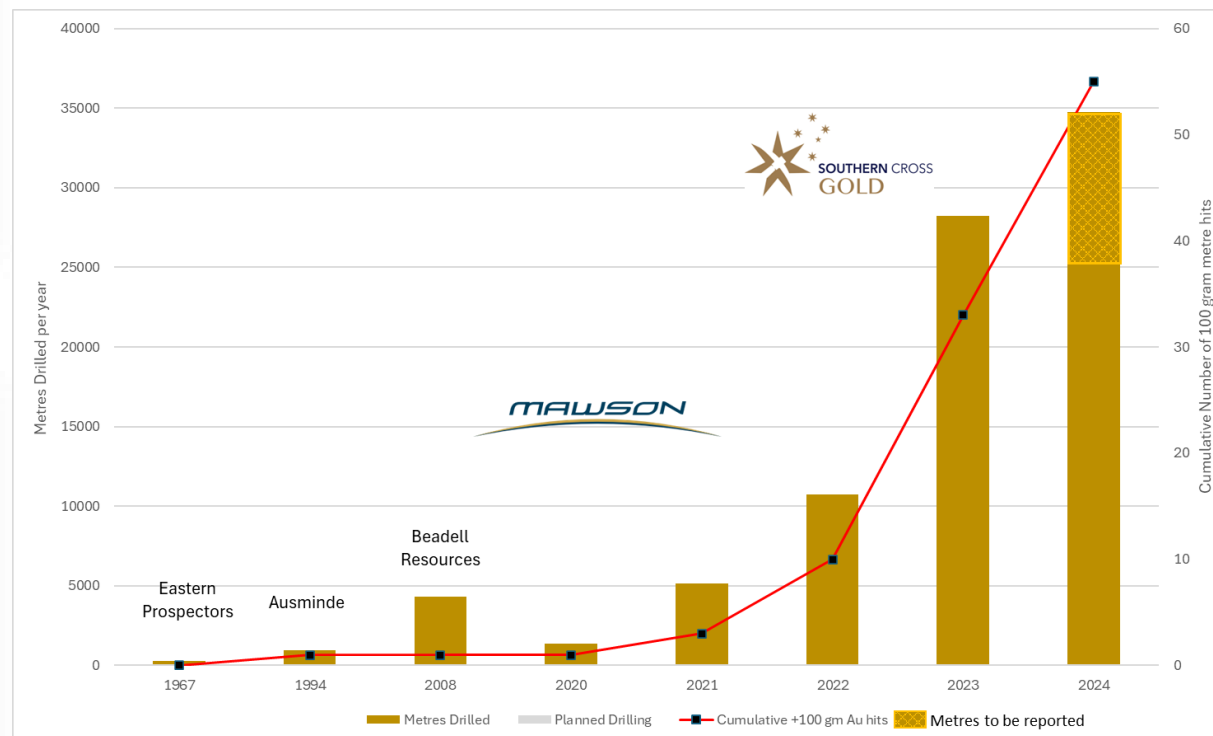


## Exploration

- Exploration has accelerated year-on-year
- 2021 was the first year with an individual +100 g/t Au assay interval
- 2023 included 28 individual Au assays +100 g/t Au and 6 individual Au assays +1,000 g/t Au.
- 2024 to date has 25 individual Au assays +100 g/t Au and 2 individual Au assays +1,000 g/t Au from 19 drillholes reported.



The Golden Dyke Mine



# Database Analysis: Grade vs Width

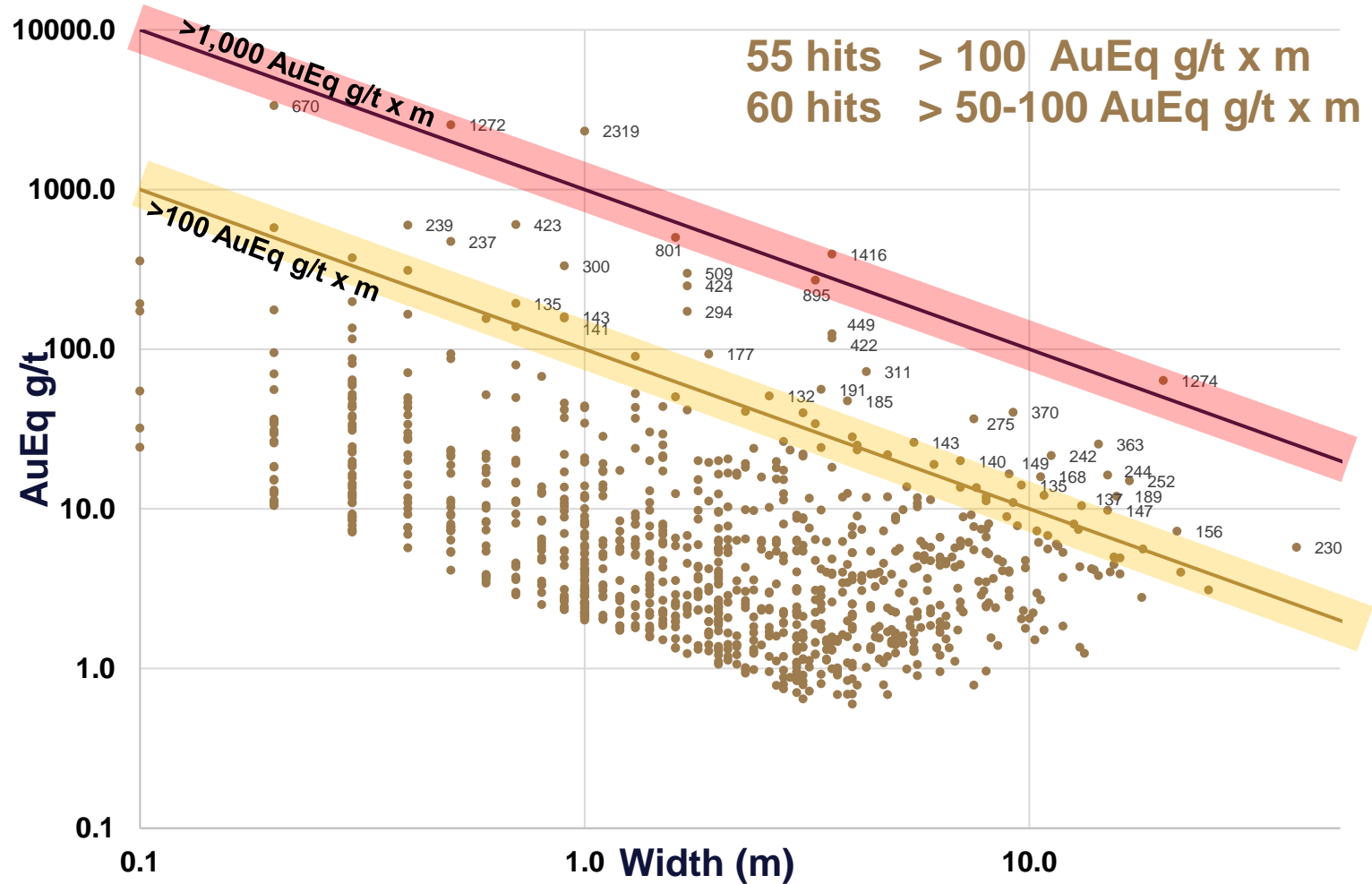
## Top 10 intersections at Sunday Creek

Hole-ID	From (m)	To (m)	Length (m)	Au g/t	Sb%	AuEq g/t	AuEqgtm
SDDSC107	684.3	685.3	1.0	2318.4	0.3	2318.9	2319
SDDSC077B	737.1	740.7	3.6	391.9	0.8	393.4	1416
SDDSC091	430.0	450.0	20.0	62.7	0.5	63.7	1274
SDDSC145	876.4	876.9	0.5	2541.9	1.1	2544.0	1272
SDDSC092	681.6	684.9	3.3	267.8	1.8	271.1	895
SDDSC082	417.4	419.0	1.6	500.3	0.1	500.5	801
SDDSC144	776.6	776.8	0.2	3330.0	11.7	3352.0	670
SDDSC137W2208.2	209.9	1.7	296.2	1.7	299.4	509	
SDDSC118	1120.4	1124.0	3.6	124.8	0.0	124.8	449
SDDSC082	413.6	415.3	1.7	230.6	9.9	249.1	424

\* AuEq = Au + (Sb % x 1.88), AuEqgtm variations due to rounding

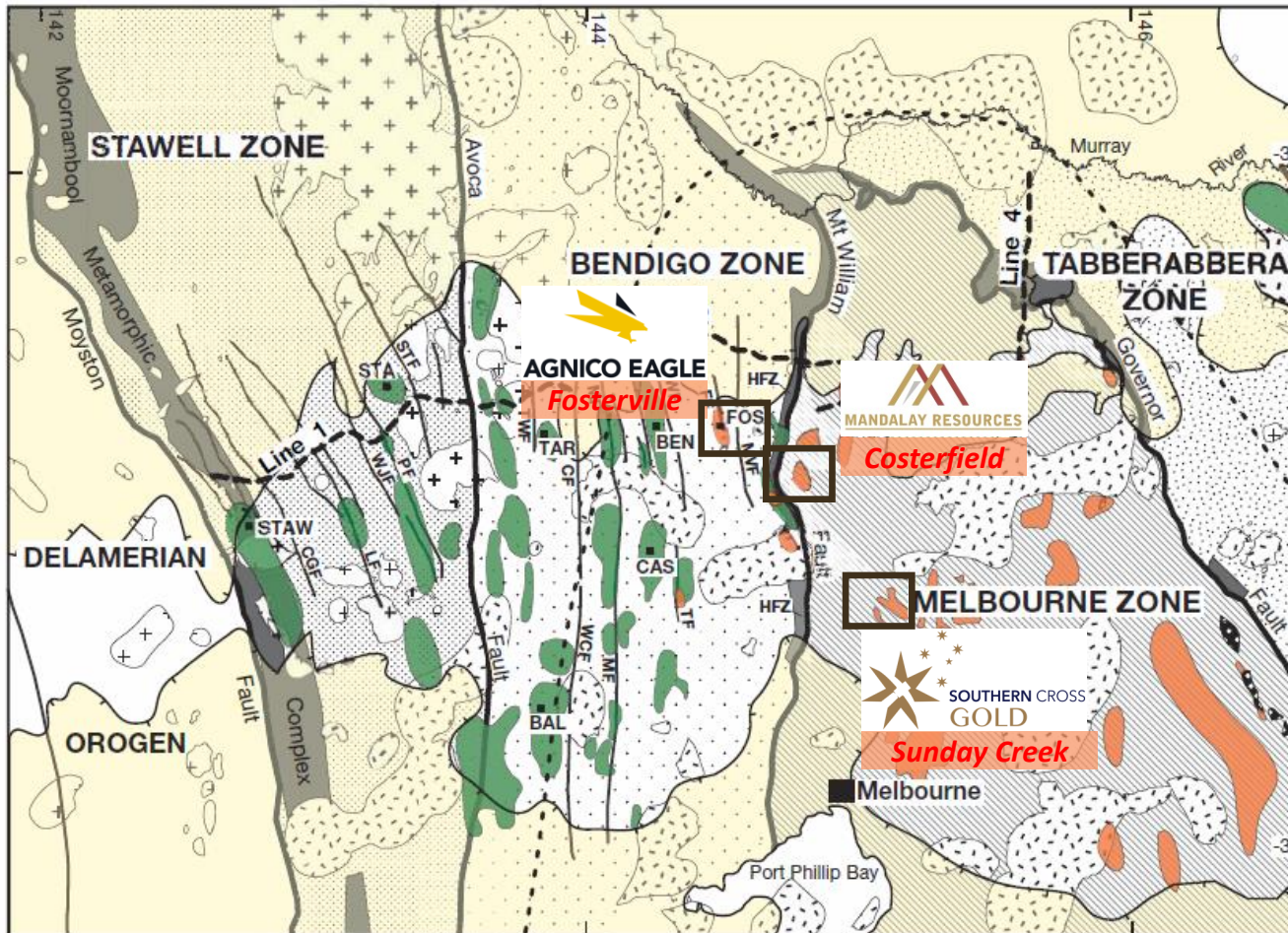


SDDSC107 from 684.7 m within assayed interval 1.0 m @ 2319 g/t AuEq (2318.4 g/t Au, 0.3 % Sb)





# Regional Setting



Willman et al., 2010

**Mesozonal  
character**

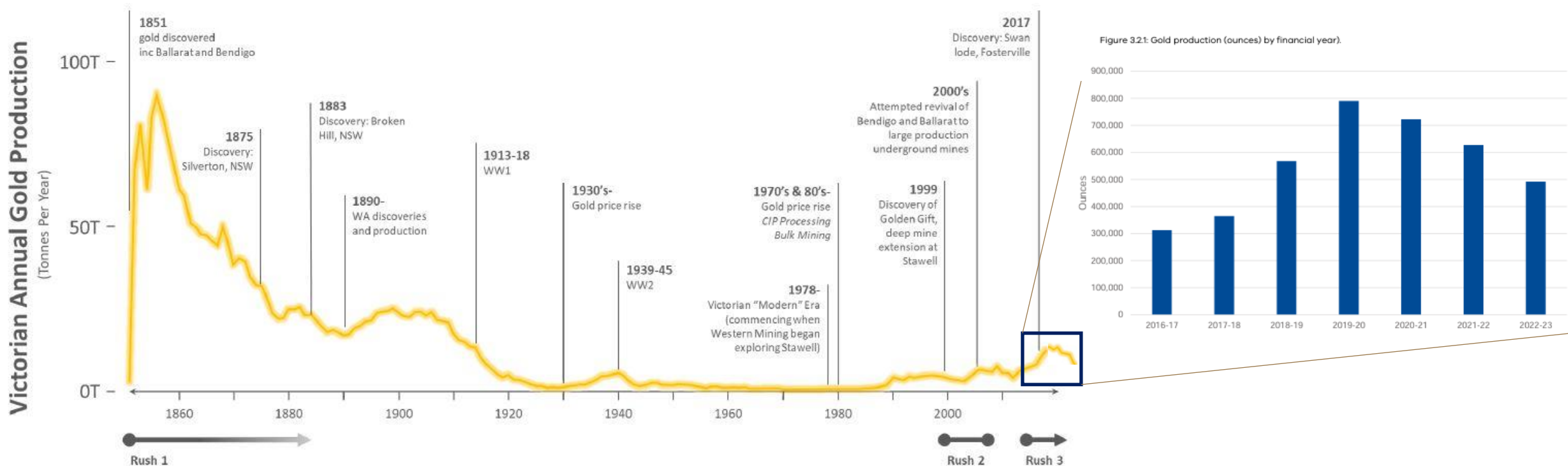
**Sb-As bearing, mainly  
epizonal character**

- Cenozoic cover rocks
- Late Devonian granite
- Early Devonian granite
- Ordovician to Devonian sedimentary rocks (Melbourne Zone)
- Ordovician to Silurian sedimentary rocks (Tabberabbera Zone)
- Ordovician turbidites (Bendigo Zone)
- Cambrian turbidites (Stawell Zone)
- Cambrian mafic volcanic rocks
- Cambrian calc-alkaline volcanic rocks (upper layer of Selwyn Block)
- Goldfields formed in 380 - 370 Ma event
- Goldfields formed in 440 Ma and 420 - 400 Ma events

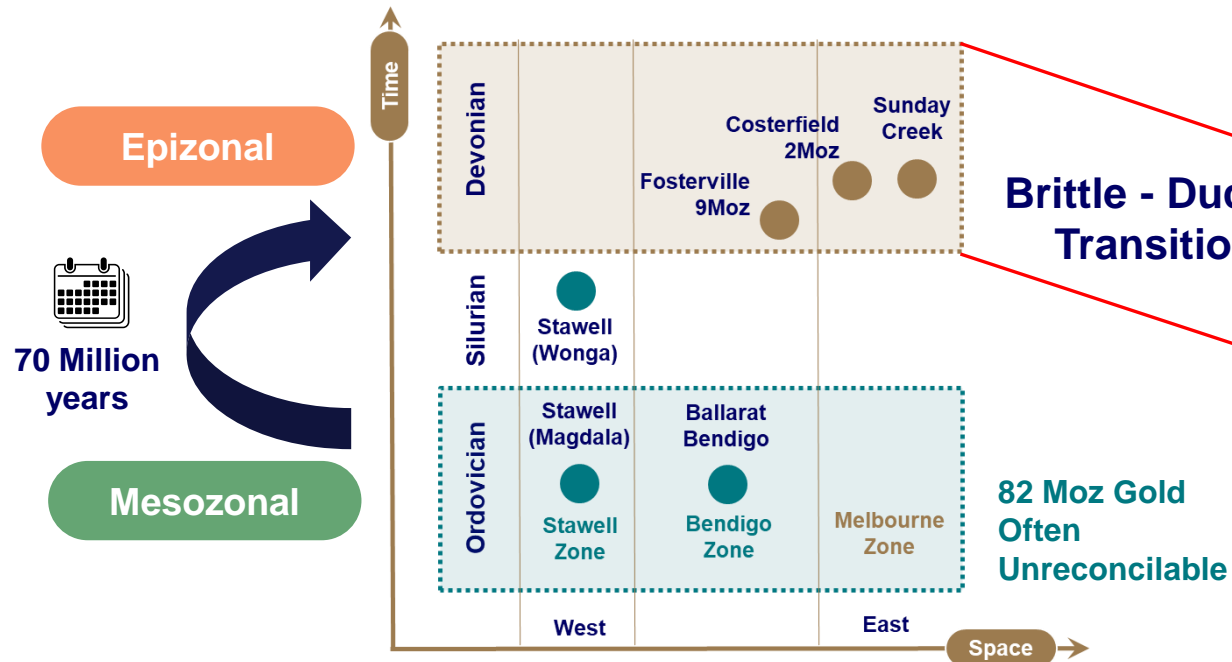


# Victorian Gold Production – Rocking Because of a Change in Geology

- ✓ Today, Victoria is producing more gold than it has for 100 years
- ✓ 5 Gold Mines Operating Today – 500Koz/yr

