

rimfire pacific mining nl

(ASX "RIM")

***8th Annual Mining NSW
Conference***

***"Fifield District -
The Hard Rock Story"***



Disclaimer

- ❑ **Disclaimer:** *This presentation contains “forward looking statements” as defined or implied in common law and within the meaning of the Corporations Law. Such forward looking statements may include, without limitation, (1) estimates of future capital expenditure; (2) estimates of future cash costs; (3) statements regarding future exploration results and goals. Where the Company or any of its officers or Directors or representatives expresses an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and the Company or its officers or Directors or representatives as the case may be, believe to have a reasonable basis for implying such an expectation or belief. However, forward looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to, commodity price fluctuation, currency fluctuation, political and operational risks, governmental regulations and judicial outcomes, financial markets and availability of key personnel. The Company does not undertake any obligation to publicly release revisions to any “forward looking statement”, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.*
- ❑ **Competent Person Statement:** *The information in this presentation that relates to Exploration Results is based on information compiled by Colin Plumridge and Darren Glover. Both gentlemen are deemed to be Competent Persons and are Members of The Australasian Institute of Mining and Metallurgy. Mr Plumridge has over 45 years’ experience in the mineral and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. and is a consulting geologist to the Company. Colin Plumridge has sufficient experience that is relevant to the style of mineralization and 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 Exploration Results, Mineral Resources and Ore Reserves’. Colin Plumridge has previously consented to the inclusion of the matters based on his historic information in the form and context in which it appears. Mr Glover is employed by Rimfire Pacific Mining and has 18 years’ experience in the mineral and mining industry. He has sufficient experience that is relevant to the style of mineralization and 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 Exploration Results, Mineral Resources and Ore Reserves’. Mr Glover consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.*
- ❑ **JORC 2012 Compliance:** *All information provided in this presentation has been formally released to the ASX in compliance with JORC requirements. The most recent document released to the ASX provides details and hyperlinks relevant to all information provided in this presentation and can be accessed on the Company Website at hyperlink: ASX Announcements. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement(s).*



Company Profile – 19th August

Shares on Issue 688M Ordinary FP

- Placement and SPP 76M shares at 4.3 cents, Sept 2013, \$3.3M gross, 12% dilution
- No options and No Convertible Notes

Market Cap. Approx. \$20.6M @3.0 cents

Share Price Movement

- 2012 High 9.3 cent (Oct), Low 2.5 cent
- 2013 High 7.5 cent (Jan), Low 2.8 cent (Dec)
- 2014 High 3.6 cent (Jan), Low 1.5 cents (May)

Volume

- Last 6 months approx. 314,000 shares/day
- Largest 1.8m shares/day

Shareholder Profile

- Management 9%
- Top 20 Holders 33%
- Top 100 Holders 63% (cut-off 1.35M shares)
- 2,000 plus shareholders

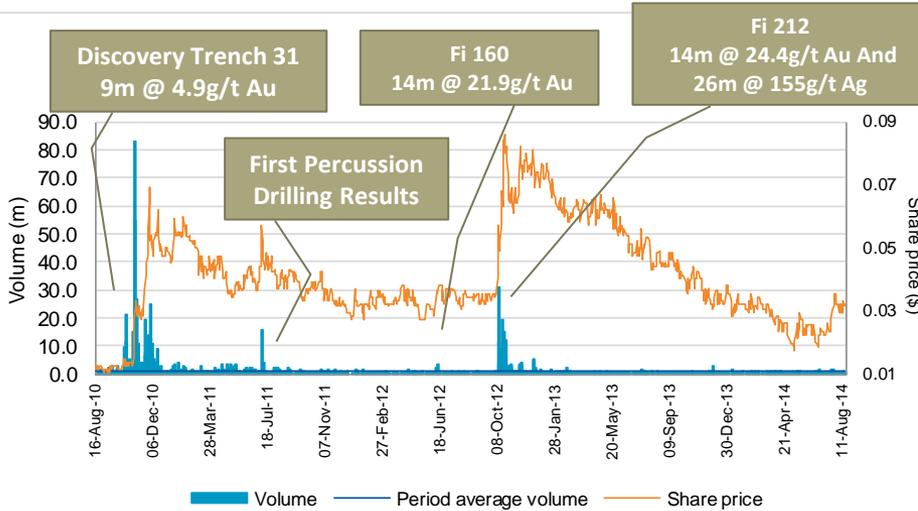
Cash Status 30 June 2014

- \$2.36m



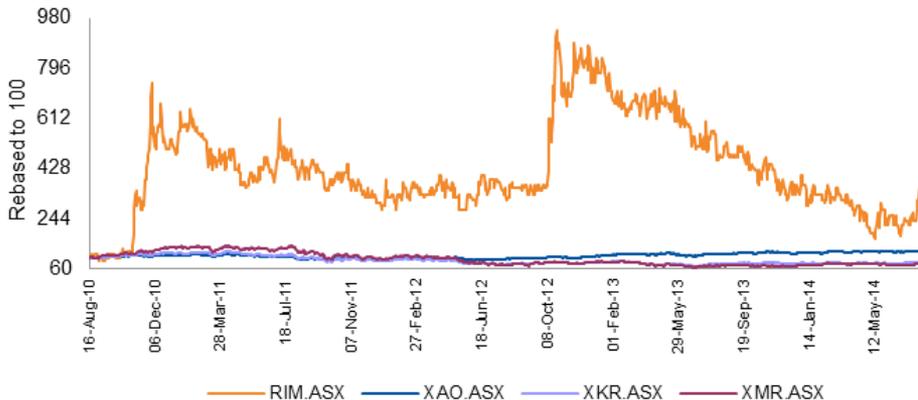
ASX:RIM Share Price Performance

16-Aug-2010 - 19-Aug-2014



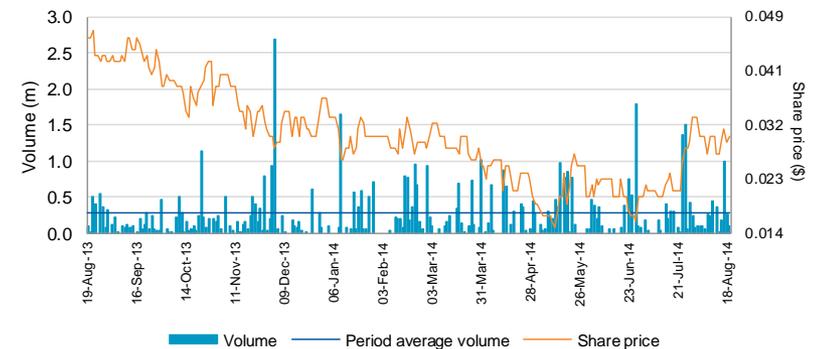
- ❑ Exploration Sector major correction
- ❑ Liquidity and value decline
- ❑ Gold and Silver Price decline 30%
- ❑ RIM above average to indices over 4 yrs
- ❑ Post June 30 period price improvement
- ❑ Recent Price upswing – Activities matter
- ❑ Turning Point, through the bottom?

Relative price performance



Last 12 months

Price and volume

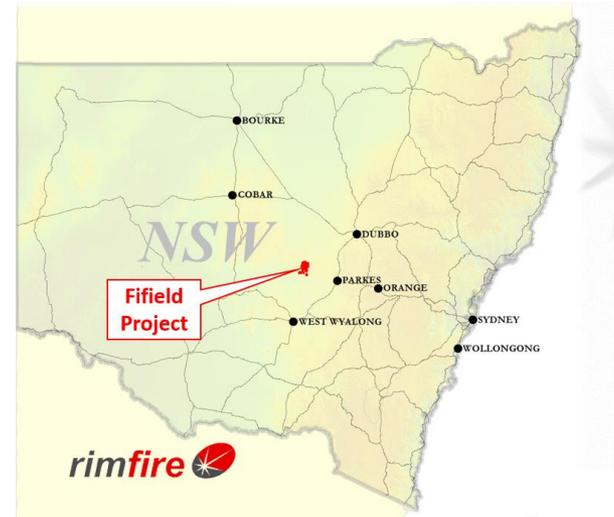
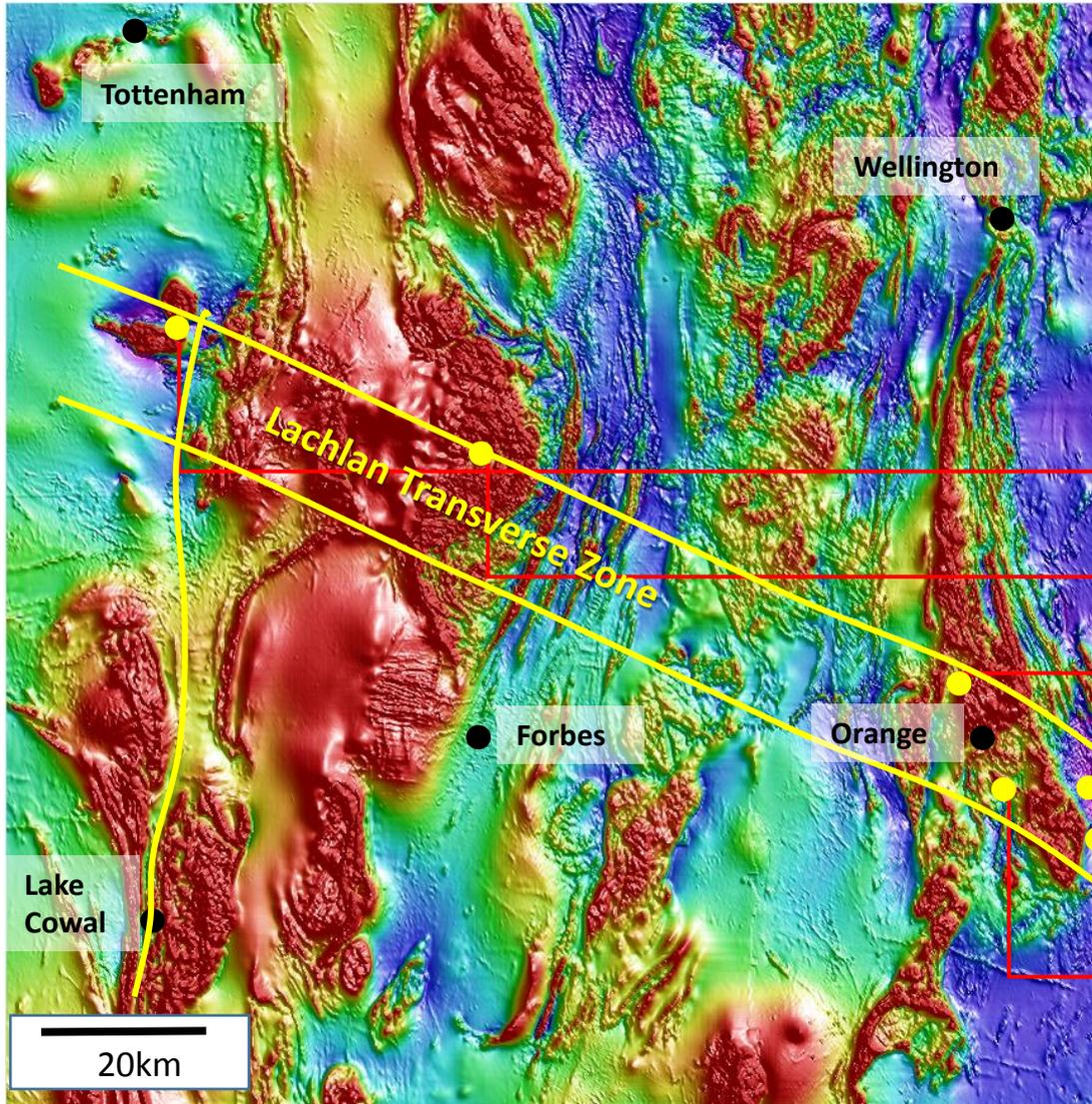


Note: XKR is S&P/ASX 300 RESOURCES; XMR is S&P/ASX MIDCAP RESOURCES;





