

The background of the slide features a blurred, abstract image of a city skyline at night or during the day, with streaks of light suggesting motion. The colors are predominantly blue and green.

ASX: VXR

# Building an Australian Base Metals Business

## Highlights

- ☒ NPV<sub>8</sub> AUD **472 MM**
- ☒ Free Cash Flow AUD **818 MM**
- ☒ Ore Reserve **42% Increase in Cu Metal**
- ☒ Reduced Infrastructure Capex **146 MM**
- ☒ Increased production rate to **1.25MMtpa**
- ☒ Life of Mine **12 Years**

# Important information & Disclaimer

## Cautionary Statement

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## Competency Statement

The information in this presentation that relates Geophysical Exploration Results is based on information compiled by Mr Russell Mortimer, who is employed as a Consultant to the Company through geophysical consultancy Southern Geoscience Consultants Pty Ltd. Mr Mortimer is a member of the Australian Institute of Geoscientists and a member of the Australian Society of Exploration Geophysicists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and 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.

The information in this presentation that relates to Exploration Results at the Sulphur Springs Project is based on information by Mr Stefan Gawlinski who is employed as a Consultant to the Company. Mr Gawlinski is a member of the Australian Institute of Geoscientists and Mr Gawlinski has sufficient experience with the style of mineralisation and the type of deposit under consideration.

The information in this presentation that relates Exploration Results at the Whim Creek Project is based on information compiled by Mr James Guy who is employee of the Company. Mr Guy is a member of the Australian Institute of Geoscientists and Mr Guy has sufficient experience with the style of mineralisation and the type of deposit under consideration.

The information contained in this presentation relating to the Whim Creek Projects Resources and Reserves was previously released in announcements Company Resource and Reserve Statement – Revised released 8 October 2013 and 23 March 2018.

The information contained in this presentation relating to the Kangaroo Caves Resources was previously released in announcements issued 22 September 2015, based on information compiled or reviewed by Mr David Milton, Hardrock Mining Consultants Pty Ltd who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Milton has sufficient experience relevant to the style of mineralisation, type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2012 – Refer Edition of the "Australasian Code for Reporting of Mineral Resources".

The information contained in this presentation relating to the Sulphur Springs Resources was previously released in announcements issued 21 March 2018, based on information compiled or reviewed by Mr David Milton of Mil Min Pty Ltd who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Milton has sufficient experience relevant to the style of mineralisation, type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2012 – Refer Edition of the "Australasian Code for Reporting of Mineral Resources".

The information contained in this presentation relating to the Sulphur Springs Reserves was previously released in ASX announcement dated 10<sup>th</sup> October 2018 based on information compiled or reviewed by Mr Daniel Donald, of Entech Pty Ltd who is a member of the Australasian Institute of Mining and Metallurgy. Mr Donald has sufficient experience relevant to the style of mineralisation, type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Mineral Reserves".

The Company confirms that: a) The form and context of the material in this presentation has not been materially modified from the above previous announcements; b) It is not aware of any new information or data that materially affects the information included in the previous announcements and that all material assumptions and technical parameters underpinning the estimate in the Definitive Feasibility Study announcement issued 10 October 2018 continue to apply and have not materially changed; and c) It is uncertain that following further exploration and evaluation that the historical estimates will be able to be reported as mineral resources or ore reserves in accordance with the JORC 2012 Code.



- ☒ Venturex Resources is a base metals developer based in the Pilbara, Western Australia.
- ☒ Venturex Resources has a large, quality asset base and is well positioned for production and growth in global copper and zinc markets.

We're building an Australian base metals business.

# Corporate Snapshot | Board & Management Team

## Board

**Anthony (Tony) Kiernan**

**Non-Executive Chairman**

Former lawyer with 35 years listed company management experience

**Ajanth (AJ) Saverimutto**

**Managing Director**

Mining Engineer with 20 years mine development and financing experience

**Anthony Reilly**

**Executive Director**

20 years banking, finance and resource sector experience

**Darren Stralow**

**Non-Executive Director**

Mining Engineer with 18 years mine operations and management experience

## Management

**Trevor Hart**

**CFO & Company Secretary**

CPA with over 20 years senior experience in listed companies

**Alex Biggs**

**Project Manager**

Mining Engineer with experience in the consulting, operations and finance sectors

**Luke Gibson**

**Geology Manager**

Geologist with experience in VMS base metals exploration and development

**Emma Bamforth**

**Environmental Manager**

Experience in environmental approvals and compliance in the mining and resource industry