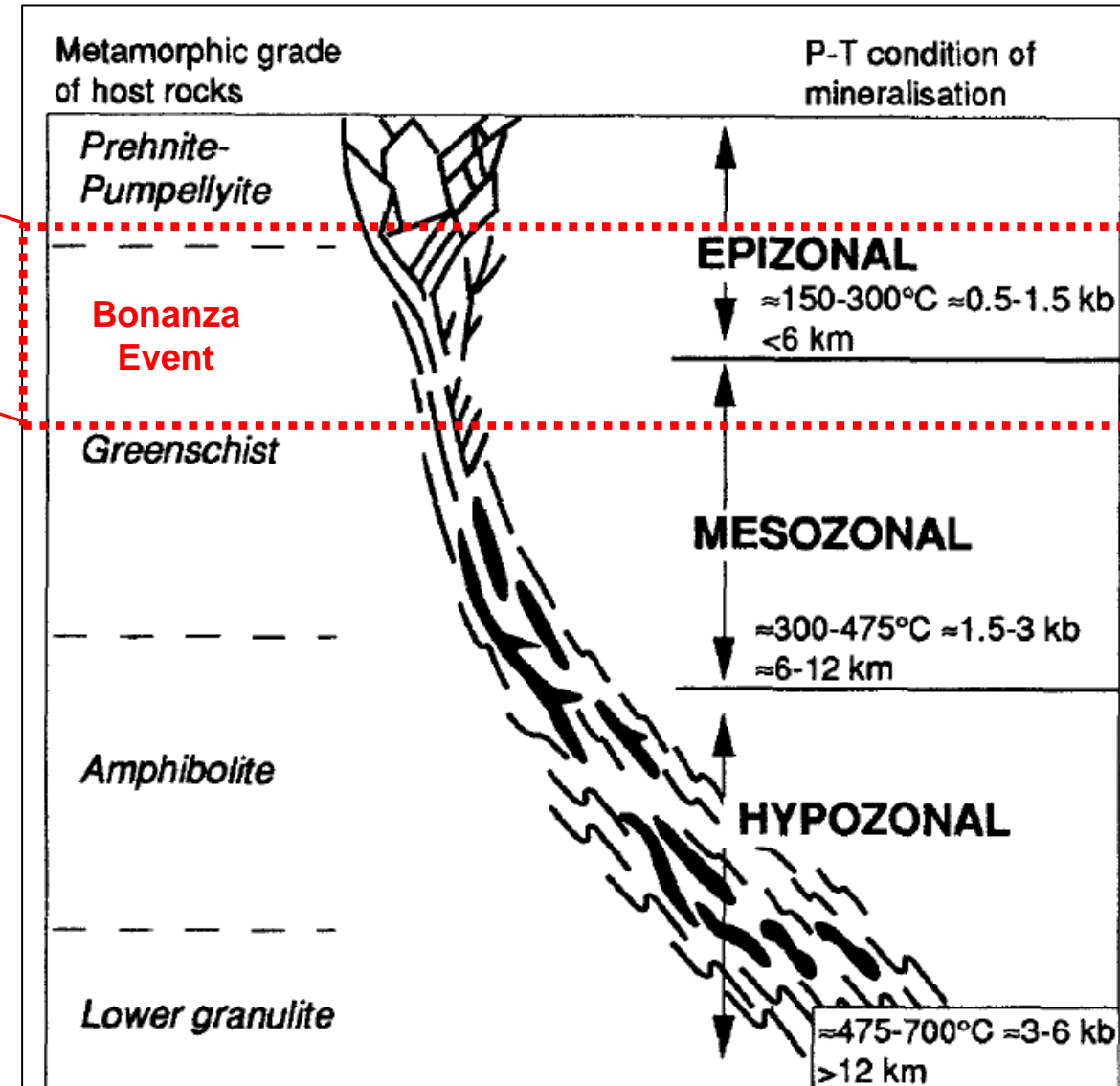


# Victoria a Gift That Keeps on Giving



Drives thesis to test to depth

SDDSC107 from uncut core from 684.7 m within assayed interval 1.0 m @ 2319 g/t AuEq (2318.4 g/t Au, 0.3 % Sb)

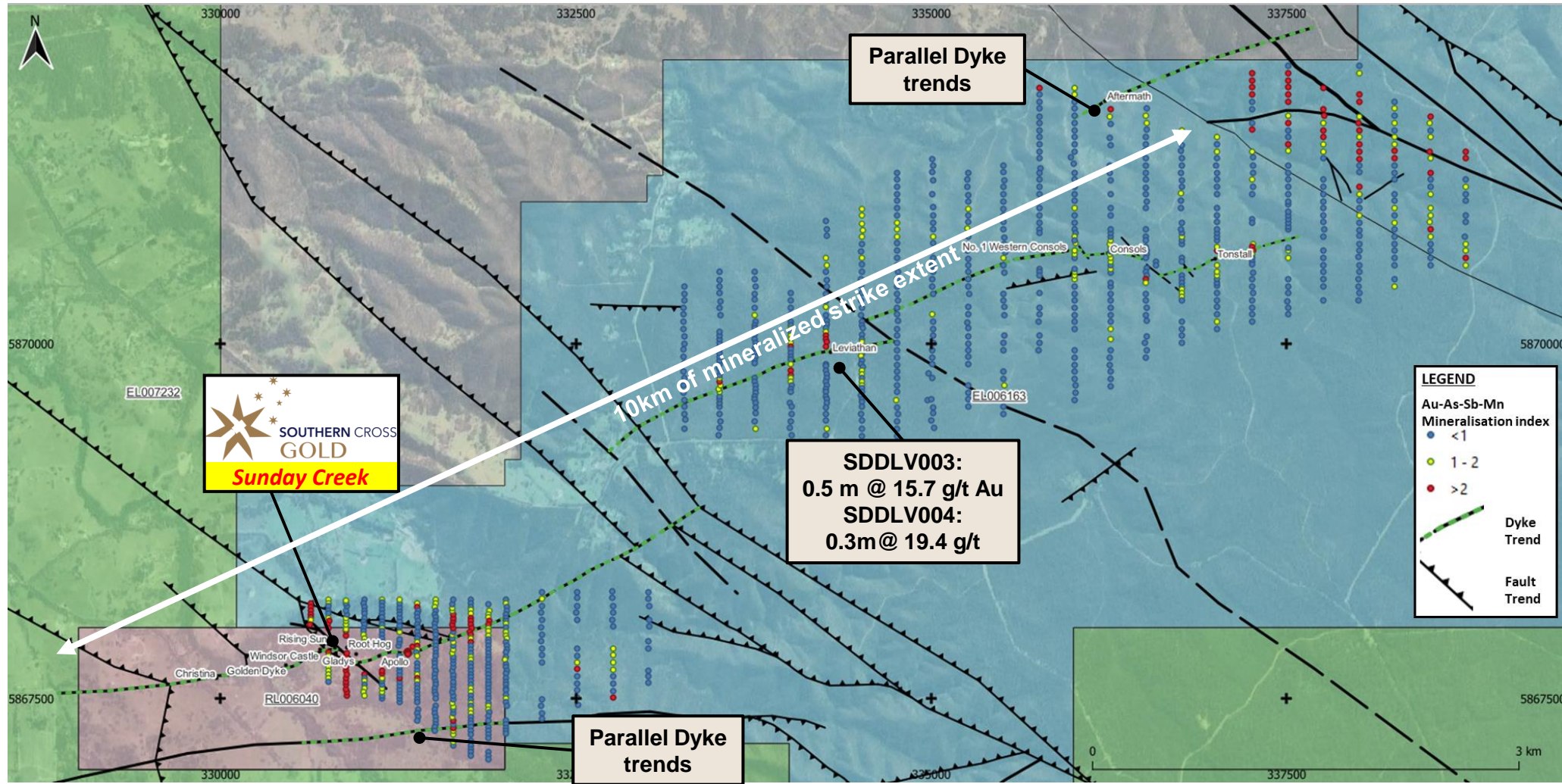


Gebre-Mariam et al., 1995



# Regional Trends

- Clear geochemical anomalies can be identified from a combined trace element additive index using Au, As, Sb and Mn.
- Parallel dyke trends identified in outcrop and historic mining occurrences.





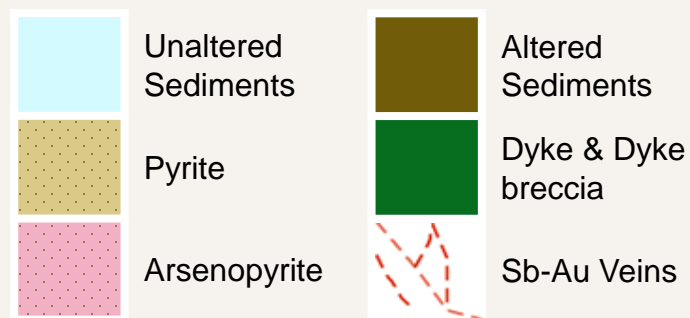
# Schematic Plan View Main Drill Area – The Golden Ladder

**Ladder rails extend over 10km** of strike.  
Core area drilled over 1km

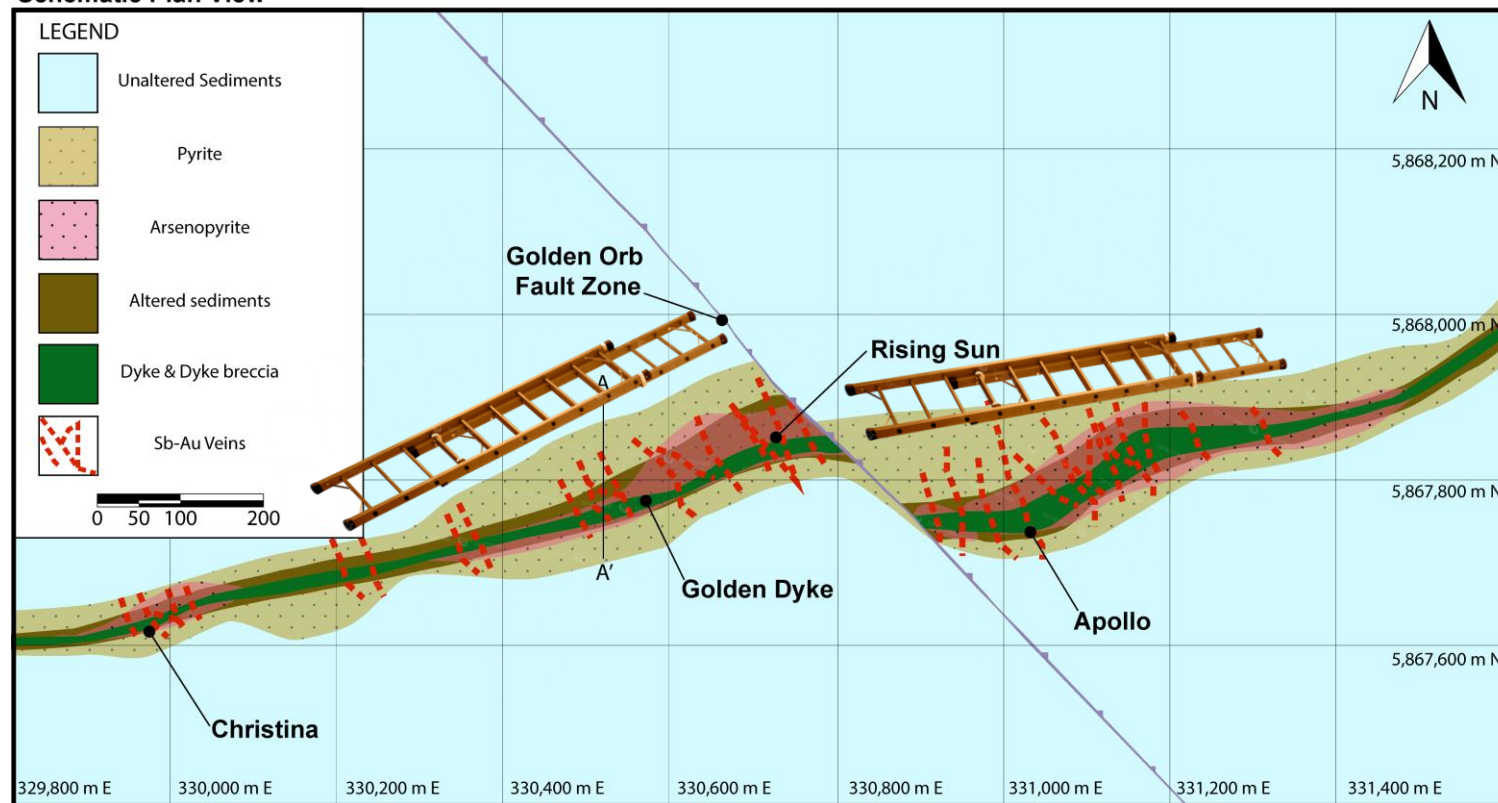
**“Rungs” extend from surface to 1.1km depth**, Each “rung” **20-100m long**, Apollo av. width **3.8m (median 3.4m)**, Rising Sun av. width **2.7m (median 2.3m)**, max 10.9m

**70 “rungs”** identified to date

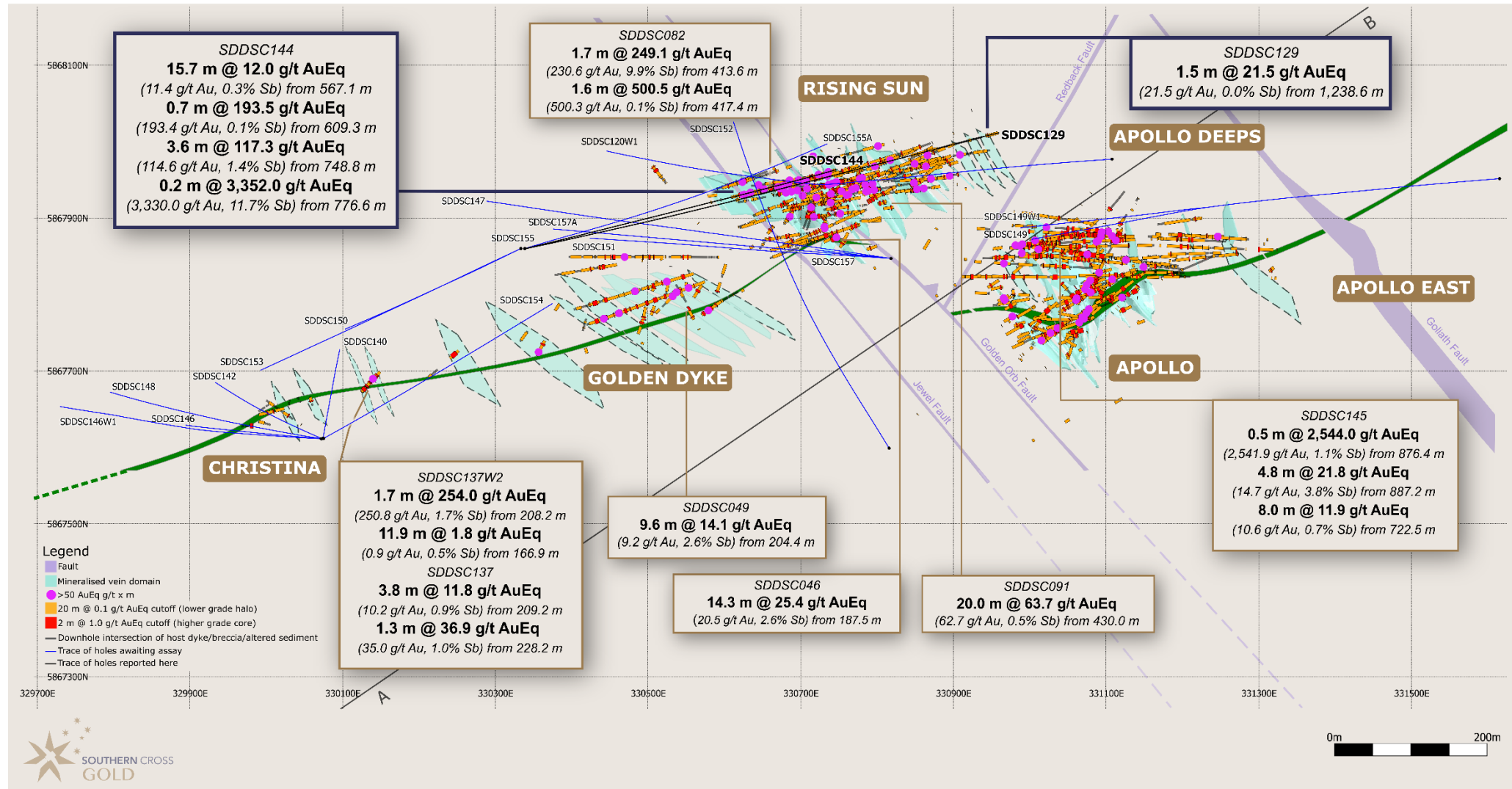
**Continuity informed by structural data, geostats (CV<2), geological likeness, predictability and 50 yr mining**



