

# SOUTHERN CROSS

# Sunday Creek – Victorian Goldfields A Significant Australian Gold Discovery

04 July 2024





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### **Important Notice and Disclaimer**

#### **Competent Persons Statement**

Information in this presentation that relates to new exploration results contained in this report is based on information compiled by Michael Hudson, a Fellow of the Australasian Institute of Mining and Metallurgy. He is MD for Southern Cross Gold Ltd. He has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity being undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Michael Hudson has consented to the inclusion in this report of the matters based on this information in the form and context in which it appears.

Certain information in this announcement that relates to prior exploration results is extracted from the Independent Geologist's Report dated 16 March 2022 which was issued with the consent of the Competent Person, Mr Terry C. Lees. The report is included the Company's prospectus dated 17 March 2022 which was released as an announcement to ASX on 12 May 2022 and is available at www2.asx.com.au under code "SXG". 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 original market announcement. 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 original market announcement.

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 announcement also relates to prior exploration results, are extracted from the following announcements, which are available to view on www.southerncrossgold.com.au:

9 August, 2022 <u>SDDSC038</u>, 4 October, 2022 <u>SDDSC046</u>, 20 October, 2022 <u>SDDSC049</u>, 21 November, 2022 <u>SDDSC050</u>, 14 December, 2022 <u>SDDSC050</u>, 28 February, 2023 <u>SDDSC055</u>, 29 August, 2023 <u>SDDSC068</u>, <u>5 September, 2023 SDDSC0778</u>, <u>12 October, 2023 SDDLV003 & 4</u>, <u>23 October, 2023 SDDSC082</u>, 9 November, 2023 <u>SDDSC091</u>, 30 November, 2023 <u>SDDSC086 & 90</u>, <u>14 December, 2023 SDDSC092</u>, 5 March, 2024 <u>SDDSC107</u>, <u>15 April, 2024 SDDSC110 & 113, 13 June, 2024 SDDSC118</u>.



# 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

42/48 individual intersections >100/>50 AuEq g/t m("AuEq g/t x width in m")

120 drill holes for 52,435 m reported to date

49 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







Demonstrate **Scale** 

4 diamond drill rigs operating at site

Aim to increase capacity with additional rig per quarter, 60 km drilling planned over the next year

News flow continuous



Funded with permits

#### **\$13.4 m (31 May '24)** Fully funded and permitted

**133.3 ha** of freehold land, three properties





# Corporate Structure – A Tight Register



#### Capitalization Summary

	Share Price (3 July 2024)	A\$2.41
	Shares Issued	195.7M
	Fully Diluted	214.8M
	Basic Market Capitalisation	A\$471.6M
	Cash (31 May 2024)	A\$13.7M

#### ) Other Data

Options	Price	No. of Securities
JLM Options (Expiry 6 May 2025)	\$0.30	3.0M
Class A ESOP (Expiry 16 May 2025)	\$0.30	2.8M
Class B ESOP (Expiry 16 May 2026)	\$0.30	2.8M
Class C ESOP (Expiry 16 May 2027)	\$0.30	2.8M
Unlisted ESOP (Expiry 15 August 2026)	\$0.66	1.5M
Broker Options (Expiry 28 November 2025)	\$0.87	1.2M
Consultant Options (Expiry 23 October 2026)	\$1.20	1.5M
Director Options (Expiry 7 November 2026)	\$1.20	3.6M

### Major Shareholder Summary Mawson Gold Ltd

	40.470
Institutions & HNW (Franklin Templeton, Schroders, SG Hiscock, Konwave, Springtide Capital, Firelight Investments, Invesco, Lowell)	17.5%
Board and Management (non-look through)	1.5%
TOTAL	68.3%

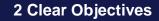
#### Share Price Performance – 1 Year and Coverage



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49 4%

# SXG Proposed Merger with Mawson and Dual Listing



Consolidate Ownership of Sunday Creek



Dual listing of Sunday Creek





- Simplify capital structure to reflect SXG structure
- Broader access to capital markets
- Institutional support
- Lower cost of capital



- Purchase 1:1 basis
- Tax rollover relief
- Experienced Australian Team
- Shareholders to vote
- Timing 3 4 months



