# Managing Directors Update 2014 AGM

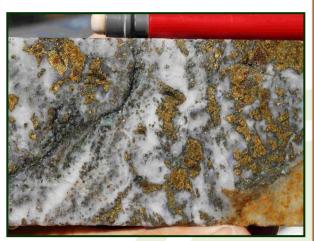
**Mt Carrington Project** 

Au – Ag Resource Development Copper Exploration









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The information in this presentation that relates to Exploration Results or Mineral Resources is based on information compiled by Mr Rohan Worland who is a Member of the Australian Institute of Geoscientists. Mr Worland is engaged by White Rock Minerals Ltd as a technical consultant. Mr Worland has sufficient experience which is relevant to the style of mineralisation and 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'. The Exploration Potential described in this Presentation is conceptual in nature, and there is insufficient information to establish whether further exploration will result in the determination of a Mineral Resource Mr Worland consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

We have estimated the resources reported in this Presentation in accordance with the Australasian Code for Reporting of Identified Mineral Resources and Ore Reserves 2004 Edition ("JORC Code"), which governs such disclosure by companies listed on the Australian Securities Exchange.

The gold and silver Resource figures for Strauss, Kylo, Lady Hampden, Silver King, White Rock, White Rock North and Red Rock have been taken from resource estimates prepared by Ravensgate Minerals Industry Consultants on behalf of White Rock Minerals Ltd and authored by Mr Don Maclean who is a professional geologist with more than 10 years' experience in resource estimation. Mr Maclean is a Competent Person as defined by the JORC Code and consents to the inclusion in this presentation of references to this resource estimate in the form and context in which they appear.

The gold and silver Resource figures for Guy Bell have been taken from the resource estimate report dated 1 October 2008 prepared by Mining One Pty Ltd on behalf of Rex Minerals Ltd and authored by Dr Chris Gee who is a professional geologist with more than 10 years' experience in resource estimation. Dr Gee is a Competent Person as defined by the JORC Code and consents to the inclusion in this presentation of references to this resource estimate in the form and context in which they appear.

The pit optimisation study used a Mineral Resource made up of a combination of Indicated and Inferred Resource blocks. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Indicated Mineral Resources or that the production target itself will be realised.

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# **White Rock Corporate Overview**

Issued Capital	193M shares 6M options	-	•		
Cash	A\$1.3M# No debt				
<b>Market Capitalisation</b>	A\$4M @\$0.021 / share				
Mineral Resources	340koz gold & 23.5Moz silver				
Enterprise Value EV / AuEq Resource oz	A\$2.7M A\$4/oz AuEq*				
Major Shareholders	Avalon Ventures Corp (SNG) Greenstone Property Titeline Services Pty Ltd Lion Capital Advisory Top 20:	41.33% 11.49% 3.10% 2.74% 70%			

ASX:WRM



### **Mt Carrington Project Overview**

**JORC Resources** 340koz gold & 23.5Moz silver

Infrastructure Granted Leases , Grid Power, Water, Tails Storage

Facility

**Permitting underway** Development Plan submitted Q4 2013

EIS proposed to be submitted 2015

**Exploration Upside** Modern first mover: 70+ targets defined

Commodities in demand:

Au & Ag: shallow deposits and depth extensions

Cu: shallow mineralisation and deeper targets



### Mt Carrington Milestones 2013/14

- ✓ **Red Rock** New gold zone discovered and shallow 54koz Inferred Resource defined
- ✓ White Rock silver Resource upgraded to 50% Indicated
- ✓ Au-Ag Resource Development
  - Conceptual Project Development Plan approved by NSW Resources Division
  - ✓ Three stage resource development strategy defined
  - ✓ Stage 1 scoping study completed (gold resources) with positive preliminary economics
- ✓ Exploration
  - Porphyry Copper potential identified and targets defined
  - √ \$200,000 grant from NSW Government to assist copper exploration drilling
  - ✓ Access Agreement executed with NSW Forestry Corp life of tenements

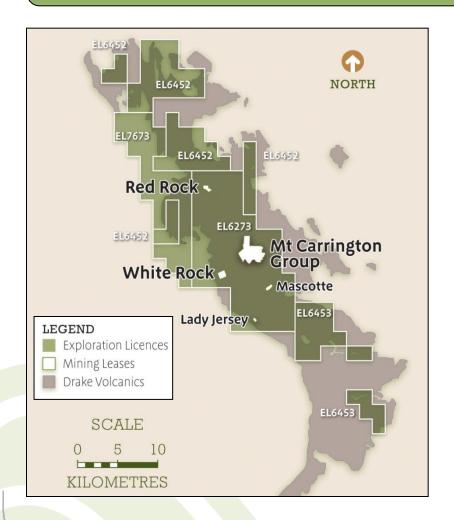


### Mt Carrington Strategy 2014/15

- Au-Ag Resource Development
  - Completion and submission of EIS
  - Commencement of PFS / DFS on gold Resources
- Exploration
  - Porphyry copper exploration program
  - MIMDAS geophysics survey in November 2014
  - Drilling proposed to commence in early December
  - Continued development of brownfields targets