# Corporate Snapshot | Metrics & Shareholders

## Key Metrics

Share price (\$AUD) 0.18

Shares on Issue (M) 240

Market capitalisation (M\$AUD) 43

## Top 5 Shareholders %

Northern Star Resources Ltd 19.0

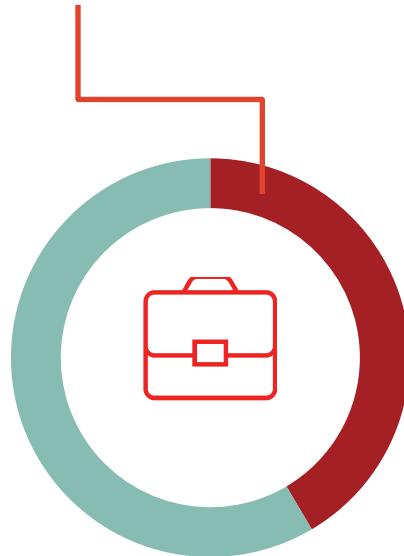
Regent Pacific Group Ltd 16.3

Precision Opportunities Fund Ltd 6.2

Henghou Industries (Hong Kong) Ltd 4.4

Directors/Management 3.0

Top 3 shareholders hold ~42% of shares on issue as of 1 Oct 2018



# Investment Highlights | Timing, Profitability, Growth



## Market Timing

Copper and Zinc prices up over last 12 months

Low LME stockpiles

Project discovery pipeline stunted over last few years

Strong forward markets



## Project & Profitability

A robust and profitable project

High margin project with open pit and underground operations

Low cost, economy of scale operation

Cornerstone asset



## Poised for Growth

DFS Complete

Funding in Progress

Strong Exploration Potential

Northern Star ~ 19% shareholder



# Market Timing

# Diminishing Supply | Market Timing

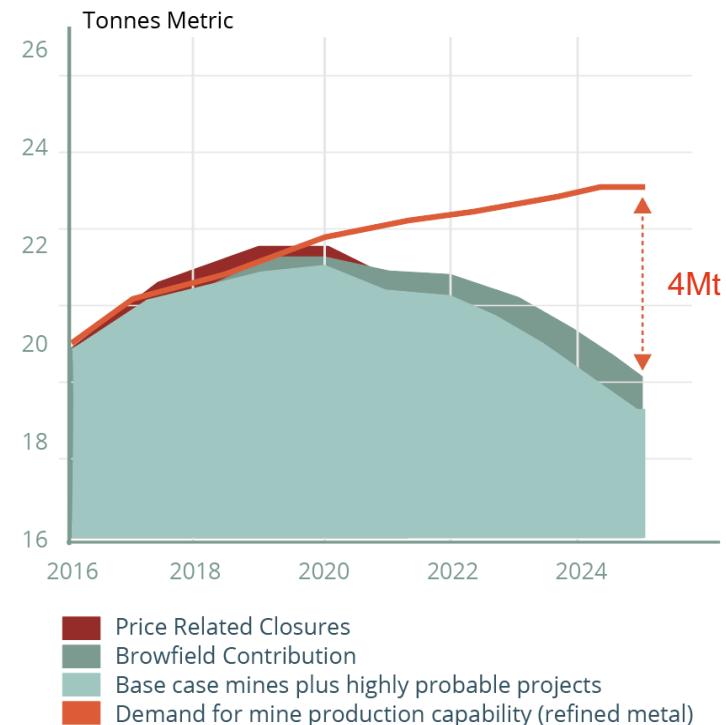
## Supply shortfall expected by 2020

- Resource depletion on current projects
- Grade decline
- Lack of investment in new projects
- Falling copper inventories
- Chinas Belt and Road (~7% increase in Demand per year)



SOURCE: Wood Mackenzie

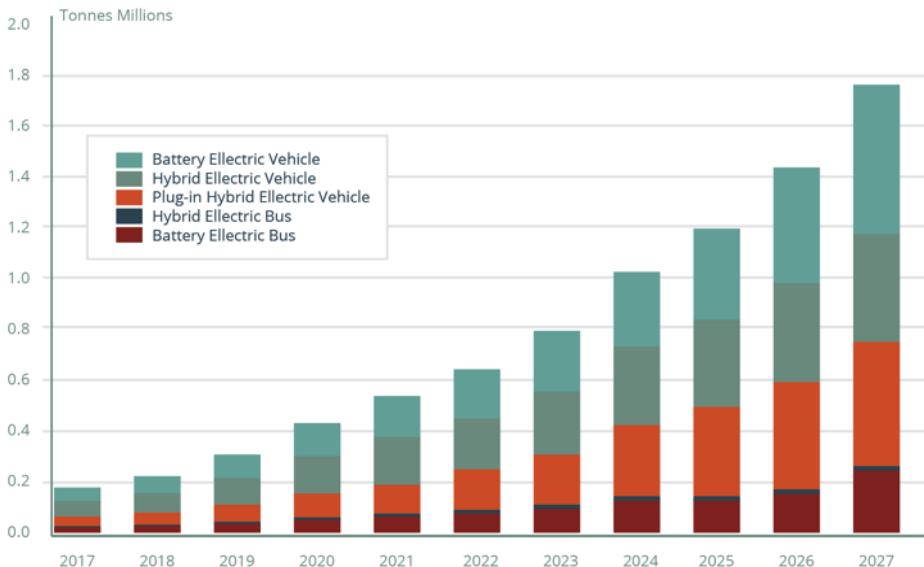
SOURCE: Bloomberg, LME, SHFE, Comex Sept 2018



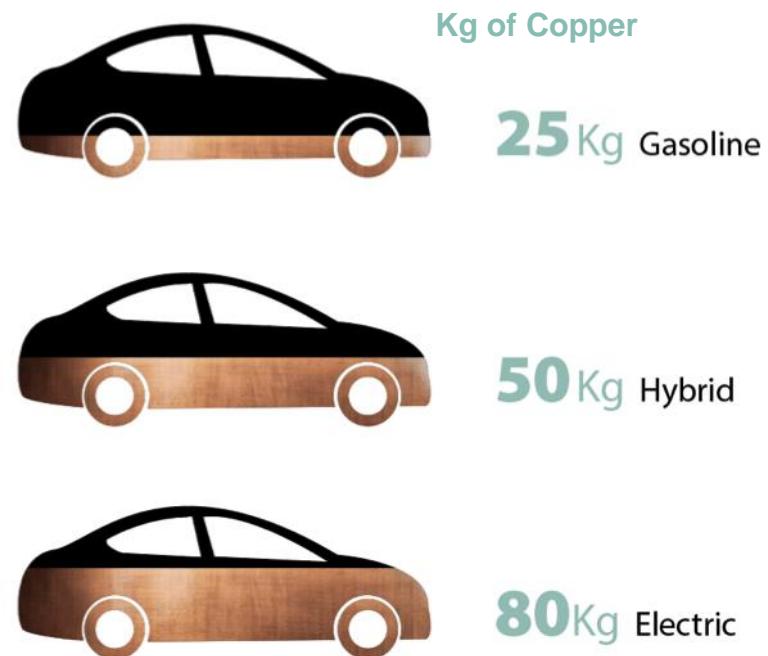
# Strong Demand from EVs | Market Timing