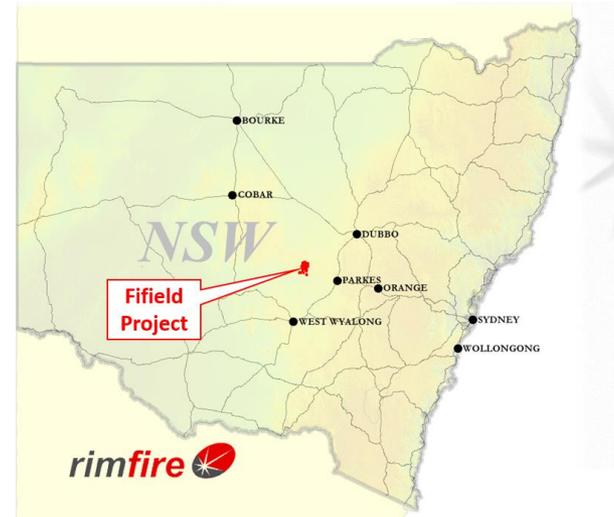
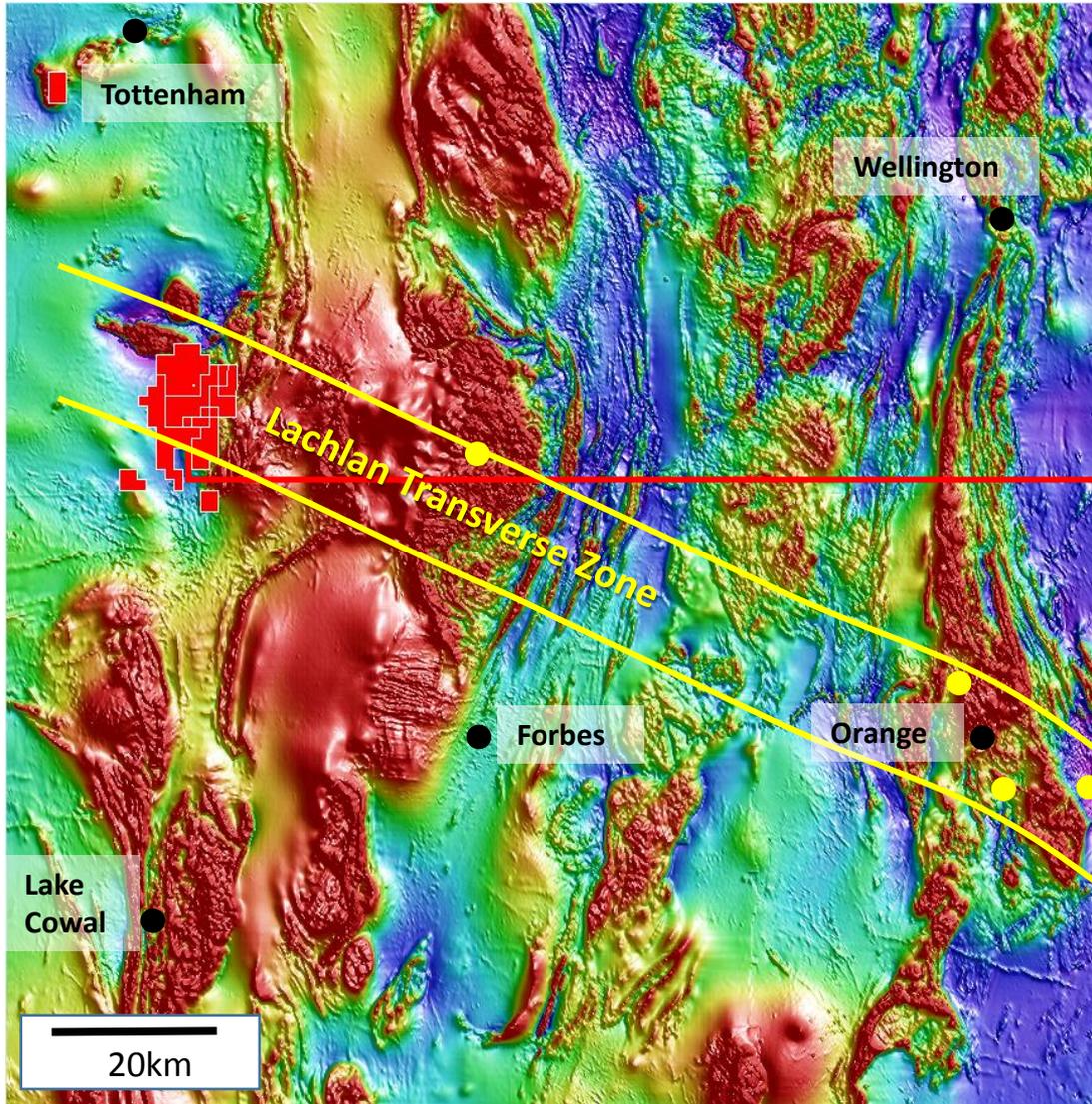
Project Location - East Lachlan Fold Belt



- Syerston (Ivanhoe)
- North Parkes (China Mo Co.)
- Copper Hill (Golden Cross Resources)
- McPhillamy's (REGIS)
- Brown's Creek
- Cadia Valley (Newcrest)



Project Location



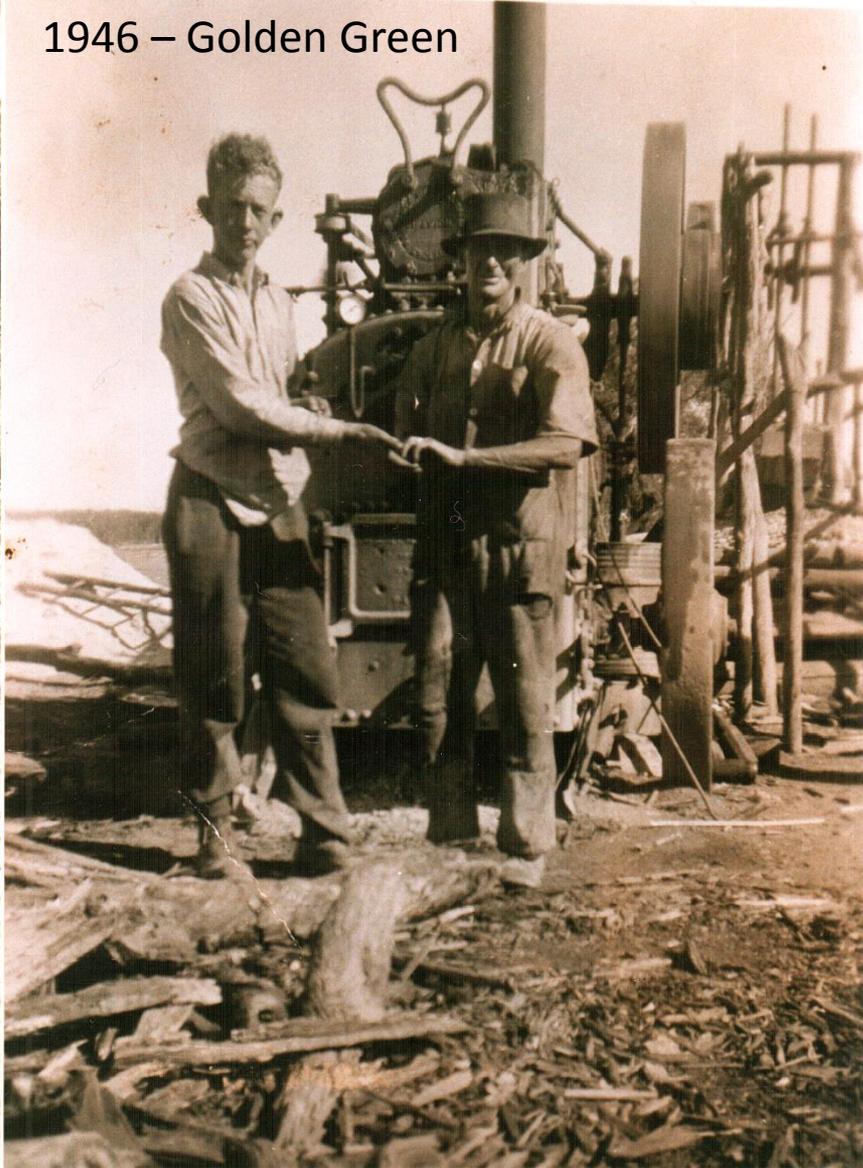
Rimfire Pacific Mining NL

- 6 Exploration Licenses,
- Contiguous tenement package,
- 313 square kms.
- 210Ha freehold land,
- Alluvial Gold 1880,
- Alluvial Platinum 1890,
- 20,000Oz Pt historical production.

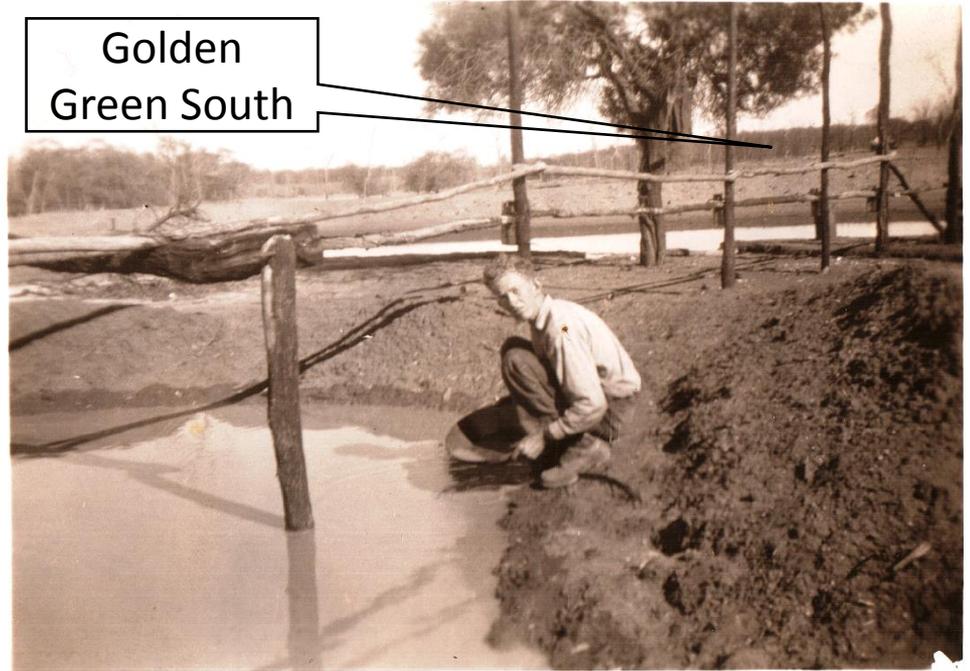


Sorpresa Discovery

1946 – Golden Green



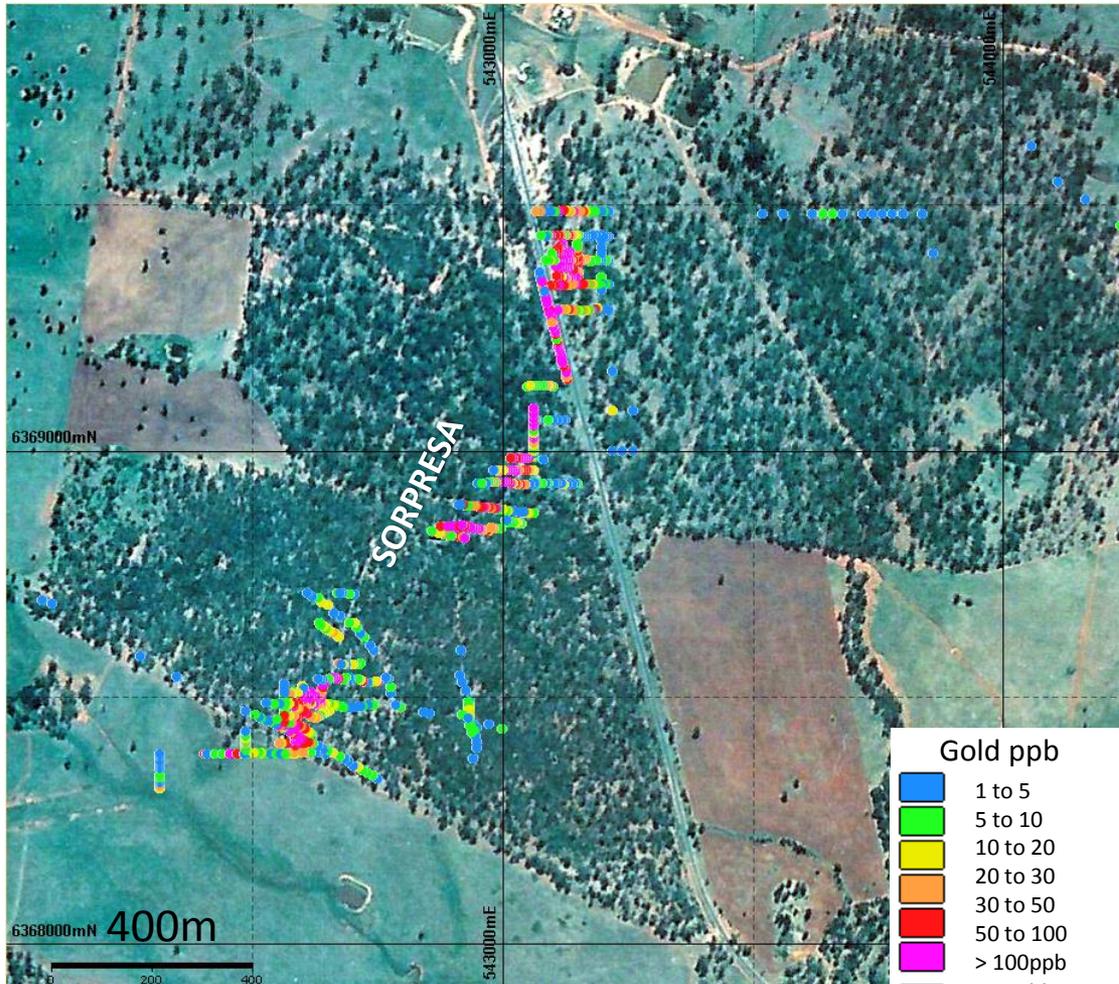
Golden Green South



- ❑ George and son Noel Green,
- ❑ Prospected base metals at “Original Sorpresa”
- ❑ Mined “Golden Green” (left).
- ❑ Noel (above) passed away this year.