### Mt Carrington Exploration



#### **Priority Targets**

#### 1. Central Leases

- Porphyry Cu concept developed
- Shallow secondary Cu Au in drilling
- Coincident geophysical IP anomalies

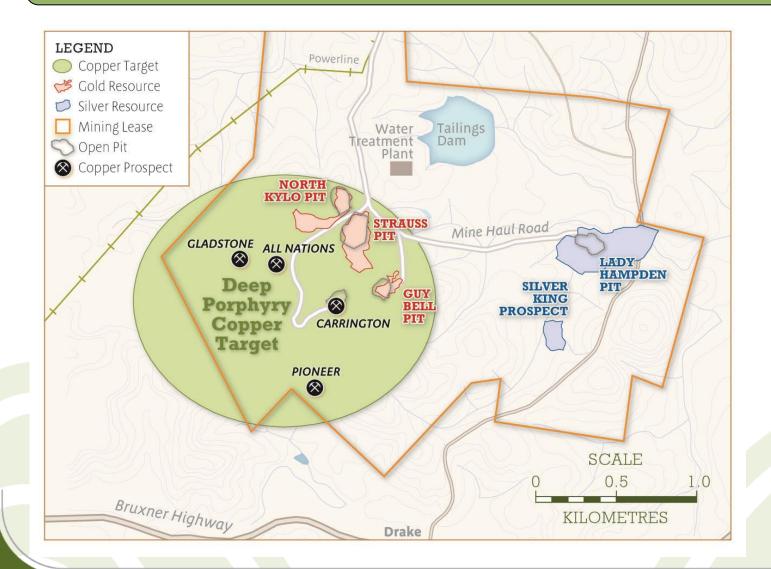
#### 1. White Rock

- Zoned Ag-Au-Cu
- Au zone recognised on margin of Ag Resource
- Enriched Cu with depth
- Breccia-vein association

#### 2. Red Rock

- Zoned Au-Ag-Cu
- Enriched Cu with depth
- Historic Cu workings







#### Good evidence for Cu -Au porphyry system at depth on main Mining Leases:

- Shallow secondary Cu Au in drilling below large surface copper anomalism (10 40m depth)
- Discrete Cu-Au "D" vein zones with 1-5% Cu and up to 20g/t Au (40 300m depth);
   typical association with upper levels of porphyry systems
- Coincident geophysical IP chargeability bodies at depth <u>untested by drilling</u>

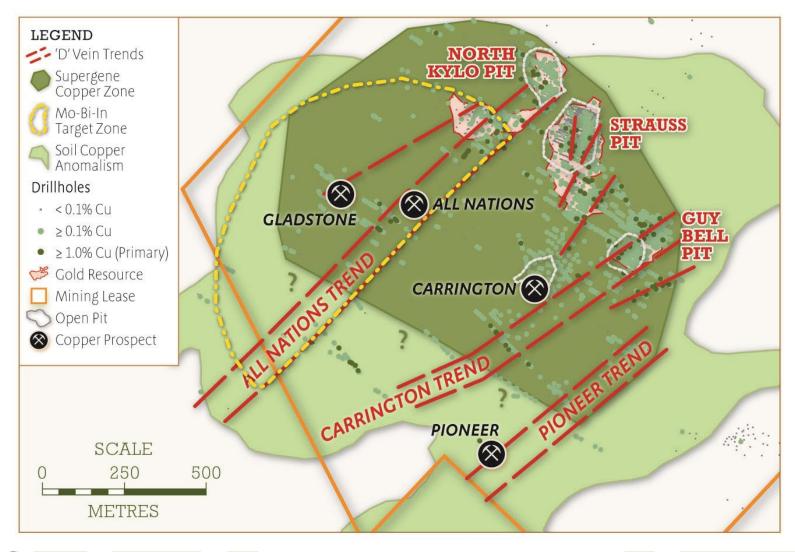
#### Several Robust Targets:

