# VENTUREX RESOURCES LIMITED: THE NEW AUSTRALIAN COPPER-ZINC DEVELOPER

Tim Sugden, Managing Director PPR Media Luncheon 16 November 2011

**ASX Code: VXR** 



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#### **Competency Statement**

The information in this report that relates to Exploration Results, Mineral Resources and Ore Reserves (excepting Sulphur Springs) in the Pilbara VMS Cu-Zn Project is based on information compiled or reviewed by Dr Tim Sugden BSc, PhD, and Mr Steven Wood who are Members of the Australasian Institute of Mining and Metallurgy. Dr Sugden and Mr Wood are full time employees of Venturex Resources Limited and have sufficient experience relevant to the style of mineralisation, type of deposit under consideration and to the activity being undertaking to qualify as Competent Persons as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr Sugden and Mr Wood consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this report that relates to Ore Reserves at Sulphur Springs is based on information compiled or reviewed by Mr David Clark who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Clark is a full time employee of RMDSTEM Limited and 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 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Clark consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Brazil Exploration Results is based on information compiled by Mr Karl Weber who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Weber is a fulltime employee of CMG Mineração Ltda, a wholly owned subsidiary of Venturex Resources Limited, and has sufficient experience relevant to the style of mineralisation, type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Weber consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.



# **Key Project Areas**

Advanced feasibility study for Australia's next Cu-Zn VMS¹ mine Exploring for large gold deposits in Brazil



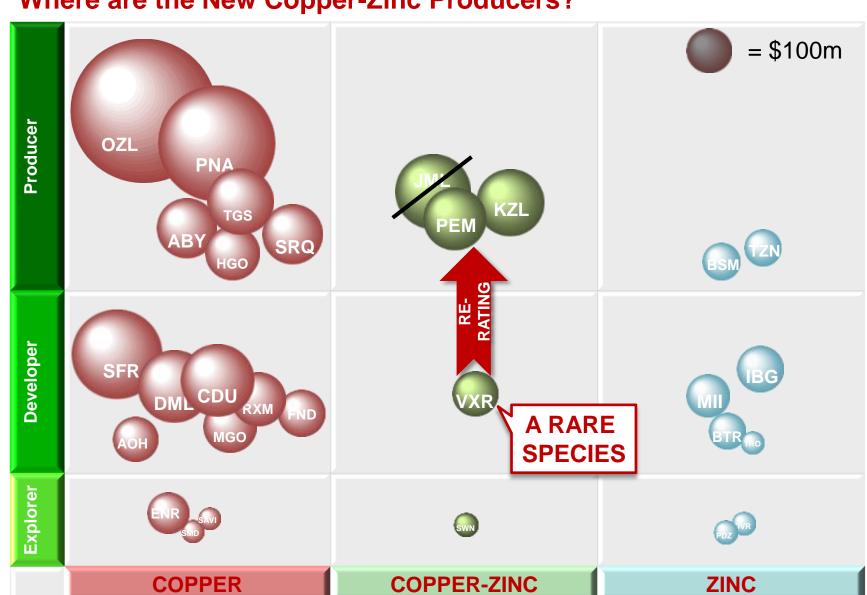


#### **Venturex: Investment Case**

- Scarcity of Emerging Copper-Zinc Producers
  - Positioned to benefit from robust copper market and forecast zinc supply deficit
- Management
  - A growing team of experienced project development professionals
- Quality Resources With Growth Through Exploration
  - Large resource base and control of four VMS belts
- Location & Infrastructure
  - Low sovereign risk and developing in infrastructure-rich region
- Upside
  - Project expansion and gold discovery opportunities in Brazil

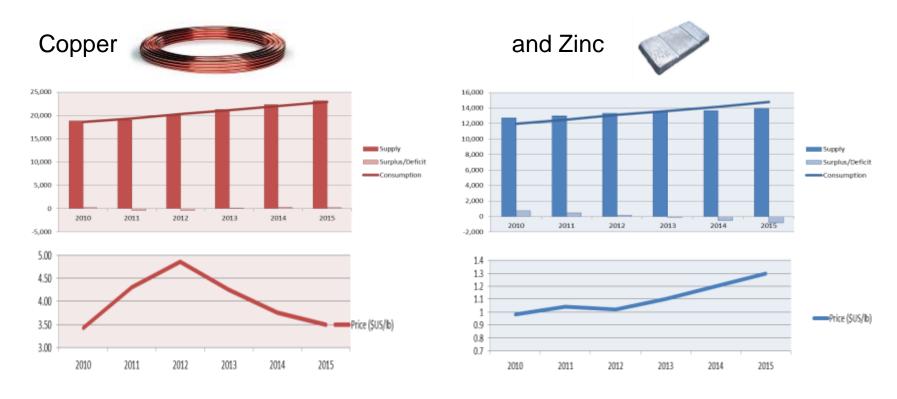


#### Where are the New Copper-Zinc Producers?



#### **World Production Outlook**

Robust demand/supply & price outlook for:



Plus positive views on Gold, Silver and Lead...



# Directors & Senior Management















#### Mr Tony Kiernan, LLB - Non-Executive Chairman

Mr Kiernan is a solicitor with 35 years experience in management and operation of listed public companies. He is also Chairman of BC Iron and Uranium Equities, and a Director of Liontown Resources and Chalice Gold Mines.

#### Dr Allan Trench, BSc, PhD, MSc, MBA - Non-Executive Director

Dr Trench is a geologist/geophysicist with 20 years experience in the resources sector, and has extensive business consulting experience. He is Chairman of Navigator Resources and Acadian Mining, and Director of Pioneer Resources and Hot Chili.