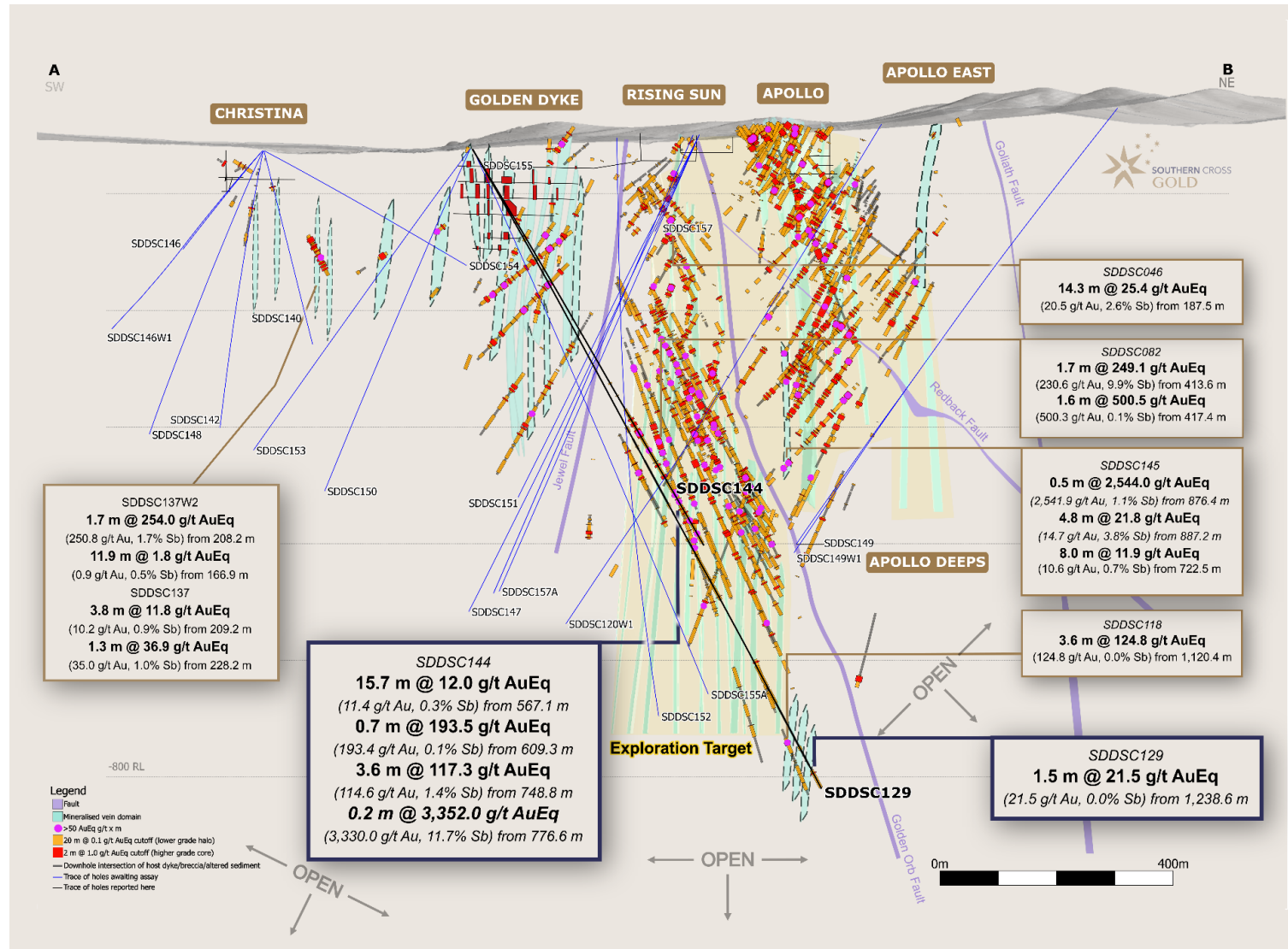
**Schematic Plan View**



# Plan View Main Drill Area

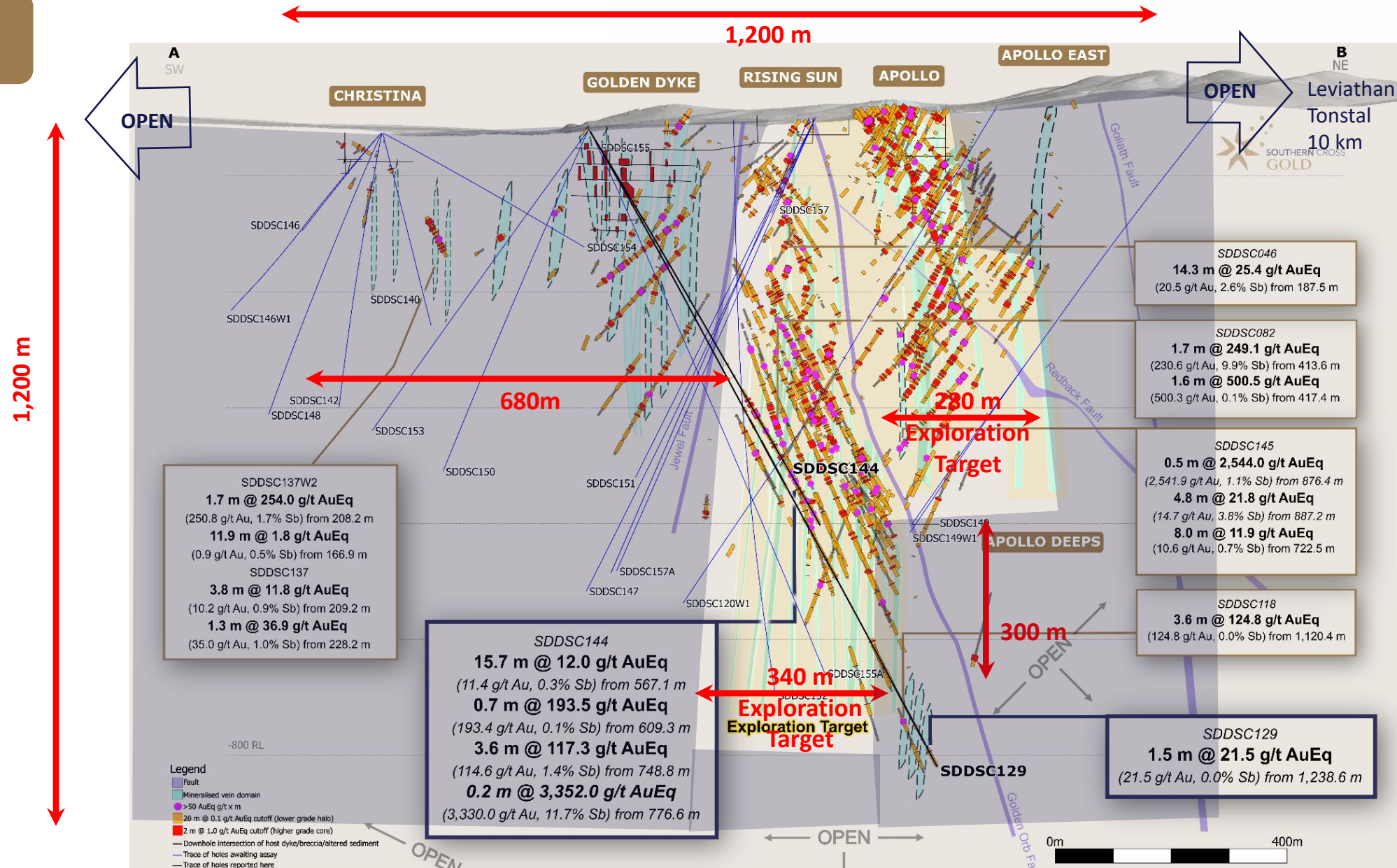


# Long Section View Main Drill Area





# Exploration Target (Jan 24)



## Maiden Exploration Target for Sunday Creek – January 2024

4.4 - 5.1 million tonnes grading at 7.2 g/t AuEq to 9.7 g/t AuEq for 1.0Moz AuEq to 1.6Moz AuEq

The potential quantity and grade of the Exploration Target is conceptual in nature and therefore is an approximation. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource. The Exploration Target has been prepared and reported in accordance with the 2012 edition of the JORC Code.

For further exploration target information see historic SXG News Release dated 23/01/24:  
<https://www.southerncrossgold.com/investor/historical-announcements-asx-sxg>

**Maiden Exploration Target**

**Drilling Area Outside Maiden Exp. Target**



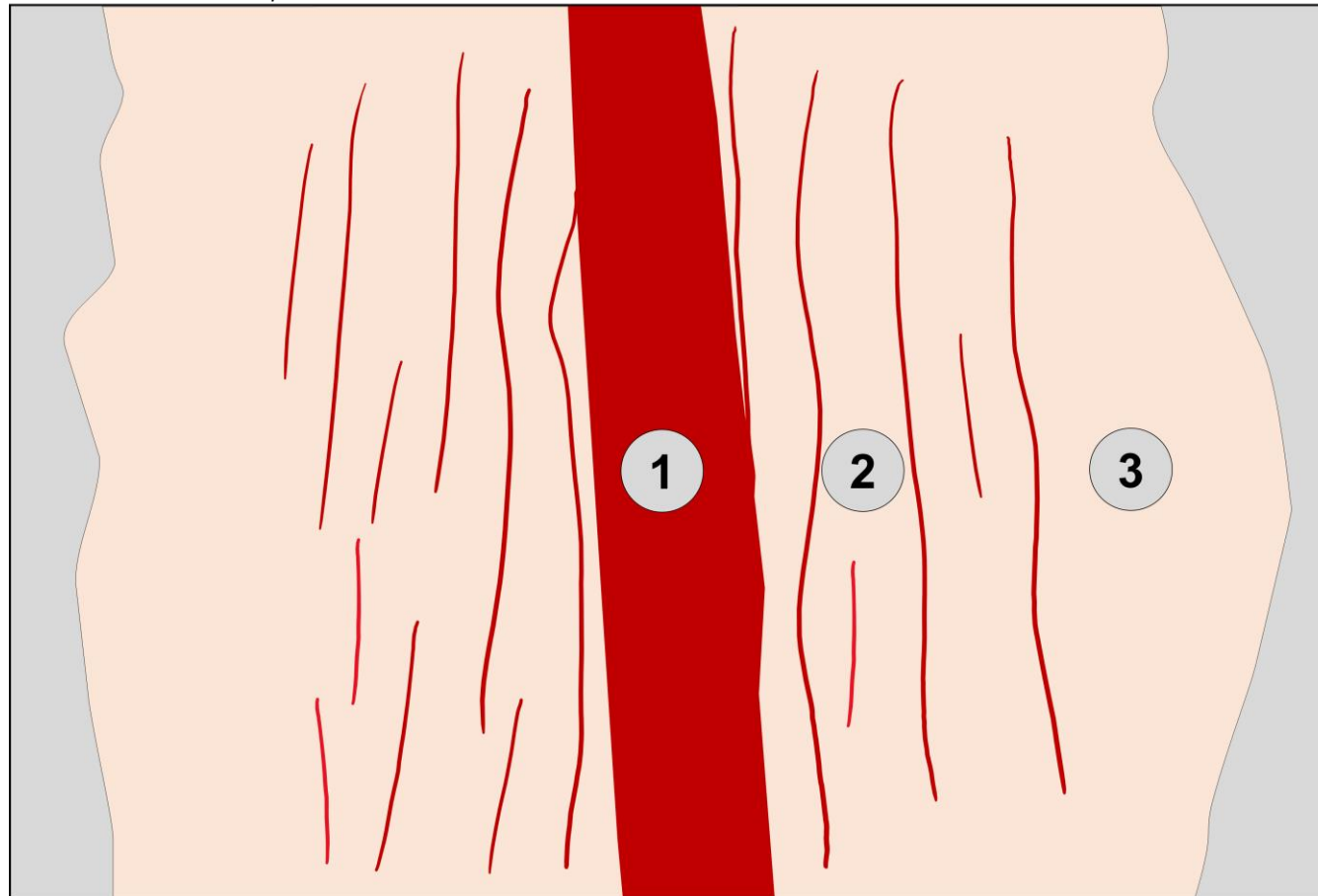
# 50 Vein Sets: Geological Likeness Informs Continuity

Vein array / vein set: 0.5 – 10m wide, Average grade 1.8-12.5 g/t Au & 0.1-5.2 % Sb

High-grade core: 0.1 – 1.5m Wide, Average Grade +20 - >1,000 g/t Au & +5 % Sb

\*Estimated true widths quoted

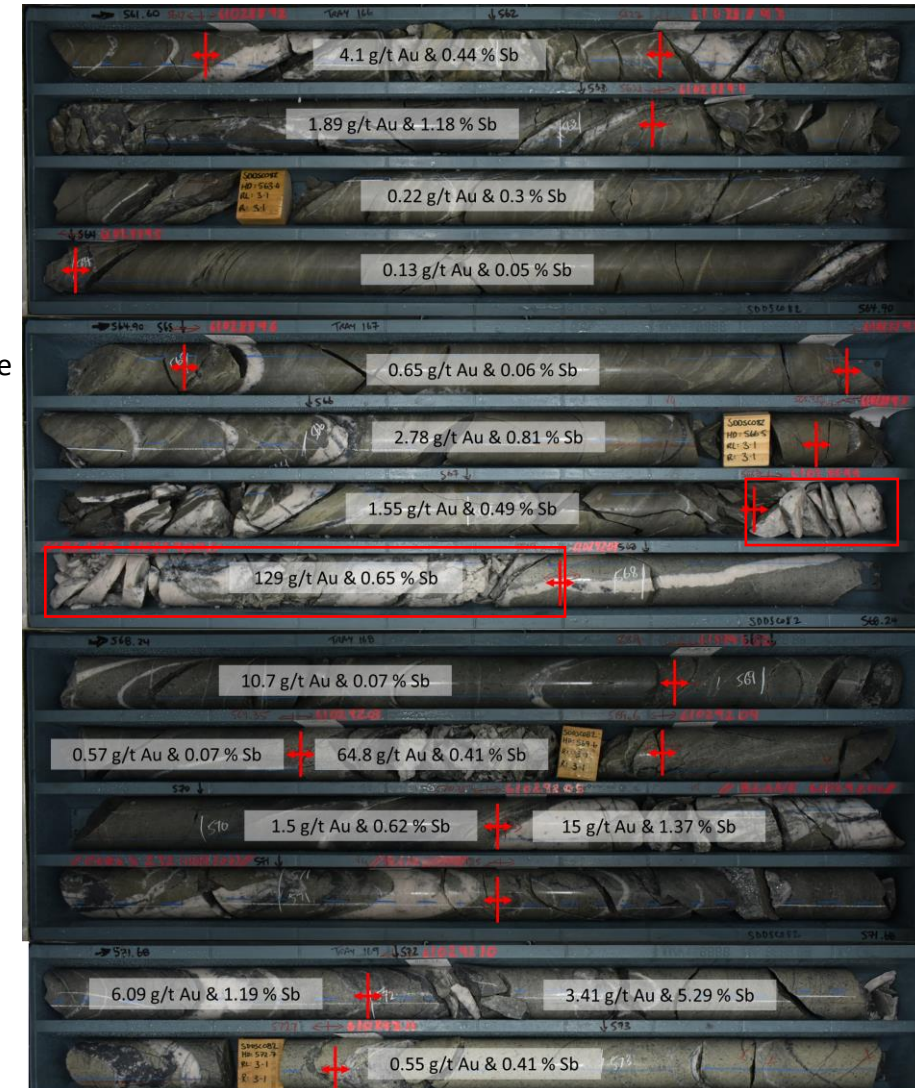
Schematic View – Looking north-west



→ Increasing pyrite intensity  
TSXV: SXGC ASX: SX2

← Increasing pyrite intensity  
←

- 1  
Shear vein –  
high-grade core
- 2  
Vein arrays –  
extension veins
- 3  
Disseminated  
pyrite



9.0 m @ 16.5 g/t AuEq (14.6 g/t Au, 1.0% Sb) from 565.8m (SDDSC082)

# Coefficient of Variation

Understanding grade continuity is crucial for high-grade gold deposits.

Low variability or coefficients of variations (CV, standard deviation over mean) in assay results **lowers geological risk and reduces the cost of capital** (less drilling/more confidence in model).