## Electric Vehicles (EVs)

- Electric Vehicles (EVs) are a major growth market
- An average EV needs 4 x the copper of a conventional medium sized car
- The EV fleet will be 230 million in 2035 and 750 million by 2050 equivalent to half the global fleet<sup>1</sup>



SOURCE: International Copper Association, US Global Investors



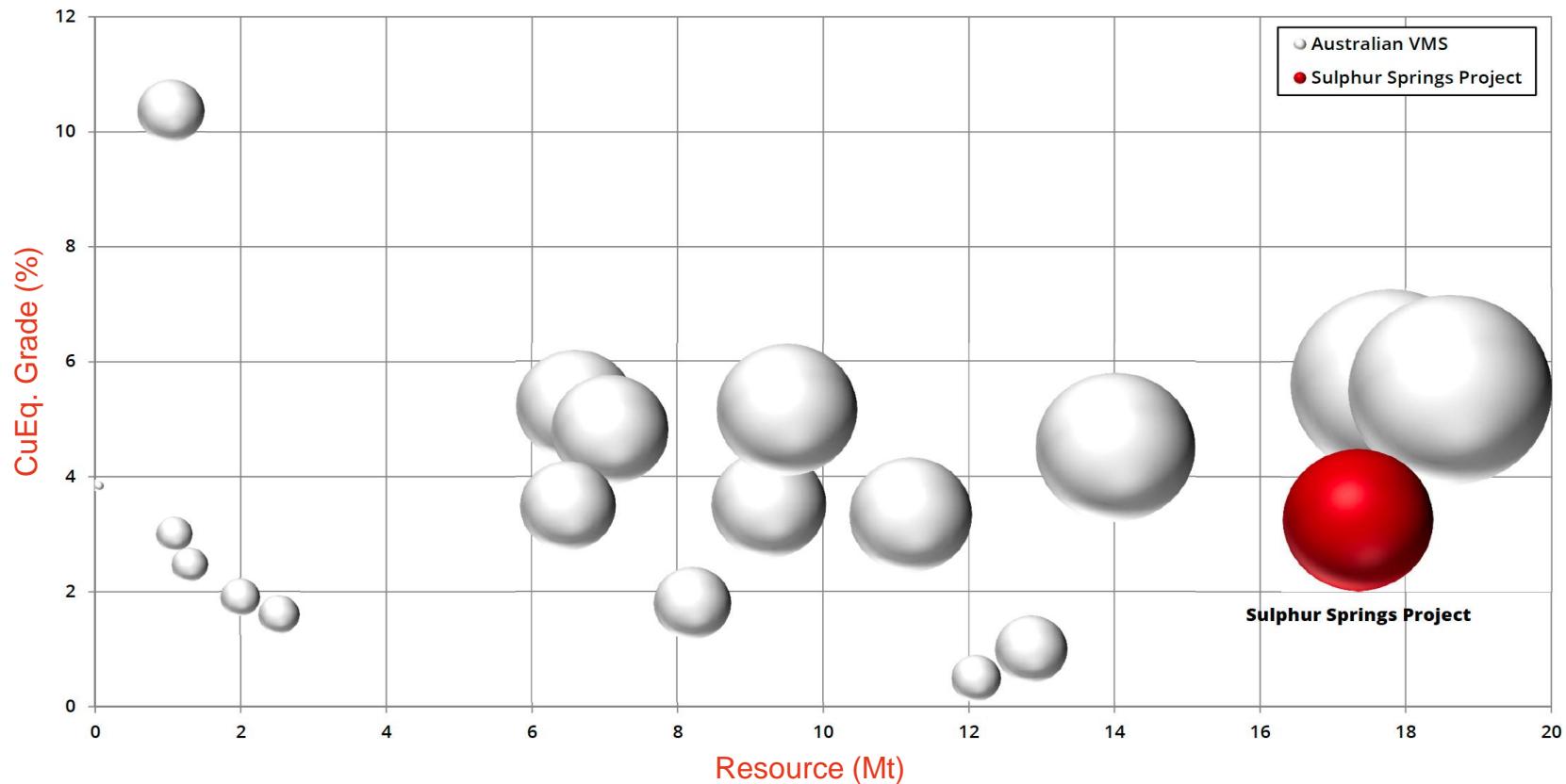
SOURCE: Visual capitalist, US Global Investors

<sup>1</sup>UBS Global Research, 29 August 2017, "Copper: Electric Vehicles & Charging Infrastructure to Accelerate Demand".



# Project & Profitability

# Australian Mines & Metal Endowment | Project & Profitability



SOURCE : VXR, MMG, SLR, MLS, ERL, MRP, SYV, HRR, RVR, IGO, NQ (NEX), THX, SFR, HOR, G1A  
Copper equivalent calculated at metal price assumptions: Cu = USD6450/t, Zn = USD2,535/t, Pb = USD2,050/t, Au = USD1,200/oz.  
Bubble size according to copper equivalent metal in stated resource.

# DFS – Financial Results | Project & Profitability

- Excellent project financials
  - NPV<sup>8</sup> = AUD 472 MM
  - IRR = 51%
  - Free Cash Flow = AUD 818 MM
- Average cash flow of ~AUD 80 MM per year
- Infrastructure Capital cost reduction to AUD146MM (including contingency)
- Increased plant capacity to 1.25 Mtpa from 1.00Mtpa
- Increased Ore Reserve from 7MMt @ 1.1% Cu and 3.5% Zn to 8.5Mt @ 1.4% Cu and 3.1% Zn (an increase of 42% in contained Cu metal)



Increased financial viability | Increased production rate | Reduced capital cost

<sup>1</sup>NPV calculated on following assumptions: Cu = USD6,300/t, Zn = USD2,650/t, AUD:USD = 0.72

# Project Design | Project & Profitability

## Open Pit Design

- Optimised open pit design
- Strip ratio from 11:1 to 8:1
- Geotechnically optimised