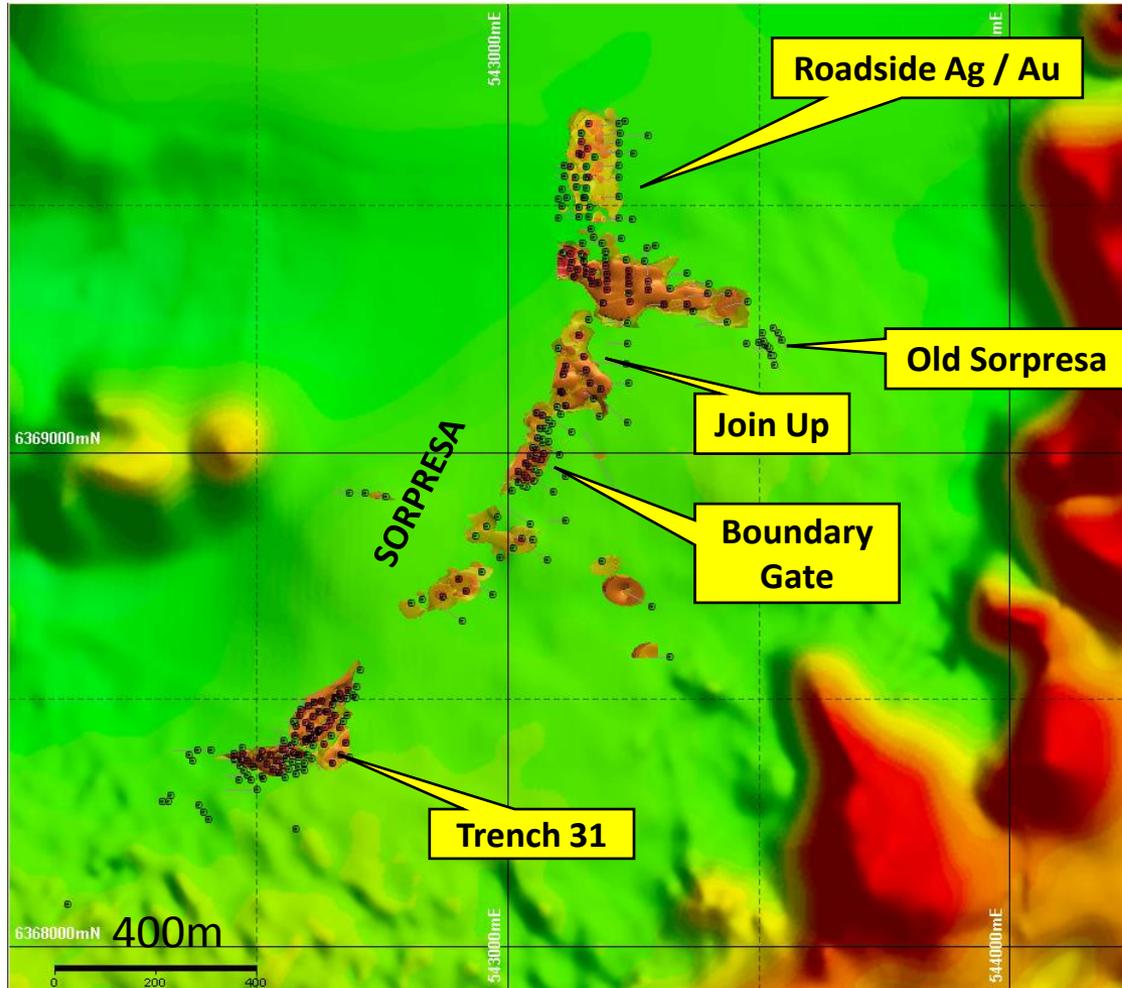
Sorpresa Discovery



- ❑ 8.84g/t Au rock chip at Original Sorpresa.
- ❑ Gold in Rock chip, Soil and Auger drilling defines a curvilinear anomaly > 20ppb Au over a 1.7km strike.
- ❑ Trenching reveals near surface high grade Gold (9m @ 4.9g/t Au).
- ❑ Drilling defines high grade Au / Ag mineralisation within 5 structurally controlled oxide to transition zone pods along the gold anomaly.



Sorpresa Discovery (2007 - 2013)



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Yellow Outline > 0.2g/t Au
Red Outline > 0.5g/t Au



Sorpresa – Significant Intersections

Gold

Silver (Roadside)

Roadside

- ❑ 16m @ 5.32g/t Au
- ❑ 7m @ 4.24g/t Au
- ❑ **14m @ 24.4g/t Au**

- ❑ 12m @ 394g/t Ag
- ❑ 28m @ 119g/t Ag
- ❑ 26m @ 155g/t Ag

Original Sorpresa

- ❑ 21m @ 1.11g/t Au
- ❑ 13m @ 1.59g/t Au

- ❑ 20m @ 230g/t Ag
- ❑ 10m @ 535g/t Ag (incl. 2m @ 2020g/t Ag)

Join-Up

- ❑ 30m @ 2.39g/t Au
- ❑ 4m @ 21.9g/t Au

- ❑ 26m @ 90g/t Ag
- ❑ 16m @ 175g/t Ag

Boundary Gate & BGE

- ❑ 24m @ 2.17g/t Au
- ❑ 1m @ 114g/t Au
- ❑ 20m @ 2.14g/t Au



Trench 31

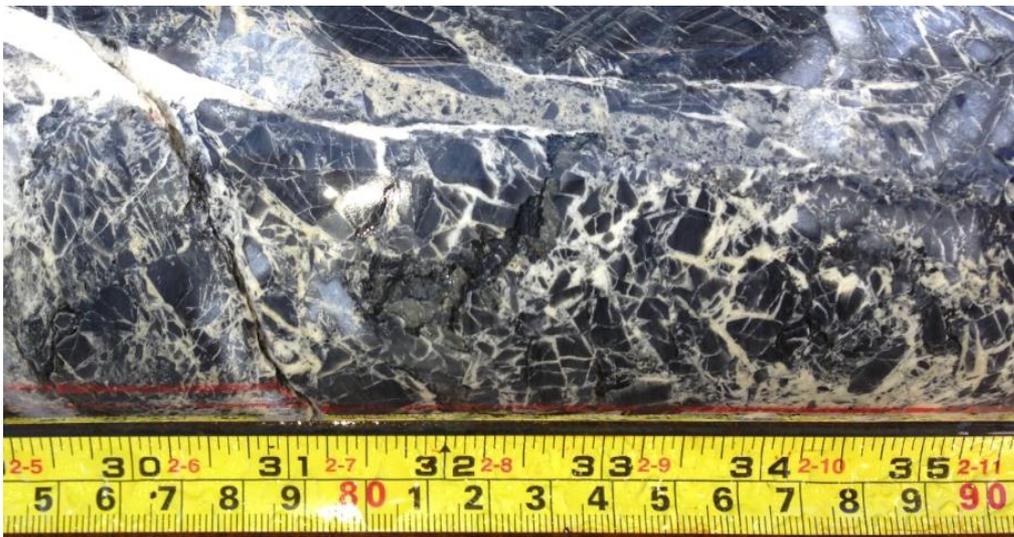
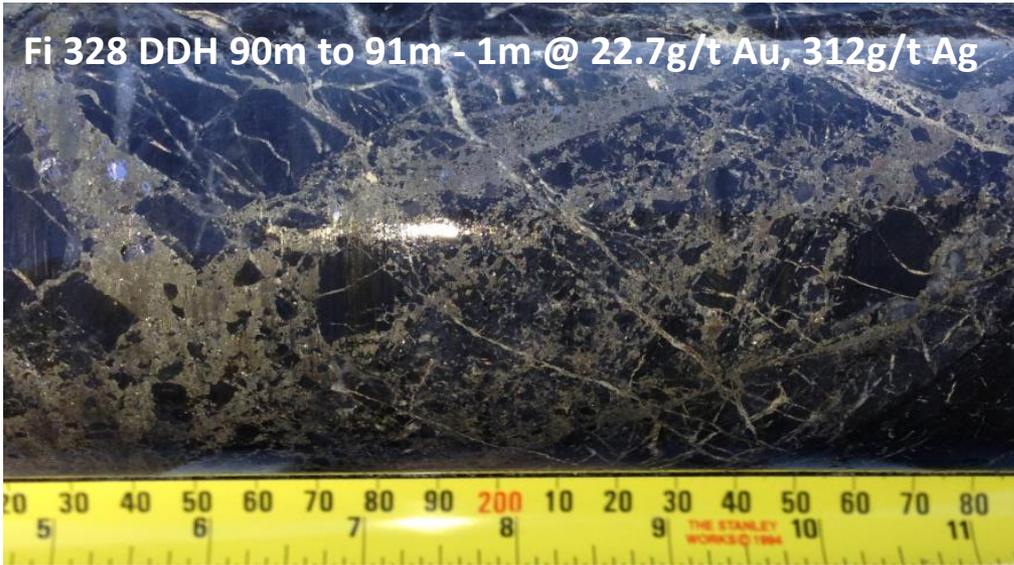
- ❑ 6m @ 12.31g/t Au
- ❑ **14m @ 21.9g/t Au**
- ❑ 9m @ 4.9g/t Au (trench)
- ❑ 16m @ 3.23g/t Au

- Two Australian Top 10 Greenfields Gold intersections (2012)
- Pathfinder Association (Ag, As, Sb, Pb, Zn) allows real time XRF recognition
- Oxide and Primary high grade mineralisation



Sorpresa - What is it?

Fi 328 DDH 90m to 91m - 1m @ 22.7g/t Au, 312g/t Ag



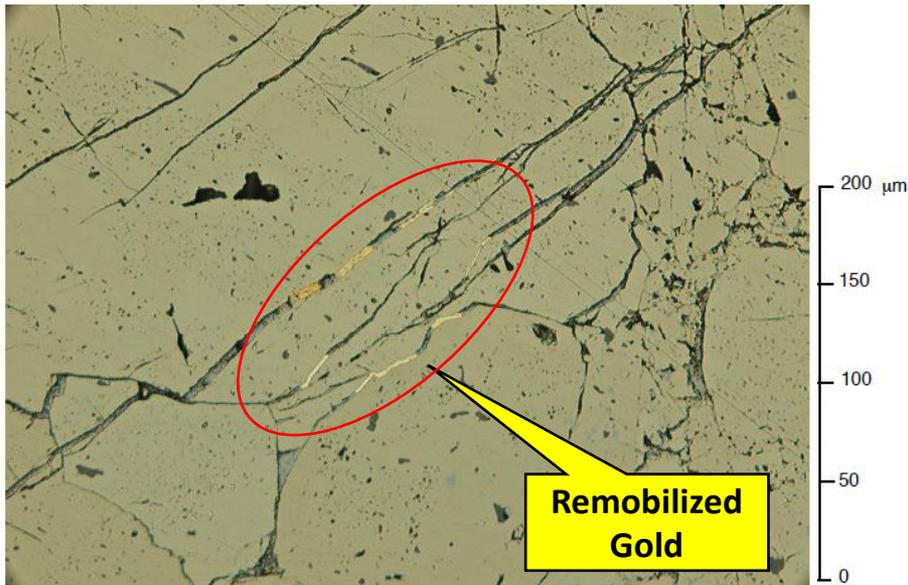
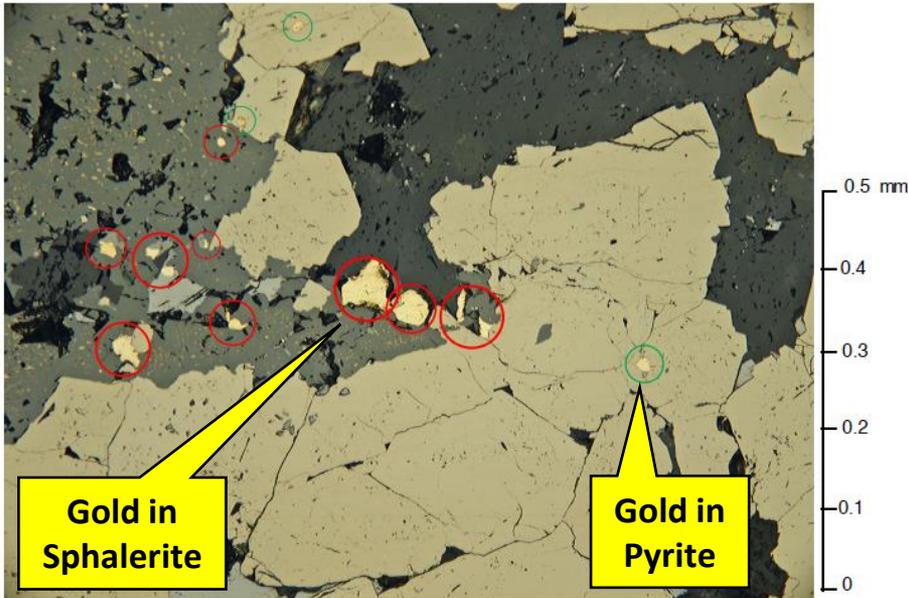
- ❑ Variably East dipping, gently folded, variably plunging mineralized plane;
- ❑ Comprised of quartz / sericite / muscovite / carbonate / pyrite altered, **crackle brecciated** and **carbonate-sulphide-gold cemented**, quartz veined meta-siltstone.
- ❑ Sulphide mineralisation hosting gold and silver comprise:

Pyrite = arsenopyrite > sphalerite > galena >> tennantite – tetrahedrite > chalcopyrite and native gold.