#### Mr John Nitschke, BE(Min), MSc - Non-Executive Director New Appointment

Mr Nitschke is a mining engineer with over 35 years experience in the mining industry with substantial experience in large resource companies. He is Chairman of TSX-V listed Continental Nickel and a Director of IMX Resources and Toro Energy.

#### Dr Tim Sugden, BSc, PhD - Managing Director

Dr Sugden has 24 years experience in resources industry including operations General Manager for Normandy and Newmont. He was co-founder and Director of Agincourt Resources and Nova Energy, and is Chairman of Newland Resources.

#### Mr Anthony Reilly, BEc - Executive Director

Mr Reilly has extensive international experience in financial markets, risk management and corporate finance. He was a senior Manager for Westpac in UK and was a founding Director of CMG Mineração.

#### Mr Ian Suckling, BAppSc (Min) - Chief Operating Officer New Appointment

Mr Suckling has over 35 years experience as a Mining Engineer, including General Manager of Yandal Operations, General Manager Operations with Sino Mining International and most recently was Senior Director – Underground Mine Engineering for Newmont Mining Corporation.

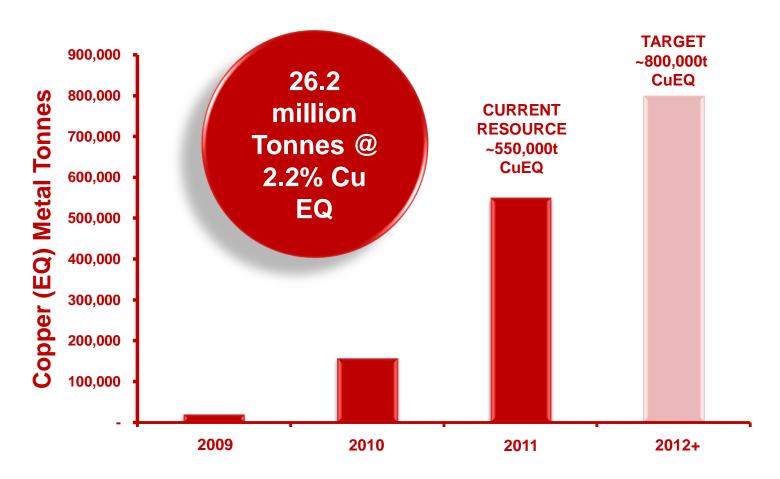
#### Ms Liza Carpene, MBA, ACIS - Company Secretary

Ms Carpene has over 15 years experience in corporate administration, HR, IT and community relations with Normandy, Newmont, Agincourt and Oxiana. She has held extensive operational management roles in Australia and Indonesia.