## Underground Design

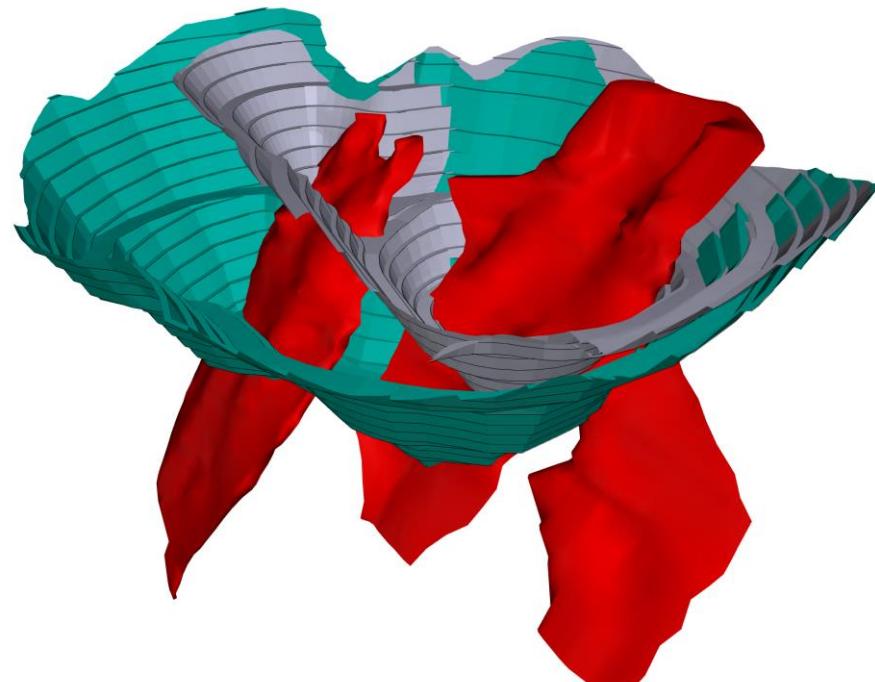
- Bulk mining method (Modified – SLC)
- Low capital development requirement
- Low cost extraction methodology

## Metallurgy

- 1.25Mtpa plant
- Larger grind size
- Simple crush, grind float

## Infrastructure

- Camp purchase
- Access road optimised
- Fit for purpose and Upgradable



# DFS vs VES | Project & Profitability

Definitive Feasibility Study (2018) <sup>1</sup>	Metric	Value Engineering Study (2017) <sup>2</sup>
472	<i>NPV<sup>8</sup> (AUD M)</i>	338
51	<i>IRR (%)</i>	52
2,625	<i>Gross Revenue (AUD M)</i>	2,400
818	<i>Free Cash Flow (AUD M)</i>	601
169 (15 months)	<i>Capex (AUD M)</i>	167 (12 months)
12.6	<i>Ore Inventory (Mt)</i>	11.7
1.25	<i>Production (Mtpa)</i>	1.00
11.75	<i>Mine Life (Years)</i>	12.75
8.5Mt @ 1.4% Cu and 3.1% Zn	<i>Reserves</i>	7.3MMt @ 1.2% Cu and 3.5% Zn
3.6	<i>Payback Period (Years)</i>	2.6
152	<i>Recovered Copper Metal (kt)</i>	149
411	<i>Recovered Zinc Metal (kt)</i>	394

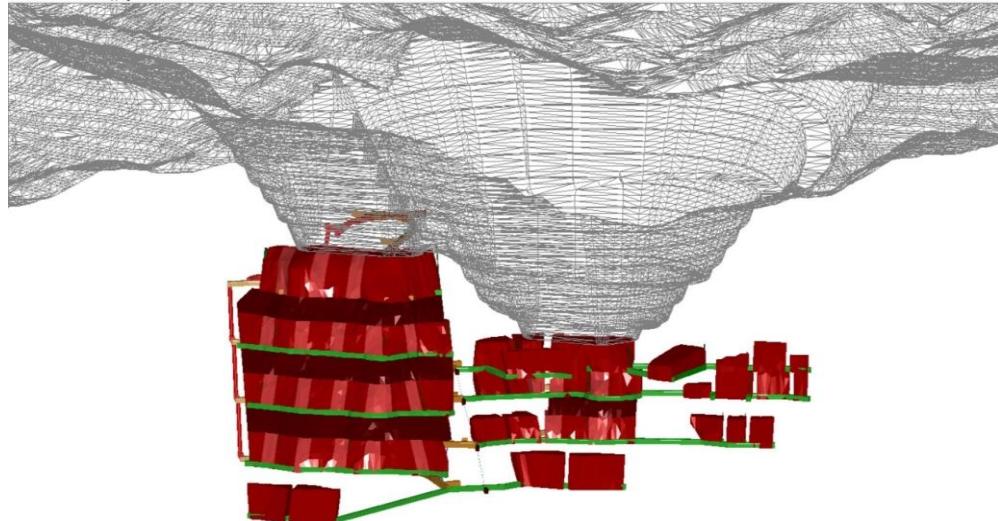
<sup>1</sup>DFS figures calculated at: Cu = USD6,300/t, Zn = USD2,650/t, AUD:USD = 0.72

<sup>2</sup>VES figures calculated at: Cu = USD6,450/t, Zn = USD2,535/t, AUD:USD = 0.76