- Narrow structurally controlled high grade Cu Au (<500m)</li>
- Enriched stockwork of Cu Au associated with high-level intrusive (500-1,000m)
- Cu Au porphyry mineralisation (800-1,500m)
- Initial geophysics and drilling program will provide proof of concept
- Follow-up drilling program to define mineralisation

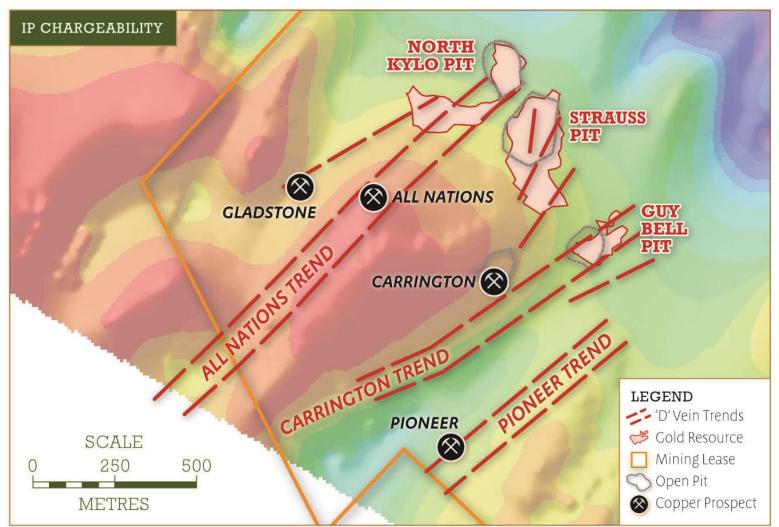




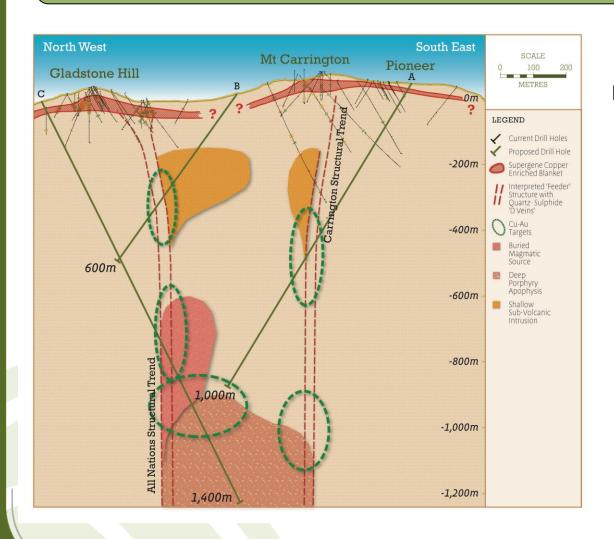












#### **Proposed Program**

#### **Geophysics**

MIMDAS – electrical and magnetic data

#### **Drilling**

- Shallow secondary and Dvein targets
- Mid level D-vein targets and alteration vectoring
- Deep porphyry targeting



- White Rock views the Mt Carrington Porphyry Copper concept as a strong exploration proposition, with the ability to add significant value at low cost to the Mt Carrington project if drilling is successful.
  - Strong evidence for porphyry copper-gold system with multiple targets from surface to +1000m depth
  - Provides exposure and a potential value-uplift to a Au-Ag mineral belt with long life potential
  - The support of the NSW Government in providing the drilling grant is testament to a well structured and technically robust program.



### **2014 Scoping Study Update**

- Revised strategy based on a 3-stage open pit mining scenario developed
- 2014 Scoping Study completed on Stage 1 development of higher confidence Au resources -Strauss and Kylo deposits: 2.7Mt @ 1.4g/t Au, 3g/t Ag for 122koz Au and 260koz Ag (in-pit Resources, 64% Indicated, 34% Inferred) #\*
- Positive cash flow at a gold price of A\$1,400
- Stage 1 gold-only development has a number of advantages including:
  - Lower Capex
  - Streamlined Feasibility Study
  - Streamlined approvals process
  - Faster timeline to production
- Stage 2 development of lower confidence gold Resources (Guy Bell, Red Rock 67koz Inferred #)
- Stage 3 development of silver Resources (Lady Hampden, White Rock, Silver King 17.5Moz Inferred and Indicated #)
- One simple floatation CIL plant suitable for gold, silver and potentially copper

# Refer to Mineral Resources table on page 20 of this presentation for full Resource figures
\* Refer to WRM release to the ASX of 16 September 2014 – 2014 Scoping Study

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### **Stage 1 Gold Development Summary**

Financial Summary						
Gold production	oz	93,000				
C1 cash cost (incl Ag credit)	A\$/oz	875				
Total cash flow	\$m	25.3				
NPV (10%)	A\$m	15.5				
IRR	%	51				
Capital cost	A\$m	20.6				
Payback	years	1.4				
Mine life	years	3.4				

**Proposed Development Timeframe**#

- CPDP approved in December 2013
- EIS submission target Q1 2015
- BFS completion target Q4 2015
- Development Consent target Q1 2016
- Construction and commissioning Q4 2016

Based on processing of ore from the Strauss and Kylo deposits. Average Strip Ratio 1.35:1. Gold A\$1,400; Silver A\$22.00 800,000tpa plant throughput.