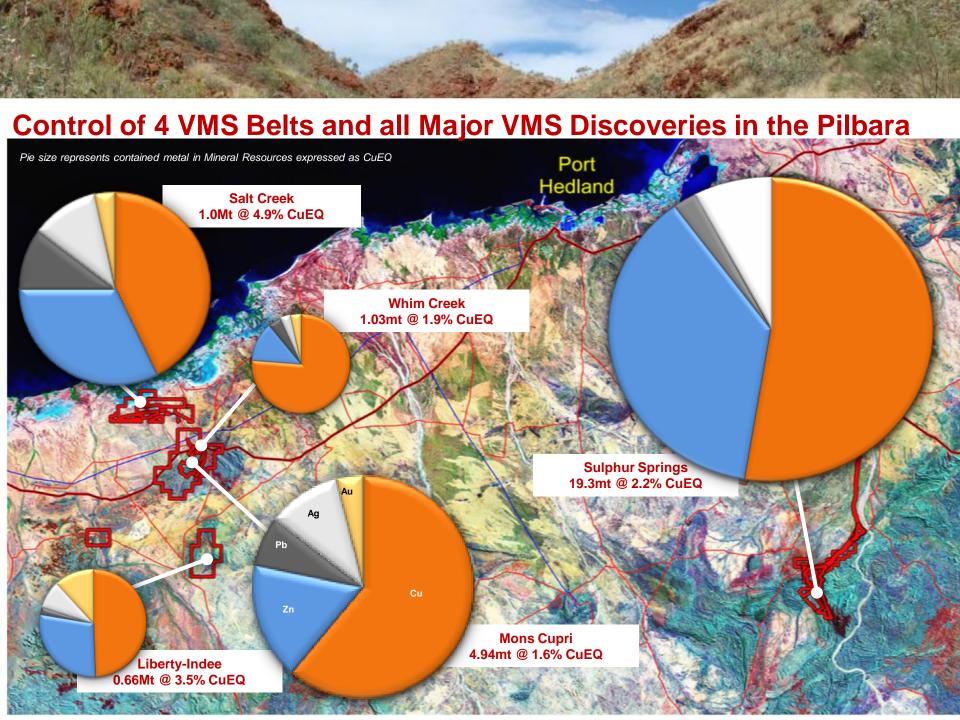
### Pilbara Cu-Zn VMS Project

#### Substantial Resources with Further Growth Potential

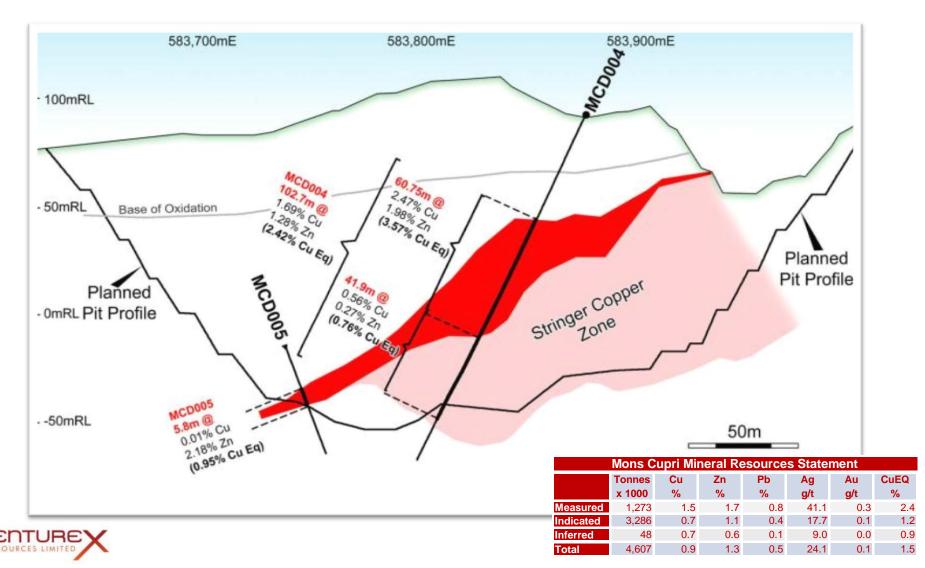




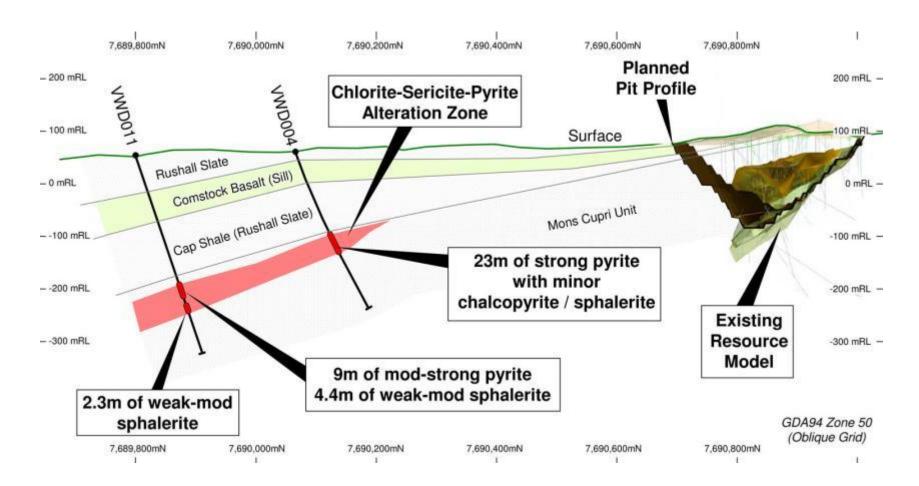
<sup>&</sup>lt;sup>1</sup> The exploration target is conceptual in nature and there has been insufficient exploration to define a Mineral Resource, and it is uncertain if further exploration will result in the determination of a mineral resource under the JORC Code.