- ❑ Mineralisation is best developed below a rhyolite to rhyo-dacite porphyritic sill complex, itself gently folded, and strongly altered.
- ❑ Healed Listric / thrust fault zone.



Sorpresa – What is it?



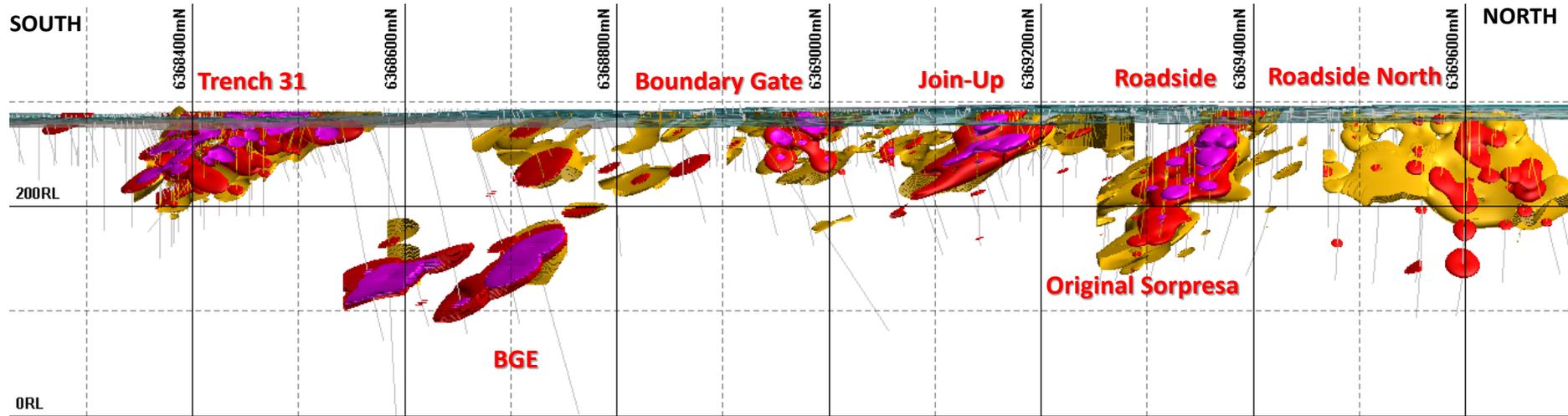
- Native Gold formed as ~2 – 50µm grains, moderately high fineness (i.e. Au > Ag)
- Most **Gold** occurs as inclusions in Sphalerite with some in Pyrite and Galena.
- Silver** occurs in Galena and Tennantite – Tetrahedrite.
- Later deformation remobilised some base-metals and native gold.
- Mineralisation has a low temperature of formation indicating an Epithermal Setting.

Carbonate Base Metal Epithermal Au/Ag,

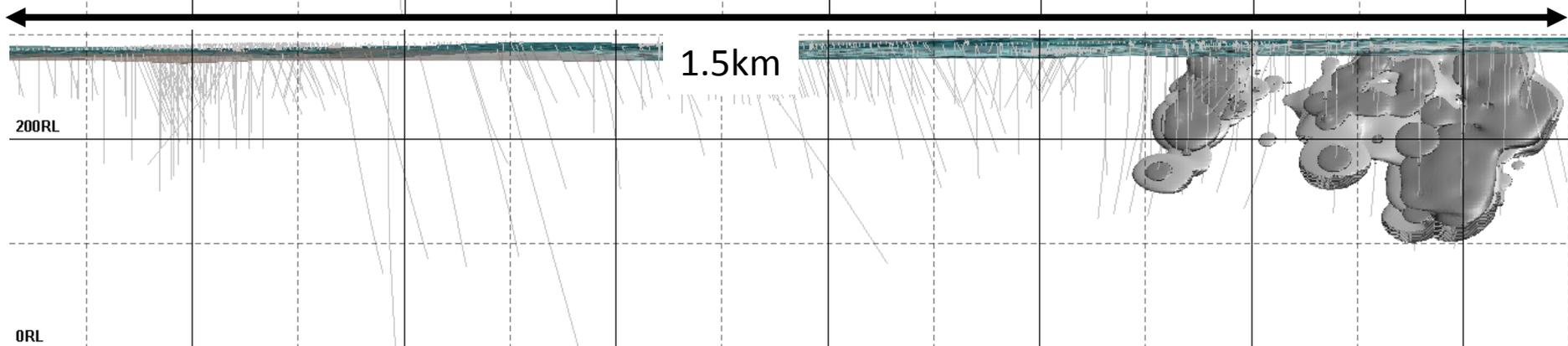
- Possibly related to Siluro-Devonian Volcanism... (Mineral Hill / Mt Boppy)
- Potentially hosted in Cambro-Ordovician metasediments + mafic volcanics and ultramafic intrusives, themselves potential hosts to:
- Tritton / Besshi style VMS mineralisation.



Sorpresa Current RC Drill Program



(a) Sorpresa Gold Long Section

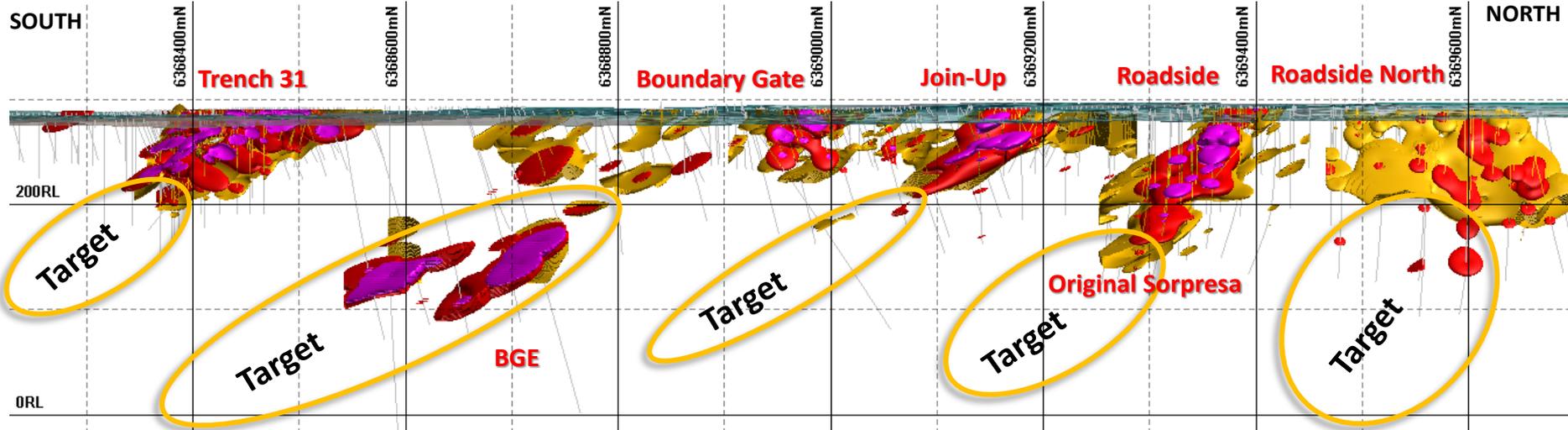


(b) Sorpresa Silver Long Section

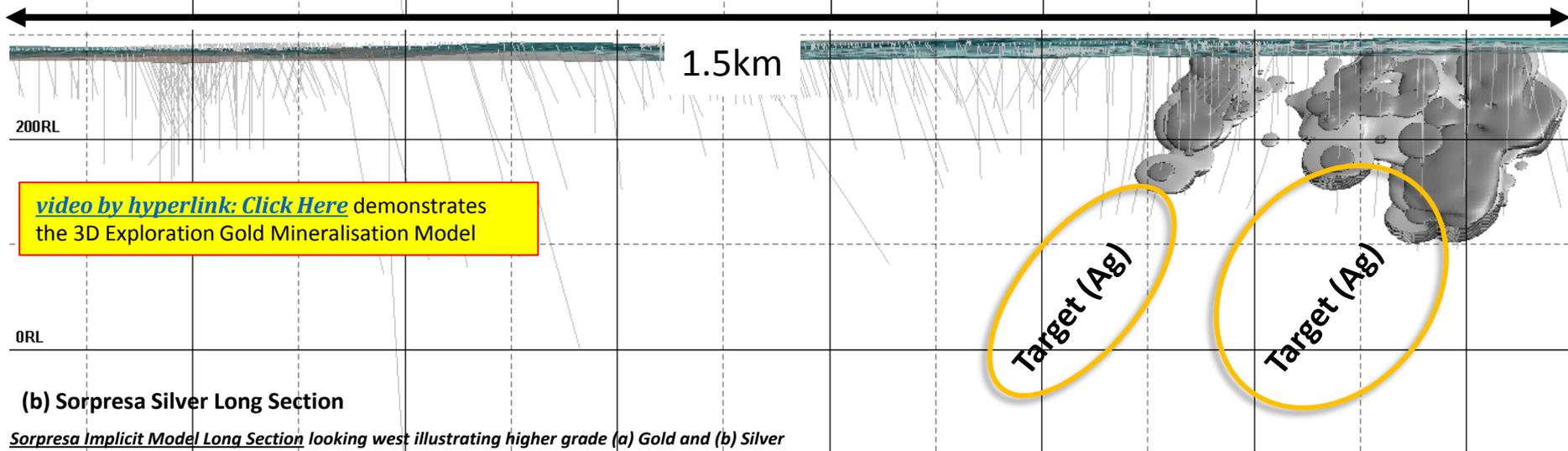
Sorpresa Implicit Model Long Section looking west illustrating higher grade (a) Gold and (b) Silver mineralisation and new down dip and down plunge extensional targets ready for RC and Diamond tail drilling. (Implicit Model is an interpretive exploration model imaging (a) Gold: yellow >0.2g/t Au, red >0.5g/t Au, purple >2g/t Au, (b) Silver: Light Grey > 31g/t Au, Dark grey > 62g/t Ag).



Sorpresa Current RC Drill Program



(a) Sorpresa Gold Long Section



[video by hyperlink: Click Here](#) demonstrates the 3D Exploration Gold Mineralisation Model

(b) Sorpresa Silver Long Section

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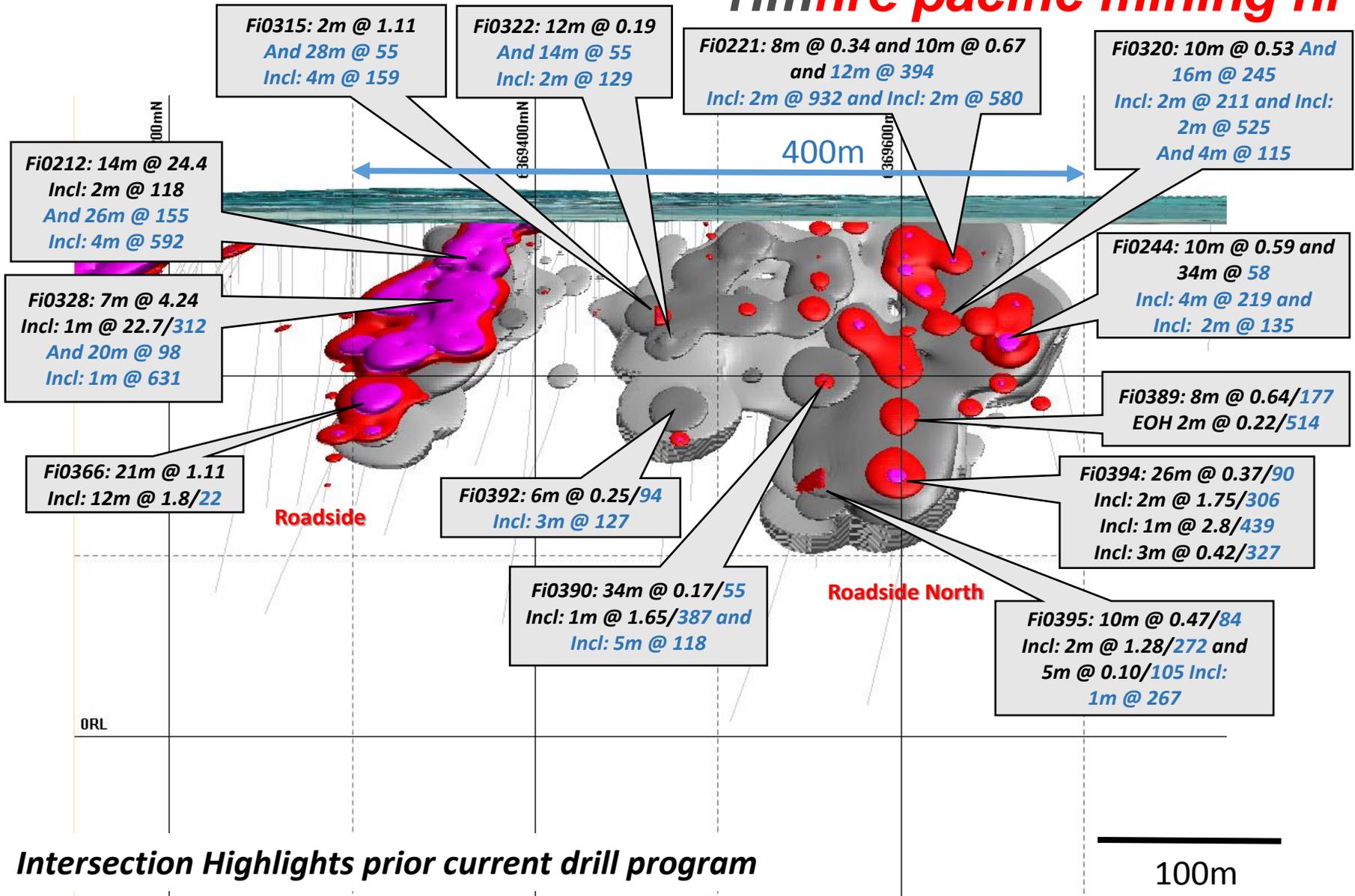


Sorpresa Current RC Drill Program

- ❑ Recently completed 22 hole for 4,687m RC program.
 - ❑ Understand and extend the down dip and down plunge position at Roadside North
 - ❑ Determine the relationship of Roadside and Original Sorpresa.
 - ❑ Expand the high grade gold position at BGE.
- ❑ Concurrent & On going 10 hole Shallow RC program (7 holes for 562m completed),
 - ❑ Explore and extend near surface oxide mineralisation south of Boundary Gate
 - ❑ Program currently underway, results awaited.