### **Exploration and Mining History**

#### History

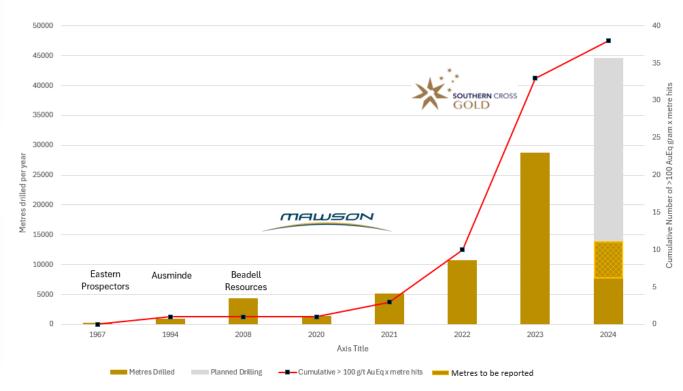
- 1850s Alluvial mining
- 1860s Surface mining to 30m
- 1880s Shaft mining to 100m, 1890s to 180m
- Early 1900s cyanide
- WW1 Open by Imperial munitions act antimony
- 1960s Eastern Prospectors few drill holes
- 1980s CRA/BHP
- 1986 mid 1990's, Ausminde 29 RC drill holes totalling 960 metres;
- 2008 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 11 individual Au assays +100 g/t Au from 8 drillholes started in 2024 with an additional 11 drillholes being processed or currently drilling – 60 km drilling planned over next year



#### The Golden Dyke Mine





### Database Analysis: Grade vs Width

The best intersections on the project have been drilled recently

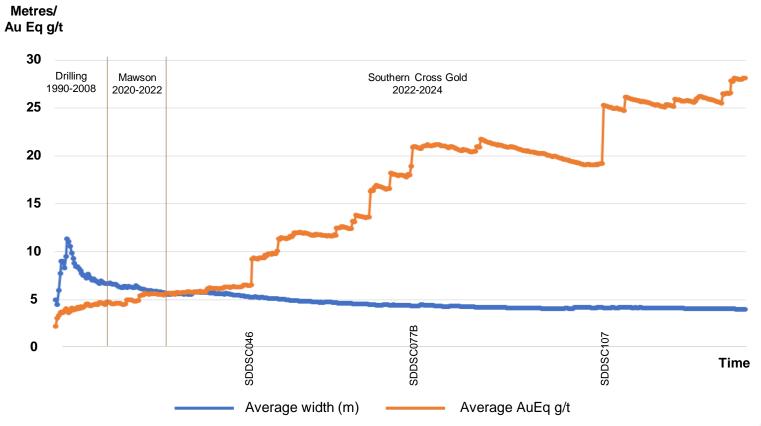
#### **Top 10 intersections at Sunday Creek**

Date`	Hole-ID	From (m)	To (m)	Length (m)	Au g/t	Sb%	AuEq g/t	AuEq g/t * m
5-Mar-24	SDDSC107	684.3	685.4	1.0	2,318.4	0.3	2,318.9	2,389
5-Sep-23	SDDSC77B	737.1	740.7	3.6	391.9	0.8	393.4	1424
9-Nov-23	SDDSC091	430.0	450.0	20.0	62.7	0.5	63.7	1274
14-Dec-23	SDDSC092	681.6	684.9	3.3	267.8	1.8	271.1	889
23-Oct-23	SDDSC082	417.4	419.0	1.6	500.3	0.1	500.5	801
13-Jun-24	SDDSC118	1120.4	1124.0	3.6	124.8	0.0	124.8	449
13-Jun-24	SDDSC118	555.7	556.4	0.7	604.0	0.0	604.0	441
23-Oct-23	SDDSC082	413.6	415.4	1.7	230.6	9.9	249.1	429
5-Mar-24	SDDSC107	566.9	576.0	9.1	39.1	0.6	40.2	368
4-Oct-22	SDDSC046	187.5	201.8	14.3	20.5	2.6	25.4	363