### Near Surface High Grade Ore (Mons Cupri)

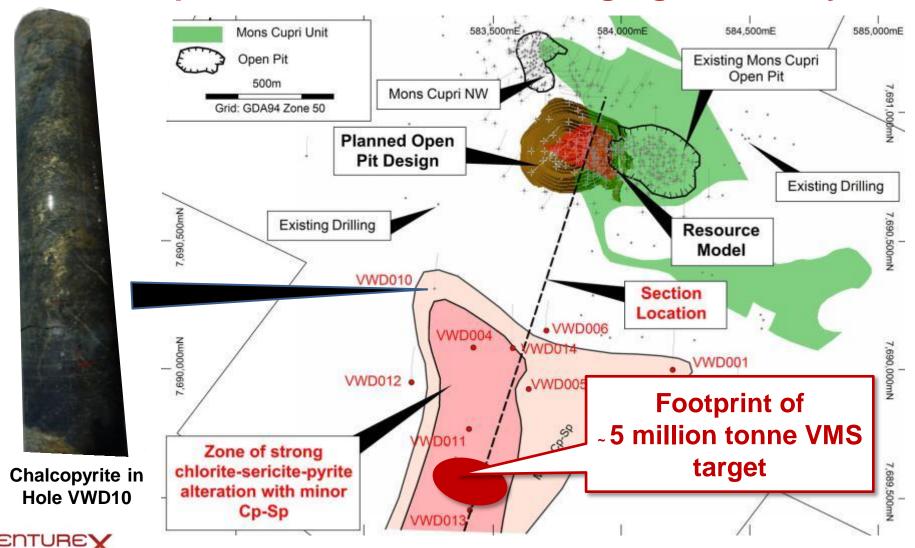


#### Mons Cupri South West – An Emerging Discovery?

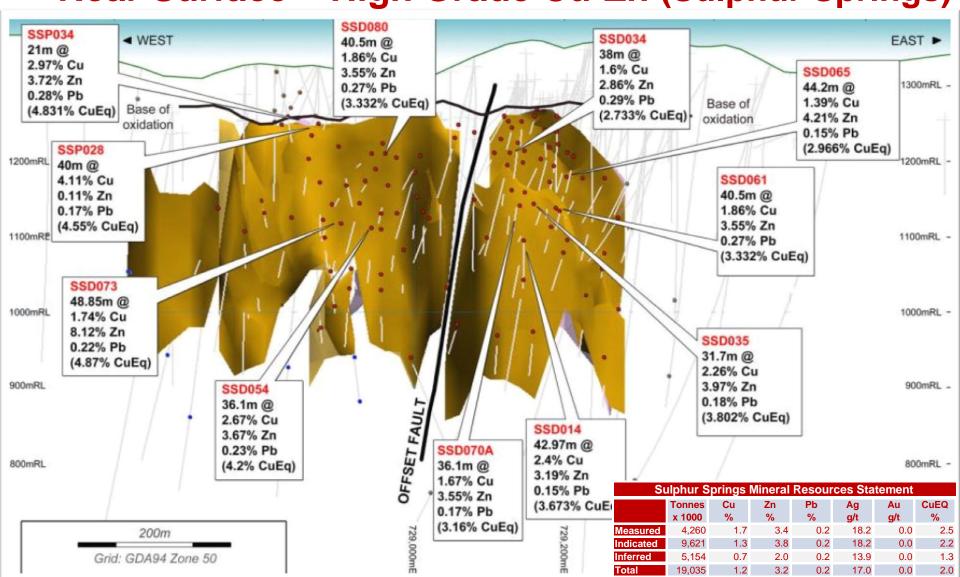




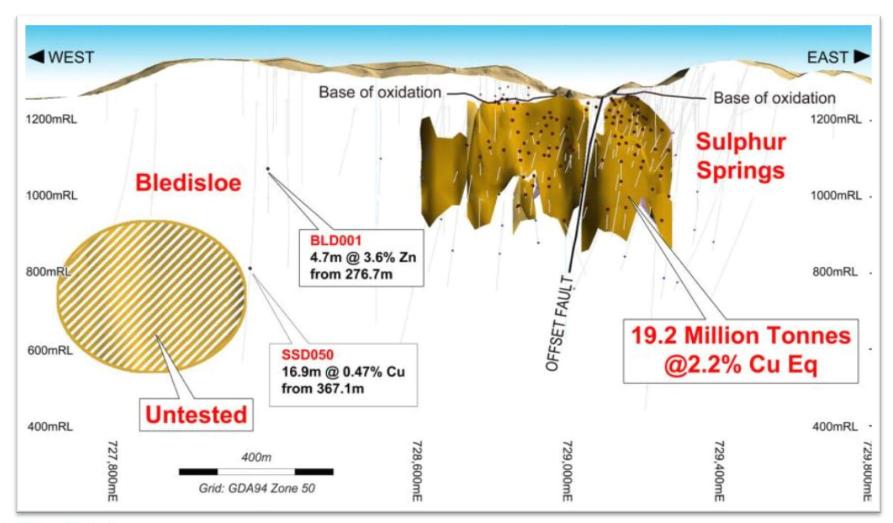
### Mons Cupri South West – An Emerging Discovery?