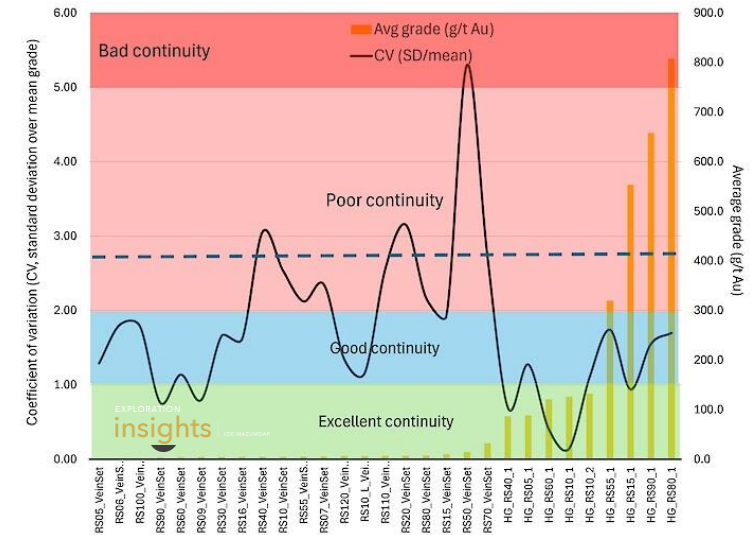
## Rising Sun:

- 636 samples from 29 vein sets
- Average true thickness 2.7m, median 2.3m
- Average 25 g/t gold (up to 808 g/t gold)
- Average **CV is 2.7**

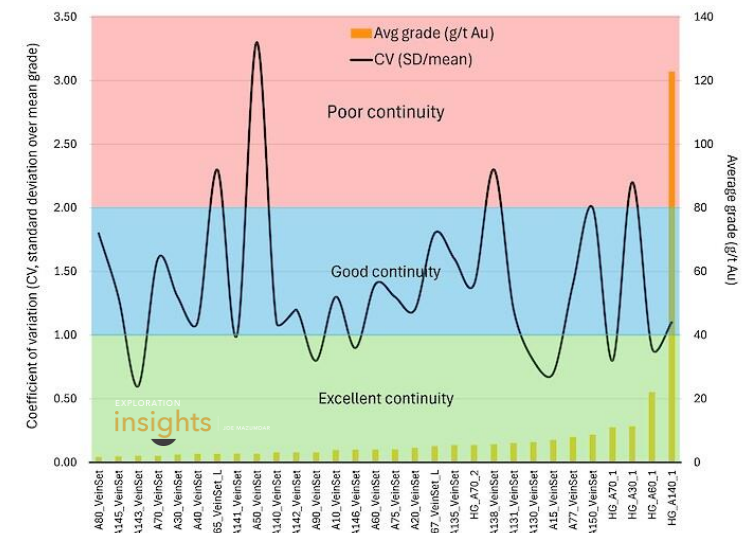
## Apollo:

- 994 samples in 30 vein sets
- Average true thickness 3.8m, median 3.4m
- Average 3.8 g/t gold.
- Average **CV is 1.8**
- **More data = declining CV**

## Rising Sun



## Apollo



# Does High-Grade Mean High Nugget? No!

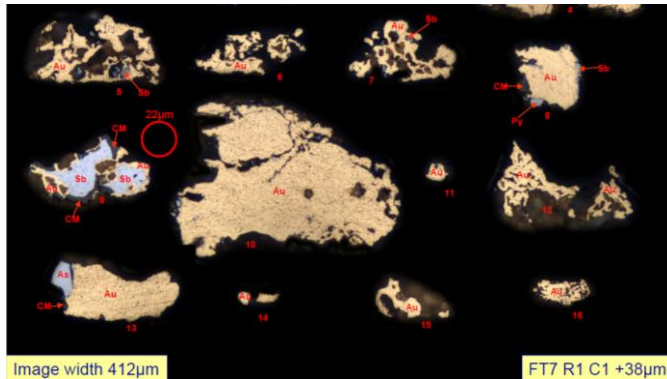
1. Victorian epizonal Au-Sb is high-grade and not nuggety  
= reconcilable, high-margin mines
2. Repeatable data in lab and in core (visible gold both sides of core)  
= confidence
3. Understanding and constraining geology leads to low CV (<2)  
= predictability and continuity



SDDSC107 from 684.7 m within assayed interval 1.0 m @ 2319 g/t AuEq (2318.4 g/t Au, 0.3 % Sb)



## Preliminary Metallurgical Test Work

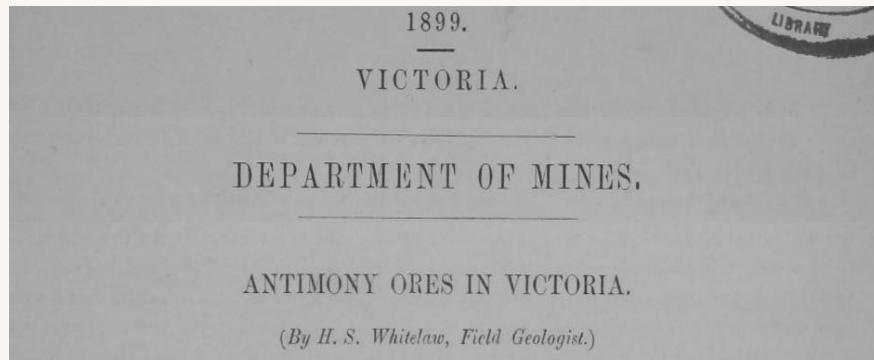


## Non-refractory, simple gravity-flotation flow sheet

- Utilized Costerfield flow sheet
- Mineralogical investigations demonstrated a high proportion of non-refractory native gold (82% - 84%).
- Gravity (18-33%) with bulk flotation resulted in 93.3% - 97.6% recovery of gold.
- Flotation alone resulted in 88.9% - 95.0% recovery of gold in an antimony-gold concentrate:
  - Grading 32% - 52% Sb (87.1% - 93.8% recovery)
  - 81.4 g/t – 313.6 g/t Au (40% of feed gold) with low to moderate arsenic contents (0.4% and 2.6%)
  - Opportunities to blend or float sulphide concentrate
  - 96% - 98% of the contained gold was native gold
- Next Steps:
  - Optimize for gold into gravity and minimizing As into Sb-Au con (blending, sequential flotation)



# Antimony – Yesterday's and Today's Critical Metal



**Historically and economically, antimony is the second most important metallic commodity in Victoria after gold.**



**The Victoria gold mining industry practically closed at the onset of WW1.** Except antimony, mandated by the Imperial Government under the Munitions Act, 1915 to ship concentrates to the St. Helens Smelting and Refining Company in the UK

## The Critical Minerals Institute Identifies the 14 Most Elusive Critical Minerals in the World and Launches New Website

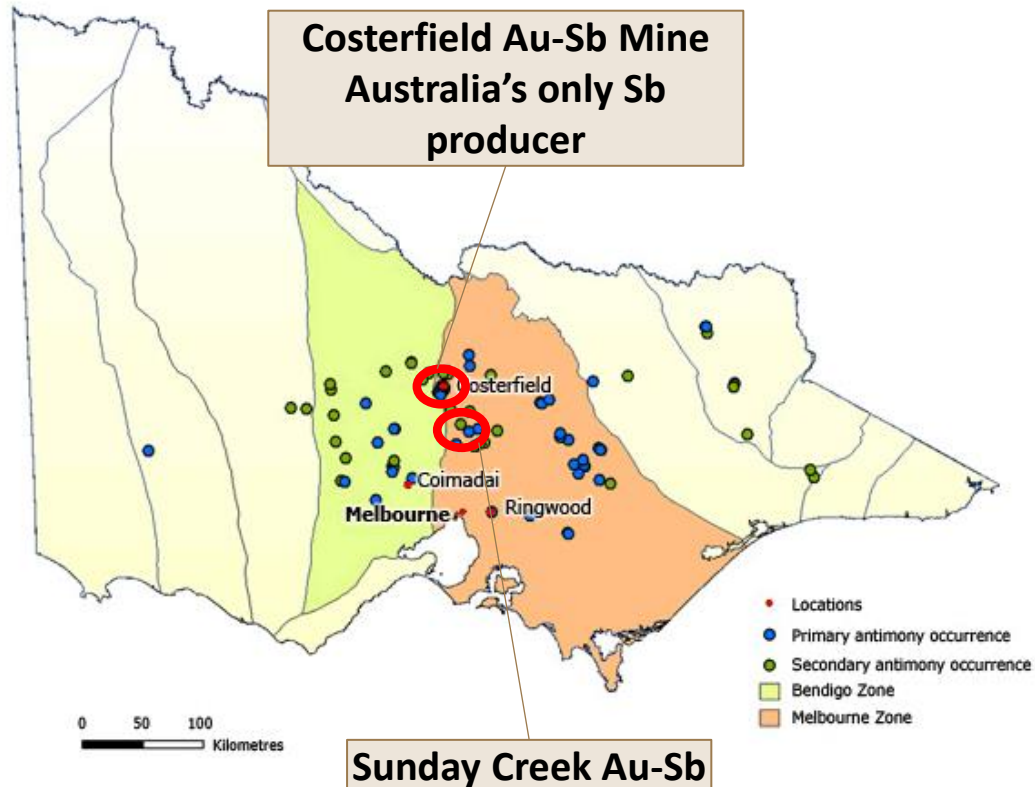
January 18, 2023(<https://criticalmineralsinstitute.com/2023/01/18/>)

News Releases (<https://criticalmineralsinstitute.com/category/news-releases/>)



- |                  |                             |  |
|------------------|-----------------------------|--|
| 1. Antimony (sb) | 6. Indium (In)              | 11. Rare Earth Elements – of 17 REEs: neodymium, praseodymium, dysprosium, Terbium |
| 2. Bismuth (Bi)  | 7. Lithium (Li)             | 12. Tantalum (Ta)  |
| 3. Cobalt (Co)   | 8. Magnesium (Mg)           | 13. Tungsten (W)   |
| 4. Gallium (Ga)  | 9. Niobium (Nb)             | 14. Vanadium (V)   |
| 5. Graphite (C)  | 10. Platinum group of metal |  |

# Antimony from Greek “anti” (not) and “monos” (alone)



- Second most important metal in Victoria
- 1870s: European wars
- WW1: Imperial Munitions Act to ship concentrates to the UK

Governments formulate lists of critical minerals according to their industrial requirements and strategic evaluations of supply risks.



**Coking Coal**  
The European Union is a significant importer of coking coal used in steel production.

 China

China leads in mineral processing, controlling 100% of the world's refined supply of natural graphite, over 90% of manganese, 70% of cobalt, nearly 60% of lithium, and 40% of copper refining.

AL	Sb
Aluminum/	Antimony

**Arsenic**

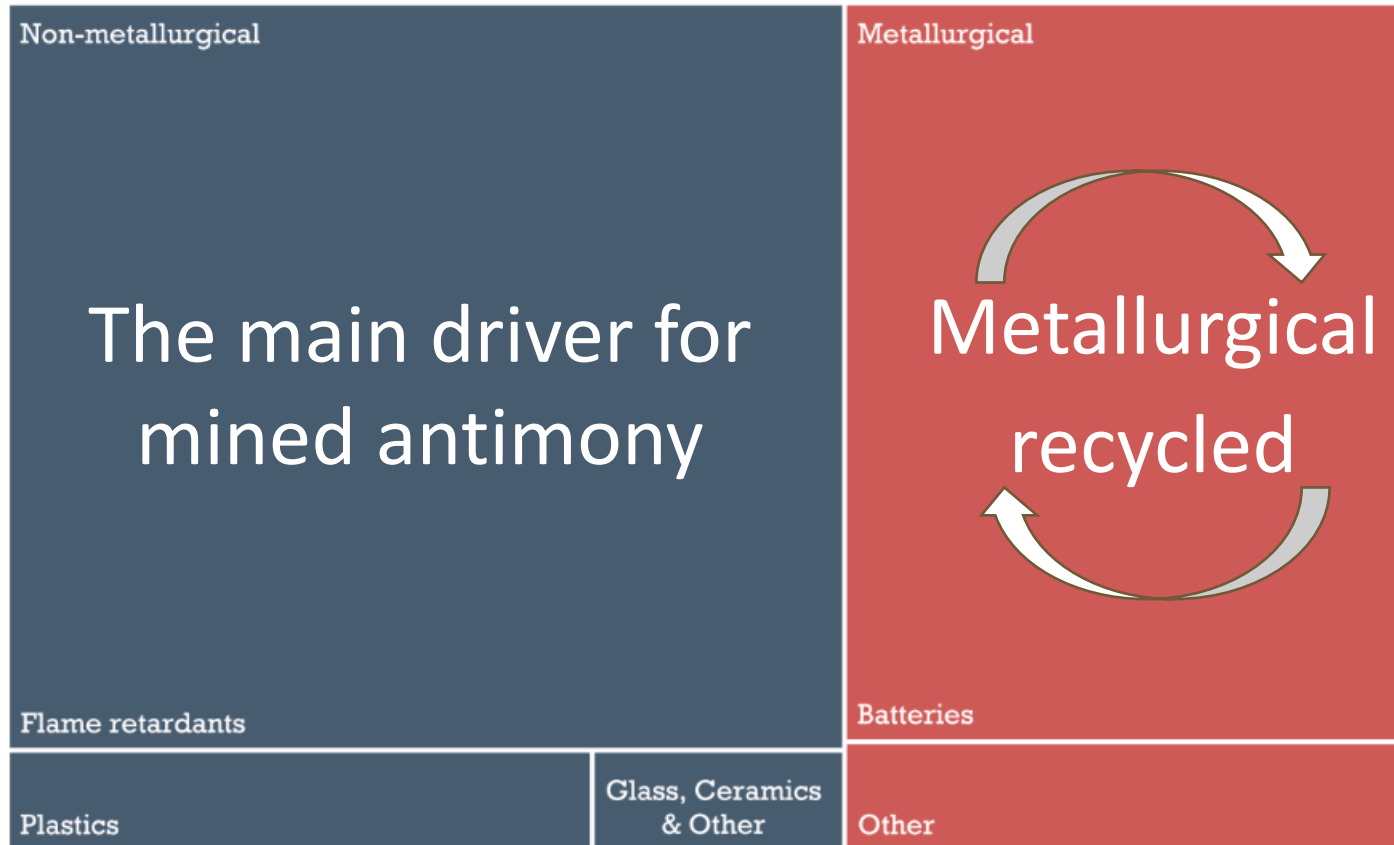


U.S.

<https://www.visualcapitalist.com/the-critical-minerals-to-china-eu-and-u-s-national-security/>

Note: Data as of September 2023.

# Demand



Source: Blue

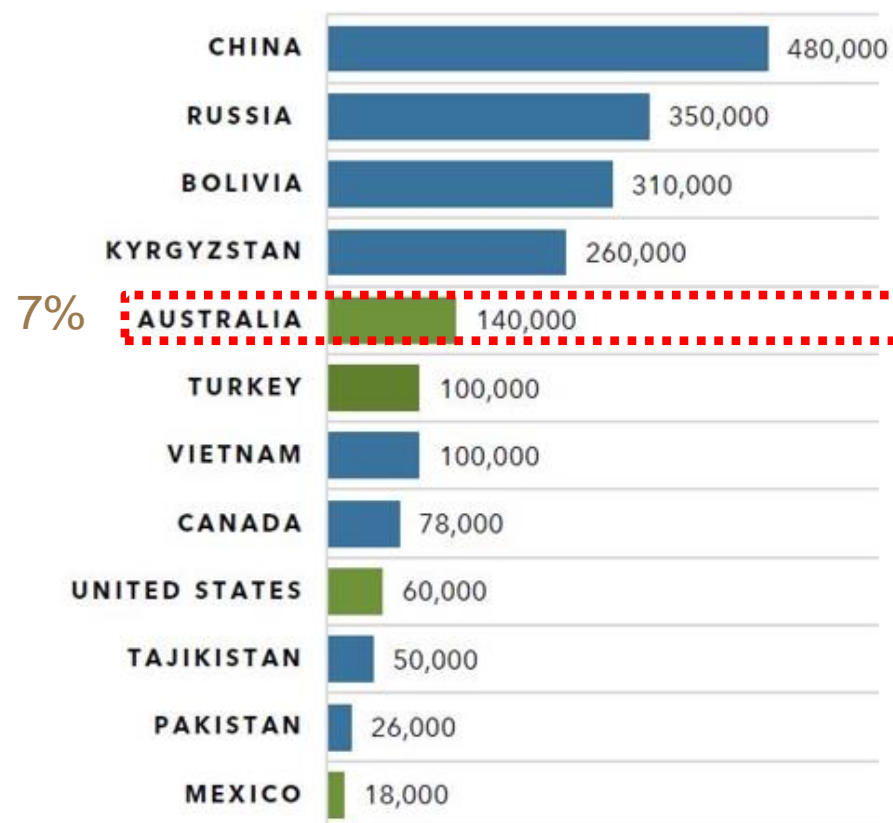
## Critical and Strategic

- Defence critical
- Semiconductors
- Solar panels (17% global in 2022)
- Battery metal for its role in liquid metal (Sb-Ca Ambri – Reliance/Gates)

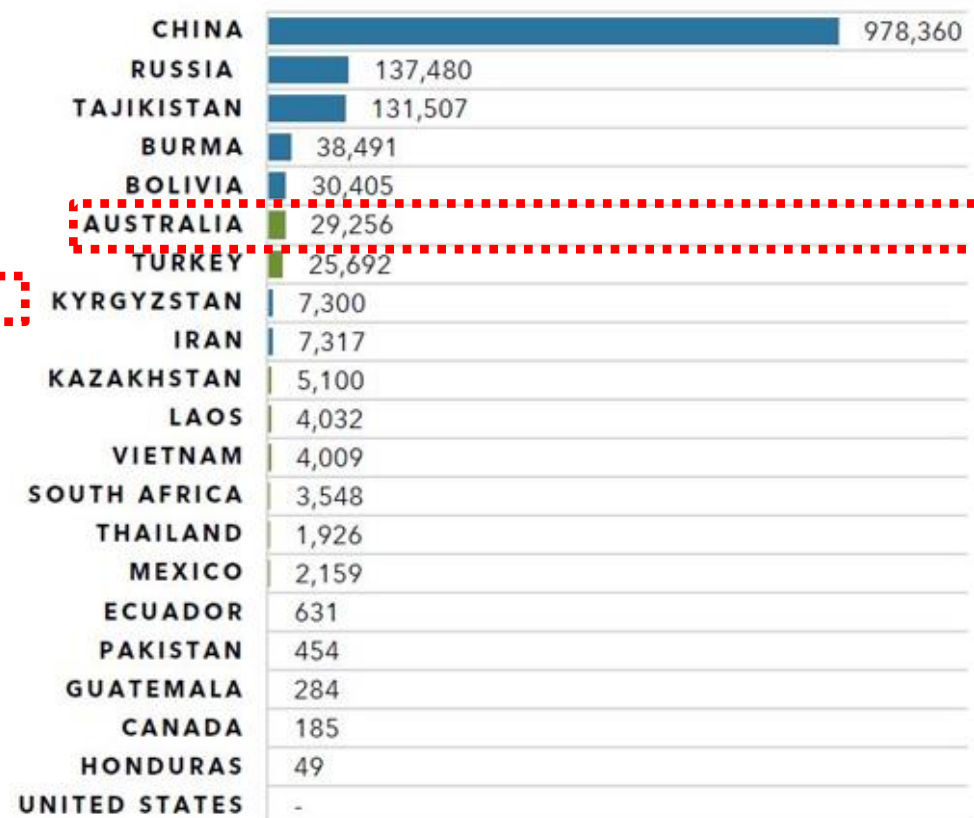


# Supply (Russia + China = 82%)


REPORTED 2020 WORLD  
RESERVES ANTIMONY  
(METRIC TONNES)



CUMMULATIVE WORLD  
PRODUCTION ANTIMONY  
METRIC TONNES  
(2013-2020)



# AUKUS and China Export Restrictions

 Australian Government  
Defence

Defence Ministers

Current Ministers Media releases Speeches Statements Transcripts Previous Ministers

← Home / Media releases / Passage of priority AUKUS submarine and export control exemption legislation by the United States Congress

## Passage of priority AUKUS submarine and export control exemption legislation by the United States Congress

15 DECEMBER 2023

- **Adds Australia and the United Kingdom to Title III of the US Defense Production Act.** This Act allows the US Government to incentivise its industrial base to expand the production and supply of critical materials and goods. Australia's addition will open new opportunities for Australian based industry to directly compete for business with the US Government.