# Target timeframes are subject to funding and regulatory approvals



### **Community and Environment**

Established and proactive measures in place to underpin responsible community and environmental stewardship

#### **Community**

- Community newsletter articles
- Site information days
- Fundraising and local support –
   Westpac Rescue helicopter, Drake School, Rural Fire Service
- WRM has strong community support

#### **Environment**

- RO Plant and Evaporation Sprinklers
- EIS baseline sampling and monitoring –
   ecology, surface water, groundwater, dust, noise
- Feedback to community and regulatory stakeholders







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### **Summary**

**100% Ownership and key focus on Mt Carrington** -no funds bleeding to second tier projects

<u>NSW Location</u> - Stable political, social and environmental jurisdiction; clear pathway for development permitting

**Resources** - Robust 650,000 AuEq\* in shallow deposits with clear growth upside

<u>Infrastructure</u> - Significant mining assets in place, de-risks development & lowers capex

#### <u>Clear Strategy –</u>

**Exploration**: Modern first mover advantage in Drake Caldera; numerous near mine Gold –

Silver targets and *strong leverage on Copper* 

Development Studies: Staged Feasibility aligned with project size and funding requirements

**Management Team** – Right mix of industry and corporate experience to execute strategy

Compelling value relative to Australian peers – EV / AuEq oz is <\$4

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### Mineral Resource Summary

MT CARRINGTON JORC (2004) MINERAL RESOURCES – NOVEMBER 2013										
Silver Dominant Resources										
Resource Category	Deposit	Tonnes	Gold grade (g/t)	Gold ounces	Silver grade (g/t)	Silver ounces				
Indicated	Lady Hampden	1,840,000	0.6	37,000	69	4,056,000				
	White Rock	1,710,000	-	-	77	4,214,000				
	Sub-Total	3,550,000	0.3	37,000	72	8,270,000				
Inferred	Lady Hampden	2,470,000	0.3	27,000	51	4,023,000				
	White Rock	2,660,000	-	-	47	3,978,000				
	White Rock North	3,180,000	-	-	52	5,314,000				
	Silver King	640,000	-	-	59	1,218,000				
	Sub-Total	8,950,000	0.1	27,000	51	14,533,000				
	Lady Hampden	4,310,000	0.5	64,000	58	8,079,000				
	White Rock	4,370,000	-	-	58	8,192,000				
Total	White Rock North	3,180,000	-	-	52	5,314,000				
	Silver King	640,000	-	-	59	1,218,000				
	Total	12,500,000	0.2	64,000	57	22,803,000				
	Gold Dominant Resources									
Resource Category	Deposit	Tonnes	Gold grade (g/t)	Gold ounces	Silver grade (g/t)	Silver ounces				
Indicated	Strauss	1,240,000	1.4	57,000	3.8	153,000				
	Kylo	1,590,000	1.2	59,000	2.6	133,000				
	Sub-Total	2,830,000	1.3	116,000	3.1	286,000				
	Strauss	1,260,000	1.4	56,000	2.6	104,000				
Inferred	Kylo	760,000	1.5	35,000	1.8	43,000				
	Red Rock	1,630,000	1.0	54,000	3.5	182,000				
	Guy Bell	160,000	2.5	13,000	4.9	24,000				
	Sub-Total	3,810,000	1.3	158,000	2.9	353,000				
Total	Strauss	2,500,000	1.4	113,000	3.2	257,000				
	Kylo	2,350,000	1.3	95,000	2.3	176,000				
	Red Rock	1,630,000	1.0	54,000	3.5	182,000				
	Guy Bell	160,000	2.5	13,000	4.9	24,000				
	Total	6,640,000	1.3	275,000	3.0	639,000				
	Total Resources									
Category		Tonnes		Gold ounces		Silver ounces				

12,760,000

19,140,000

185,000

338,000

14,886,000

23,442,000

Resources reported in accordance with the JORC (2004) code

White Rock Min

Inferred

Total



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