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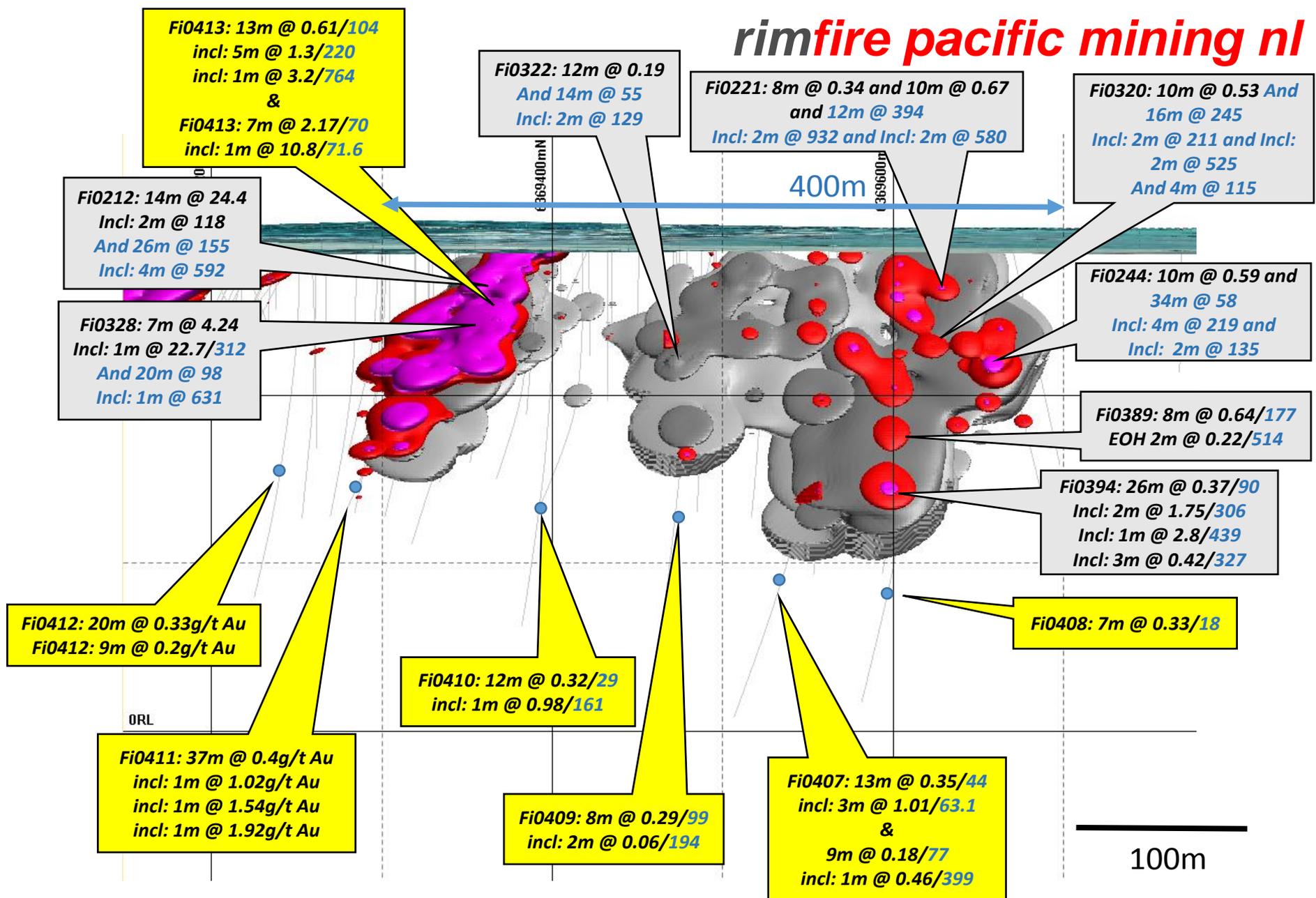


Intersection Highlights prior current drill program

Roadside and Roadside North Implicit Model Long Section looking west illustrating Gold and Silver mineralisation .
(Implicit Model is an interpretive exploration model imaging Gold: yellow >0.2 g/t Au, red >0.5 g/t Au, purple >1g/t Au, and Silver: Light Grey >30g/t Au, Dark grey >60 g/t Ag. Grey labels refer to previously released material please refer to Table 1: Dates and Hyperlinks for previously referred to results in this report

Note: Black text refers to Gold g/t result
Blue text refers to Silver g/t result

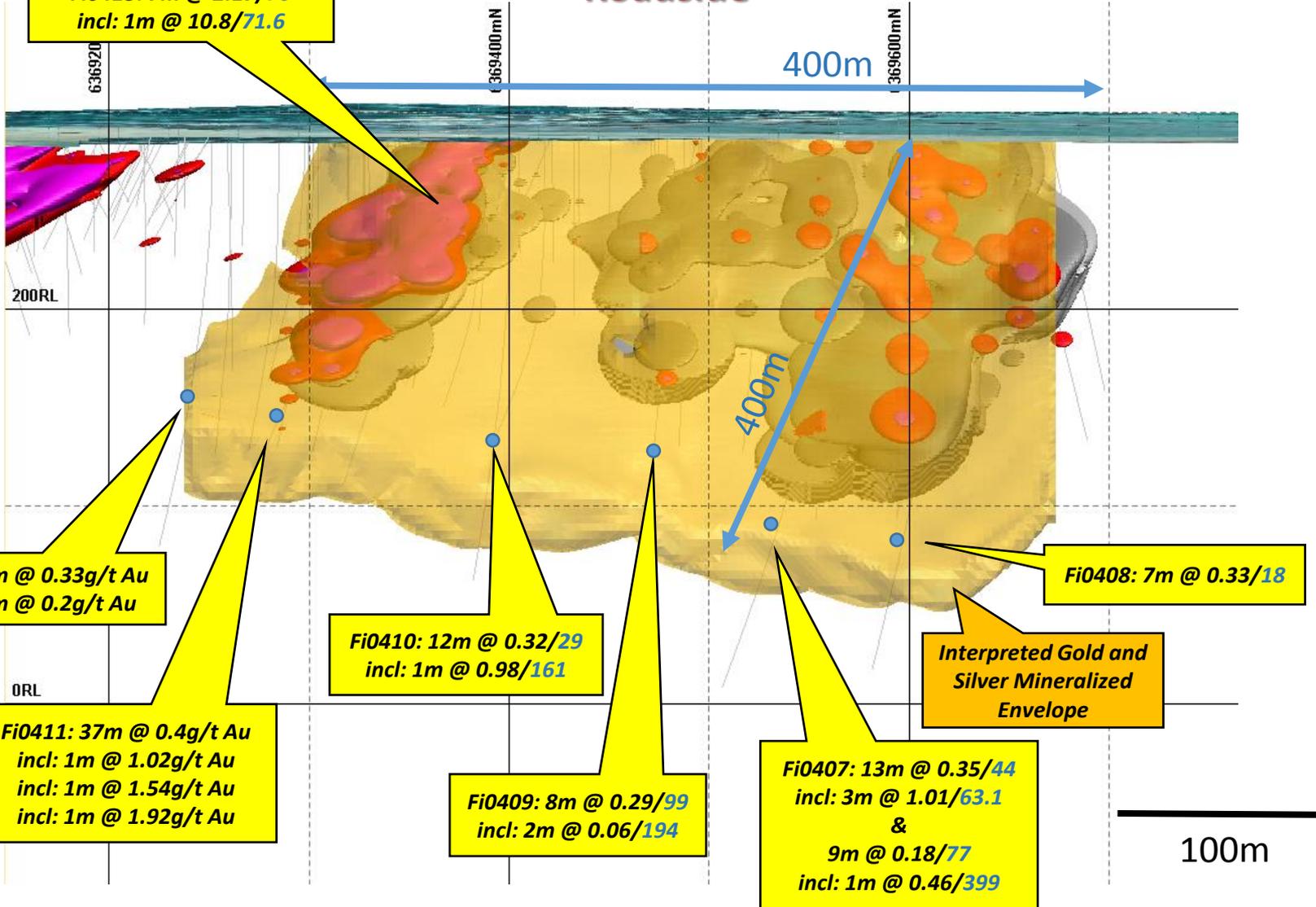
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"Roadside"

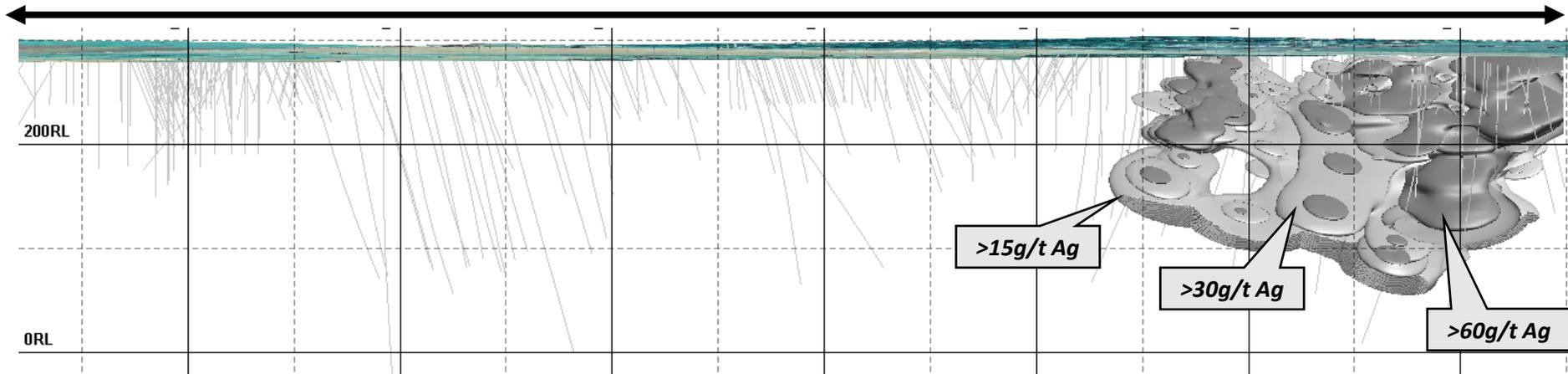
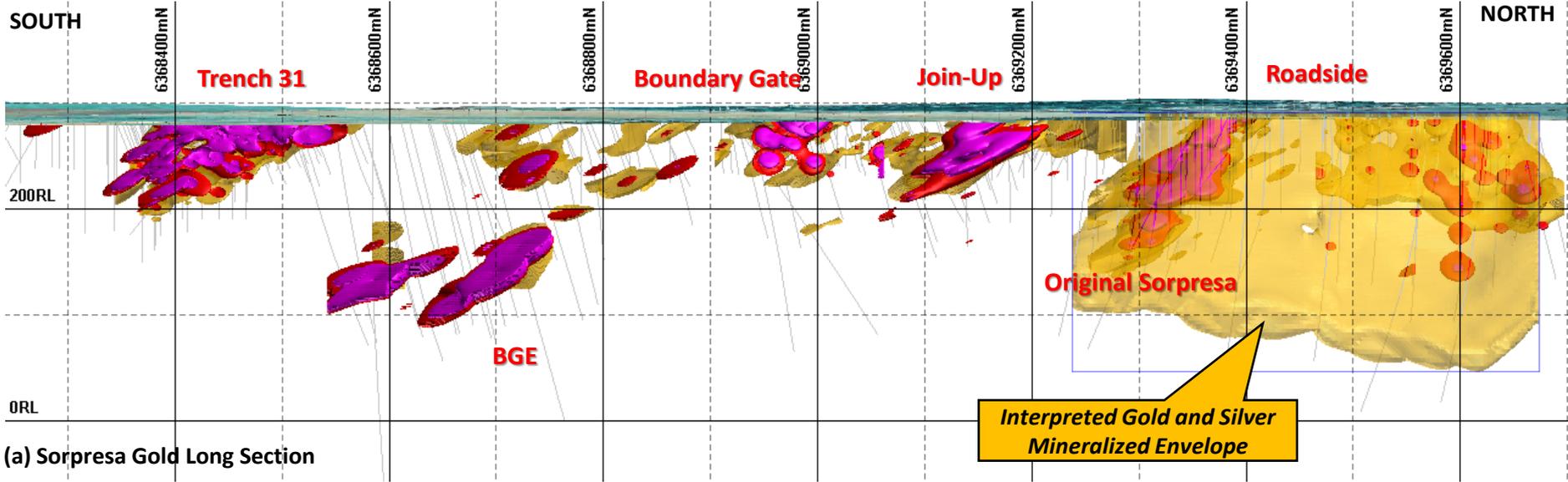


