rimfire pacific mining nl

(ASX "RIM")

The Sorpresa Gold & Silver Project District, Fifield NSW





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Presentation Outline

Introduction and Corporate Overview

Vision, Strategy and Milestones

Sorpresa Resource in Fifield Regional Context

Emerging Regional Gold & Copper Footprint

Sorpresa Gold and Silver Update

Summary Position



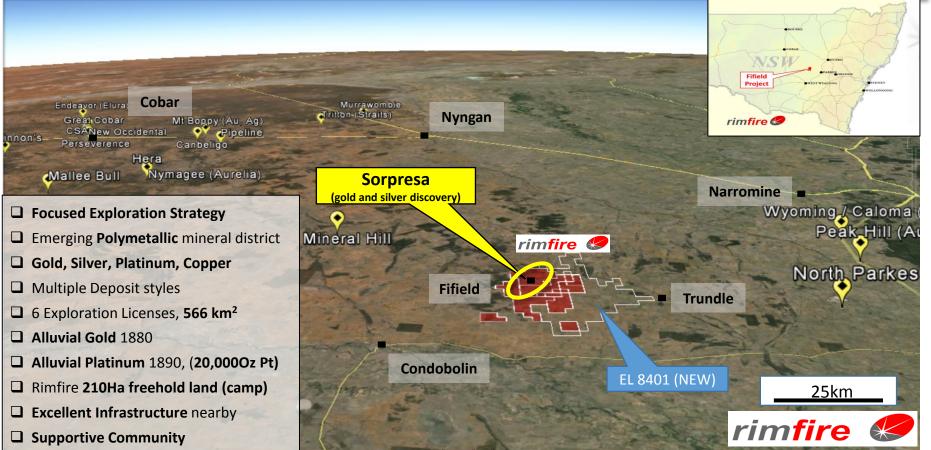






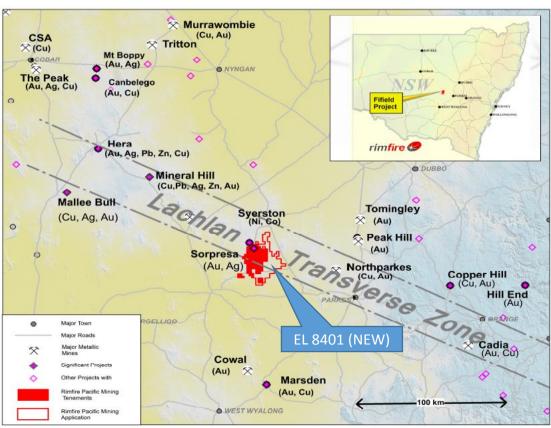
Project Focus - Fifield NSW







Project Focus - Fifield NSW - LTZ



- LTZ Corridor of Faults
- ☐ Gold with Copper emerging on East margin
 - ☐ Eclipse and Yoes areas
- ☐ Expanded Tenement position (280km²)

Deposit size selected NSW deposits (combined production and remaining resource)

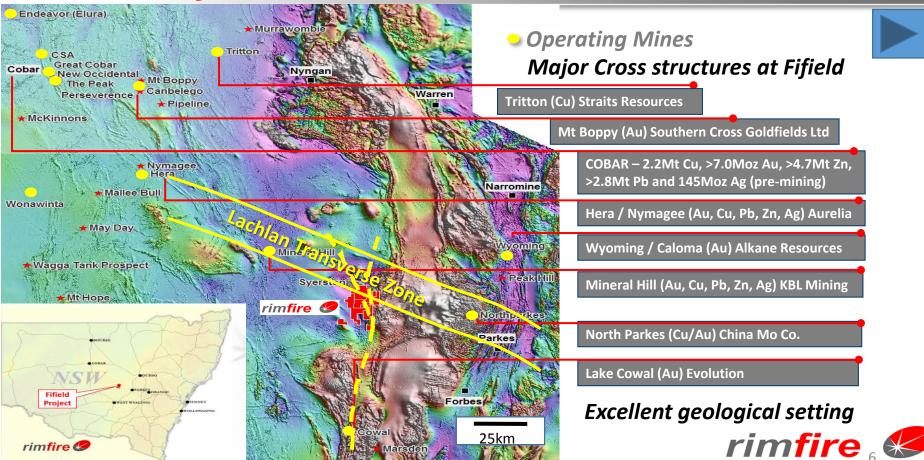
1	Deposit	Current Ownership	Au Moz	Cu Kt	Other
	Cadia Group	Newcrest	51.8	8446	
2	McPhillamy's	Regis Resources	2.9	64	
Š	North Parkes	CMOC/Sumitomo	3.8	921	
	Cowal	Evolution Mining	3.8		
9	Browns Creek	ANL	0.99	13	
Š	Copper Hill	Golden Cross Res.	1.6	611	
	Mineral Hill	KBL Mining	0.59	66	
000	Mt Boppy	Black Oak Minerals	0.60		
e C	Peak Hill	Alkane Resources	0.55	8	
Š	The Peak Gold Mine	Newgold	2.4	133	
Š	Tritton	Straits Resources	0.01	218	
	Hill End	Hill End Gold Ltd	0.66		
7	Hera	Aurelia Resources	0.28	4	
	Tomingly	Alkane Resources	0.96		
1	Syerston	CleanTeq			56 Kt Ni, 10Kt Co, 10 Kt Sc

Source: Production data Geological Survey of NSW on July 2015 and Resources data extracted from NSW datawarehouse





Project Focus - East Lachlan Fold Belt









Company Snapshot - 23 March 2016

Shares on Issue 799M Ordinary FP; 52M options (3.5 cents, expire May 2017)