# Operating Costs

| Project & Profitability

## A Cornerstone Asset



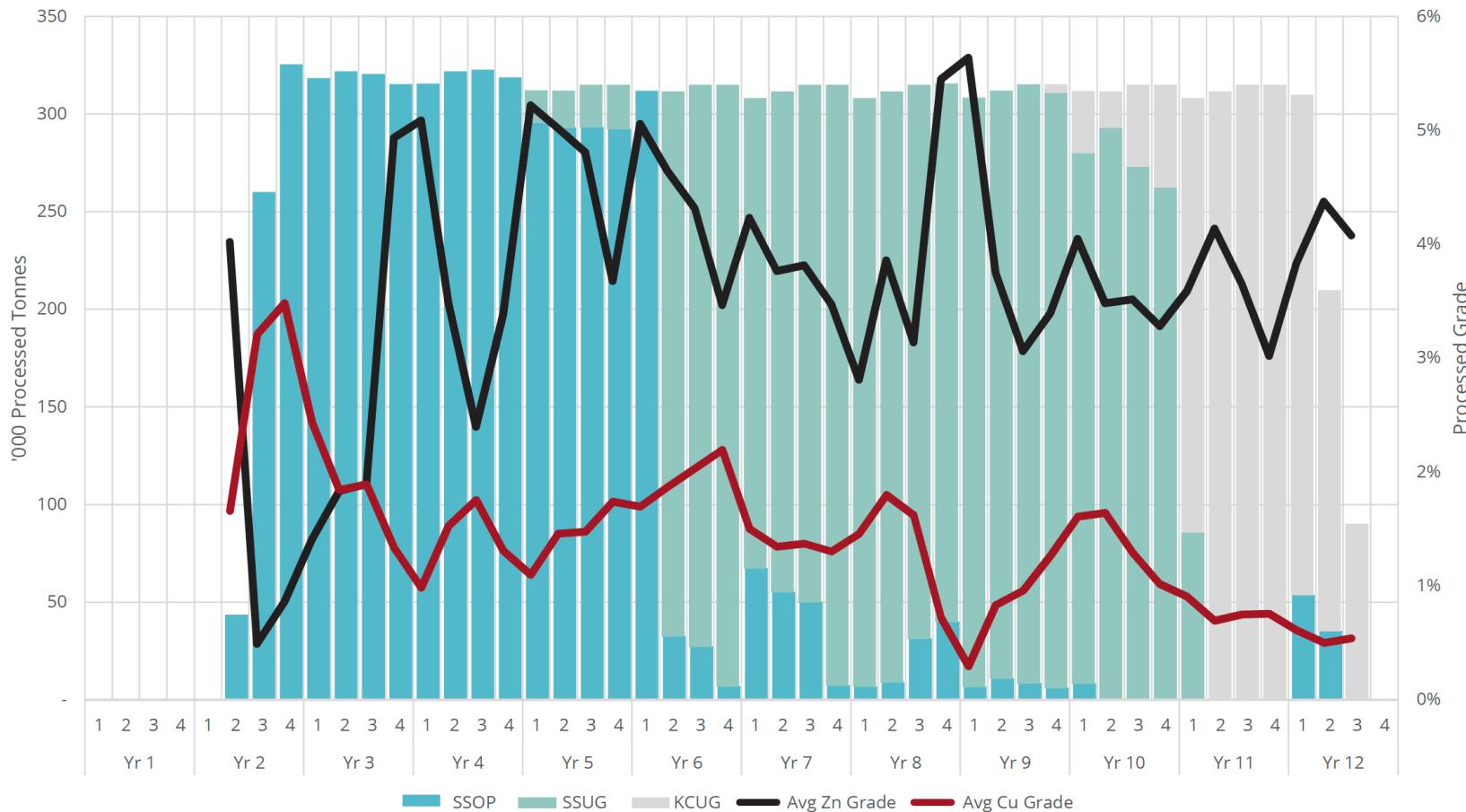
## LOM Costs

Output	Unit	Value
NPV 8%	AUD M	472
Free Cash Flow	AUD M	818
Revenue	AUD/t	209
Operating Cost Per Tonne	AUD/t	122
Capital Cost per Tonne	AUD/t	22
Total Cost per Tonne	AUD/t	144
<b>Margin</b>	AUD/t	<b>65</b>

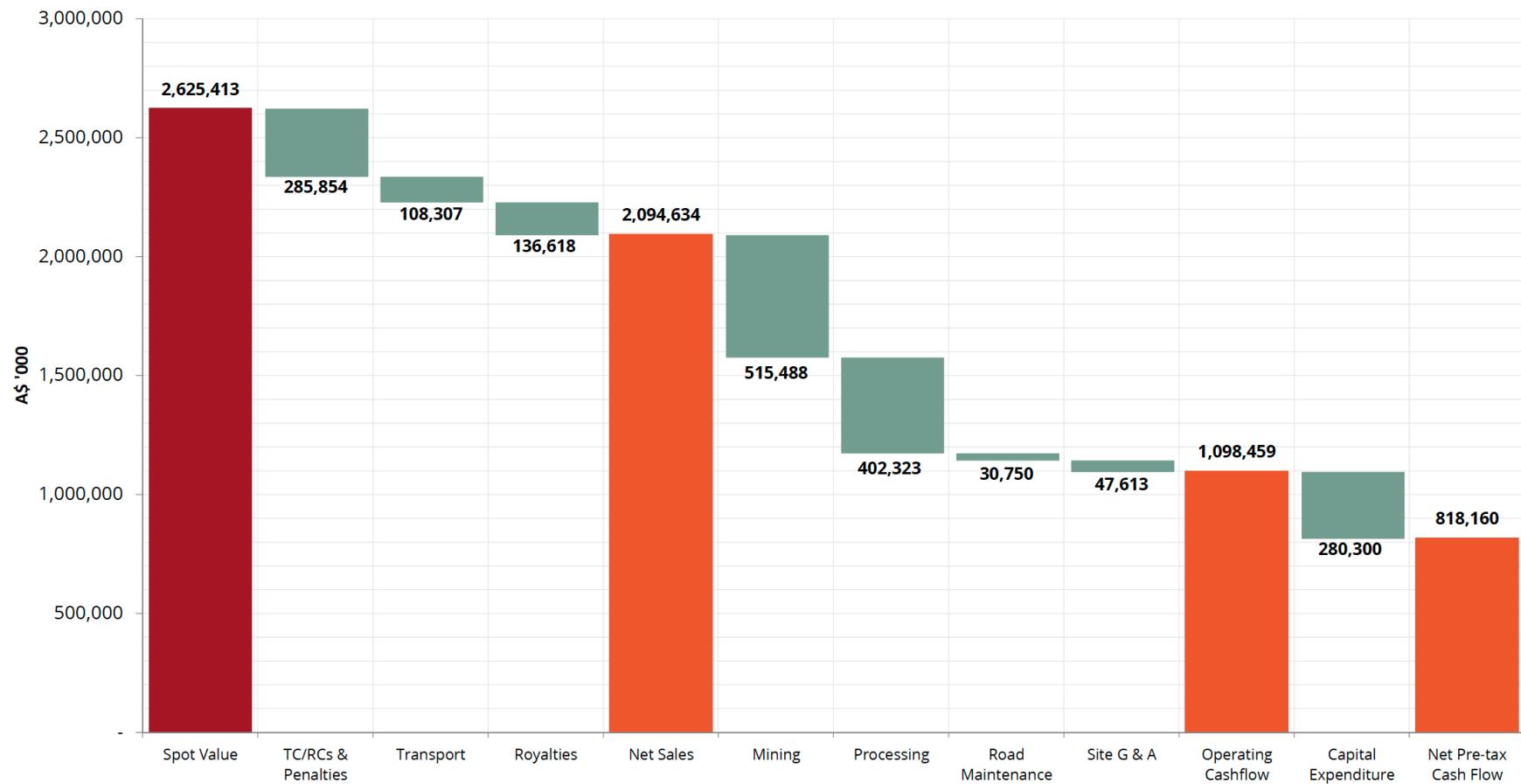
Mining Area	Tonnes (Mt)	Cu (%)	Cu Metal (kt)*	Zn (%)	Zn Metal (kt)*
Sulphur Springs Open Pit	5.1	1.8	90	3.4	176
Sulphur Springs Underground	5.6	1.4	79	3.7	207
Kangaroo Caves Underground	1.8	0.7	12	3.8	70
<b>Total Mining Inventory</b>	<b>12.6</b>	<b>1.4</b>	<b>181</b>	<b>3.6</b>	<b>453</b>