CSIS | CENTER FOR STRATEGIC & INTERNATIONAL STUDIES

Regions Topics

## China's Antimony Export Restrictions: The Impact on U.S. National Security

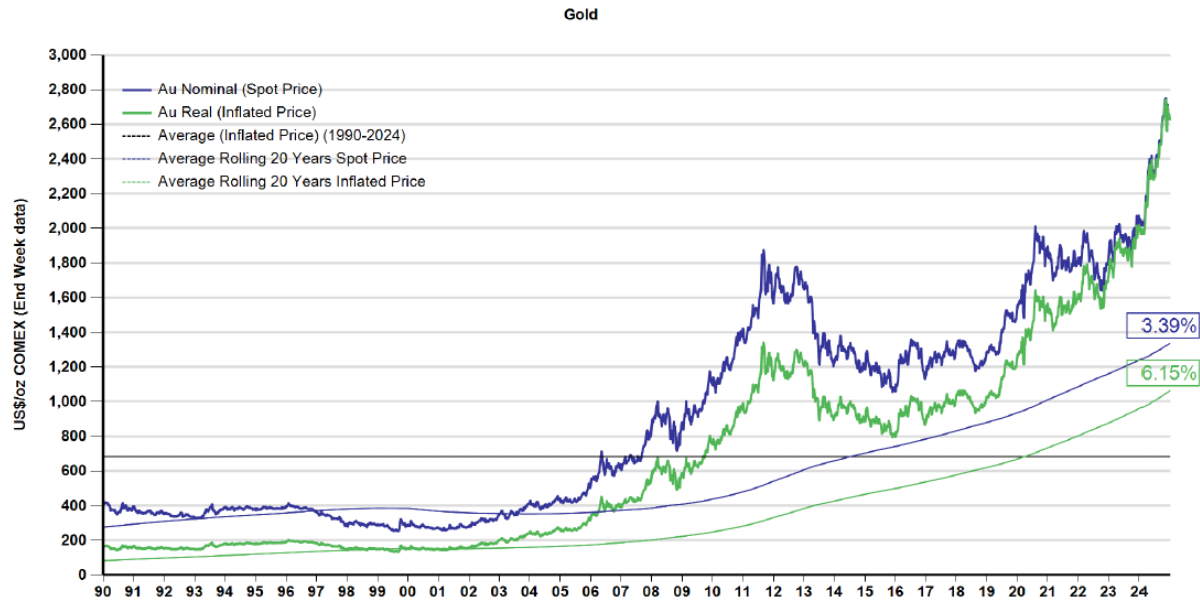


Photo: Milan via Adobe Stock

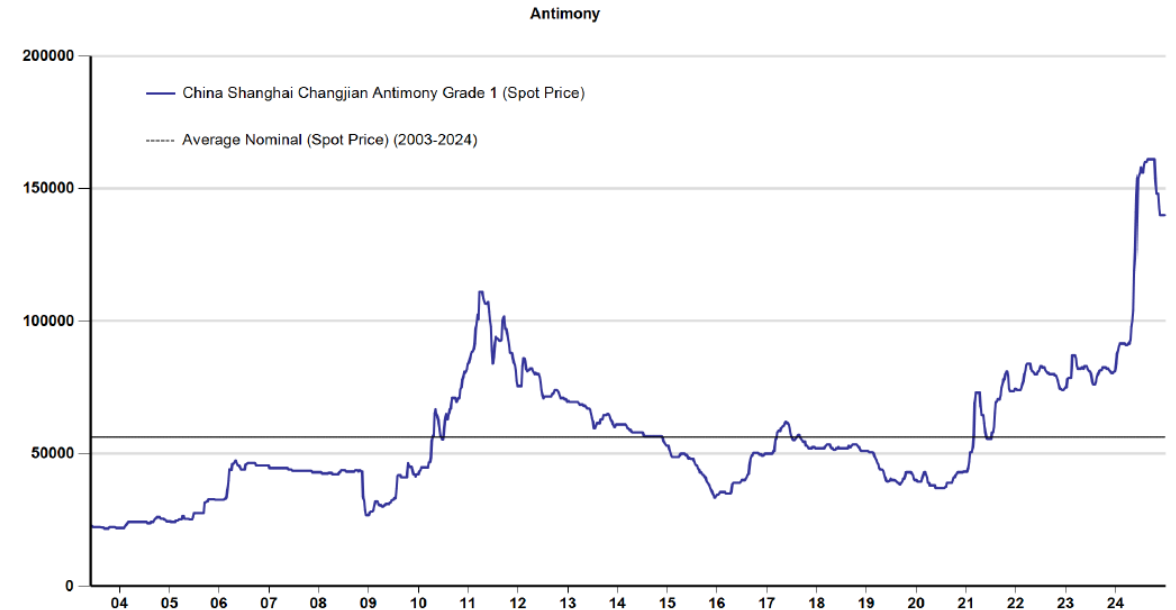
**SXGC are members of Defense Industrial Base Consortium (DIBC)**  
**<https://www.dibconsortium.org/>**

# Not only strategic, also valuable

## Gold



## Antimony





# Location, Location, Location: Positioning for Development

The company is actively de-risking the project through pre-development activities to be in an optimal position for design, feasibility studies and permitting



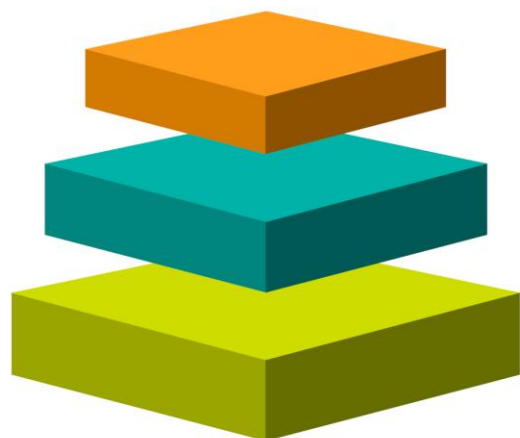
# Positioning For Development with Victoria Open for Business

**Two major Victorian mines permitted in Dec 2024**

**Critical Mineral Roadmap** – Mine assessment review of no longer than 18 months, Critical Mineral Priority Development Zones for mineral sands, antimony and other critical minerals.

**Daniel Thompson, Director, Resources Victoria Approvals Coordination, July 15, 2024**

## Session overview



### VICTORIA IS OPEN FOR BUSINESS

Outline of Government initiatives that aim to enable a thriving earth resources sector in Victoria

### APPROVALS COORDINATION

A new team dedicated to provide support for resources sector proponents and maximise their chances of success

### INDUSTRY SUPPORT SERVICES

Resources businesses like SXG are being actively supported along their development journeys

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3

## Summary

The Victorian Government is committed to enable a thriving earth resources sector

1

2

RVAC provides dedicated support to maximise proponents' chances of success

3

SXG's Sunday Creek opportunity meets all the criteria to receive full RVAC assistance

4

RVAC has already helped SXG on multiple fronts of its resource development journey

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# Victorian Sustained Mine Permitting and Development

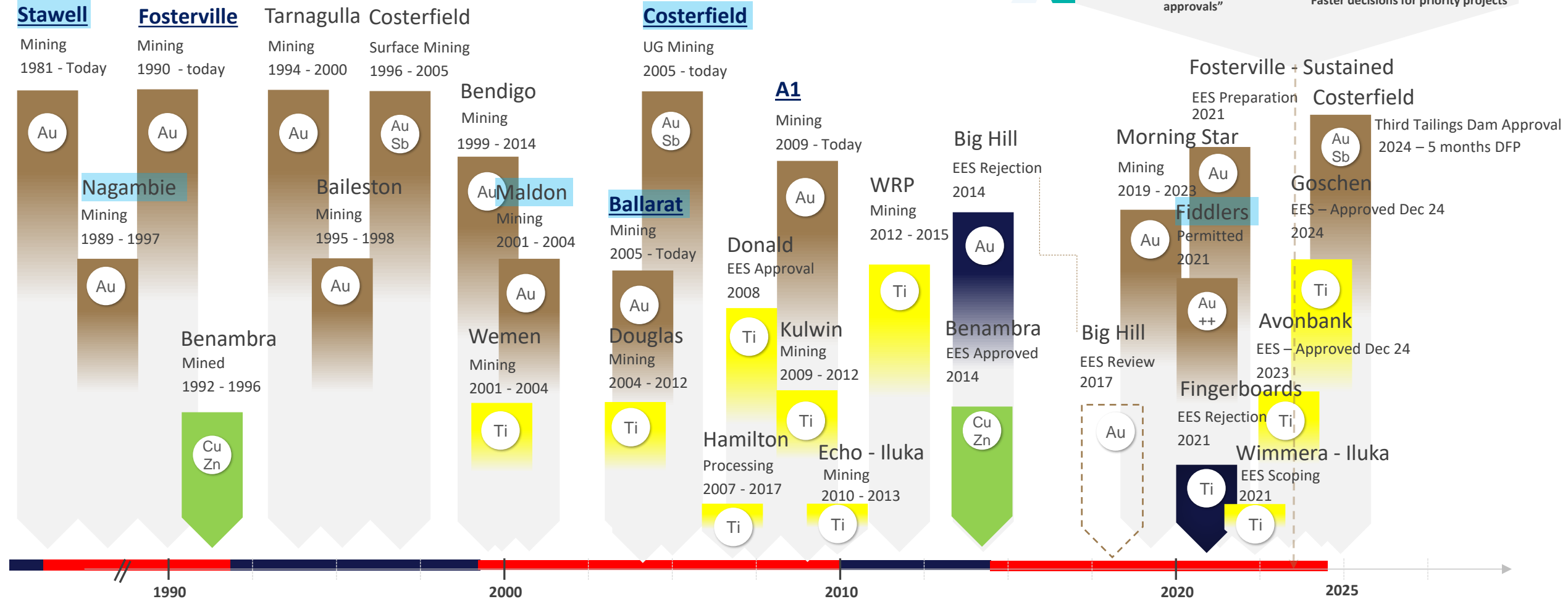
## 5 Gold Mines Operating Today

### Operating Mines Today

**VICTORIAN GOVERNMENT INITIATIVES**

**Approvals Coordination**  
"A\$23.3m to drive investment by removing uncertainty around resource approvals"

**Development Facilitation Program ("DFP")**  
"Faster decisions for priority projects"



TSXV: SXGC ASX: SX2

<https://resources.vic.gov.au/about-us/our-role/resources-victoria-approvals-coordination>  
<https://www.southerncrossgold.com/investor/historical-announcements-asx-sxg>  
<https://www.planning.vic.gov.au/planning-approvals/development-facilitation-program>





# Our People



**Locally based staff** – living in the communities in which we work



**Australian based board** – focused on creating an ethical, shared value company with strong ESG credentials that employees and investors can be proud of



**Strong relationships:** Community Reference Group, Shire, Taungurung Lands and Waters Council, State and Federal Government



# Directors and Key Management



**Tom Eadie**  
**Non- Executive  
Chairman**

Explorer, mining executive and company director with many significant mineral discoveries and several successful companies to his name (Pasminco, Syrah, Copper Strike)  
Geologist with over 40 years' experience in the resources industry



**Michael Hudson**  
**President & CEO,  
Director**

Explorationist and entrepreneur, developed and financed mineral exploration properties globally over 30 years. Key member behind multiple discoveries. Co-founder and director of Hannan Metals Ltd (TSXV:HAN)



**Georgina Carnegie**  
**Non-Executive  
Director**

Experienced executive within Australian government and global corporate sectors  
Advisory roles in public and private mining and insurance sectors, OECD, Asian business councils and Australian university sector



**David Henstridge**  
**Non-Executive  
Director**

Geologist with over 50 years' experience in the mining industry including 20 years in managing public-listed companies  
Associated with many mineral discoveries worldwide including in Australia, Peru & Finland

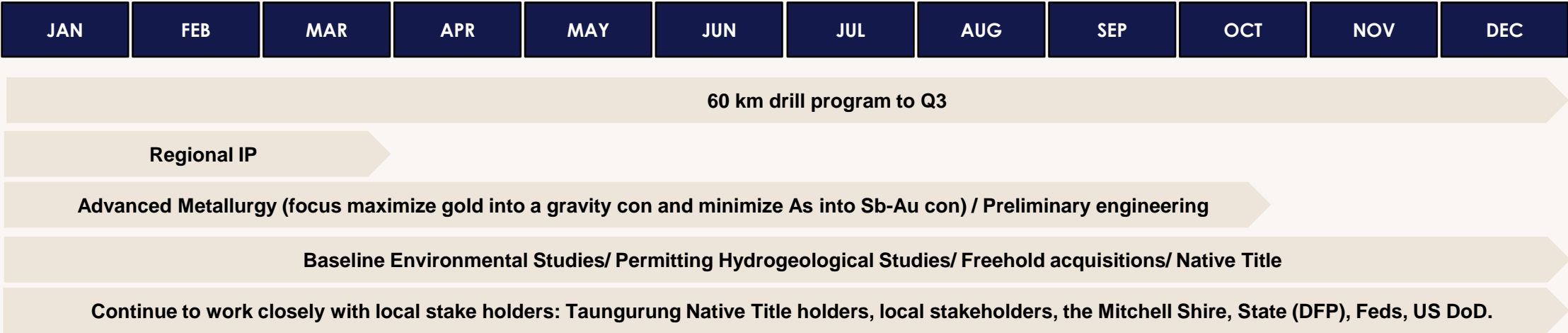


**Lisa Gibbons**  
**General Manager**

30+ years' experience as a geologist in exploration & resource development  
Won the MCA Victoria 2022 Exceptional Woman in Victorian Resources Award for her career achievements, advocacy of women and contribution to social licence and the community

# Timetable Next Steps

2025



**Aim to update the Exploration Target by July 2025**



**11km of strike with old workings, early-stage drill hits and soil sampling.**  
Regional scale geophysical survey over this trend. One rig to focus on regional drilling.