Market Cap. Approx. \$12M @1.5cents

Share Price Movement

- 2013 High 7.5 cent (Jan), Low 2.8 cent (Dec); 2014 High 3.6 cent (Jan), Low 1.5 cents (May)
- 2015 High 3.6 cents (July), Low 1.2 cents (Feb)

Volume last 12 months

- Approx. 654,000 shares/day
- Largest 21.5m shares/day;

Shareholder Profile – 2000 plus shareholders

- Board & Management 8%
- Top 20 Holders 34%
- Top 100 Holders 65% (cut-off 1.61M shares)

Cash Status 31st December 2015 (Quarterly)

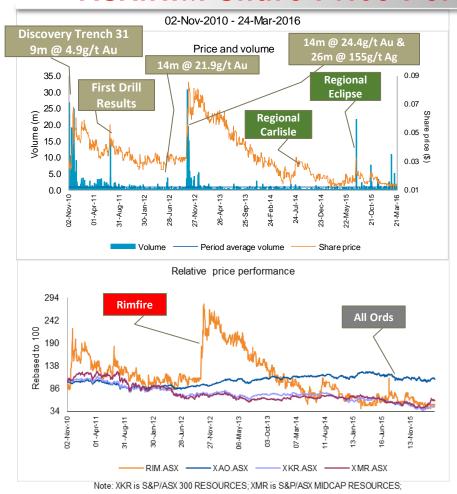
- Approx. \$1.7m
- Plus Negotiation of Farm-in JV



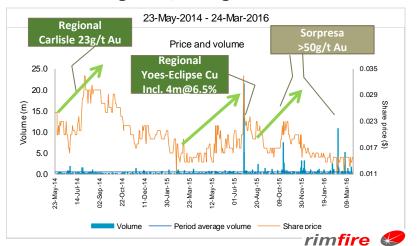




ASX:RIM Share Price Performance to 23 March 2016



- Risk capital has been on the sidelines
- Exploration Sector severe downturn, shoots...
- Liquidity and value decline, now improved
- ☐ Gold and Silver Price improved, AUD
- ☐ RIM > resource indices over 5 yrs
- Price upturns Activities and Results matter
- ☐ Turning Point, through the bottom...?





Summary History and Context

- ☐ Rimfire has its Focus exclusively at Fifield NSW in the LTZ Corridor
 - ☐ LTZ Corridor one of most important Copper/Gold corridors in the world (e.g. Newcrest-Cadia)
 - ☐ Asian investment includes China Molybdenum and Sumitomo, 80km East at North Parkes
 - ☐ Fifield is the oldest Platinum mined area in Australia Rimfire has this area
- □ Late 2010 Rimfire made the greenfields "Sorpresa" Gold and Silver Discovery
 - ☐ Subtle surface geochem 20ppb Au in soils
 - □ RC some very high grades (e.g. 14m @ 24.4g/t Au, including 2m @118g/t Au, plus 26m @155g/t Ag)
 - Likely part of a much bigger mineralising system
 - ☐ The Sorpresa gold deposition geology (free gold) carbonaceous silicified sediment
- **□** *During 2014/2015 important milestones included:*
 - □ Sorpresa JORC Resource declared approx. 7.9Moz Ag, 125,000oz Au (cutoff 25g/t Ag, 0.5g/t Au), 6.4mT
 - 5 Advanced Regional Prospects Established (of >30 prospects) within 6km radius of Sorpresa
 - ☐ Copper Signature established including 4m @ 6.5% Cu







Company Vision and Strategy

- ☐ Demonstrate Multimillion Ounce gold equivalent potential
 - ☐ Regional Discoveries within 6km radius of Sorpresa
 - ☐ Focus on Gold, Silver, Copper & Platinum Good suite of metals
 - ☐ Build the district branding
 - ☐ Attract potential partners We are noticed



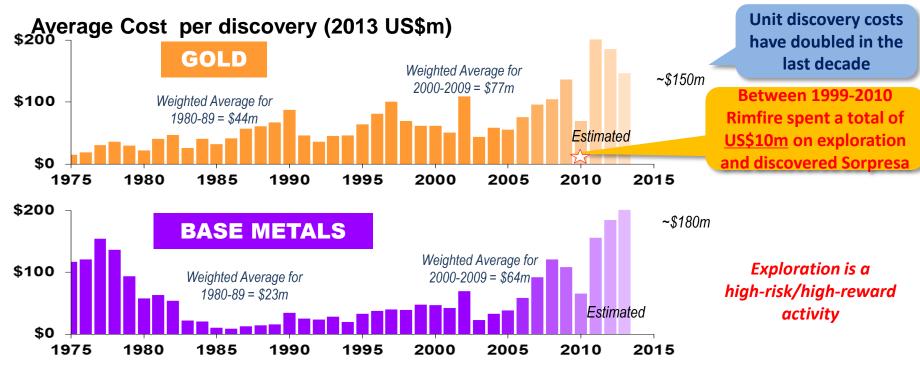
- ☐ Maintain an Overall "Prospect Portfolio" Exploration strategy at Fifield
 - ☐ Develop regional Prospects (>30) in parallel with the Sorpresa Project
 - ☐ *Risk mitigation*, assists longevity in pursuit of discoveries
- ☐ Partner Engagement Process Established and Building
 - Seeking accelerated progress and committed expenditure
 - Negotiating Farm-in JV
 - ☐ China and Asia funding sources pursued
- **☐** Work programs will pursue the following:
 - ☐ Enhance Sorpresa, Growth and Discoveries (The Gap, South, West and East areas), Gravity repeats (?)
 - ☐ Aim for new discoveries from Regional areas (within 6km) (e.g. Carlisle, Yoes, Eclipse Trend)
 - ☐ Assess economic case of established inventory (Sorpresa High grade Lenses, Platina Lead)