# Production Profile | Project & Profitability

## Processing Schedule – Tonnes, Grades & Mining Location



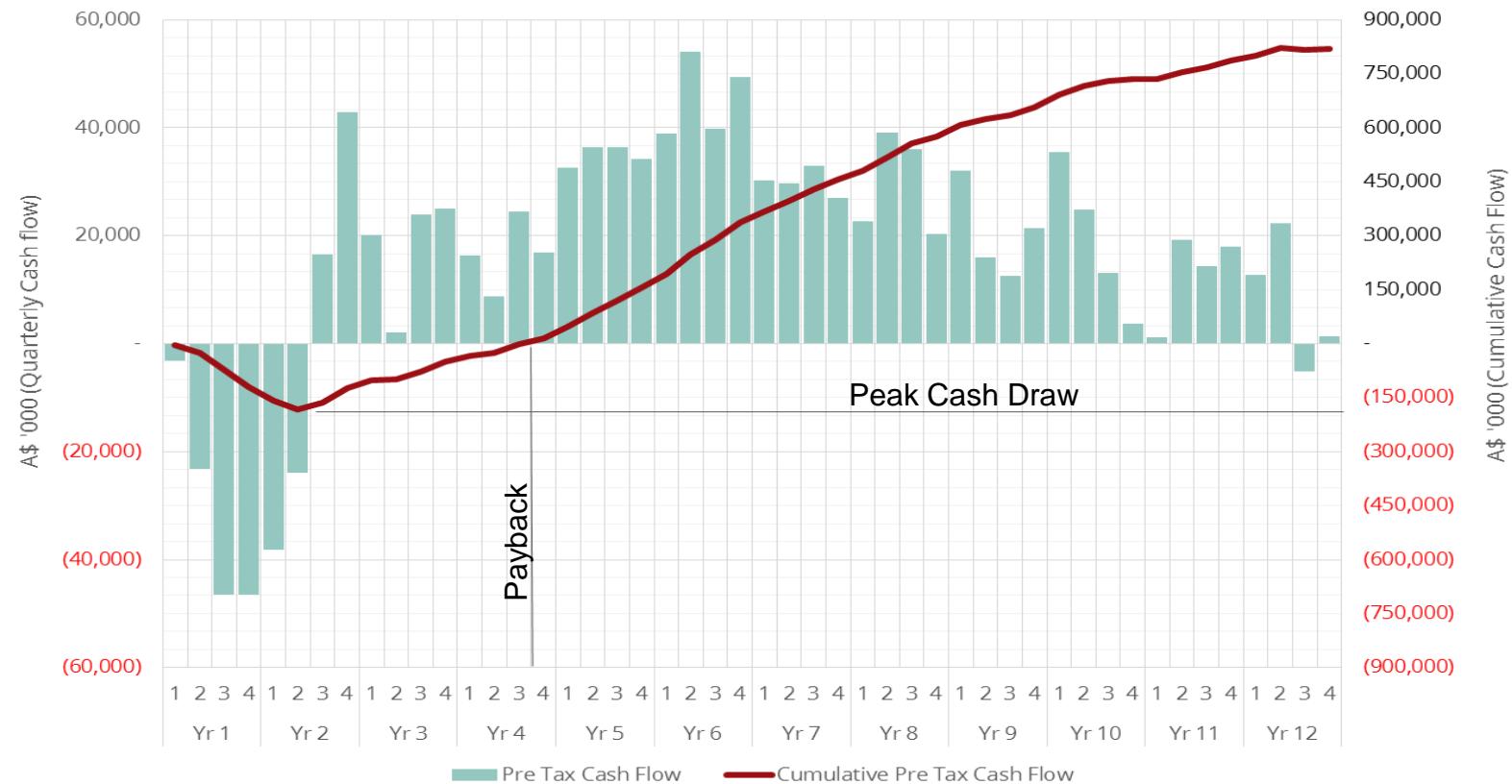
### Project Undiscounted Cash Flow Waterfall