# **Near Surface – High Grade Cu-Zn (Sulphur Springs)**

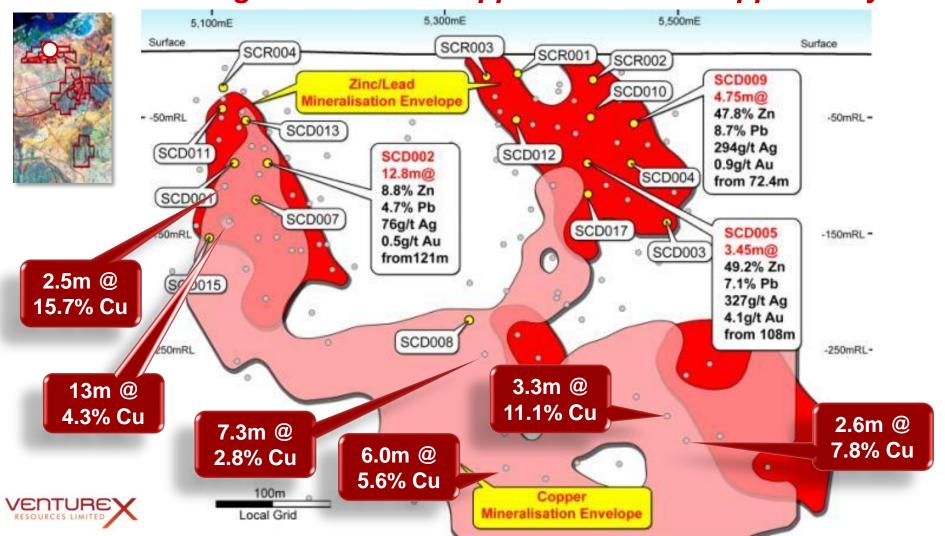


## **Sulphur Springs Exploration Targets**

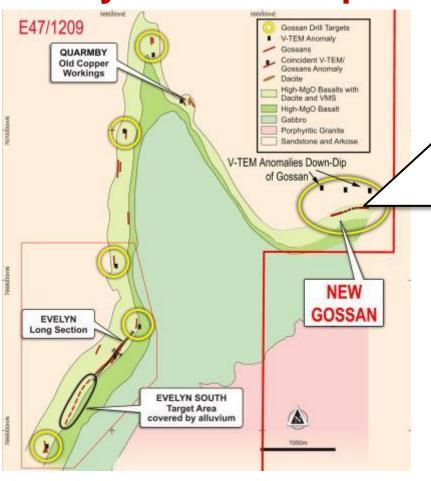


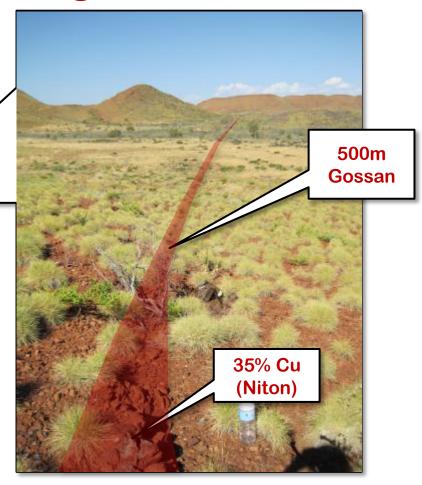


# Salt Creek – A High Grade VMS System Additional High Grade Zinc/Copper Production Opportunity



# Liberty-Indee: Multiple Drill Targets

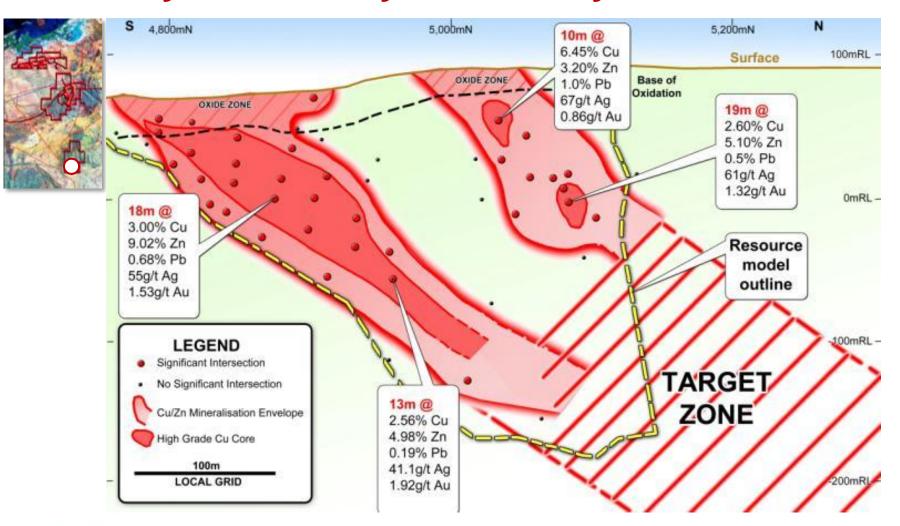




- 12kms of prospective horizon
- Numerous VTEM targets



### **Liberty-Indee Evelyn Discovery**



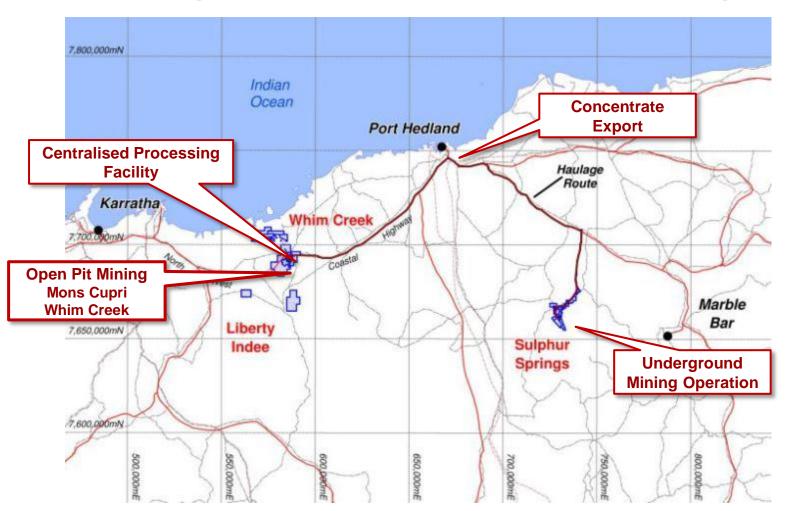


# **Bankable Feasibility Study – Key Points**

- Significant new Copper-Zinc production centre
- Incorporating ~40% of Mineral Resources
- Targeting initial 9 year life
- Annual throughput up to 1.5 million tonnes
- Targeting annual production of:
  - > 20,000t Copper
  - → 40,000t Zinc
  - > 700,000oz Silver
- Optimising use of existing infrastructure
- Export of concentrates via Port Hedland
- ▶ BFS completion date 1<sup>st</sup> Quarter 2012
- First production 4<sup>th</sup> Quarter 2013



## Developing in an Infrastructure-Rich Region





#### **Established Minesite Infrastructure**

- Significant infrastructure in place
  - Crusher
  - Power
  - Water
  - Roads
  - Accommodation village
  - Hotel