**60 km to Q3 2025**



# Progress



**Highest hit rate globally, grade increasing at depth:**

- 55 intersections > 100 AuEq g/t x m from 70.7 km drilling
- 455.3 m @ 7.2 g/t Au including 1.0 m @ 2,318 g/t Au
- 331.5 m @ 6.8 g/t Au including 13.1 m @ 91.7 g/t Au



**Free milling gold, 20% antimony by-product (defence critical)**



**Large exploration upside, only 3% of trend tested**



**167 drill holes for 70.7 km reported to date, 60 km drill program to Q3 2025**



**Seasoned discovery team focussed on value creation per share**



**Supportive shareholders to underpin value creation lifecycle**  
Cash A\$22m, 1,055 ha freehold



## Contact Us



[info@southerncrossgold.com](mailto:info@southerncrossgold.com)



[www.southerncrossgold.com](http://www.southerncrossgold.com)



**Corporate Secretary**

Mariana Bermudez  
[mbermudez@chasemgt.com](mailto:mbermudez@chasemgt.com)  
+1 604 685 9316

**Corporate Development**

Nicholas Mead  
[nm@southerncrossgold.com](mailto:nm@southerncrossgold.com)  
+61 415 153 122

**Registered Office**

1305 1090 West Georgia St  
Vancouver V6E3V7 BC  
Canada

**Subsidiary Office**

Level 21  
459 Collins St  
Melbourne 3000 Victoria  
Australia

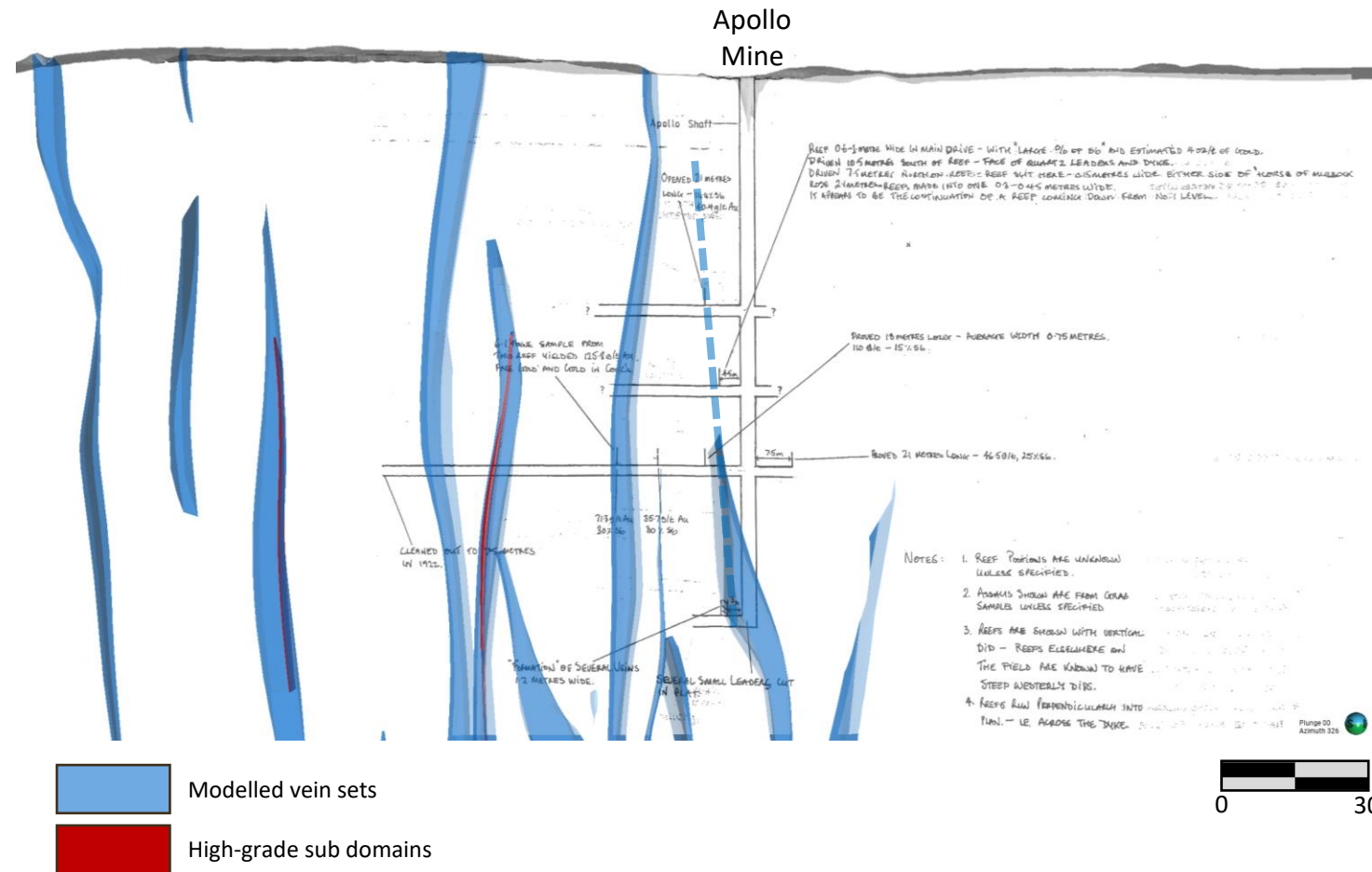


# Appendices

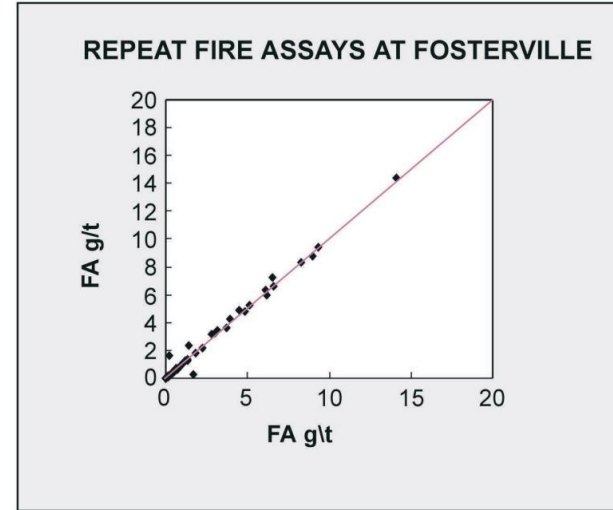
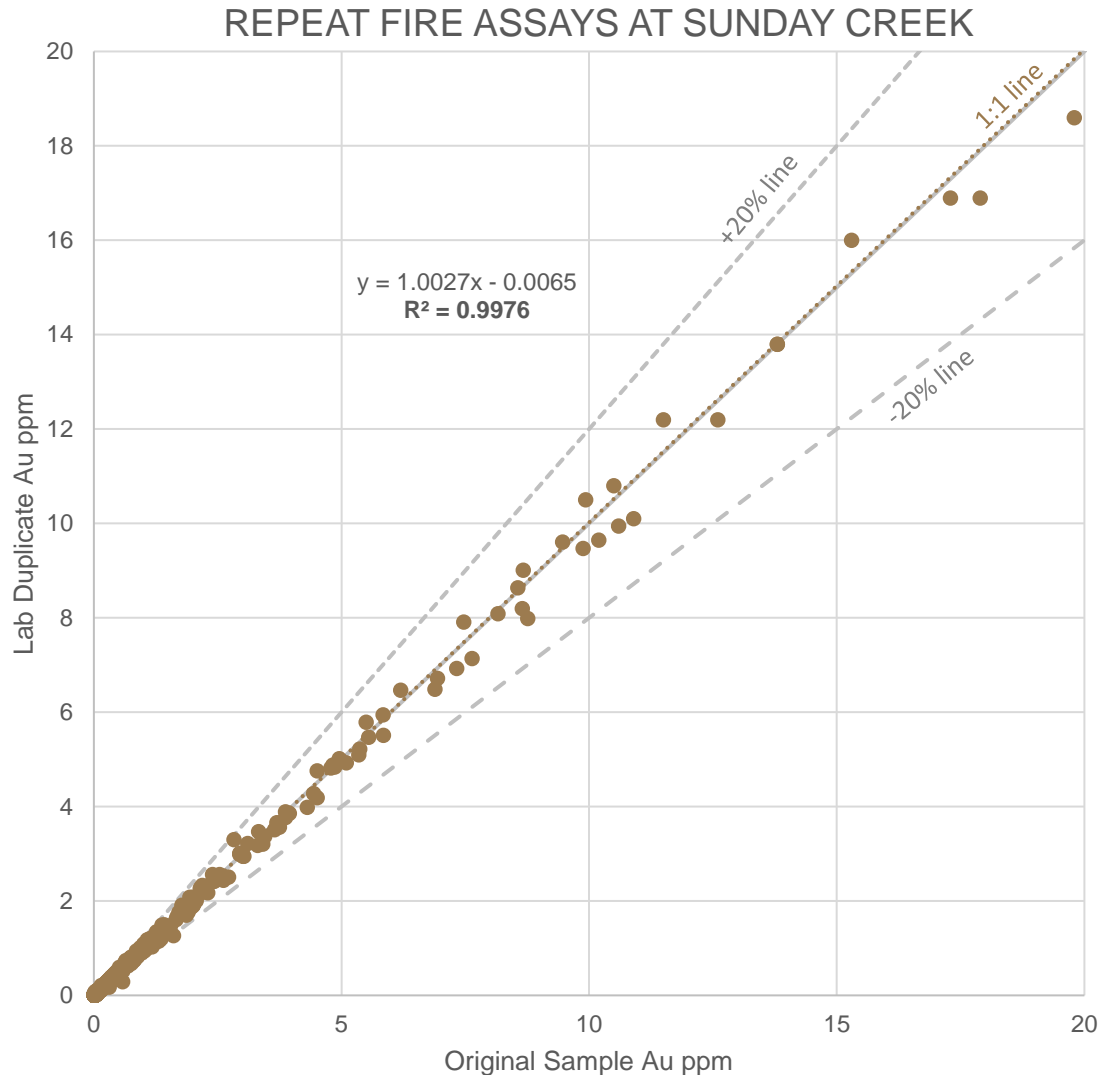


# How to model and predict this style?

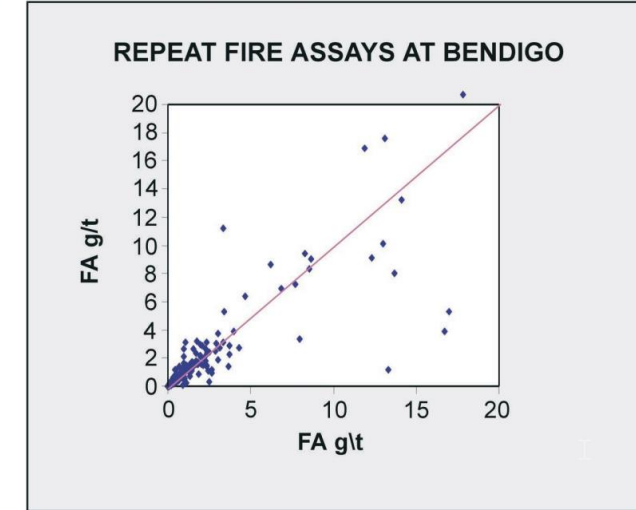
- Continuity of vein sets and grades are described in three dimensions across multiple datasets including:
  - ✓ Fifty years of historic mining records and drilled continuity below mined areas
  - ✓ Geological likeness
  - ✓ Structural oriented drill core data, quality control data and structural controls on mineralization trends
  - ✓ Geostatistics that demonstrate a low coefficient of variation



# Lab Duplicates Demonstrate Homogeneity of Samples



*Fosterville – Kirkland Lake Gold  
December 2016 Technical report*



*Bendigo – GBM gold*

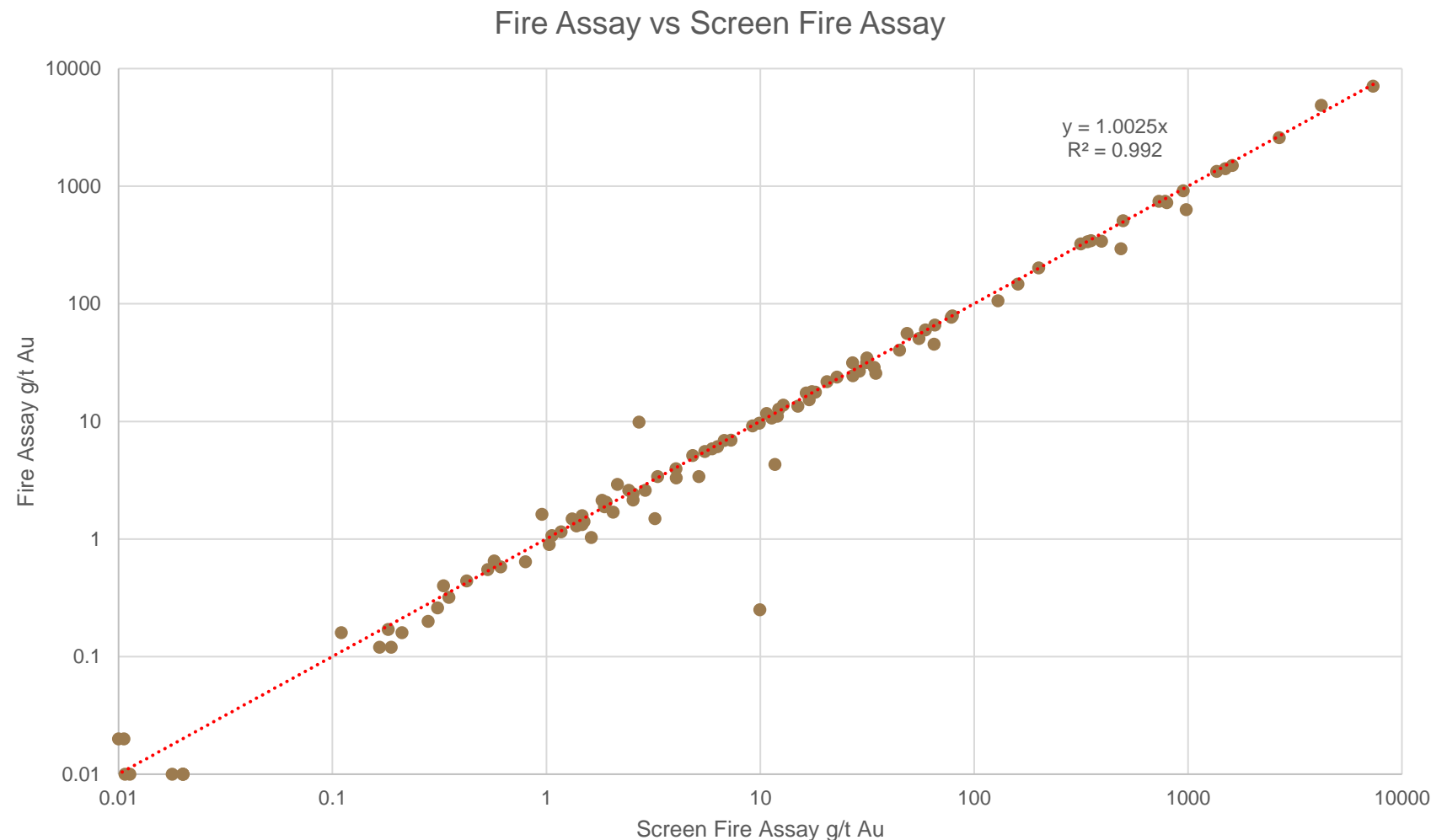
- ✓ Comparison of repeat fire assay data at Sunday Creek, Bendigo and Fosterville. All samples prepared in an LM5 pulverizer to nominal -75 micron with two samples taken from each pulp

# High Grade is Not Always Nuggetty: SFA and FA Duplicates



SDDSC117: 0.5 m @ 473.1 g/t AuEq (473.0 g/t Au, 0.0% Sb) from 913.6 m

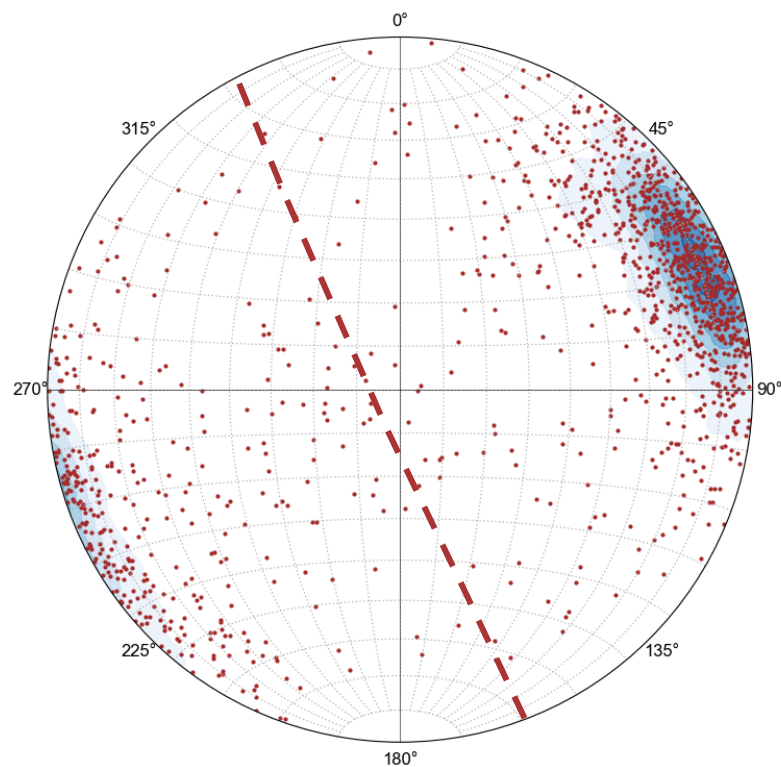
TSXV: SXGC ASX: SX2



Highly repeatable results between Fire Assay (25g charge) and Screen Fire Assay (entire sample to extinction)