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

\*AuEqgtm variations due to rounding

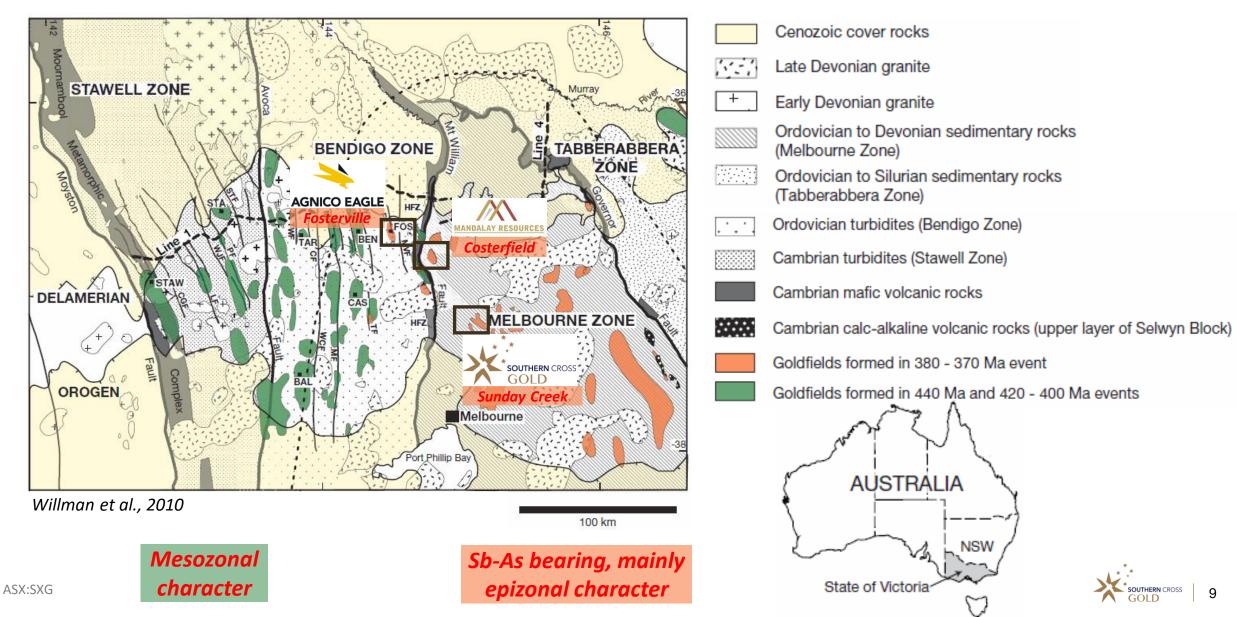


AuEq g/t & Width (m) (2 m @ 1.0 g/t Au Lower Cut) vs time

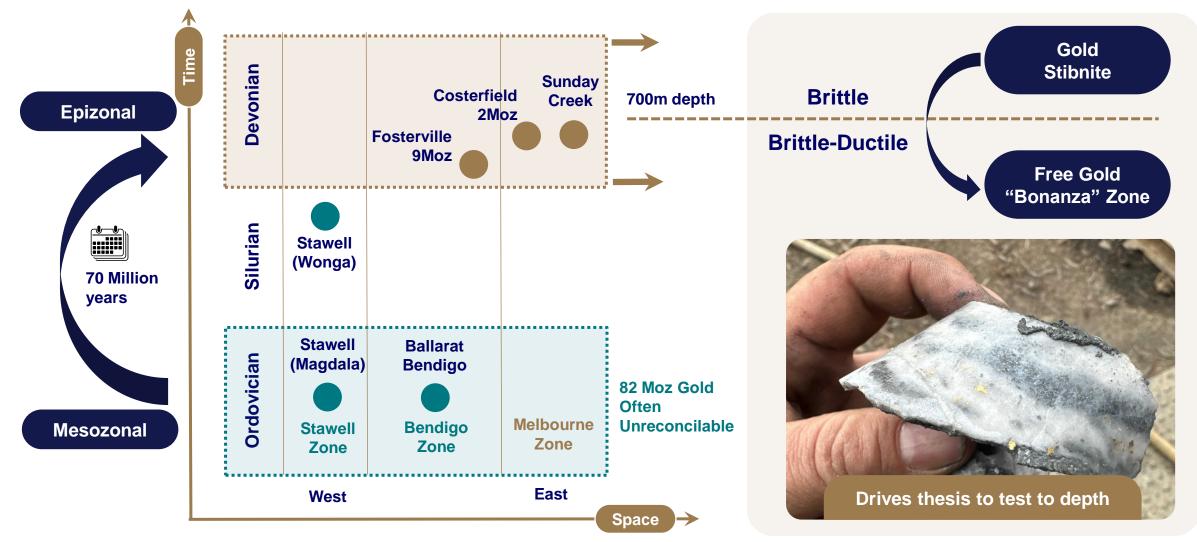
35,456 drill hole assay results All calculations 2 m @ 1 g/t Au lower cut, > 5g/t\*m AuEq