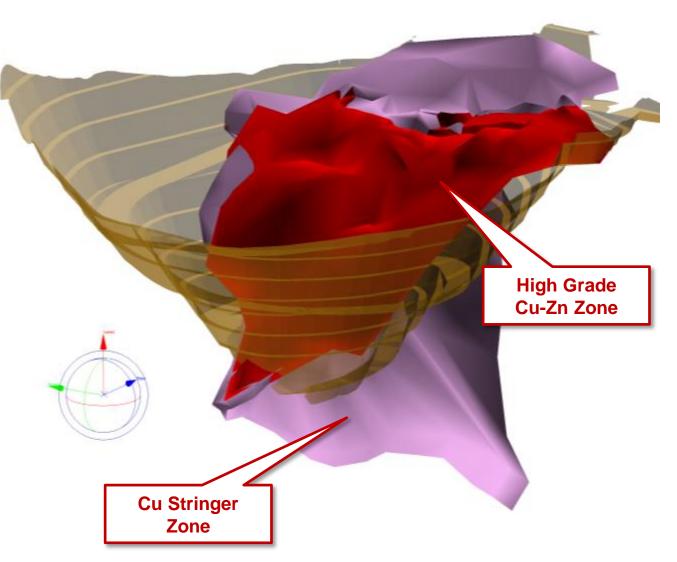
Path to fast track development





# Simple Open Pit Mining Plan

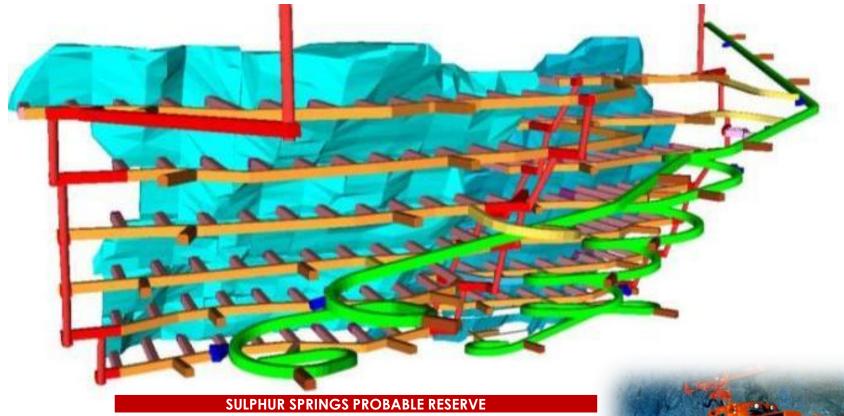
- Massive sulphide ore present just below base of existing oxide pit
- Simple cut back, conventional open pit operation
- Low strip ratio
- Extensions at Mons Cupri North West





# **Sulphur Springs: A Simple High Productivity Mine**

▶ Planned production rate of 850,000tpa @ 3.0% Cu EQ

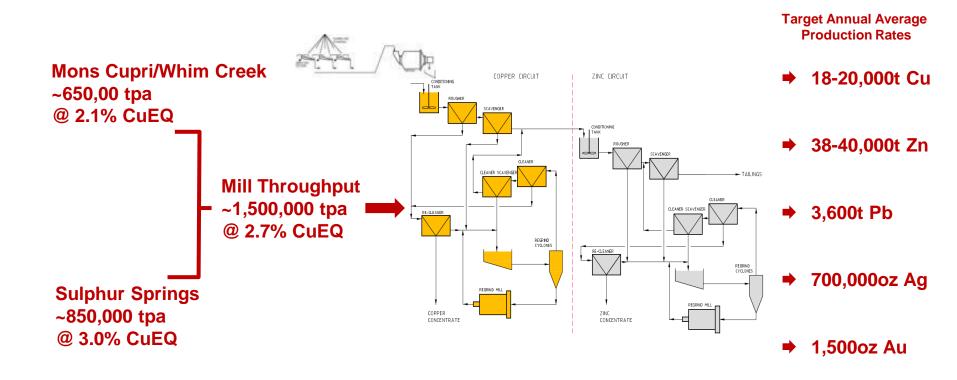


SULPHUR SPRINGS PROBABLE RESERVE													
Domain	Tonnes	Cu %	Zn %	Pb %	Ag g/t	Cu EQ %							
Copper	4,255,000	2.1	3.7	0.2	17	3.1							
Zinc	1,408,000	1.1	6.0	0.3	23	2.6							
Total	5,663,000	1.9	4.3	0.2	18	3.0							

Note: only 30% of total resource in reserve category



## **Planned Mill Throughput**





# **Exceptional Metallurgy** *Highly Marketable Concentrates*

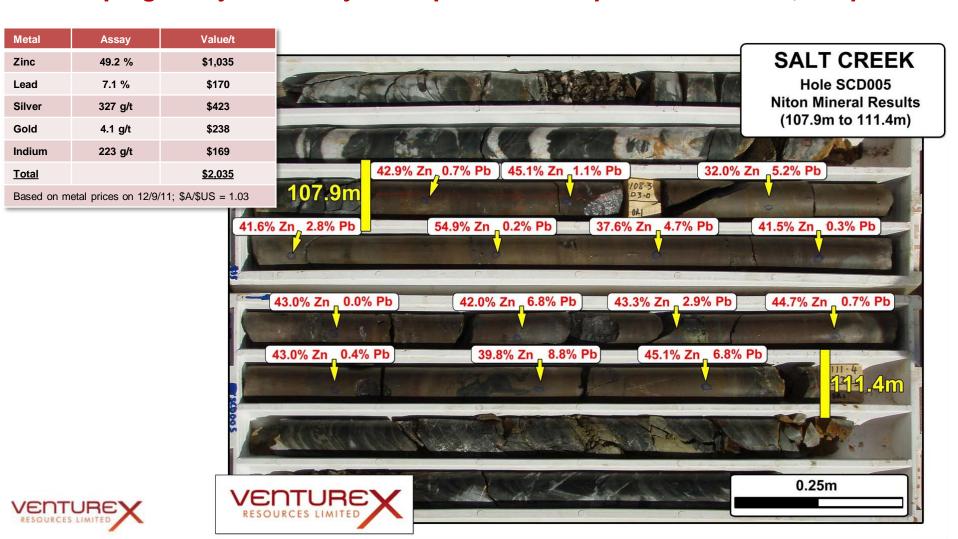
# SULPHUR SPRINGS LOCKED CYCLE FLOTATION RESULTS

	MASS	COPPER		ZIN	C	SILVE	R	LEAD		
PRODUCTS RECOVERED	%	Grade %	% dist	Grade %	% dist	Grade ppm	% dist	Grade %	% dist	
Copper ReCl Concentrate 1-3	6.3	26.4	95.1	1.3	2.0	74	25.3	1.09	39.2	
Zinc ReCl Concentrate 1-3	6.3	0.5	1.9	58.9	90.3	56	19.1	0.22	7.7	
Zinc Rougher Tails	87.4	0.06	3.0	0.36	7.7	12	55.6	0.11	53.1	
Calculated Head	100.0	1.75	100.0	4.11	100.0	18	100.0	0.18	100.0	
Assay Head		1.82		4.00		18		0.17		