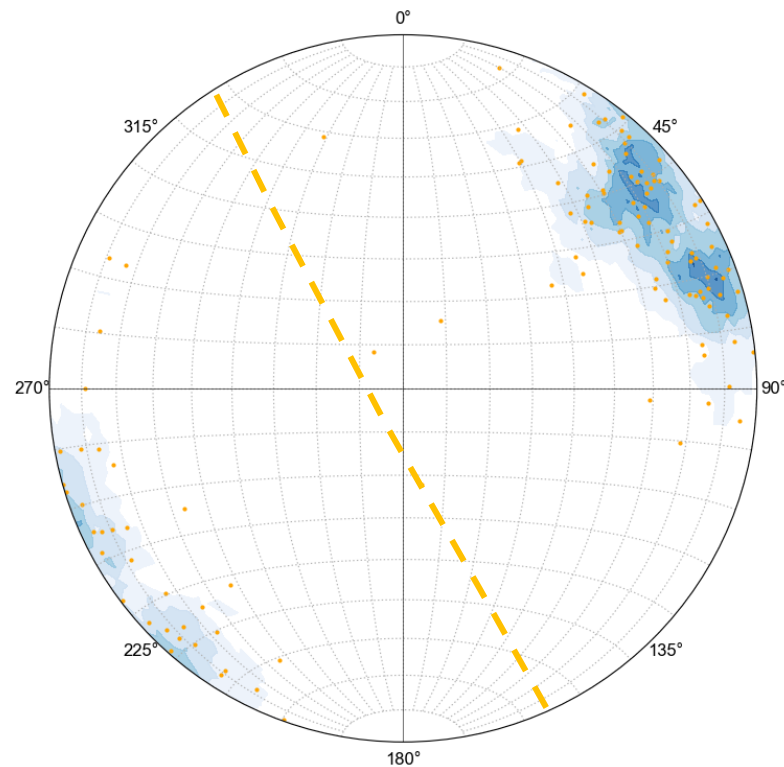


# Structural Geology: Stereonets Inform Continuity



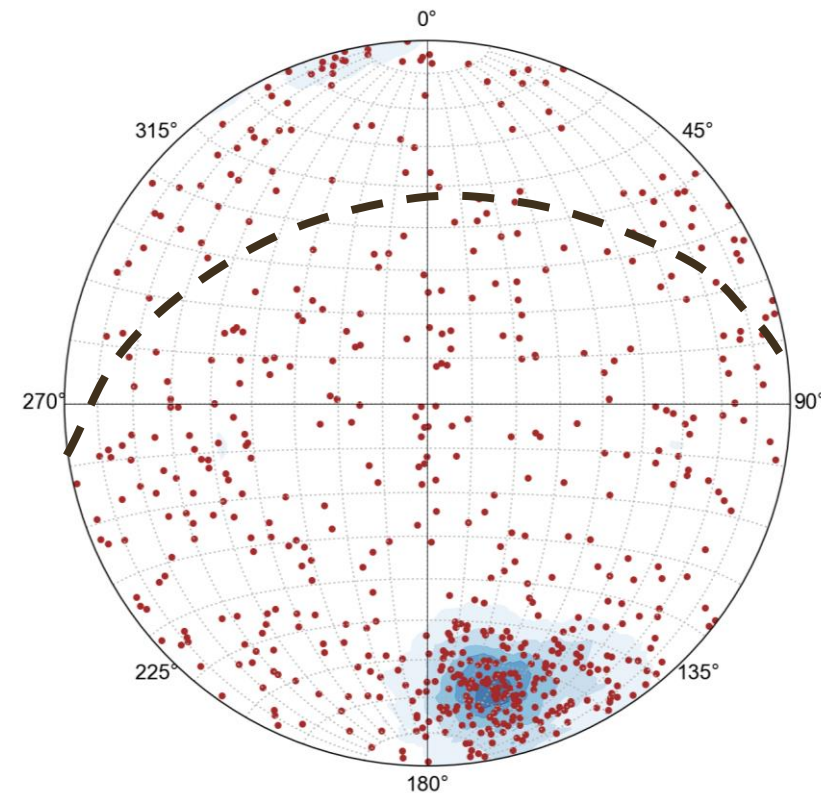
Stibnite bearing veins  
high confidence orientations  
N=1355