Discovery costs are rising

Unit cost per for a moderate-sized Gold or Base Metal discovery in the World

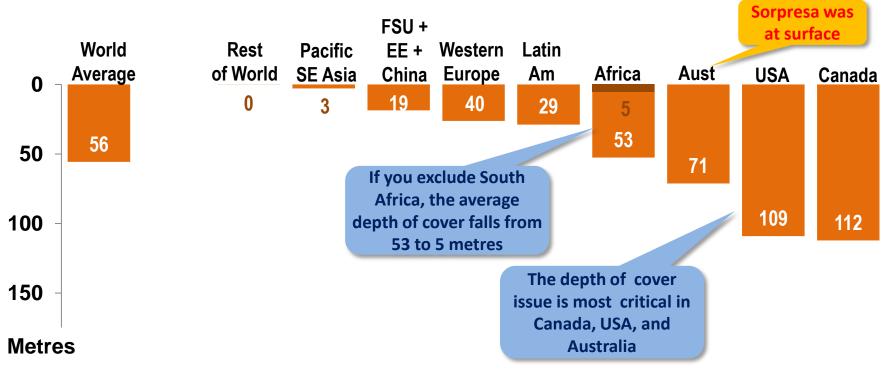


Note: Discoveries are for deposits >0.1 Moz Au or >0.1 Mt Cu-eq
Data from 2005 onwards have been adjusted for unreported deposits

Source: MinEx Consulting © September 2014

Average depth of cover for discoveries - GOLD

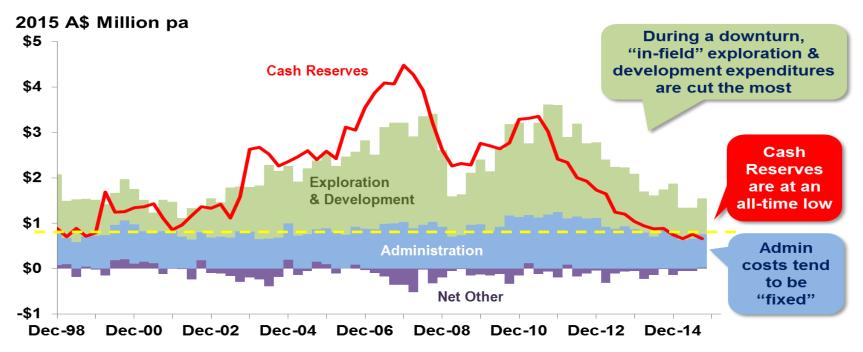
World: 2004-2013



Note: Based on 267 Moderate-, Major- and Giant-sized deposits

Source: MinEx Consulting © September 2014

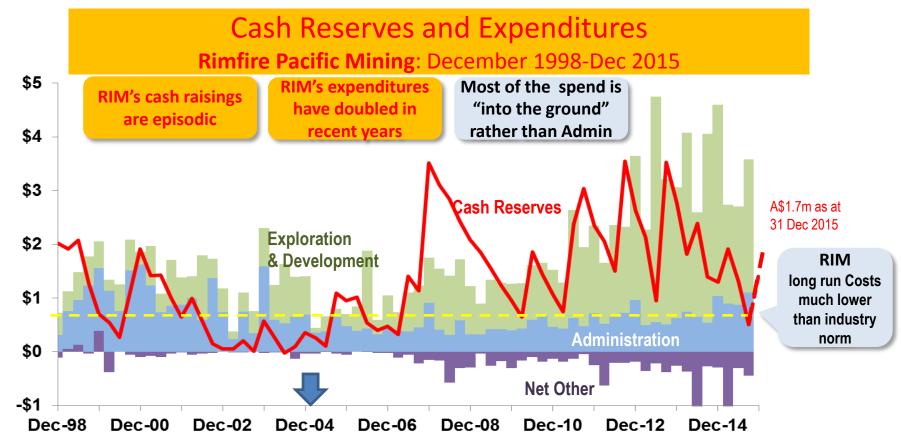
Cash Reserves and Expenditures for the <u>MEDIAN</u> Australian Junior Exploration Company: 1998-Sept 2015



Note: Survey based on a sample of 320 junior exploration companies listed on the ASX between 1998-2015
"Net Other" includes production and other costs <u>less</u> interest income, mine revenue,
Government Assistance and R&D tax credits

Quarterly spend data has been multiplied by 4x to produce an annualised spend rate