### **Regional Setting**

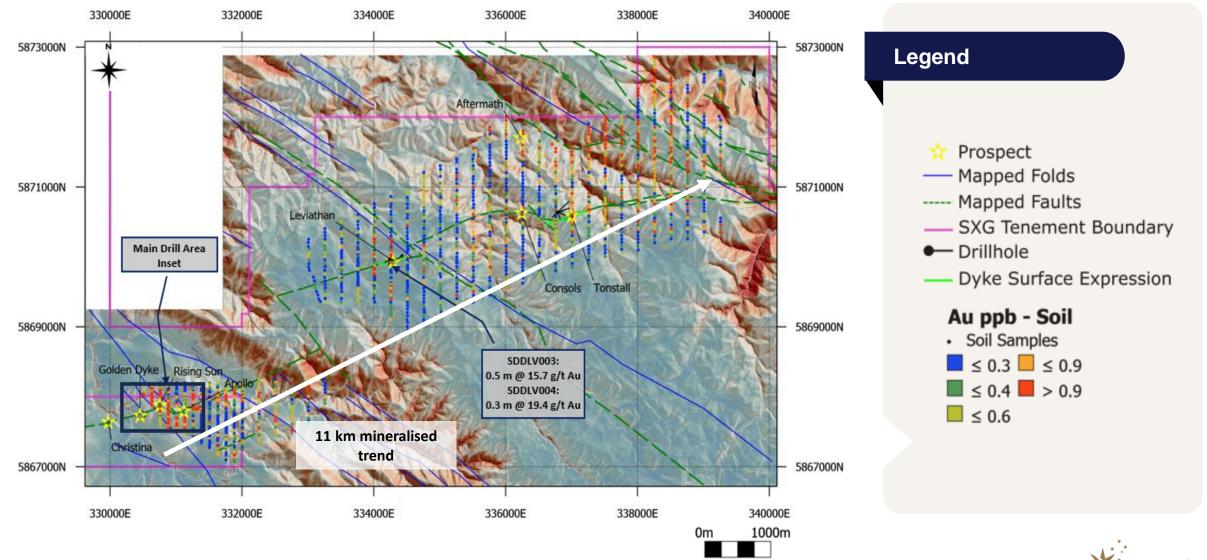


### Victoria a Gift That Keeps on Giving





### Regional Scale – Plan View



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GOLD

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### Schematic Plan View Main Drill Area – The Golden Ladder



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

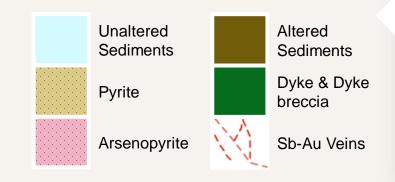


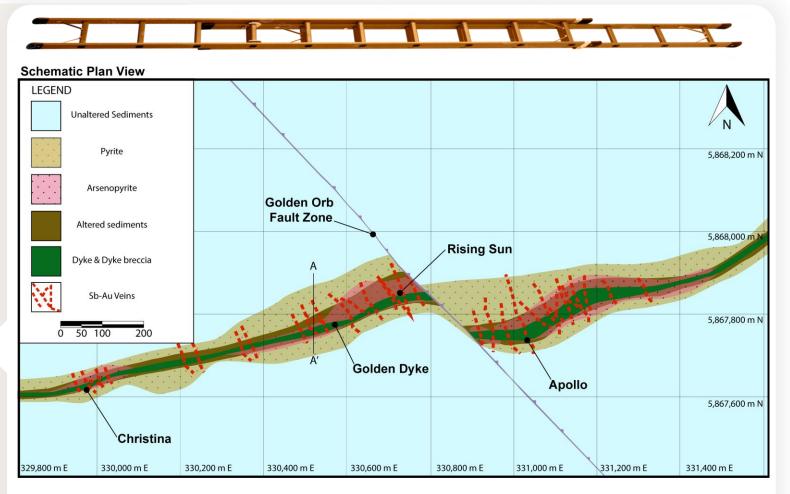
"Rungs" extend from surface to 1km depth, Each "rung" 20-100m long, 2-30m wide



45 "rungs" identified to date

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

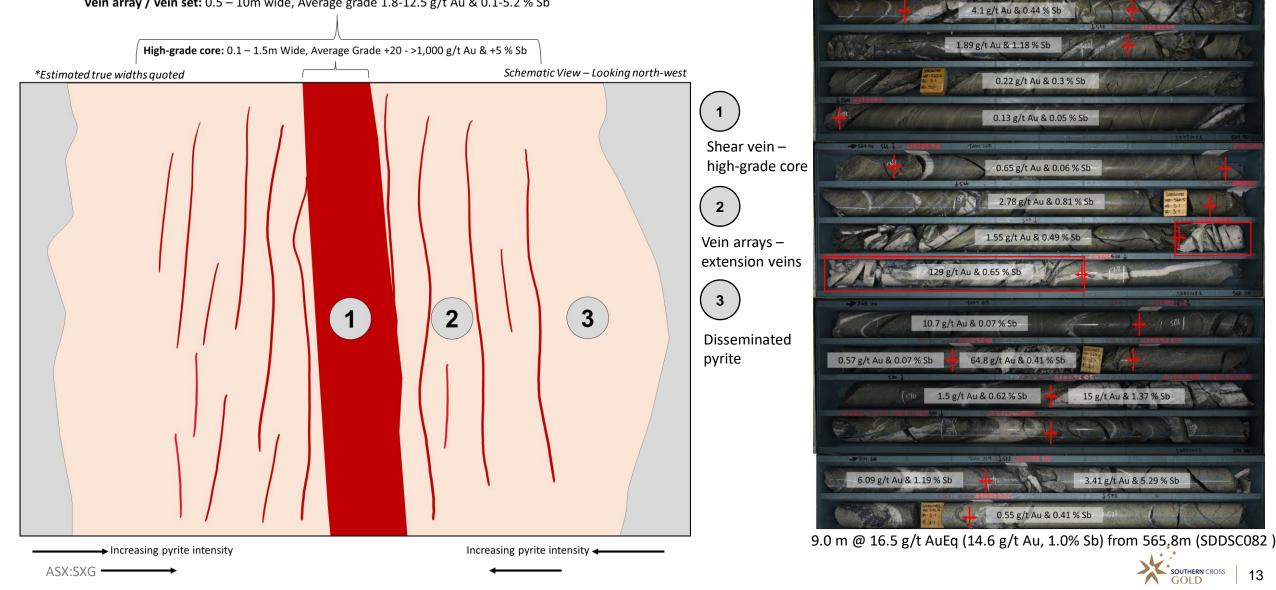




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### 47 Vein Sets: Geological Likeness Informs Continuity