# Cash Flow

Project & Profitability

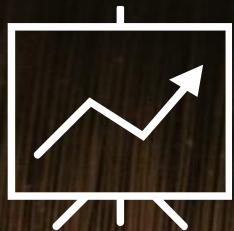
## Project Cash Flow – Periodic & Cumulative



# Schedule to Production

Project & Profitability

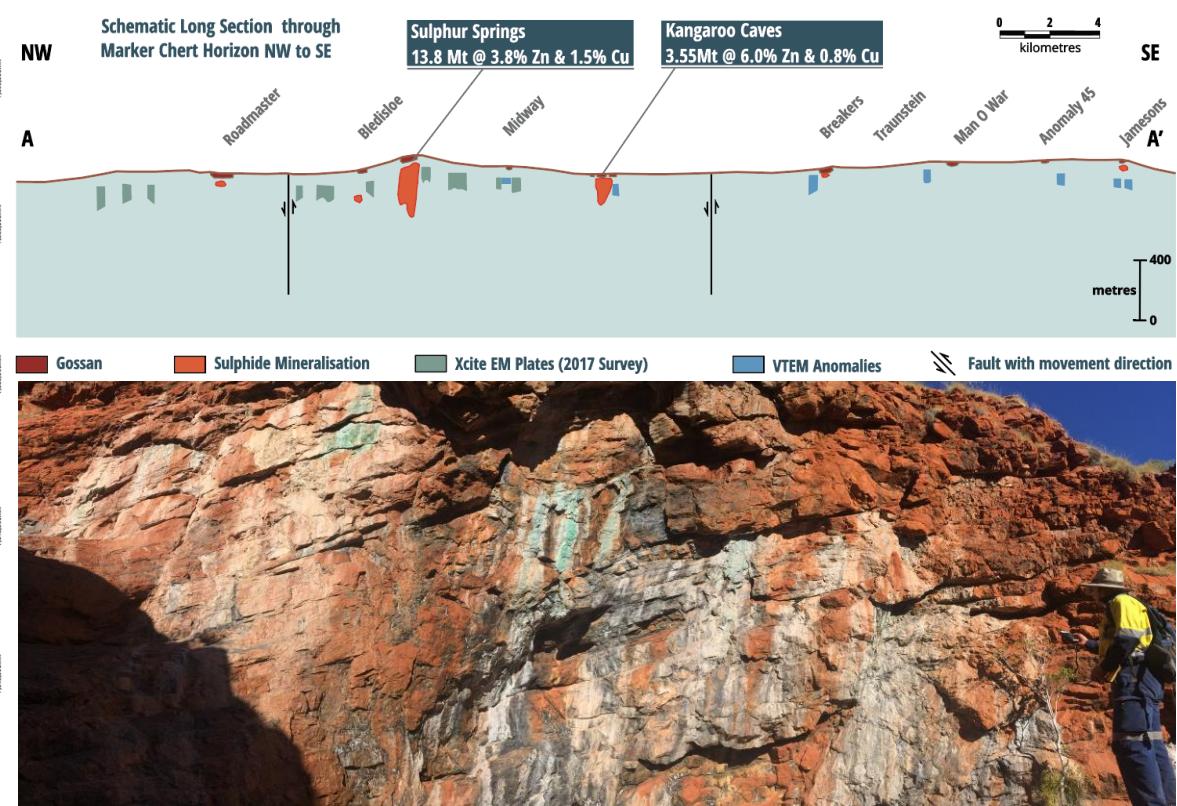
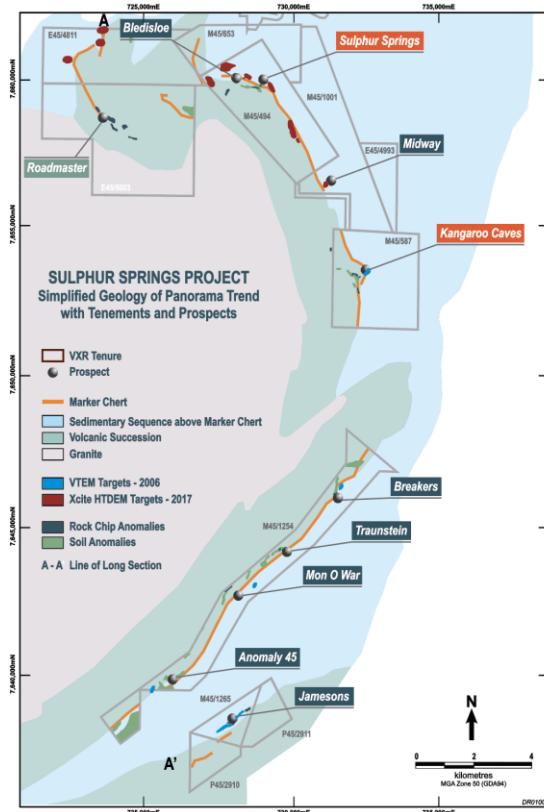
Milestone	CY 1				CY 2			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Mining Proposal Submission & Amendments		→						
Water License & Works Approvals	→							
Financing	→							
Plant Site Earthworks & Pre Strip		→						
Process Plant Construction			→					
Process Plant Commissioning					→			
Open Pit Development				→				
Production Ramp-up					→			
Full Production						→		