Source: MinEx Consulting © November 2015 based on Quarterly Reports to the ASX



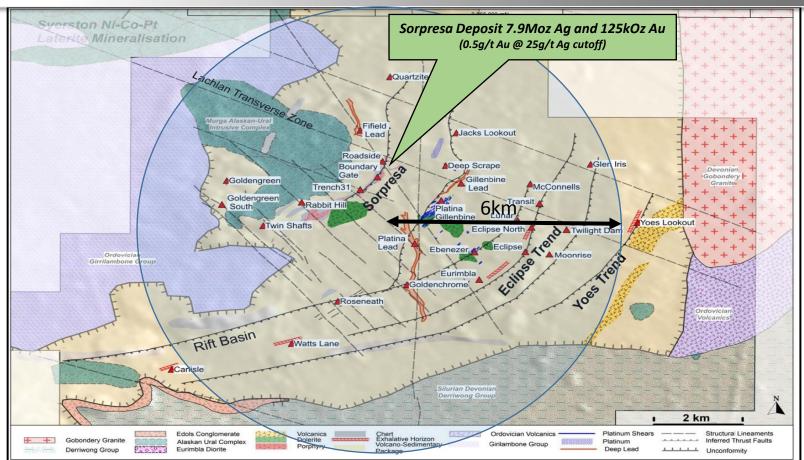
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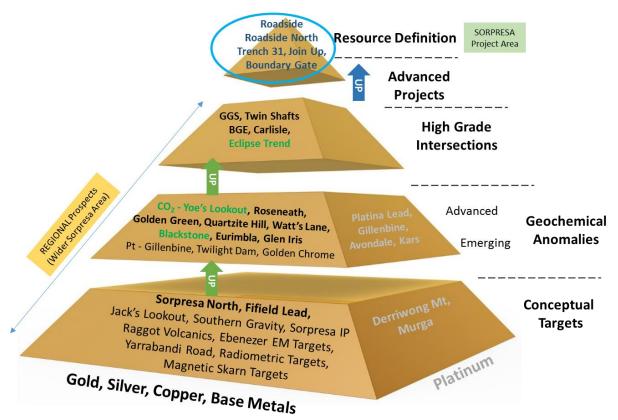


Regional Exploration - within 6km radius





Prospect Pipeline - March 2016 - Ranking





Advanced Regional prospects compared

Table of Comparison of more Advanced Prospects within 6km Radius of Sorpresa Projects

Location	Rock Chip g/t Au	Typical Soil ppb Au	Typical Auger ppb Au	Anomaly Length	RC Drill	Open	Other	Historic Workings
Sorpresa Resource	8.8	10~50	20~1,000	1.5km	14 @ 24.4 g/t Au 26m @155g/t Ag	yes	IP/Gravity	Minor
Yoes Lookout	3.4	10~300	20~1,000	1.7km	Au, Cu anomalous	yes	Magnetic Radiometric	No
Eclipse Trend	18.7	N/A	20~700	2.7km	4m @ 6.5% Cu 4m @ 2.3g/t Au	yes	Ag, Cu	Minor
Golden Green Group	8.1	N/A	10~100	0.5km	2m @ 9.11g/t Au	yes	Mafic host?	Yes
Roseneath	3.7	8~300	15~80	0.8km	N/A	yes	Sorpresa Style?	No
Carlisle Trend	23.0	9~50	N/A	~1km	7m @ 1.47g/t Au	yes	Magnetic Feature	Minor

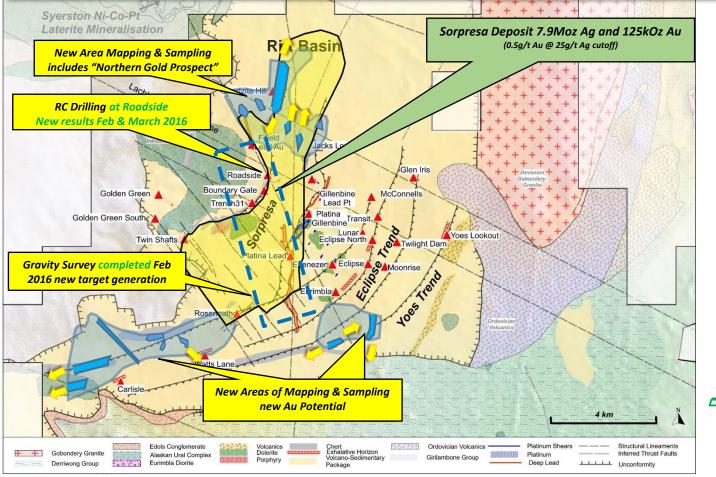
5 Advanced prospects that benchmark well against an early comparison of Sorpresa







Discovery Growth - Current Work





Newly identified geology and mineralisation with Au potential



Expanded from 11km² to 18km² Sorpresa style geology with Au potential



Gravity Survey –
drill targets for
repeats of Sorpresa
Au & Ag

Discovery Growth







Current work programs

- RC drilling continues within Roadside area at Sorpresa
 - 4 new traverses started, shallow oxide focus
 - o Interim results are due for reporting shortly
- ✓ Interpretation & modelling of higher grade Au/Ag zones at Sorpresa
 - o To build pitshell models and assess selective mining feasibility



- O A strong correlation is already noted between Gravity and the Sorpresa mineralisation
- o Looking for repeat style structures similar to Sorpresa
- ✓ Geological mapping on the Eclipse-CO₂-Yoes copper/gold area
 - This will integrate the understanding and assist planning for the next stages of work
- Creek and soil sampling within 6km radius of Sorpresa
 - o Infill programs to assist the targeting of the better prospective areas for gold and copper
 - Prospecting integrated with geophysics and geology data







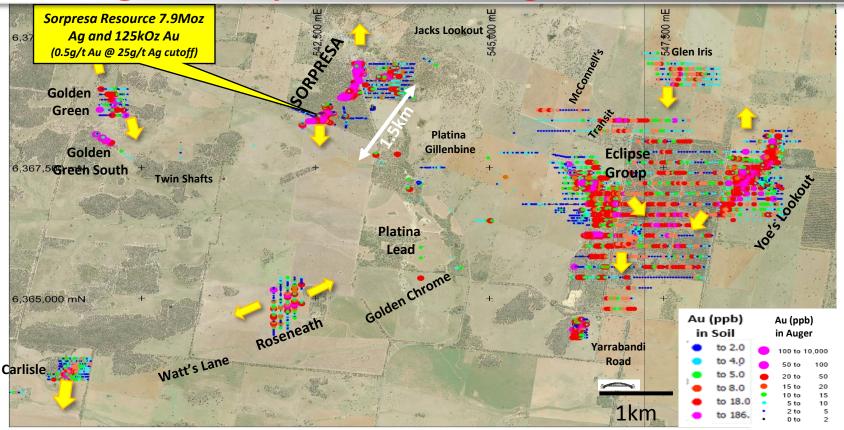
Recent Outcomes - New emerging Gold Areas