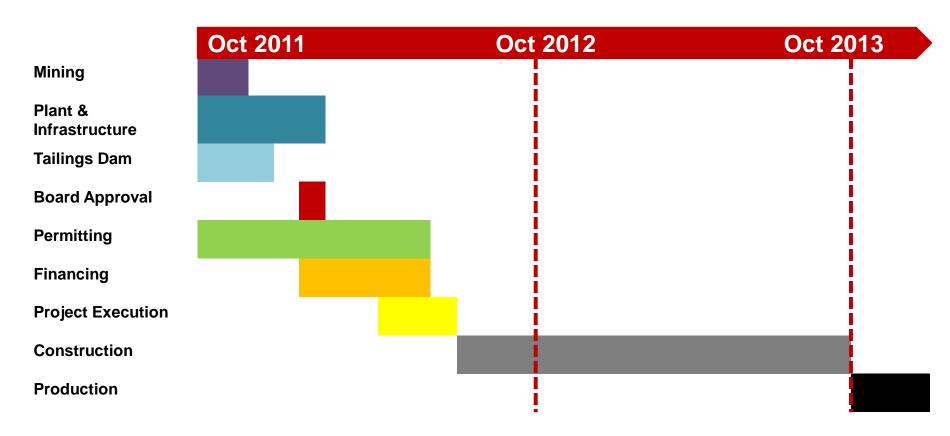


# Salt Creek – Direct Shipping Ore Potential

Scoping study underway to lift planned zinc production to 60,000tpa



#### **Near Term Production**



Indicative timetable. Development subject to permitting and finance.



## **Gold Exploration in Brazil**

A Developing Story...

- ▶ CMG Mineração Ltda is an incorporated and registered Brazilian exploration company 100% owned by Venturex
- Focused on discovery of large gold deposits
- Established exploration team in Cuiabá
- Projects in Mato Grosso and Tapajós gold district, Pará