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



15 g/t Au & 1.37 % Sb

3.41 g/t Au & 5.29 % Sb

GOLD

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### **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).



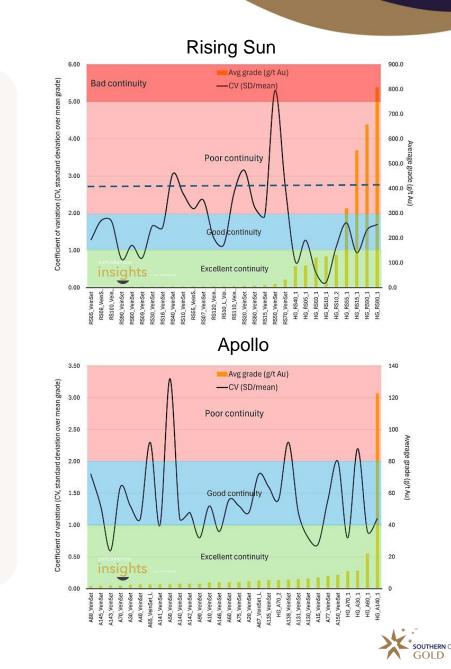
#### **Rising Sun**:

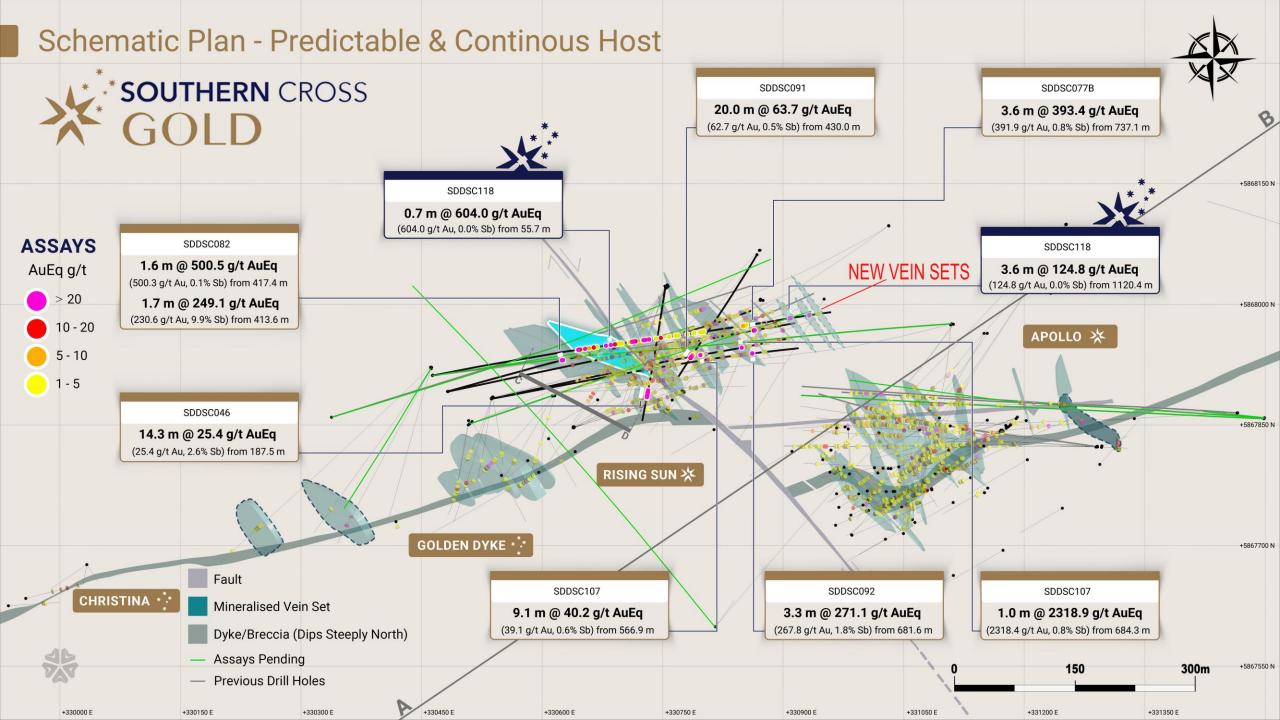
- 636 samples from 29 vein sets
- Average 25 g/t gold (up to 808 g/t gold)
- Average CV is 2.7