- ✓ Sorpresa style geology footprint now expanded from 11km² to 18km²
 - New mineralisation observations north of the Sorpresa resource area
 - o Less than 10% of the known Sorpresa geology currently RC drill tested, there is potential upside
- ✓ 3 new areas emerging; anomalous gold and prospective geology was identified in parts
 - o 7.1km² was examined at the Carlisle & Watts Lane areas, field observations included Au in creeks
 - o **6.4km² north of Sorpresa was completed**, and a prospective Au zone identified at Quartzite Hill area
 - o **2.3km² was covered at Eclipse South Extended**, a new Au anomaly with a quartz porphyry connection is emerging
- ✓ Unique structural corridor at Carlisle-Watts Lane areas exists with prospective Au geology
 - An area is now established of some 15km² area, with scope for discovery
 - o Rockchip result confirms the new Au potential "Blackstone" random grab sampling (15) 4.97g/t Au
- ✓ The Ground Gravity survey (Feb 2016) has now provided additional gold and silver targets
 - o Particularly to the south/south east of Trench 31, with *a subparallel 2km length target*





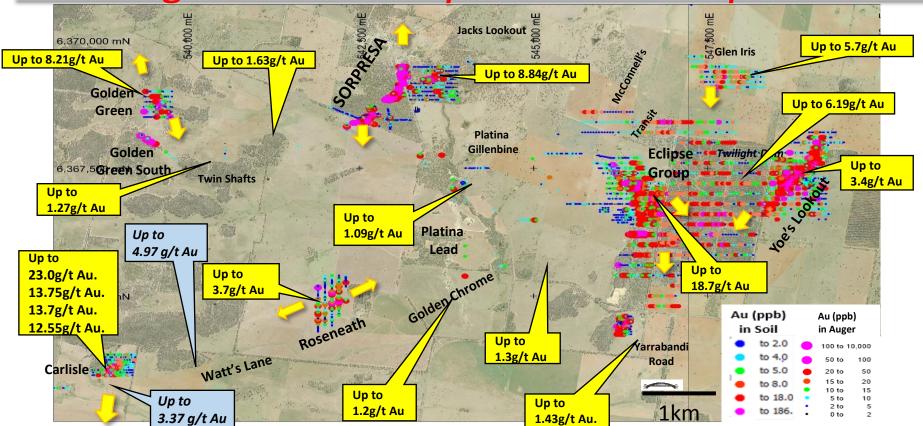
Regional Exploration - Auger & Soils



Gold geochemistry in Auger and Soils



Regional Gold Footprint - Rock Chips Shown

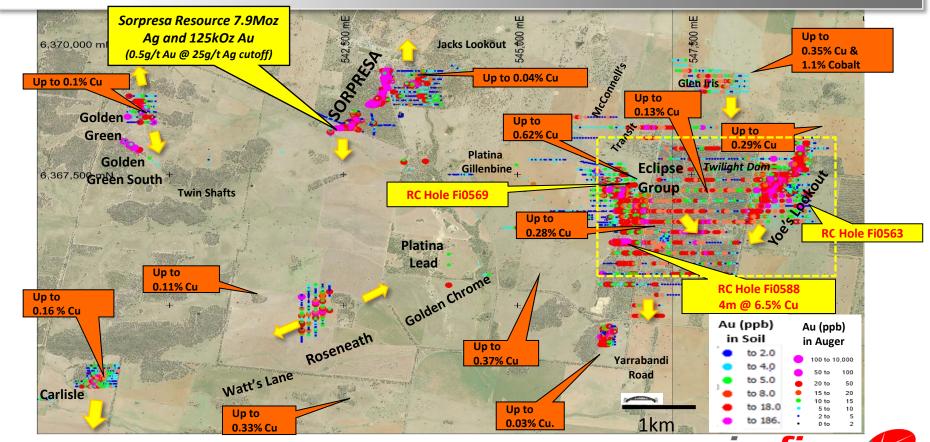


A gold district has emerged





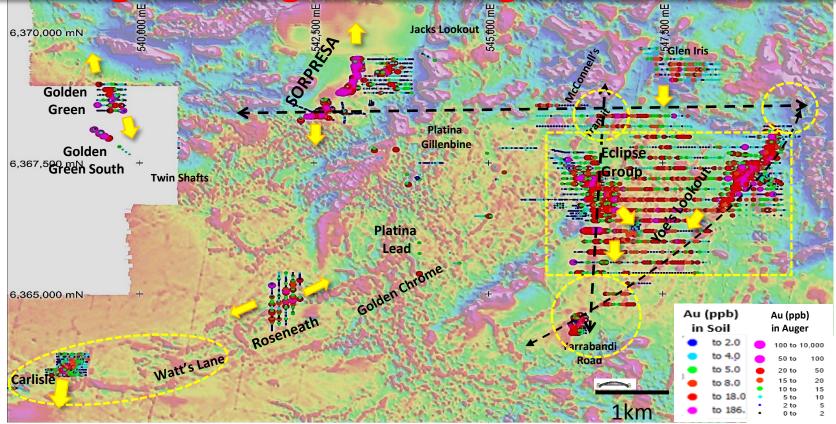
Regional Exploration - Copper Rockchips on Gold



A gold and copper district has emerged!