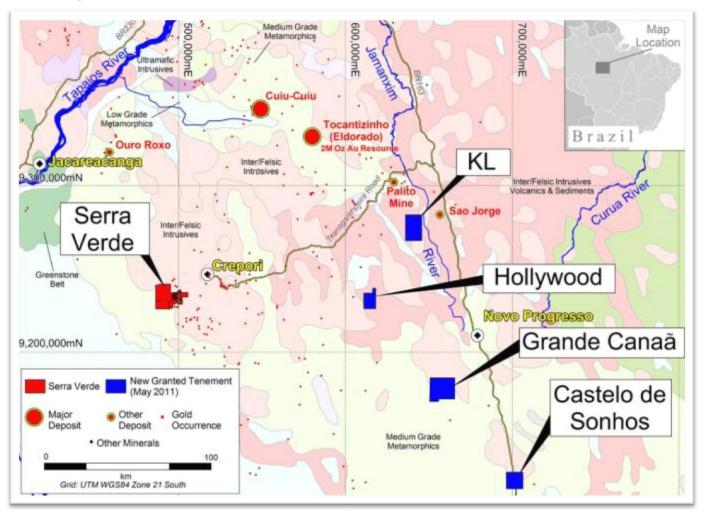




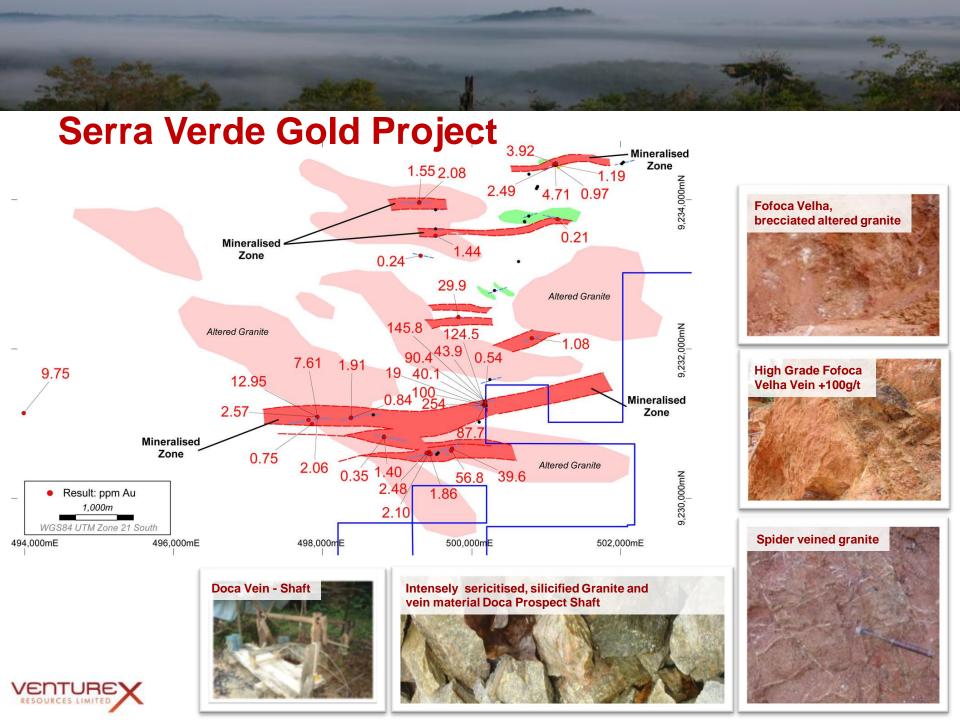


## Large Land Holding in the Tapajós

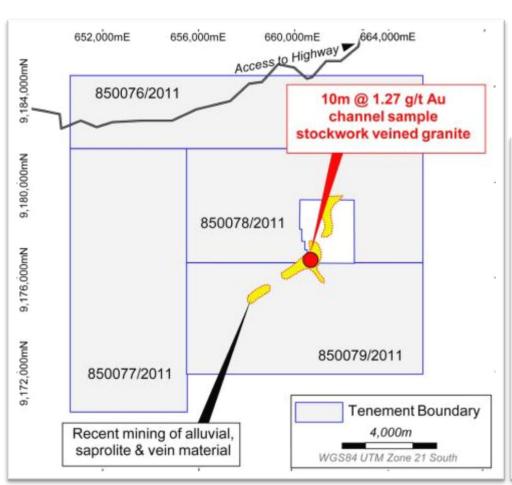
Largest alluvial gold province in Brazil, estimated production of 20-30 Moz 1978-1995







## **Grande Canaã Gold Project**



- 4 Exploration Licences
- Local mining activities have exposed stockwork veined, sulphidised granite.





# VXR: The New Australian Copper-Zinc Developer

- The only emerging copper-zinc producer in Australia
- Large resource base and enviable ground position
- Existing infrastructure to reduce capital requirements
- Development decision early in 2012
- Significant copper, zinc and silver production by late 2013
- Multiple exploration/production upsides
- Potential for large gold discoveries in Brazil



# THANK YOU ANY QUESTIONS?



# Pilbara Resources & Reserves as at 1 September 2011

	MINERAL RESOURCES									ORE RESERVES							
Lo	ocation	JORC Classification	Tonnes x 1,000	Cu wt%	Zn wt%	Pb wt%	Ag g/t	Au g/t	CuEQ wt %	JORC Classification	Tonnes x 1,000	Cu wt%	Zn wt%	Pb wt%	Ag g/t	Au g/t	CuEQ wt %
	Whim Creek	Indicated	967	1.4	1.2	0.2	8.8	0.1	1.8	Probable	687	1.7	1.1	0.2	8.9	0.1	2.1
		Inferred	4	0.5	2.3	0.6	13.9	0.1	1.1								
	<b>&gt;</b> 0	Sub-total	972	1.4	1.2	0.2	8.8	0.1	1.8	Sub-total	687	1.7	1.1	0.2	8.9	0.1	2.1
	Ë	Measured	1,273	1.5	1.7	0.8	41.1	0.3	2.4								
	Mons Cupri	Indicated	3,286	0.7	1.1	0.4	17.7	0.1	1.2	Probable	2,815	1.1	1.8	0.8	32.1	0.2	1.9
	Suc	Inferred	48	0.7	0.6	0.1	9.0	0.0	0.9								
	¥	Sub-total	4,607	0.9	1.3	0.5	24.1	0.1	1.5	Sub-total	2,815	1.1	1.8	0.8	32.1	0.2	1.9
ž	Zn	Indicated	475	0.2	14.1	4.4	107.1	0.5	6.4	Probable	361	0.2	12.8	4.2	109.2	0.5	6.0
Salt Creek	Cu	Indicated	423	3.7	0.9	0.1	2.7	0.1	4.0	Probable	236	4.1	1.3	0.2	3.2	0.1	4.6
=		Inferred	105	3.5	0.1	0.0	1.5	0.0	3.6								
S	Zn/Cu	Sub-total	1,003	2.0	7.0	2.1	52.0	0.3	5.1	Sub-total	597	1.8	6.6	2.1	53.1	0.3	4.8
	v	Indicated	453	2.2	4.5	0.4	42.0	0.9	4.0	Probable	361	2.2	4.5	0.4	40.7	0.9	4.0
	Liberty. Indee	Inferred	204	1.0	1.8	0.2	22.4	0.4	1.8								
	<b>≝</b> =	Sub-total	657	1.8	3.7	0.3	35.9	0.8	3.3	Sub-total	361	2.2	4.5	0.4	40.7	0.9	4.0
		Measured	4,260	1.7	3.4	0.2	18.2	0.0	2.5								
	Sulphur Springs	Indicated	9,621	1.3	3.8	0.2	18.2	0.0	2.2	Probable	5,663	1.9	4.3	0.0	18.0	0.0	3.0
	Sulp	Inferred	5,154	0.7	2.0	0.2	13.9	0.0	1.3								
		Sub-total	19,035	1.2	3.2	0.2	17.0	0.0	2.0		5,663	1.9	4.3	0.0	18.0	0.0	3.0
	sus	Measured	5,533	1.6	3.0	0.3	23.4	0.1	2.5								
	atic	Indicated	15,226	1.2	3.3	0.4	20.6	0.1	2.2	Probable	10,123	1.7	3.6	0.4	25.0	0.1	2.8
	All Locations	Inferred	5,515	0.8	1.9	0.2	13.9	0.0	1.3								
	₹	Total Sulphide Resources	26,274	1.2	3.0	0.3	19.8	0.1	2.1	Total Sulphide Reserves	10,123	1.7	3.6	0.4	25.0	0.1	2.8





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