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Sorpresa Current RC Drill Program



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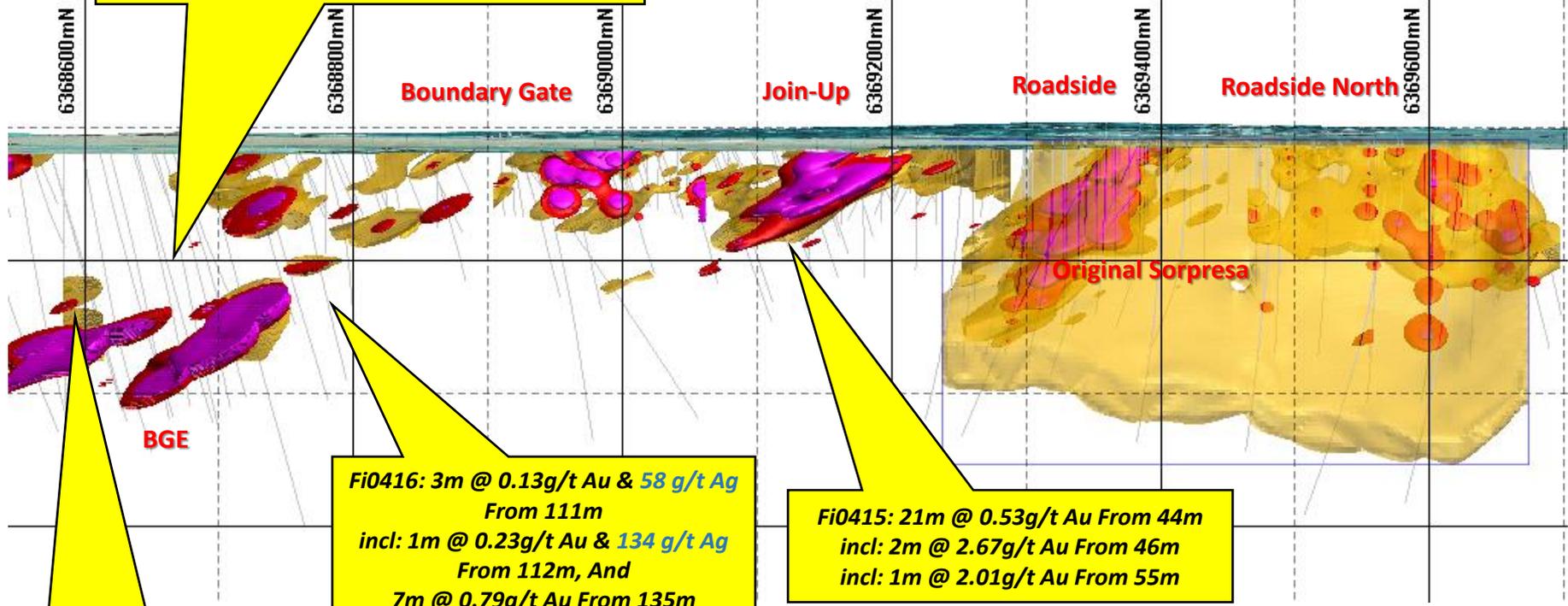


Sorpresa Current RC Drill Program

Highlight Intersections

SOUTH

NORTH



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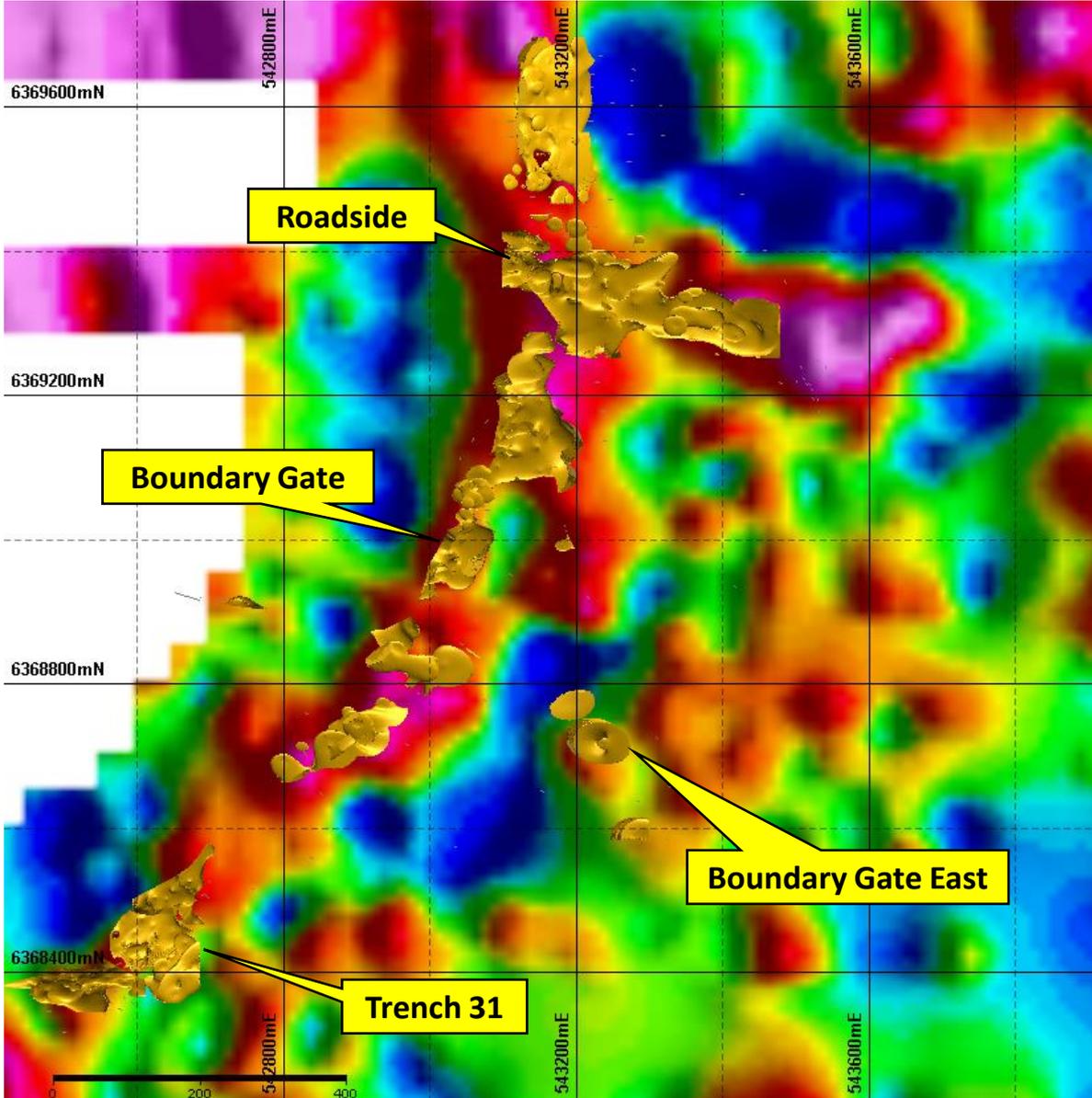
Sorpresa Results

- ❑ ***Roadside North and Roadside are continuous and Silver Dominate***
 - ❑ The current drilling has revealed multi million Oz Silver potential & Gold Credits
 - ❑ Current Mineralized Envelope ~ 400m x 400m, open down dip.
 - ❑ Southern strike closed off, Northern strike impinging on Fifield Township.
 - ❑ Independent Resource Consultants engaged.
 - ❑ Maiden Resource at Roadside Ag (Au)
 - ❑ Gold and Silver Oxide Resource potential across Sorpresa
- ❑ ***Limits defined at the Join-Up target to a high grade oxide pod.***
- ❑ ***BGE final results awaited however,***
 - ❑ “Easy Win” narrow high grade gold target is far more complicated.
 - ❑ Western up dip and southern strike (I.P. chargeability) targets remain.
- ❑ ***Focus now moving to the Highest Grade and largest oxide occurrence at Trench 31.***
- ❑ ***Exploration for Extensions and repeat lodes is ongoing:***





Sorpresa - Regional Extensions



- ❑ Excellent correlation of Mineralisation to Gravity
- ❑ Basement topographic highs produced from quartzite host rocks.