Regional Magnetics - Auger & Soils, Gold

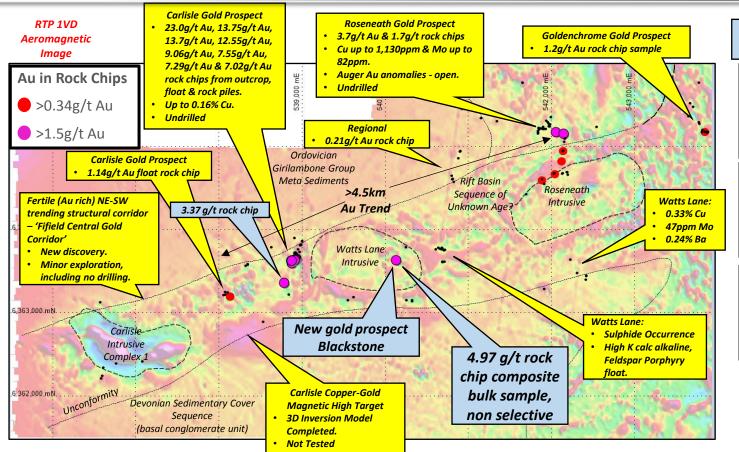


Sorpresa is the first discovery but likely not the last





Carlisle-Watts Lane Trend - 2016 Update



New gold prospect "Blackstone"



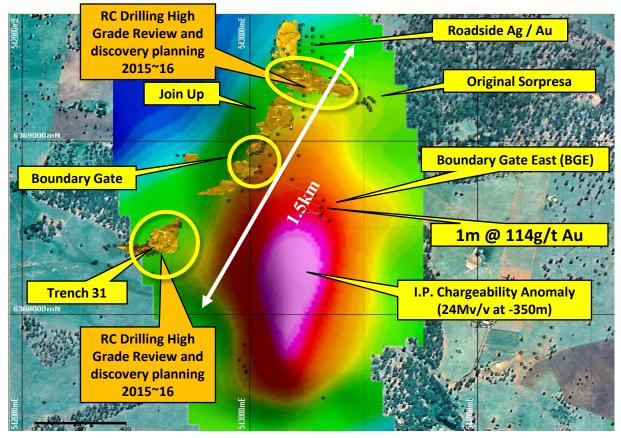




Possible gold load, breccia alteration pipe in shear, gossan with quartz phases



Sorpresa - Gold and Silver High Grade Lenses



- Excellent correlation of Mineralisation to Gravity
- Less than 10% of available geology tested (>18km²)
- Potential extensions and repeats under shallow cover
- Pursue High Grade lenses
- **☐** Examine economic case
- ☐ I.P. chargeability to resolve

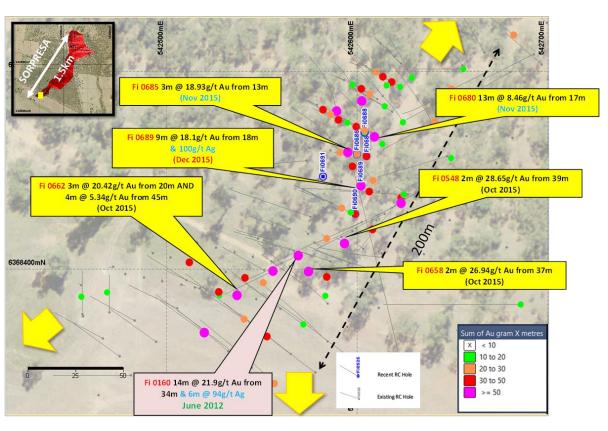








Sorpresa – Trench 31 High Grade Work



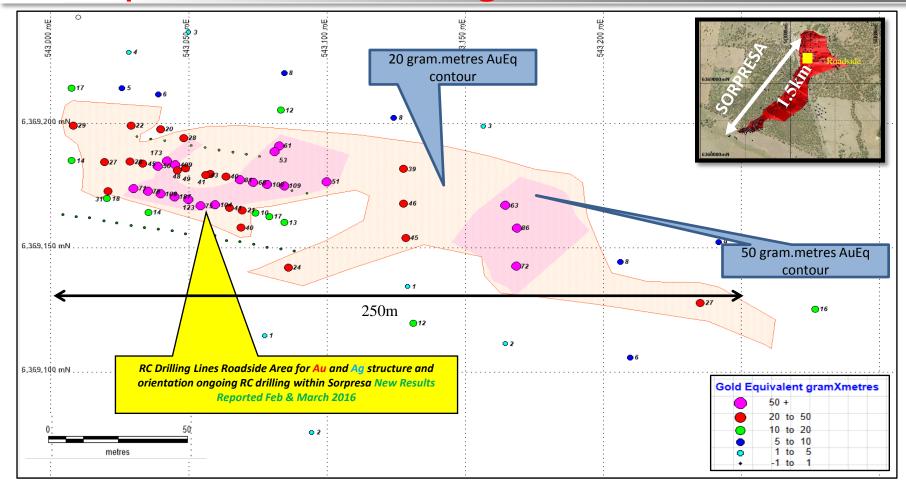
- ☐ Great frequency of High Au grades emerging
- ☐ Shallow (0~40m mainly)
- ☐ Look to grow ounces and grade
- Seek vectors into new adjacent areas to grow tonnes
- ☐ Metallurgy 95% Au recovery CIL
- Internal scoping underway, plant, process and scale
- ☐ Plus Roadside Area with Ag