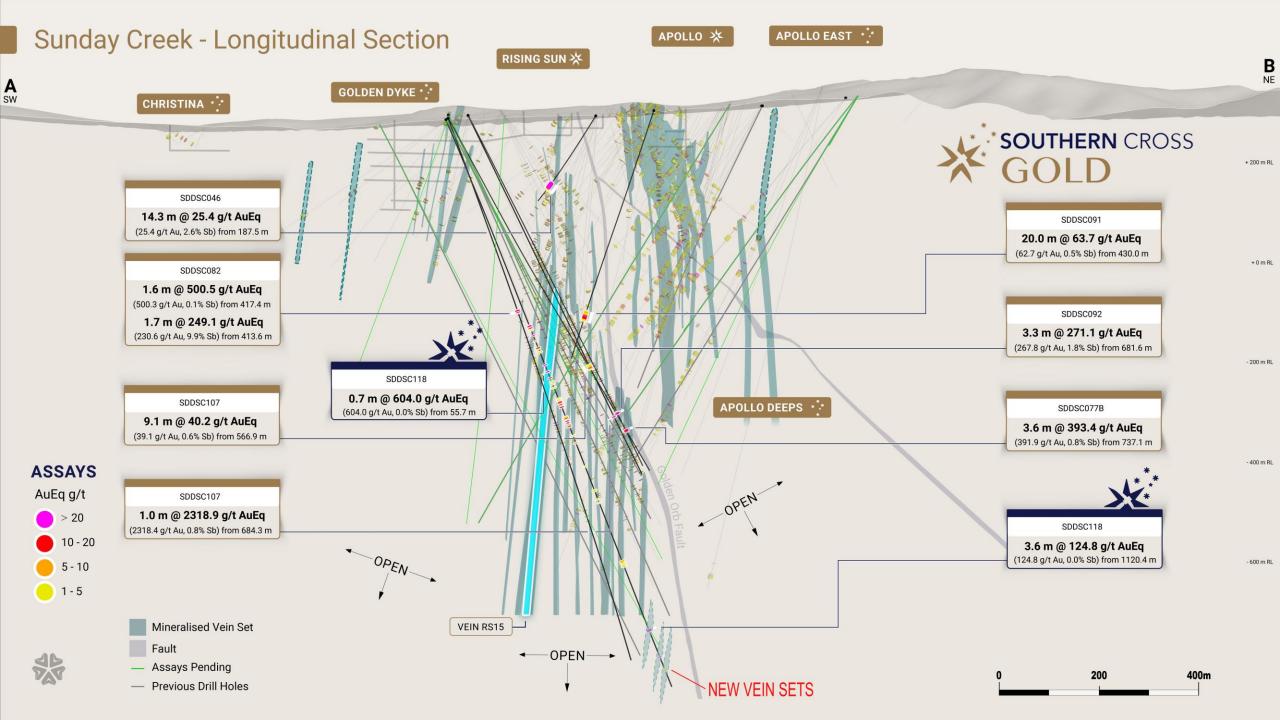


#### Apollo:

- 994 samples in 30 vein sets
- Average 3.8 g/t gold.
- Average CV is 1.8
- More data = declining CV