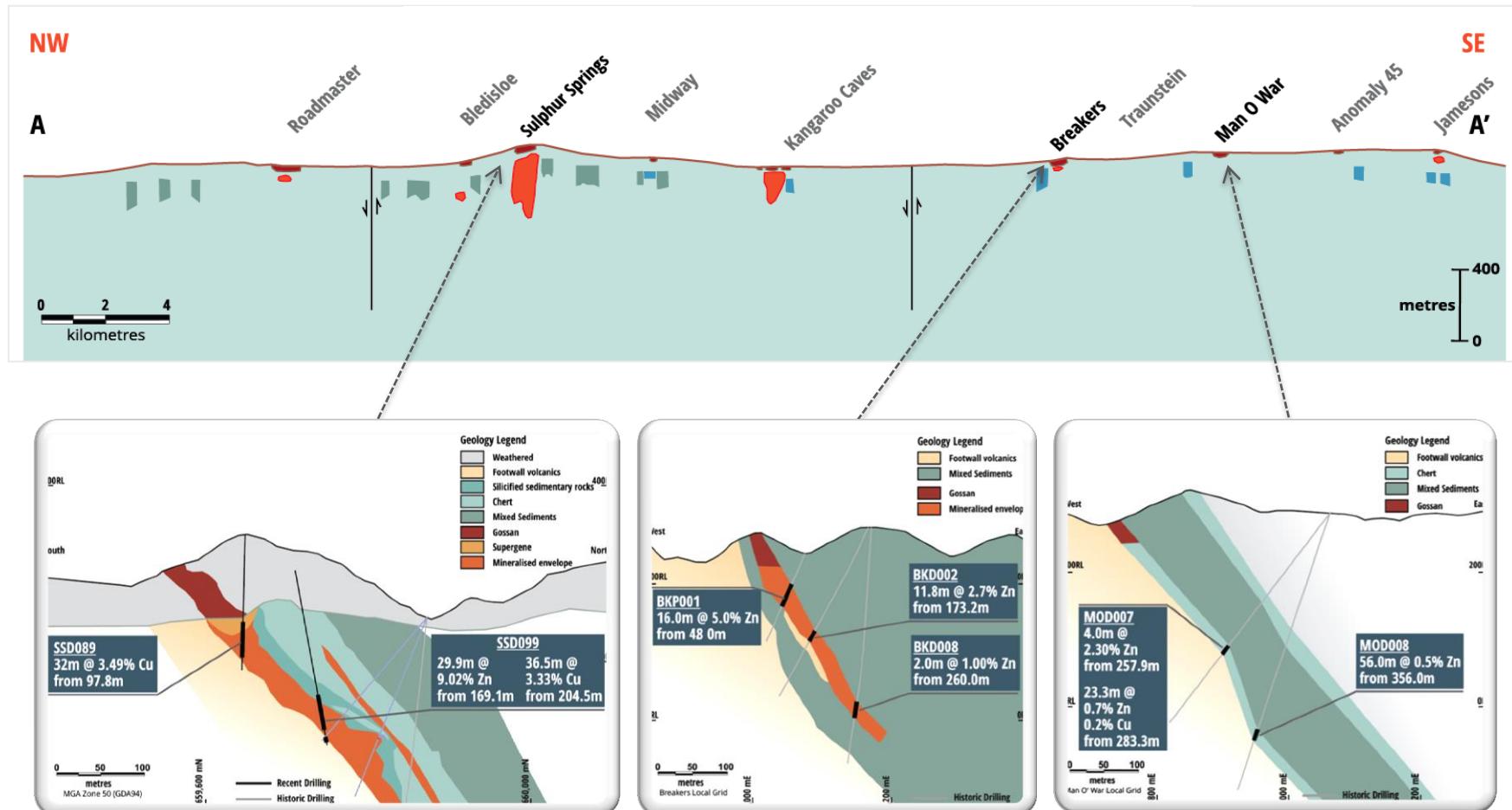
Poised For Growth

# Panorama Exploration | Poised for Growth

- +27km VMS belt
- Potential for further look alike deposits
- Surface gossan identified at numerous prospects
- Drill program to follow



# Panorama Trend | Poised for Growth



# Value Proposition | Poised for Growth



## Value



## Markets



## Shareholders



## Exploration



## Strong Vision

Cornerstone assets

Strong projections  
for Cu and Zn  
markets

Support of major  
shareholders  
Northern Star  
Resources

27 km of ground  
similar to Sulphur  
Springs

Robust strategy

Excellent economics

Increasing global  
demand for  
standard and new  
applications

Actively supporting  
project build

VMS belt with  
potential multiple  
deposits

Strong vision

Development ready

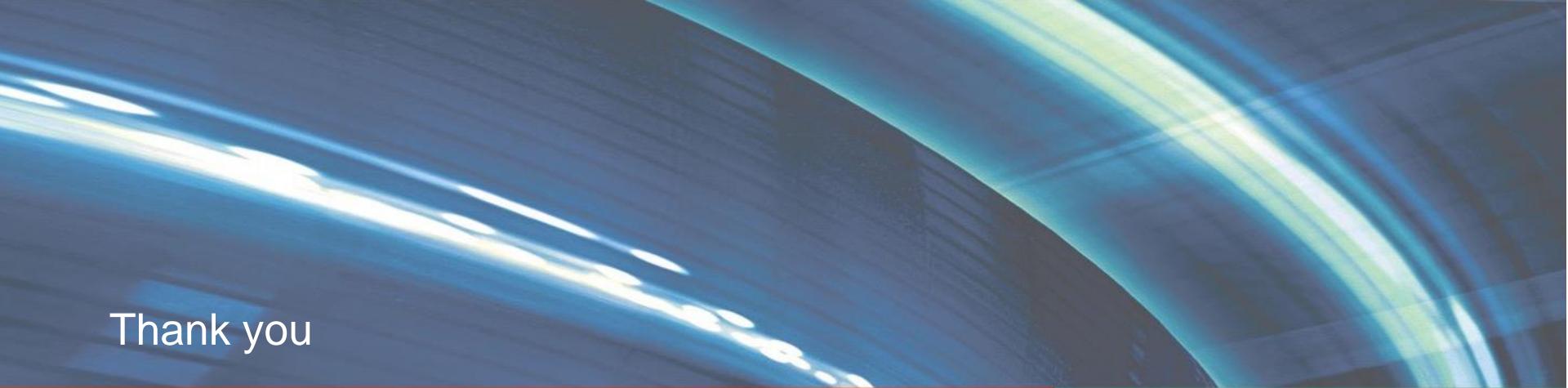
Diminishing global  
supply tightening  
market

Sulphur Springs  
deep targets

Proven team



Building an Australian base metals business



# Thank you

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