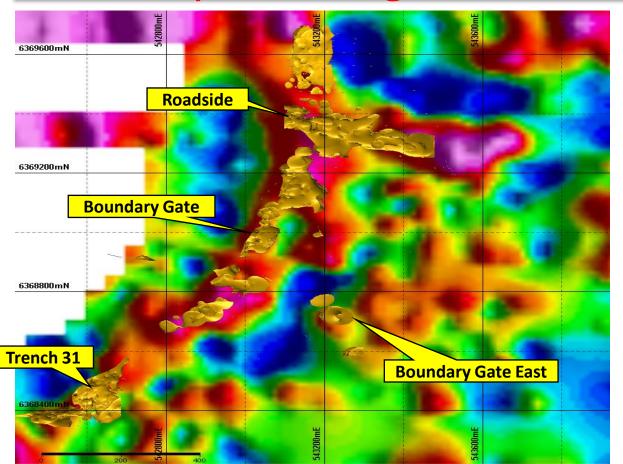


Sorpresa – Roadside High Grade Work 2016





Sorpresa - Regional Extensions Gravity



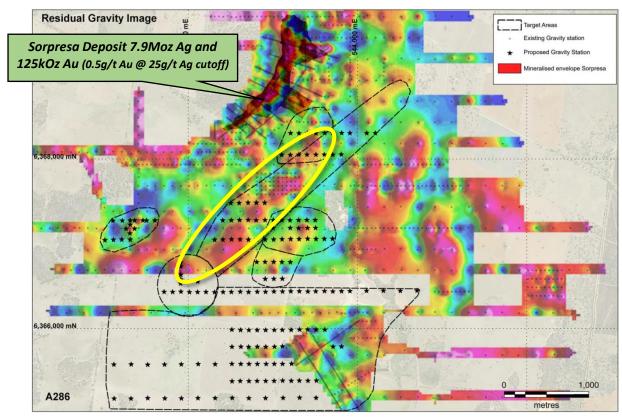
- Excellent correlation of Mineralisation to Gravity
- ☐ Increased gravity relates to silicification.

1st Vertical Derivative Gravity Image





Sorpresa - Gravity Survey Extension & Infill



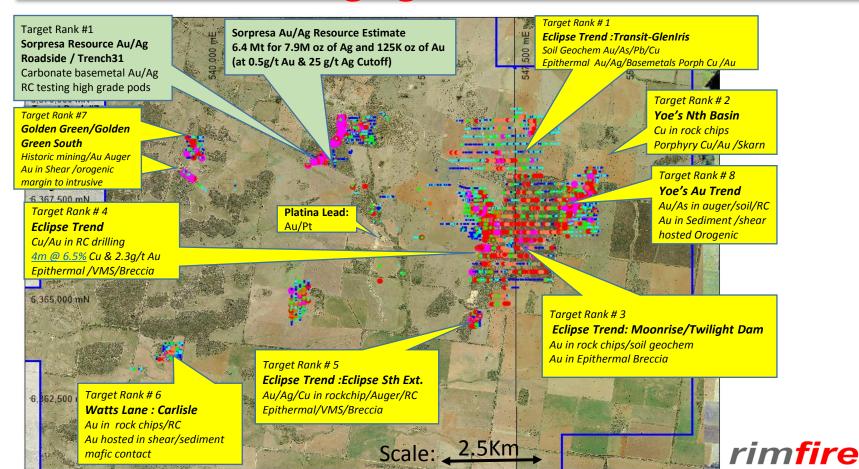
- Excellent correlation of Mineralisation to Gravity
- ☐ Increased gravity relates to silicification
- Major 2km long, Subparallel target on a magnetic contact position
- Oblique RC drilling traverses proposed across Sorpresa basin (up to 250m depths)



additional gravity completed north of this

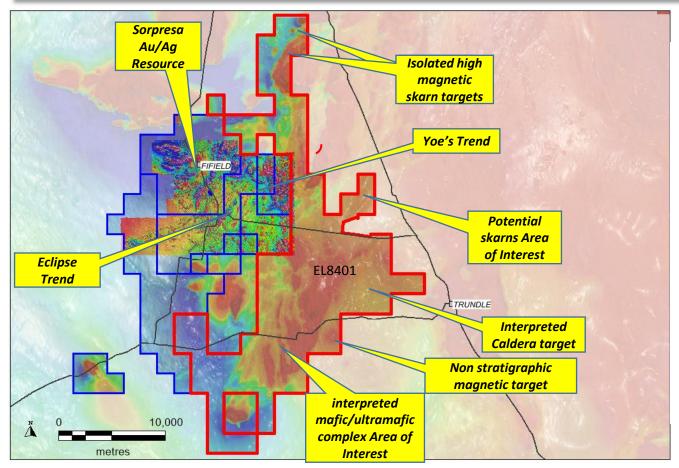


Priorities emerging for 2016 (shown on gold geochem)





New Regional Targets on Magnetics



- New EL doubles LTZ Exposure
- ☐ Strategic Holding
- ☐ Cu/Au/PGE Potential
- ☐ Hidden Major Ore Body Potential (under cover)
- ☐ Diverse Style
 Mineralisation likely
 - ☐ Mt Leyshon, Kidston
 - ☐ Tritton (Besshi)
 - ☐ Magmatic Cu/PGE
 - Porphyry Cu/Au







Components of the Plans for 2016

Regional Discovery programs

- Complete Geology mapping and Interpretation
- District surface sampling (creeks, soil; auger) to detect further anomalies
- Complete design and look to deploy Geophysics, EM/IP
- Define Anomalies and prioritise for testing
- Test Targets with Additional RC and RAB holes
- Target tuning, more drilling (100~300m range) selected targets, possible DDH
- Objective Build Discovery Inventory a major opportunity for Copper-Gold discovery