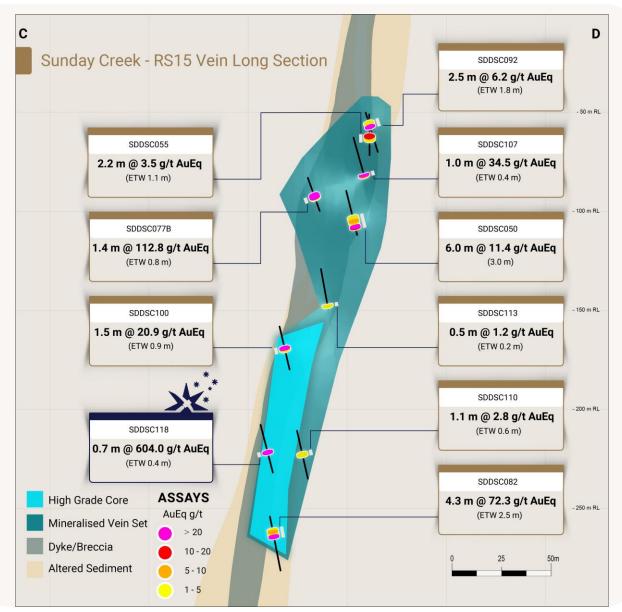








### Sunday Creek – RS15 Vein Long Section

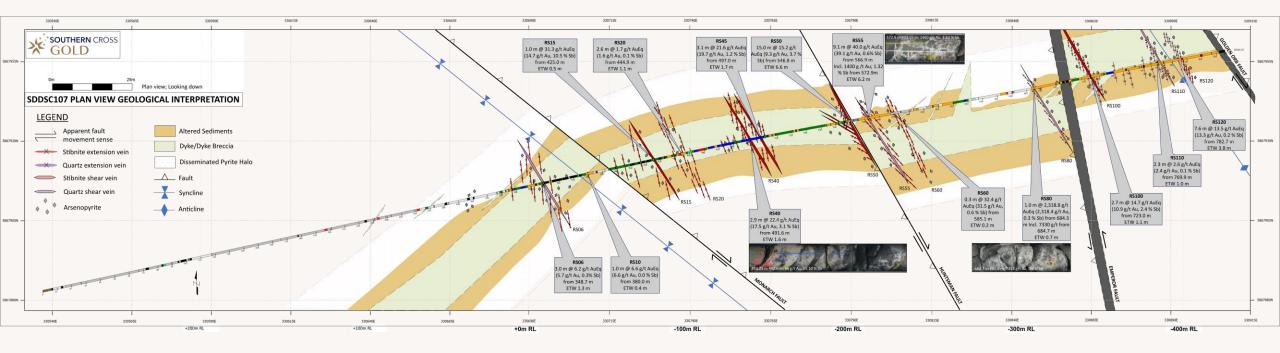








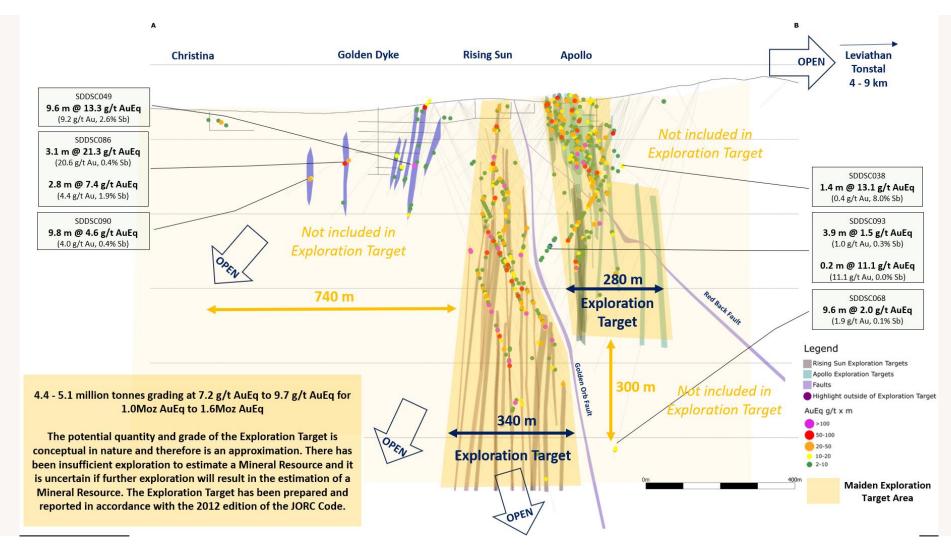
### Sunday Creek – Inclined Plan View of SDDSC107







# Exploration Target – Built in One Year





# Metallurgy



**Preliminary** 

Image width 412µ

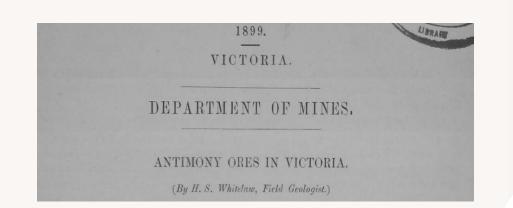
### Non-refractory, simple gravity-flotation flow sheet

- Utilised 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:
  - Optimise for gold into gravity and minimising 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
2. Bismuth (Bi)	7. Lithium (Li)	REEs: neodymium, praseodymium, dysprosium, Terbium
3. Cobalt (Co)	8. Magnesium (Mg)	12. Tantalum (Ta)
4. Gallium (Ga)	9. Niobium (Nb)	13. Tungsten (W)
5. Graphite (C)	10. Platinum group of metal	14. Vanadium (V)



### Positioning for Development

Our primary focus is to target grade, build volume and demonstrate regional scale, however the company is actively derisking the project through pre-development activities to be in an optimal position for design, feasibility studies and permitting