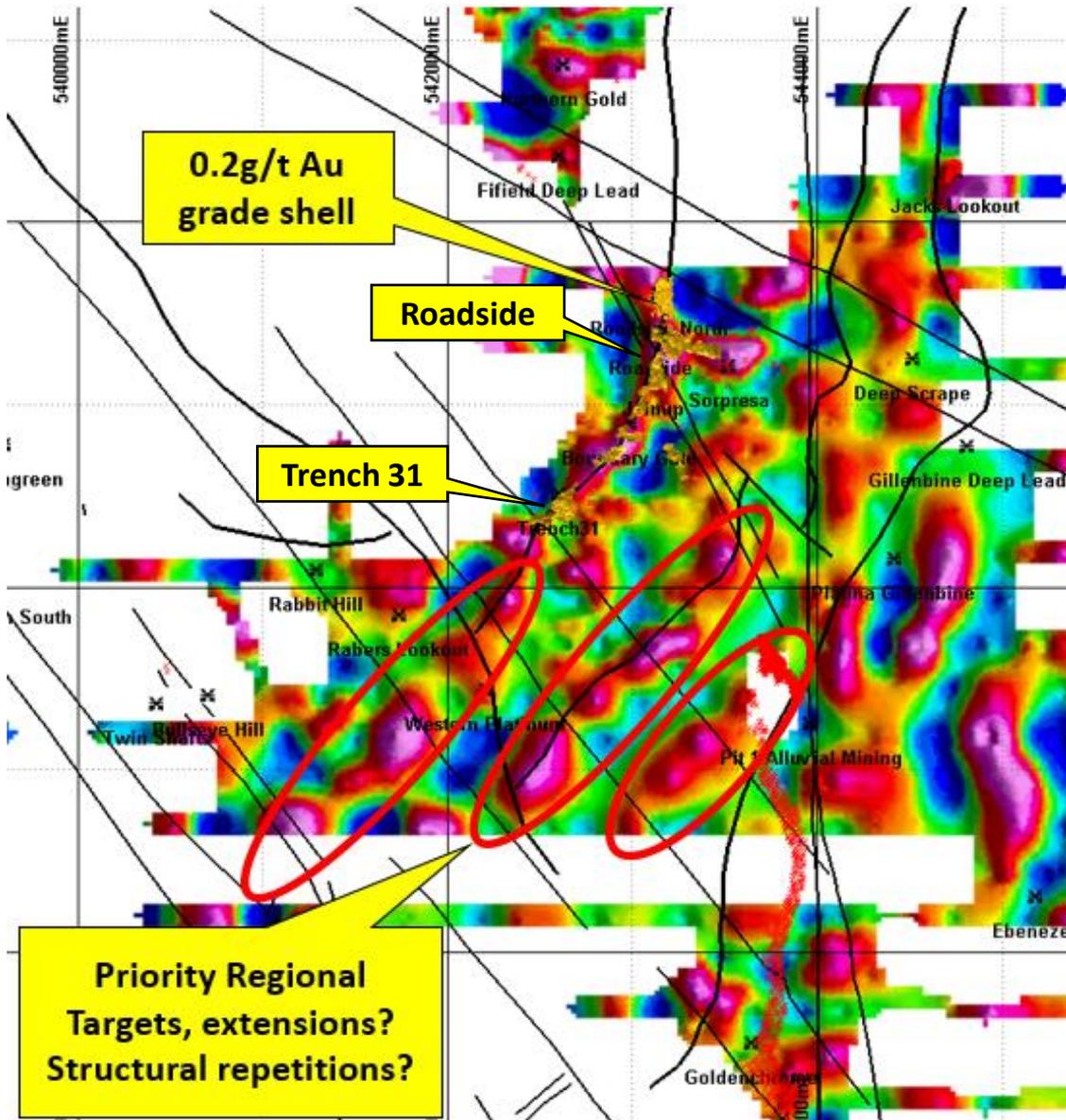
1st Vertical Derivative Gravity Image

rimfire





Sorpresa - Regional Extensions

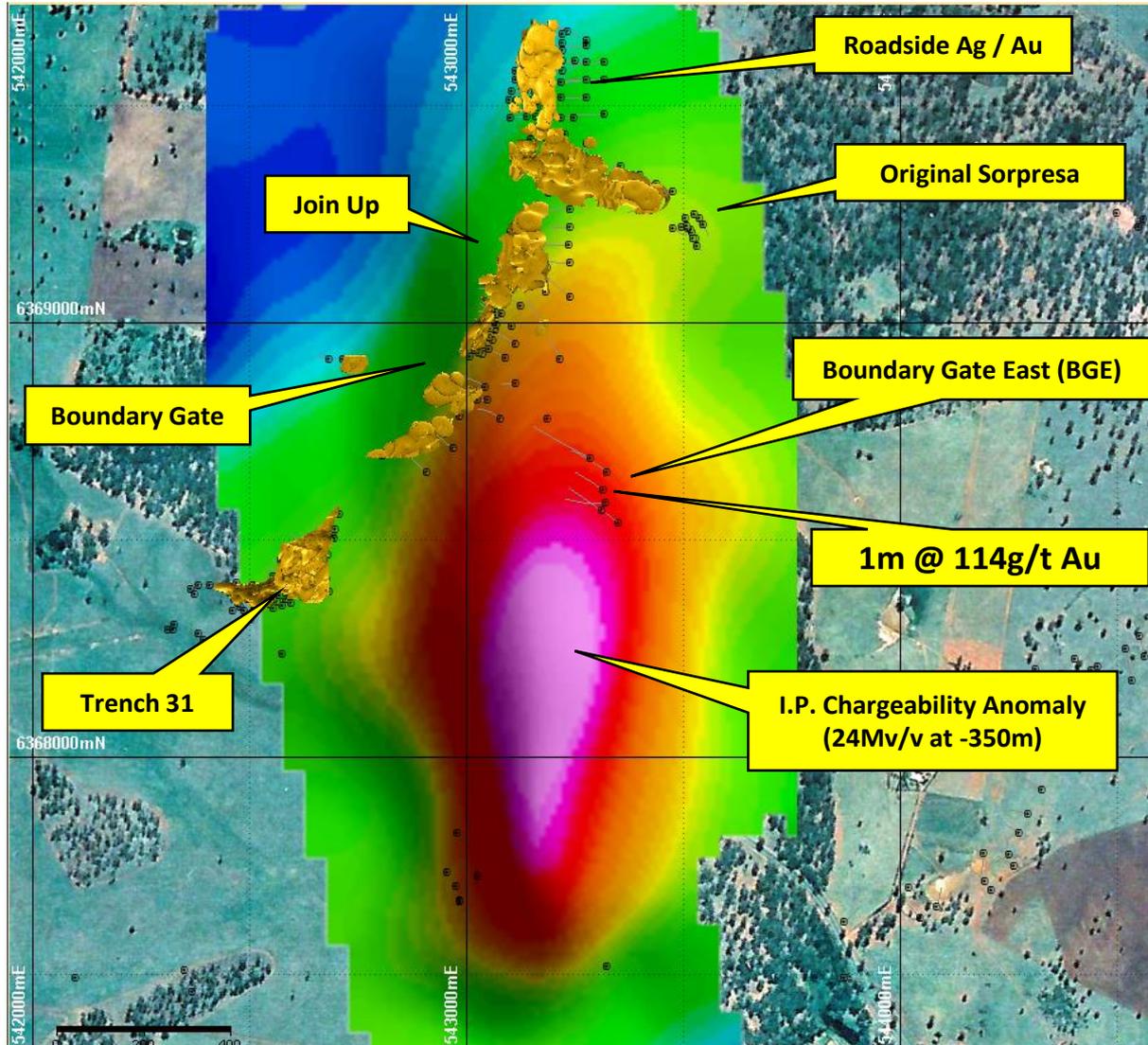


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- ❑ Regional Exploration tool locating potential extensions and repeats under shallow cover.

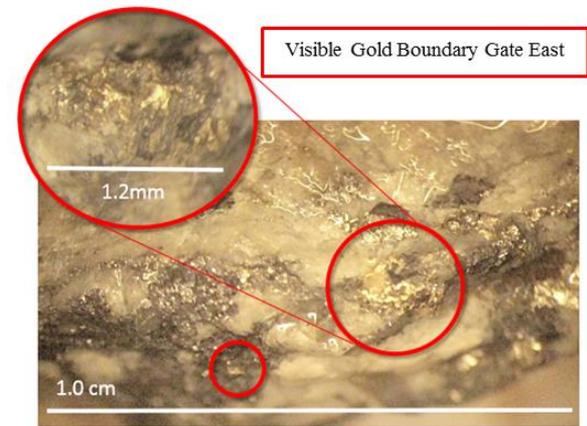
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- ❑ I.P. chargeability



Implicit Model is an interpretive exploration model imaging Au > 0.2g/t



Regional Exploration

Sorpresa was the first but is it the BEST?

- Intensive Review of all occurrences, workings and prospects.
- Assignment of a dedicated Regional Exploration team.
- Re-processing of all geophysical data sets (IP, Mag, Grav, EM) + New Acquisition
- Stand alone targets and potential oxide satellites with 6km of Sorpresa.



***High Quality Prospect Portfolio of 25 targets generated and ranked,
Conceptual – Grassroots – Greenfields – Walk Up Drill – Multiple Deposit Styles***



- Significant exploration utilizing prospecting reconnaissance mapping, rock chip & soil sampling, Auger, RAB and RC drilling completed and on going.



- New discoveries and delineation of **3 separate “Sorpresa Scale”** targets,
 - ***Yoe’s Lookout, Eclipse Trend and Carlisle***
 - High grade gold RC intersections,

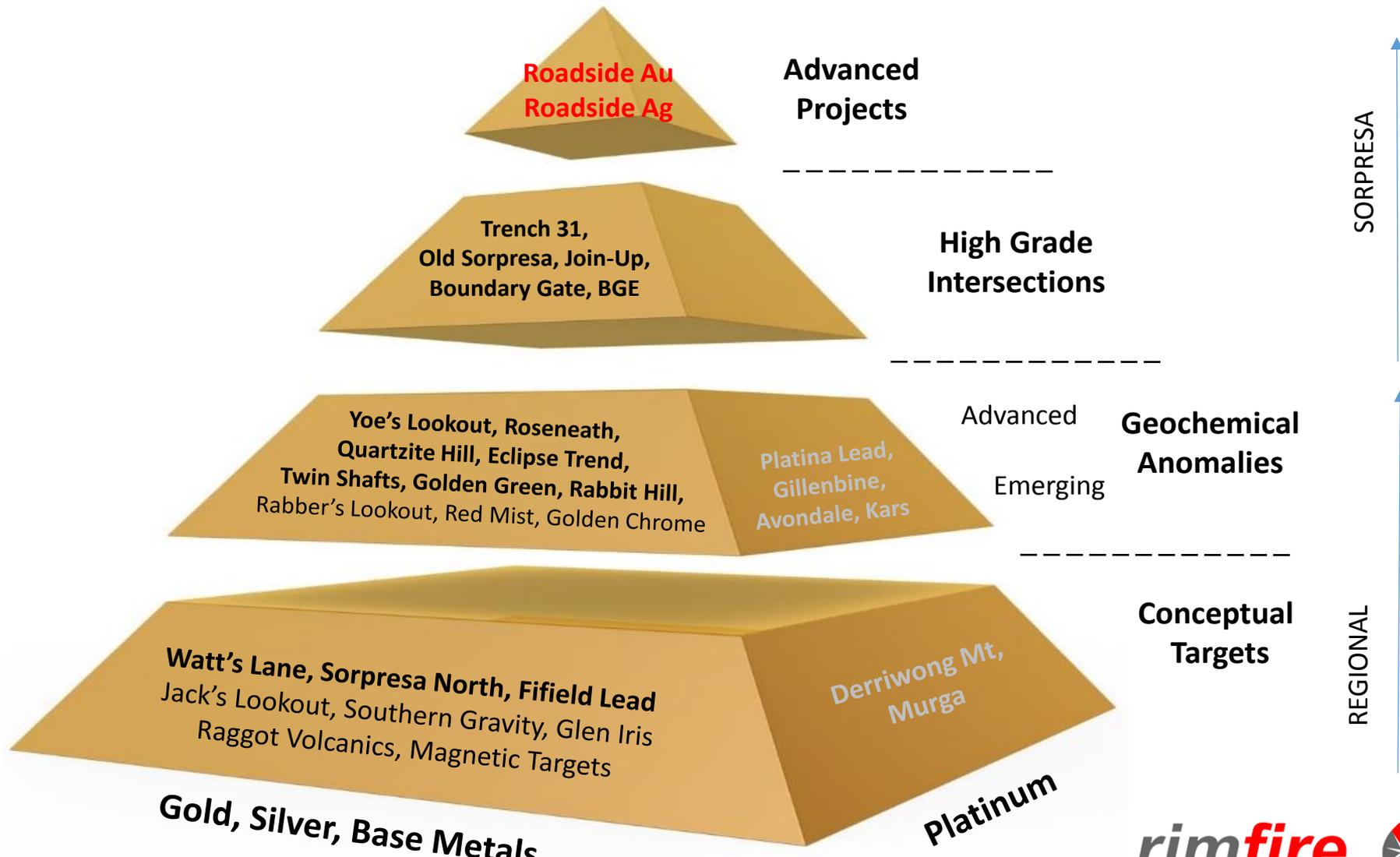
“Countercyclical Exploration Strategy is delivering”