Continue Sorpresa Growth and Commercial Assessment

- High Grade Lenses, lift grade and ounces
- Discovery extensions, Gravity survey target testing
- Internal scoping study moving to feasibility if warranted





Rimfire...Value Drivers for Investors

- ☐ Fifield NSW District within LTZ The Right Address for Discoveries
 - ☐ LTZ is already host to many existing Copper-Gold mines
 - ☐ **Good infrastructure,** road, power, skilled labour
- □ Fifield Under Explored High Grades near surface Greenfields
 - ☐ **Multimillion Ounce gold equivalent potential,** in Multiple Deposit styles
 - Multi-commodity (Gold, Silver, Copper, Platinum)
 - ☐ An established discovery Track Record Sorpresa Gold and Silver Resource



- ☐ *Mitigates risks* in exploration performance
- ☐ Game Changers that can improve share price and shareholder value ...
 - Regional Prospect Pipeline continued discovery growth
 - □ Sorpresa Resource Growth (less than 10% of >18km² geology tested) and moving to Measured
 - Establish Geophysical vectors (EM/IP etc.) on Copper in particular
 - Increasing number of Drill targets to be tested
 - **Economic assessment** for minable areas 2016 (Sorpresa near surface high grades)





Rimfire...Value Drivers for Investors

- 4km² area covering Eclipse-CO₂-Yoes has upside, with limited drilling
- High Grade intersections, keep us on the radar
- Countercyclical Strategy Do more work in tough times
 - Stand out use the low drilling costs
 - ☐ Large in Ground Spend >70% average
- Rimfire Bench Marked Superior to many Junior Peers
 - ☐ Market Capitalization respectable financial position
 - Efficiency (low overheads)
 - Performance (discovery cost extremely low, and highly effective)
 - Discoveries near surface
- JV opportunities negotiations underway

Proven Technology

"Discoveries are best made in the field not the office"









Thankyou...please stay in touch with the story





Mines & Money Mining Hub Area – Pod M1 for more discussion

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Appendix - Additional Information

- ☐ Independent Industry Benchmark studies on Junior Resource Sector available at Rimfire website
 - □ 14th Nov 2014 Exploration Industry Presentation AGM Nov 2014 Mr Richard Schodde
 - □ 27th Nov 2015 Presentation Exploration Trends Richard Schodde AGM 2015
- ☐ Slides on Sorpresa Resource and Preliminary Metallurgy
- ☐ Project Summaries at Fifield
- ☐ Videos (below) on Historic Trench 31 discovery and Sorpresa 3D model (as at May 2014)

<u>Trench 31 Discovery 2010</u> Video



Sorpresa 3D Model 2014 Gold Video







Appendix-Sorpresa Maiden Resource

- ☐ Maiden Inferred and Indicated Mineral Resource for the Sorpresa Deposit comprises;
 - □ 6.4Mt for 125kOz of gold and 7.9Moz of silver (at 0.5g/t Au & 25g/t Ag cutoff)
- ☐ The Gold dominant portion of the Sorpresa system represents;
 - □ 3.0Mt @ 1.06g/t Au and 22g/t Ag for 103kOz Gold and 2.1MOz Silver (at 0.5g/t Au cutoff)
- ☐ The Silver dominant portion of the Sorpresa system represents;
 - □ 3.4Mt @ 54g/t Ag and 0.20g/t Au for 5.8MOz of silver and 22kOz Gold (at a 25g/t Ag cutoff)
- ☐ Mineralization is continuous at higher cutoffs, at a 1.0g/t Au & 60g/t Ag cut off of;
 - ☐ 1.9Mt @ 1.11g/t Au and 68g/t Ag for 68kOz Gold and 4.2Moz Silver
- □ 70% of gold ounces and 62% of the Silver ounces are within 100m from surface, with an initial metallurgy study (Dec 2013) suggesting up to 93% Au and 74% Ag recoveries
- ☐ An internal Sorpresa conceptual study will be undertaken, focusing on the oxide zone and higher grade lenses to assist the Company in determining the forward strategy
- □ Exploration of already defined Sorpresa extensional and satellites targets beyond the current resource boundaries, including to the east, south and west





Appendix Sorpresa - Oxide Metallurgy - 2013

- 3 composite Oxide Zone Samples across Sorpresa
 - ☐ 3 locations, 130m of mineralization, 30 drill holes
 - Standard 24 hr CIL test at 75 micron
- Additional Test on Met1 Silver Roadside*
 - 48 hour CIL, finer grind, improved recoveries
 - ☐ Improved recoveries to 89.1% for gold and 72.3% for silver
- No problems with clays or carbon/graphite



Sorpresa is "native gold"



Sample ID and	Number of 2m interval samples used for composite sample	Head As	says, g/t	Recovery % (Standard CIL)		
Location		Au	Ag	Au	Ag	
Met1 – Roadside *	24	1.22	73	84.3	68.9	
Met2 – Trench 31	21	2.82	7.3	96.8	72.6	
Met3 – Trench 31 SW	20	2.54	7.9	94.5	78.5	





Appendix - Project Summaries

Project Name or Type	Metals	Current or target	Comments
Sorpresa	Au, Ag	250,000 oz Au eq	Resource & can grow
Platina-Gillenbine ¹	Pt	0.8 ~ 1.0M oz target	Bulk sampling proof of concept
Regional Portfolio ² > 30	Au, Cu	Multi Million Ounce	Target Discovery Potential
Platina Paleo Channel ³	Pt	20~50,000 oz target	Low Capex, Proof of concept

Note 1, 2 and 3: These are exploration targets only under the JORC 2012 Code and do not constitute a resource as insufficient work has been done to date.