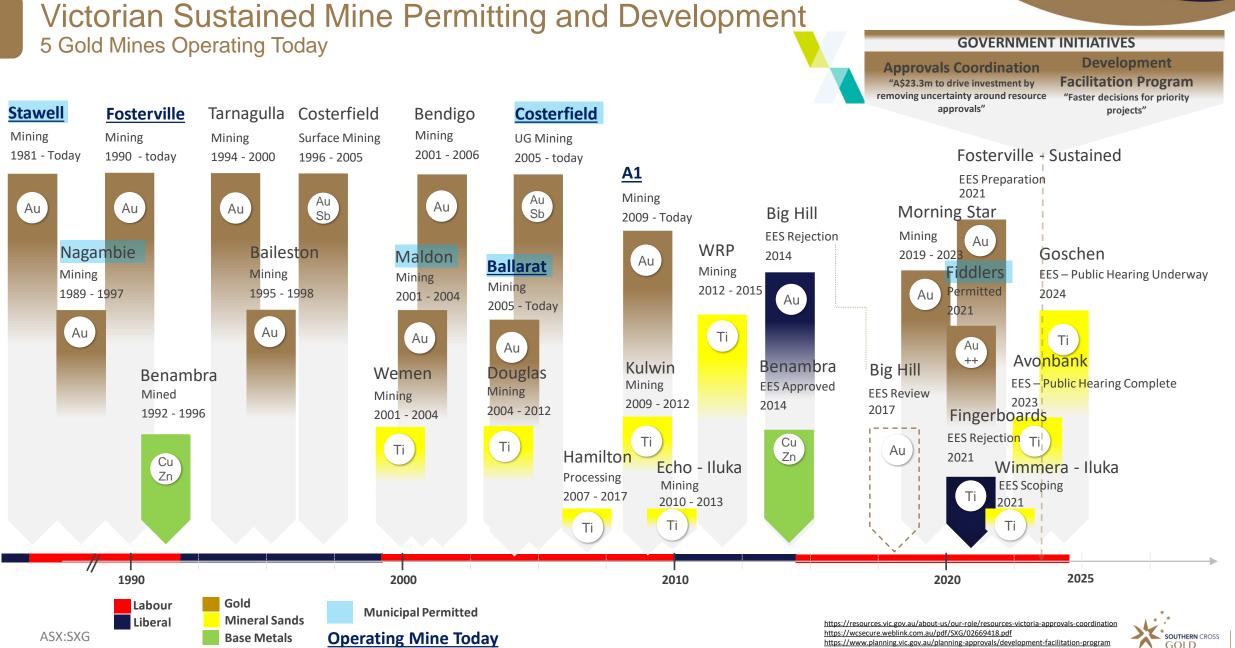
### All ongoing



### Stakeholder Engagement/ Baseline Studies







### 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





### **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 Managing Director

Explorationist and entrepreneur, developed and financed mineral exploration properties globally over 30 years (raising +\$200m). Key member behind multiple discoveries Founder and director of Mawson Gold Ltd (TSX:MAW) and 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 publiclisted companies Associated with many mineral discoveries worldwide including in Australia, Peru & Finland

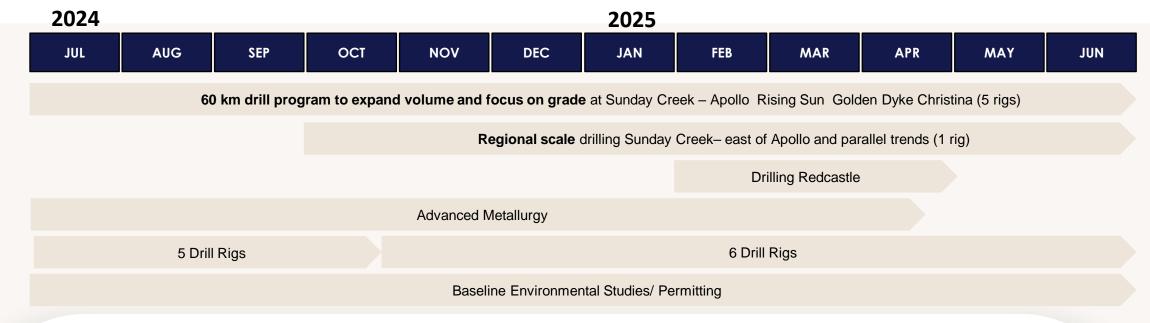


#### Lisa Gibbons General Manager

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



# Aggressive Exploration Program – Staying on the Lassonde Curve





Drilling plan has 3 clear objectives that will have the largest emphasis over the next six months Demonstrate grade, demonstrate volume,

demonstrate scale



#### 5 diamond drill rigs

Aim to increase rigs each quarter, 10km per rig p.a., drill cost A\$200/m incl assays



Plan to drill 60 km now to Sept 2025



# Aim to Create the Highest Margin Gold Business Globally



Highest hit rate globally, grade increasing,

- 42 intersections > 100 AuEq g/t x m from 52km 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



Tier one Australian jurisdiction, in shadow of headframe of highest-grade global gold mine



Seasoned discovery team focussed on value creation per share



Supportive shareholders to underpin value creation lifecycle





### **Contact Us**



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### Corporate Development

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