Subvertical vein arrays  
and shear veins



Visible Gold bearing veins –  
high confidence orientations  
N=118

Consistent with Sb  
bearing veins

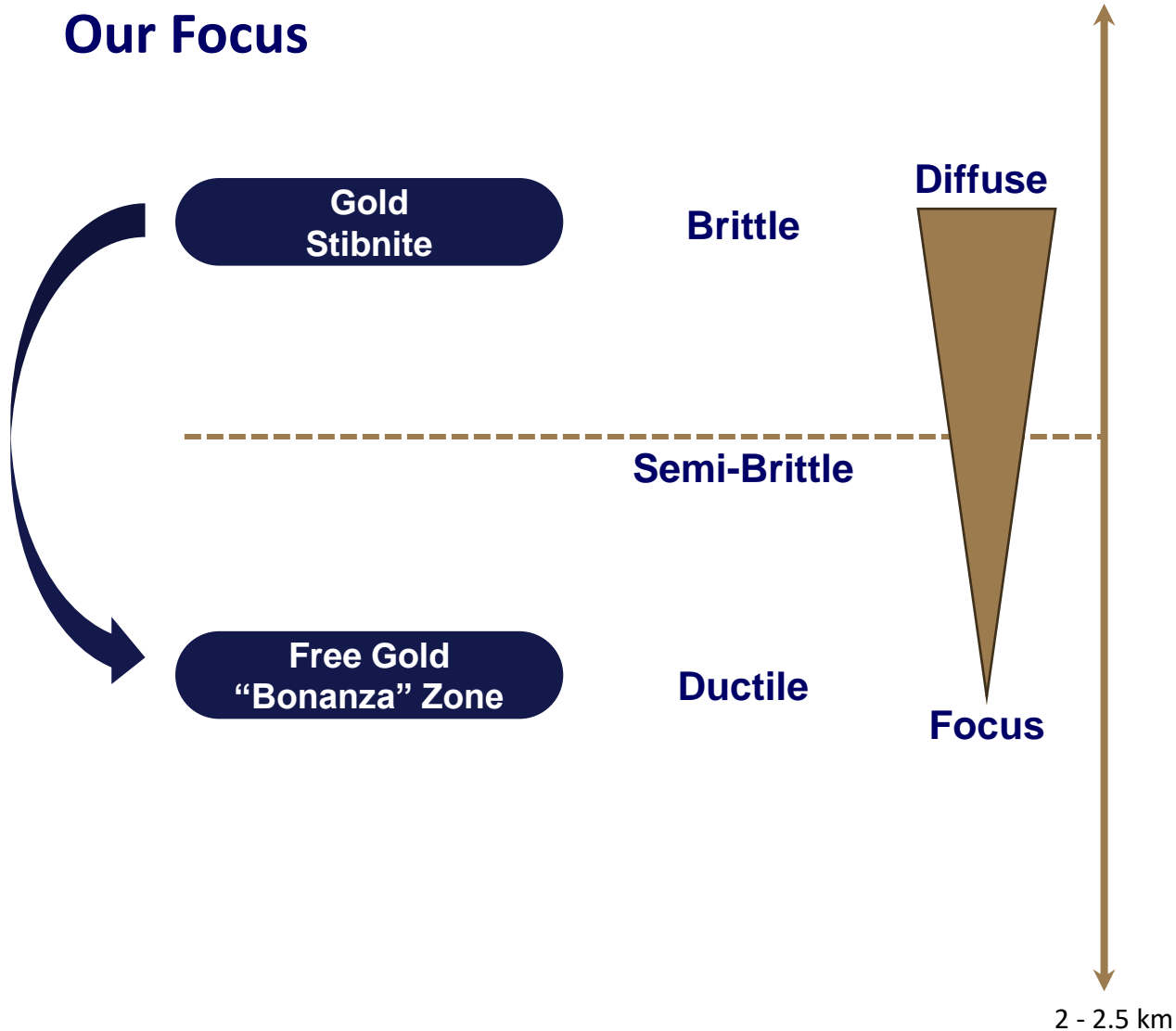


Pyrite veinlets  
N = 609

Early lithological control  
– follows dyke trend

# Brittle to Ductile Transition

## Our Focus

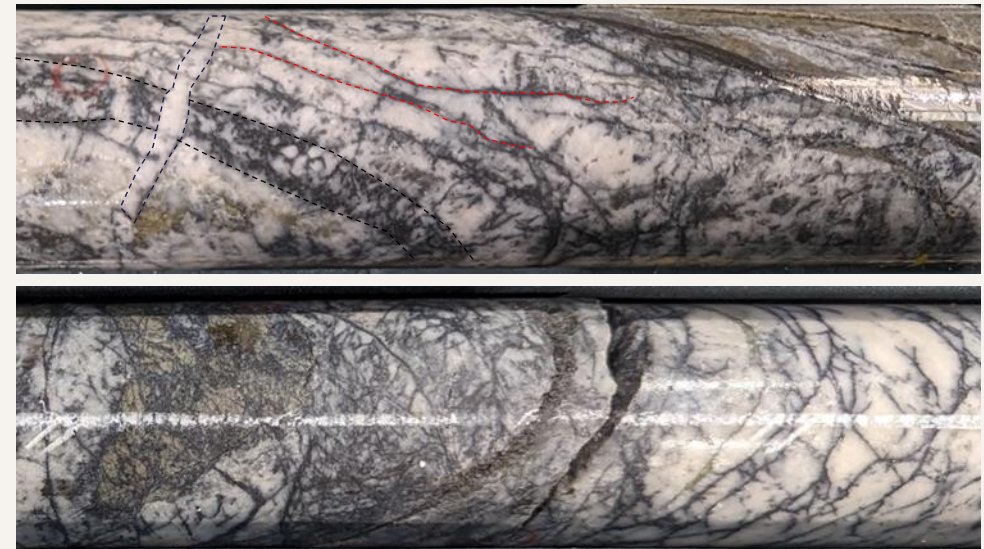


### Brittle Features



Quartz-carbonate-stibnite extension veins in altered dyke

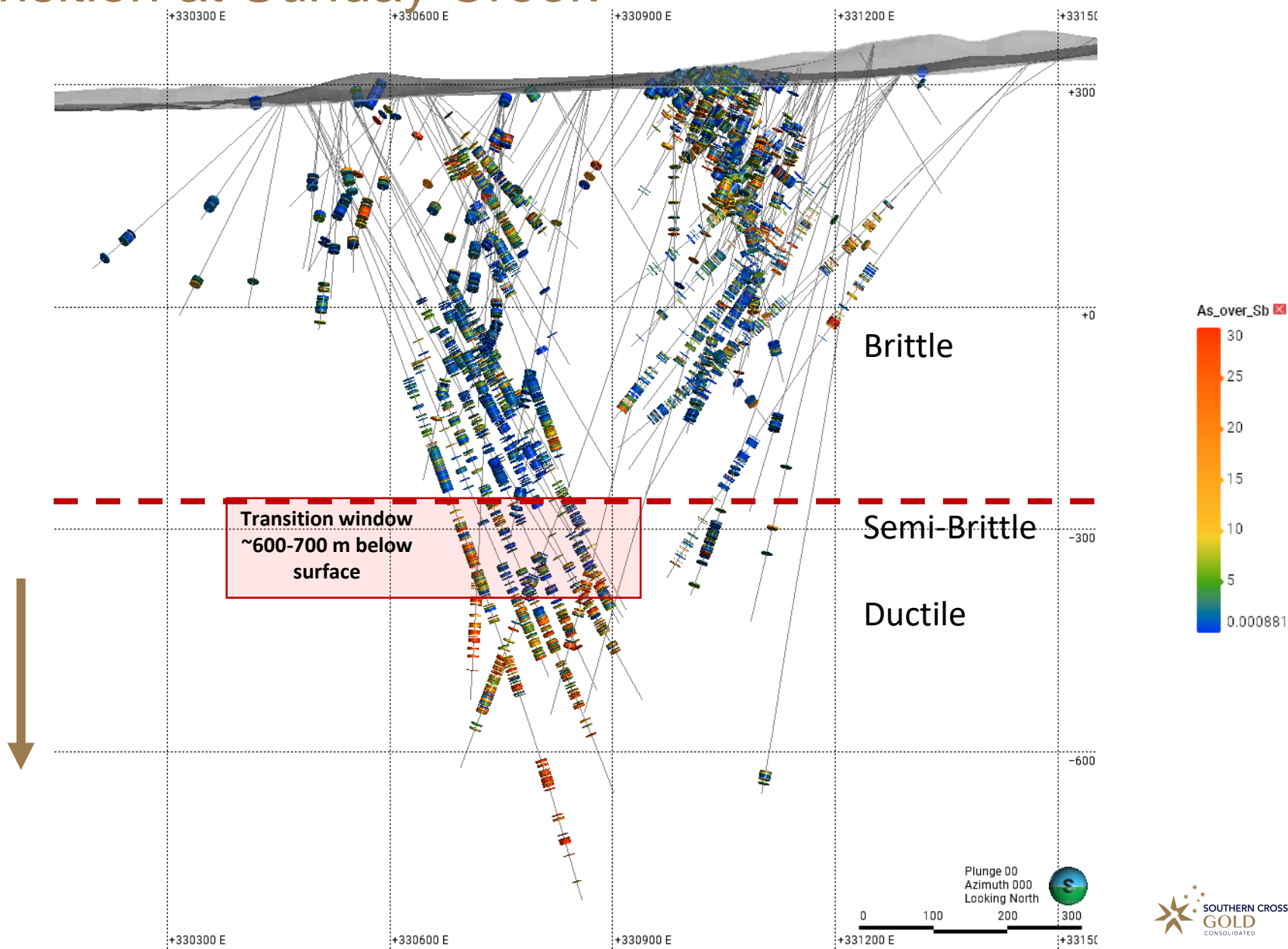
### Ductile Features



# Brittle to Ductile Transition at Sunday Creek

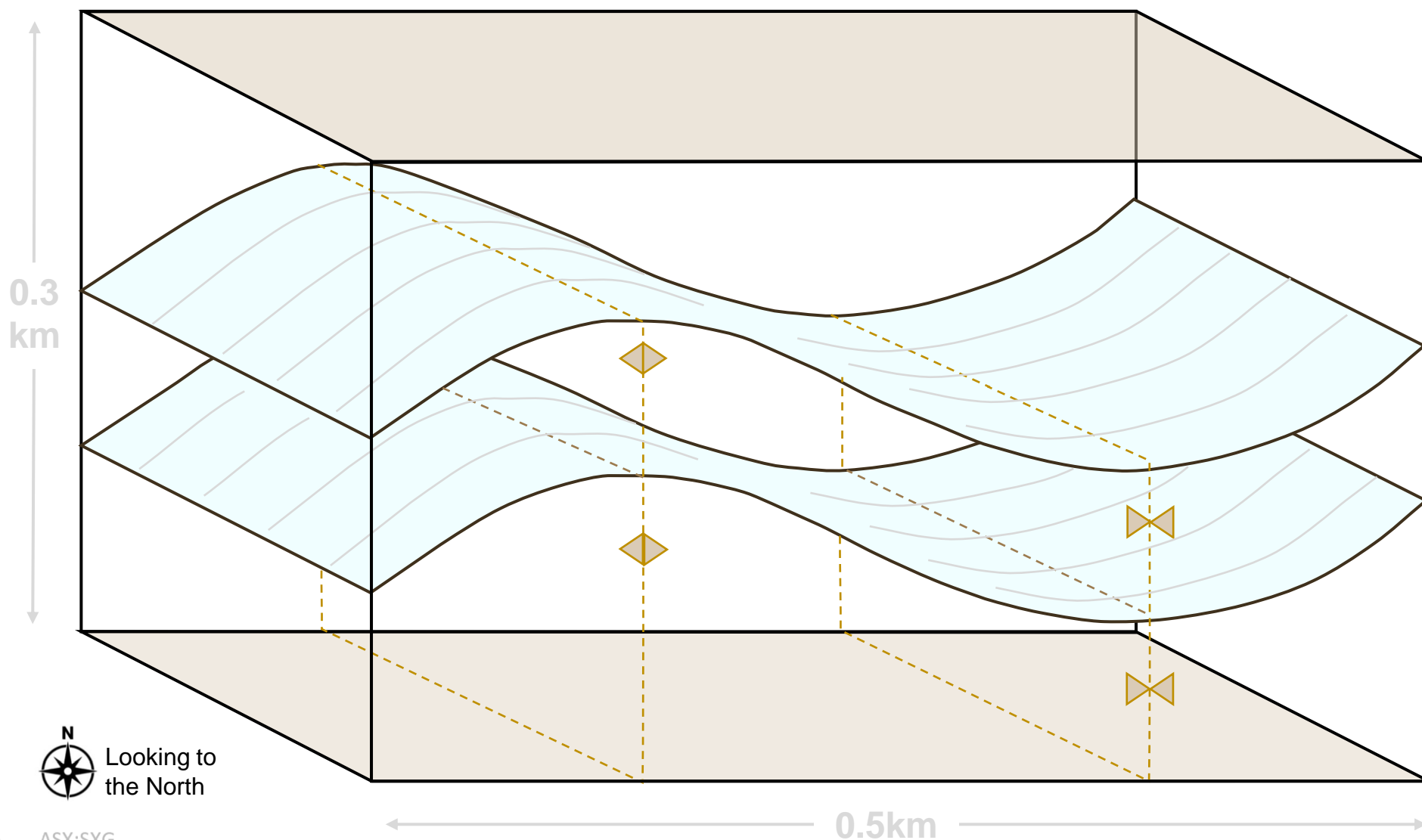
Dominant brittle features

Decreasing Sb  
Increased  
observation of  
Fibrous  
Sulphosalts





# Paragenesis of Sunday Creek Au-Sb mineralization



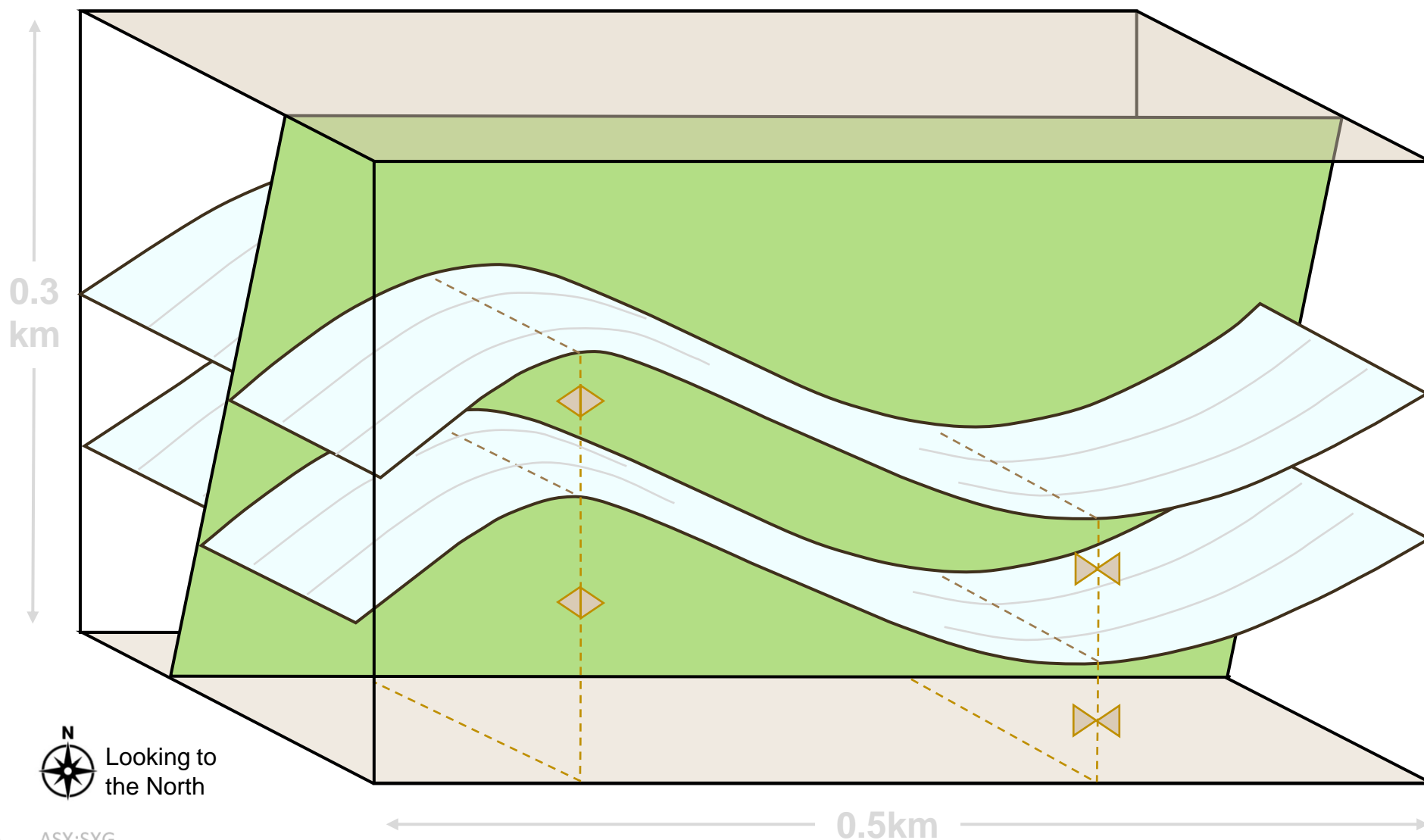
## DESCRIPTION:

Northeast/southwest compression during the Middle Devonian Tabberabberan Orogeny creates gentle to open folding of sediments

## LEGEND

-  Syncline fold hinge
-  Anticline fold hinge
-  Sb Au bearing Shear Veins & Vein sets
-  Stratigraphic package - Sandstone
-  Major Fault
-  Minor Fault
-  Alteration, Dyke & Dyke Breccia

# Paragenesis of Sunday Creek Au-Sb mineralization



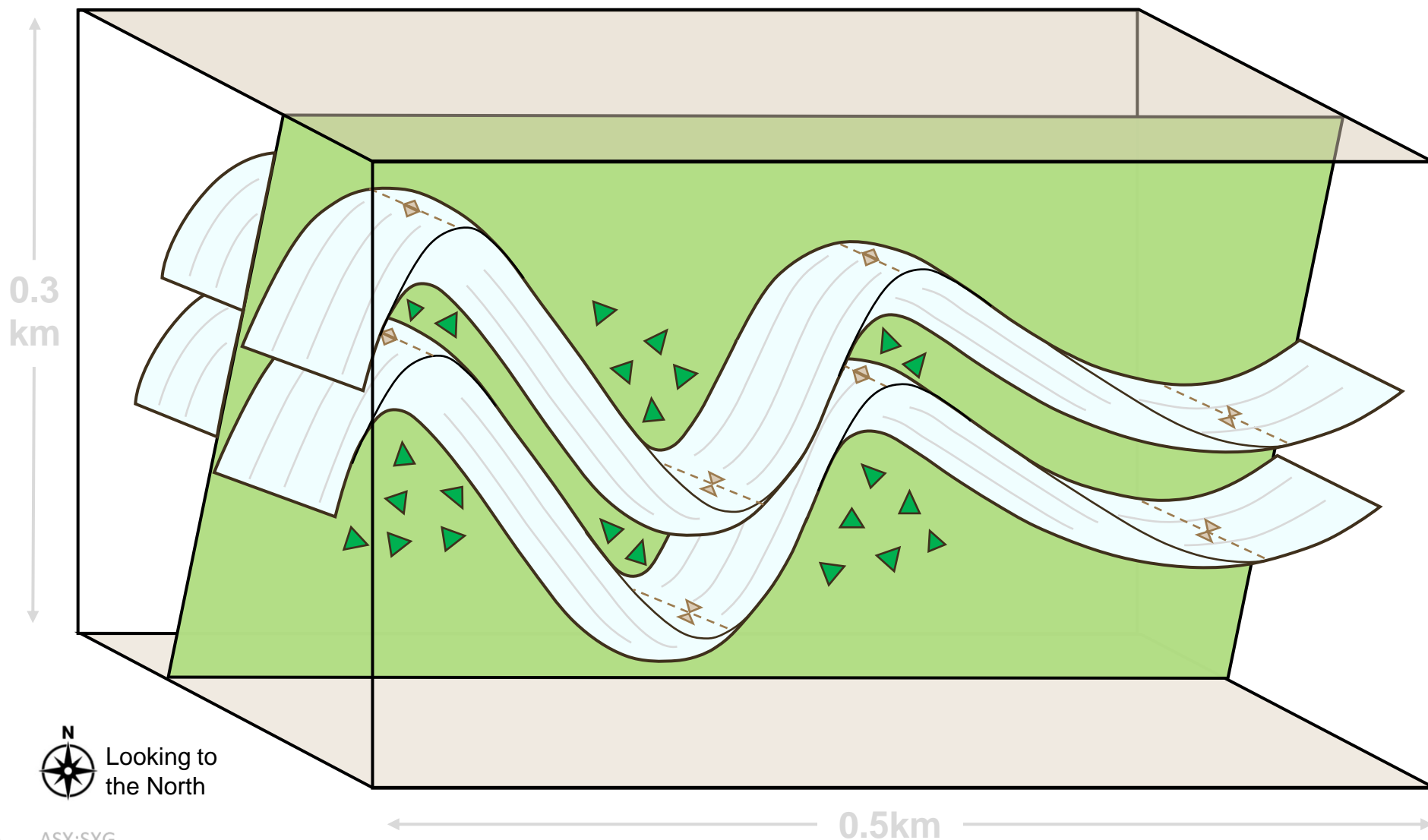
## DESCRIPTION:

A quartz-diorite dyke trending approx. 080° intruded into pre-existing fault architecture at Sunday Creek, bisecting folds. During localized periods of extension

## LEGEND

- X- Syncline fold hinge
- ◇- Anticline fold hinge
- Sb Au bearing Shear Veins & Vein sets
- Stratigraphic package - Sandstone
- Major Fault
- Minor Fault
- Alteration, Dyke & Dyke breccia

# Paragenesis of Sunday Creek Au-Sb mineralization



## DESCRIPTION:

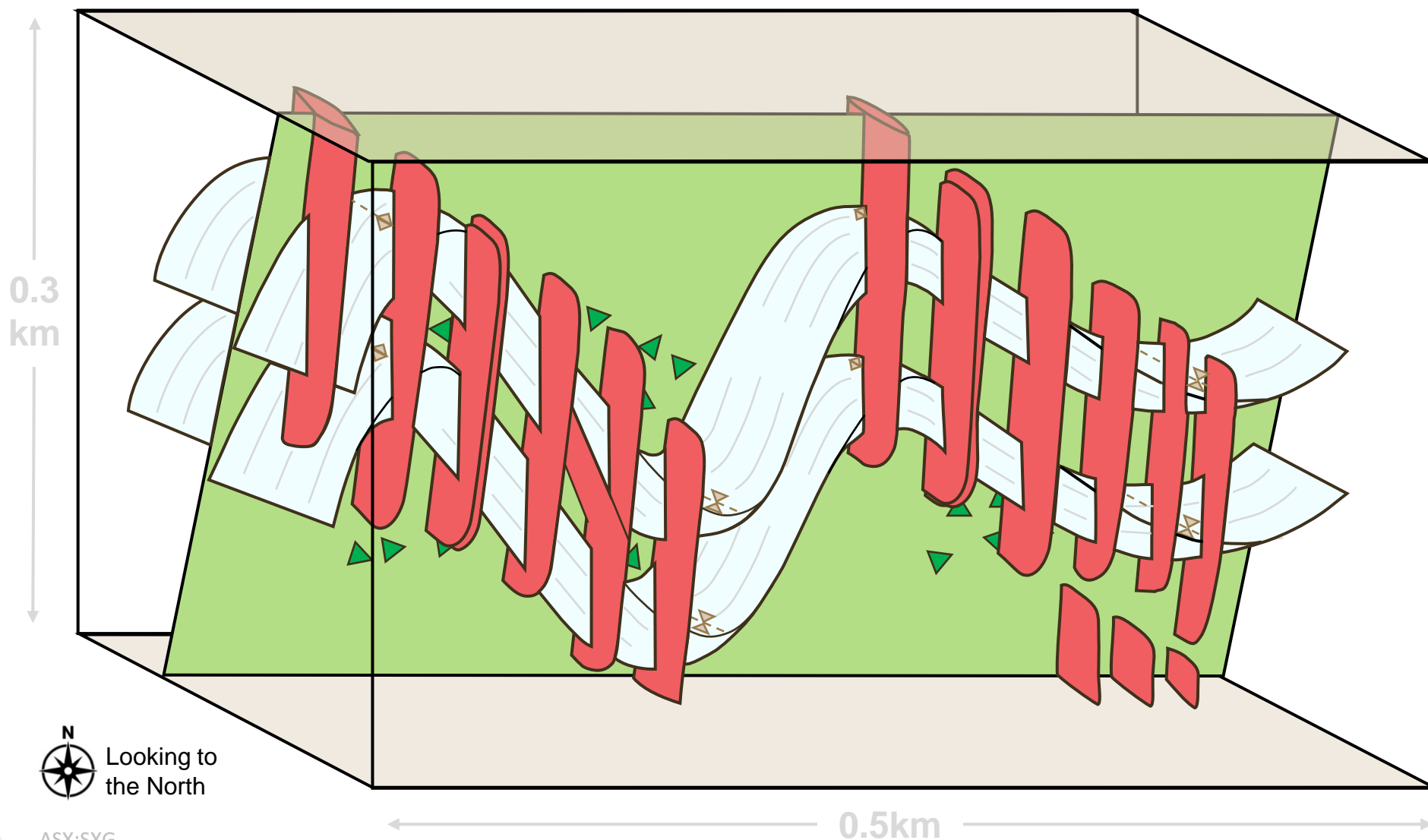
Compression of dyke and sediments causes tightening and parasitic folding of sediments and brecciation of preexisting dyke. Novel addition of dyke and fluids to brecciated areas.

## LEGEND

- X- Syncline fold hinge
- ◇- Anticline fold hinge
- Sb Au bearing Shear Veins & Vein sets
- Stratigraphic package - Sandstone
- Major Fault
- Minor Fault
- Alteration, Dyke & Dyke breccia



# Paragenesis of Sunday Creek Au-Sb mineralization



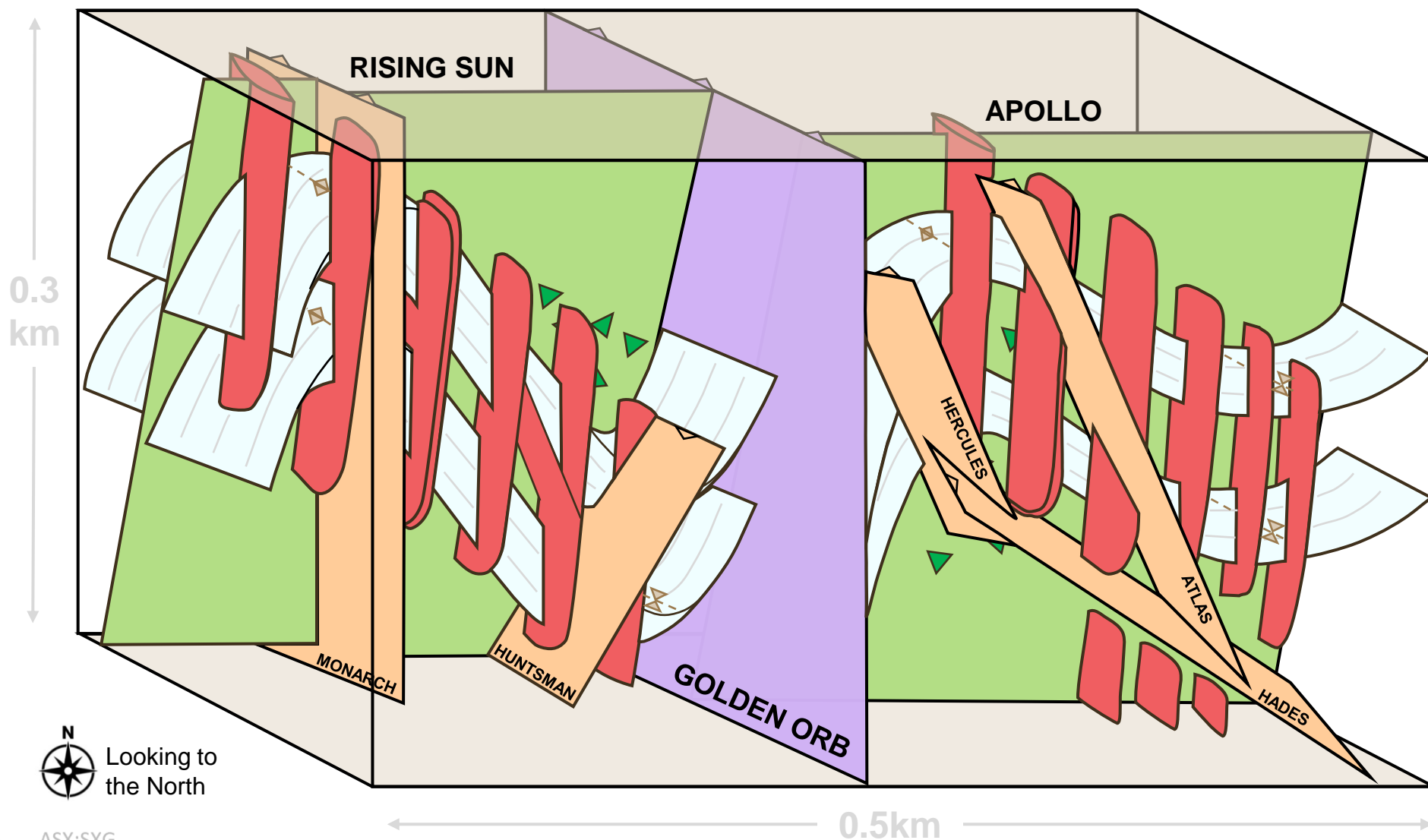
## DESCRIPTION:

Mineralization forms within NNW striking vein sets, varying from centimeter - scale crack-seal veins, to veins with sheared margins, to messy, vein-breccias often carrying higher grades.

## LEGEND

- X- Syncline fold hinge
- Y- Anticline fold hinge
- Sb Au bearing Shear Veins & Vein sets
- Stratigraphic package - Sandstone
- Major Fault
- Minor Fault
- Alteration, Dyke & Dyke breccia

# Paragenesis of Sunday Creek Au-Sb mineralization



## DESCRIPTION:

Regional series of late gouge faults that displace the dyke and mineralization.

## LEGEND

- X- Syncline fold hinge
- ◇- Anticline fold hinge
- Sb Au bearing Shear Veins & Vein sets
- Stratigraphic package - Sandstone
- Major Fault
- Minor Fault
- Alteration, Dyke & Dyke breccia



Looking to the North