rimfire



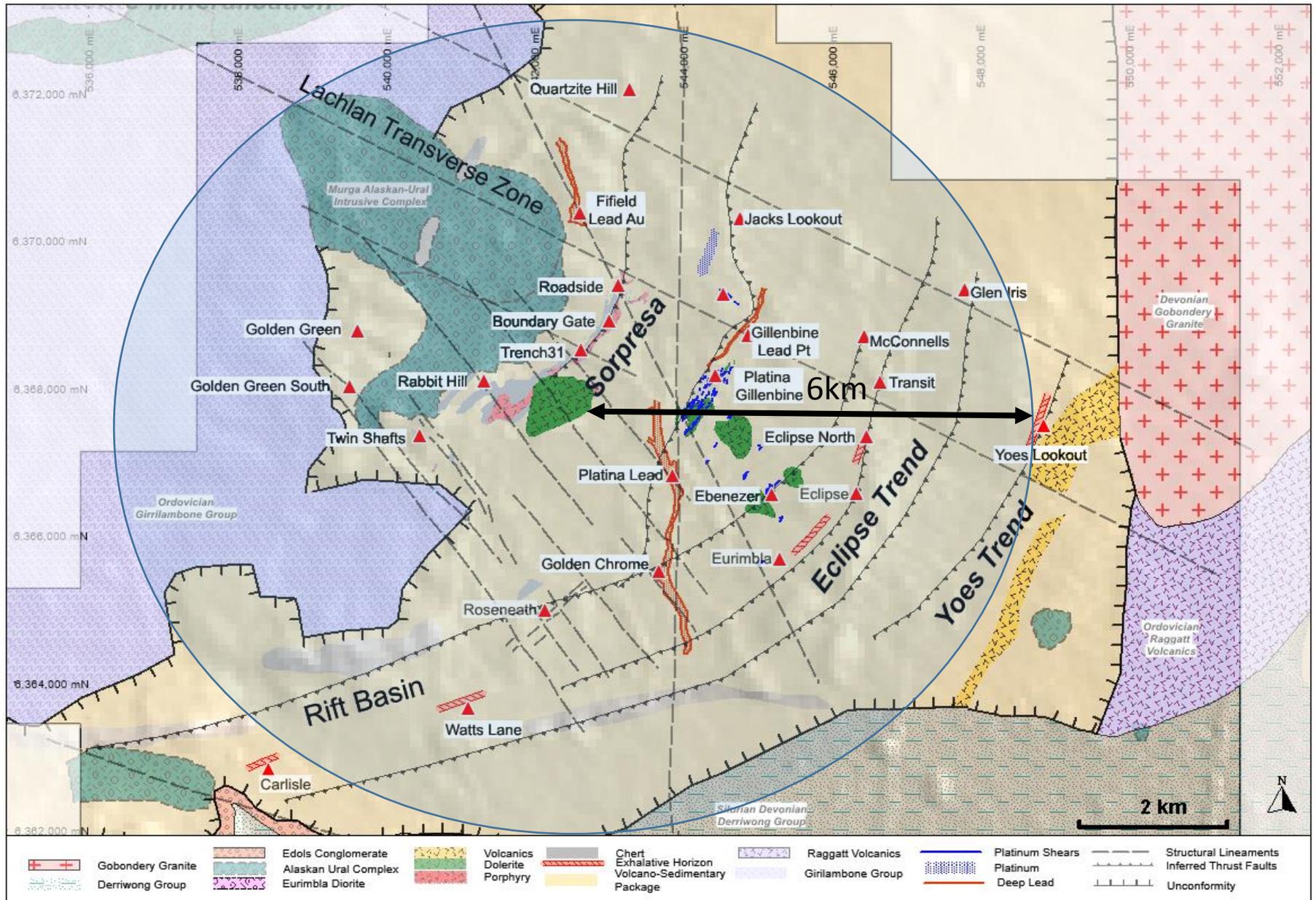


Prospect Pipeline - Feb 2014





Regional Exploration





Regional Exploration

Golden Green

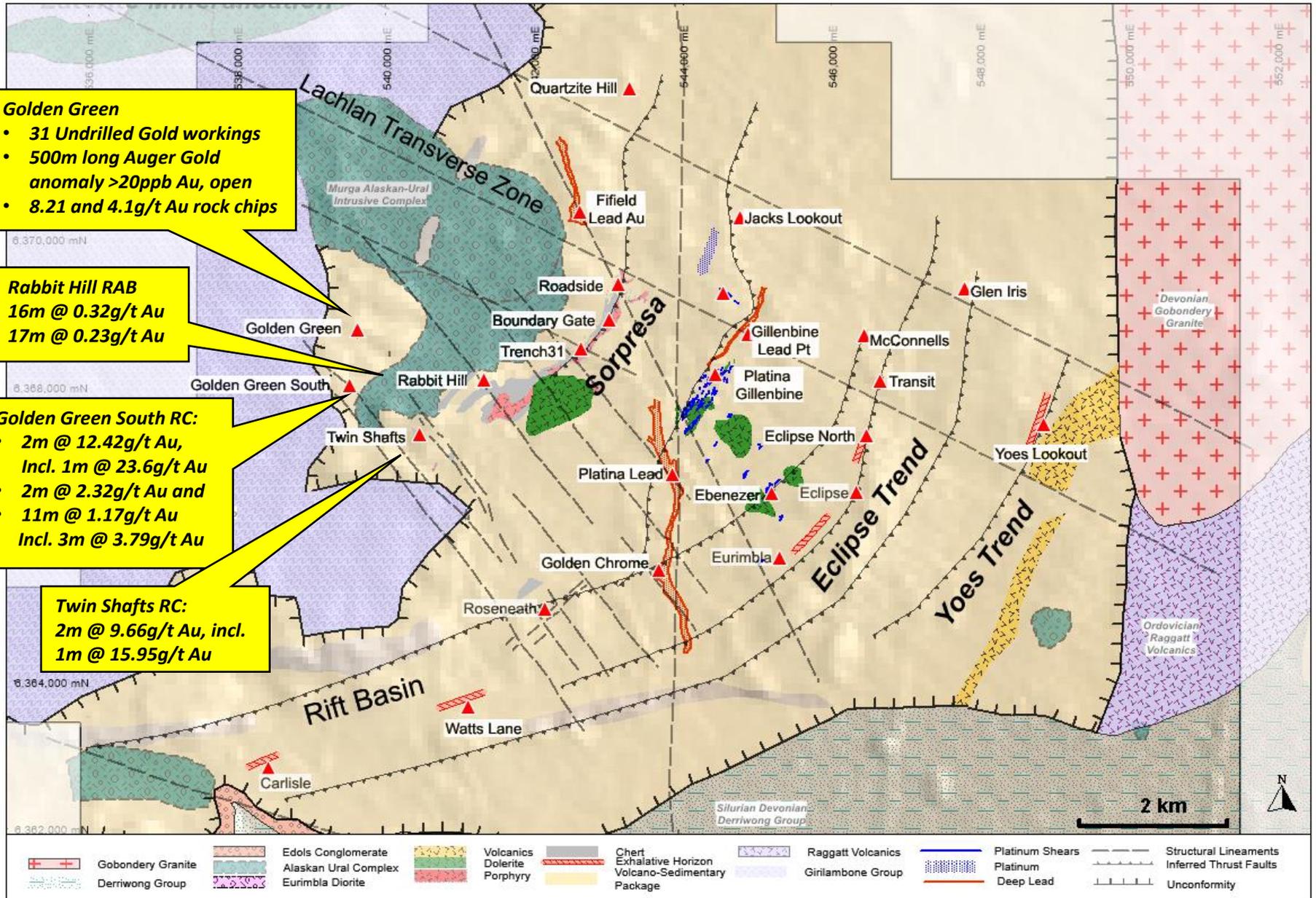
- 31 Undrilled Gold workings
- 500m long Auger Gold anomaly >20ppb Au, open
- 8.21 and 4.1g/t Au rock chips

Rabbit Hill RAB
 16m @ 0.32g/t Au
 17m @ 0.23g/t Au

Golden Green South RC:

- 2m @ 12.42g/t Au, Incl. 1m @ 23.6g/t Au
- 2m @ 2.32g/t Au and
- 11m @ 1.17g/t Au Incl. 3m @ 3.79g/t Au

Twin Shafts RC:
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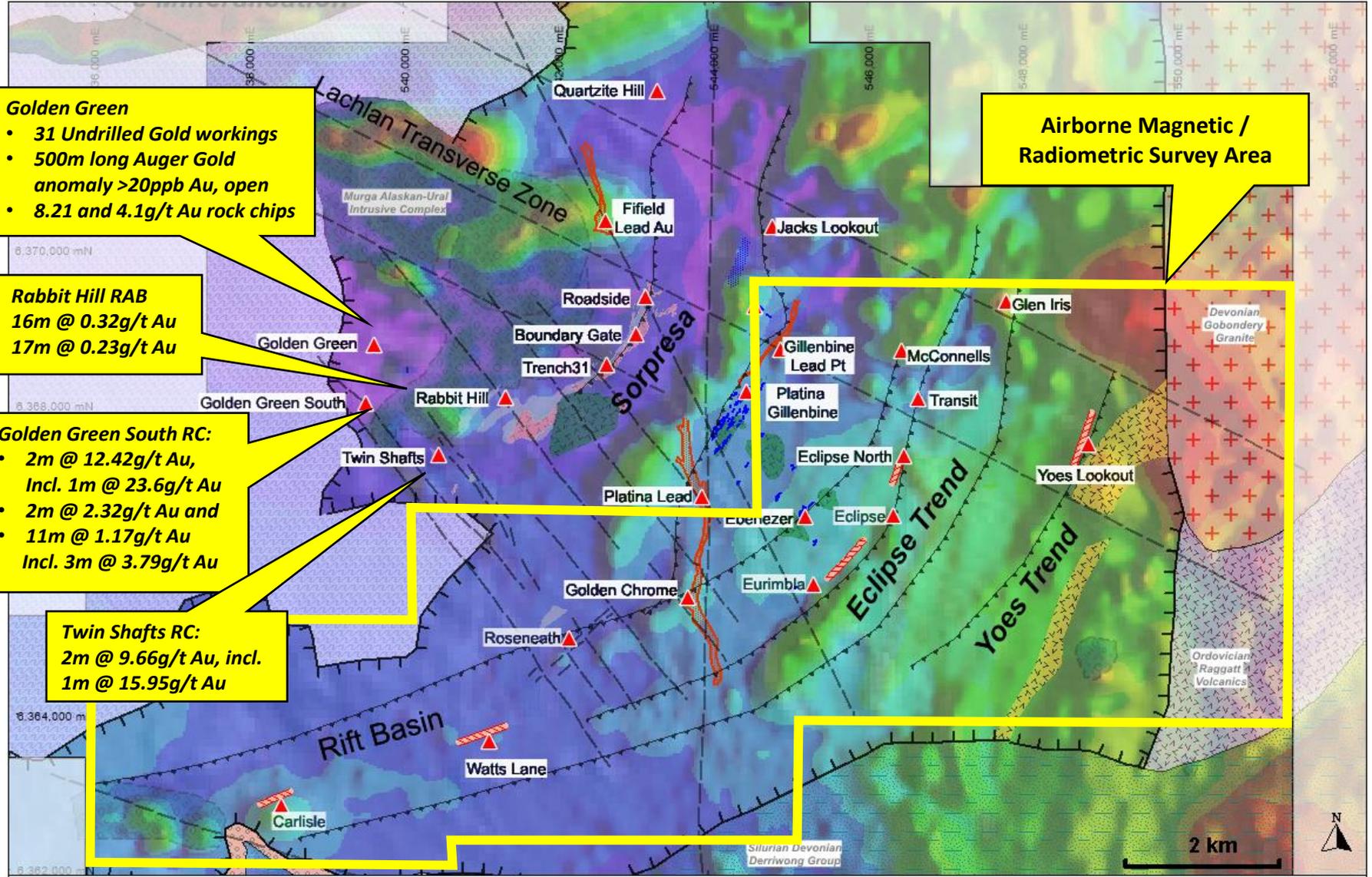
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Airborne Magnetic / Radiometric Survey Area



	Gobondery Granite		Edols Conglomerate		Volcanics Dolerite Porphyry		Chert Exhalative Horizon Volcano-Sedimentary Package		Raggatt Volcanics		Platinum Shears		Structural Lineaments
	Derriwong Group		Alaskan Ural Complex						Girilambone Group		Platinum Deep Lead		Inferred Thrust Faults
			Eurimbla Diorite										Unconformity



Regional Exploration

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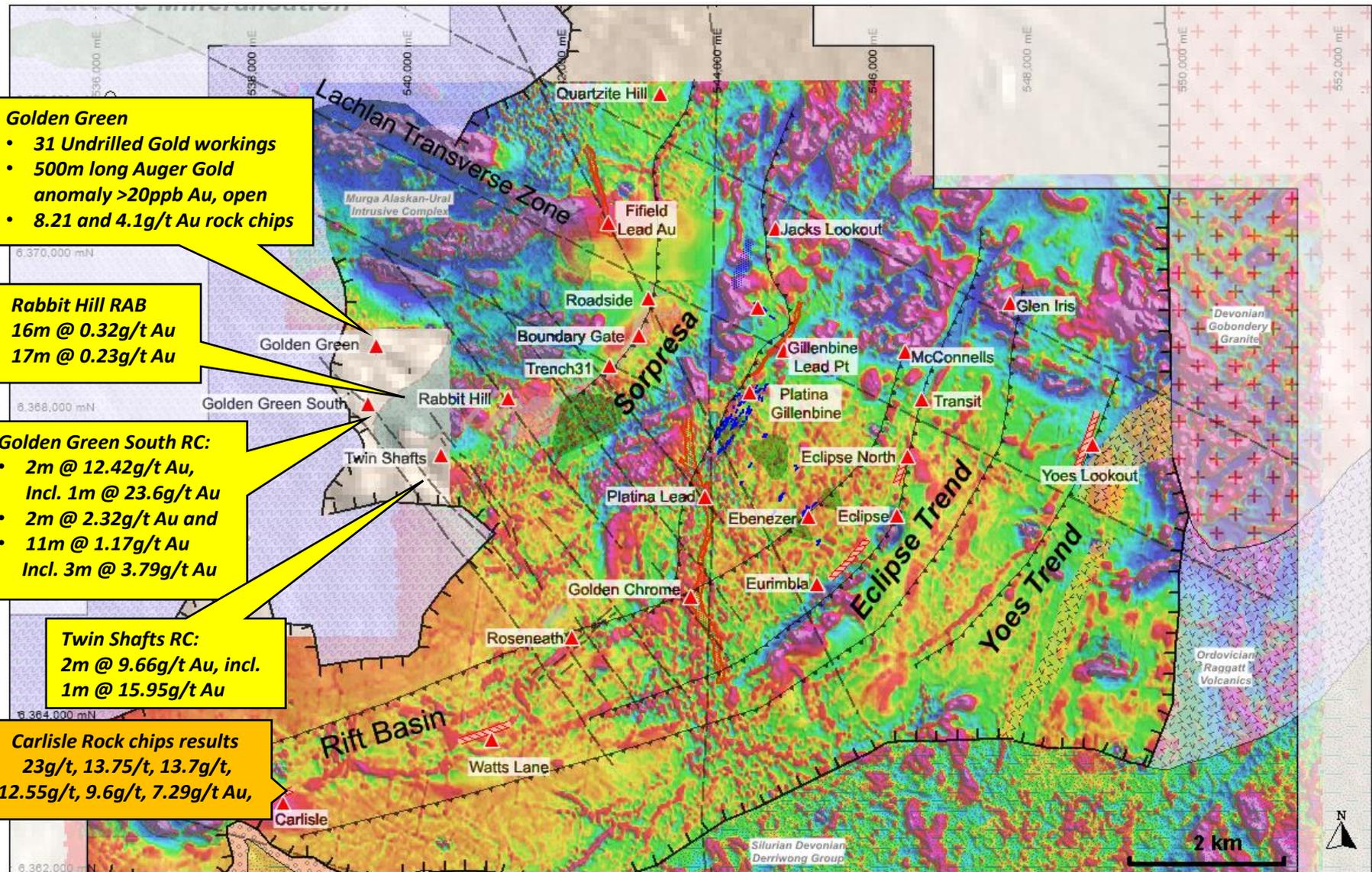
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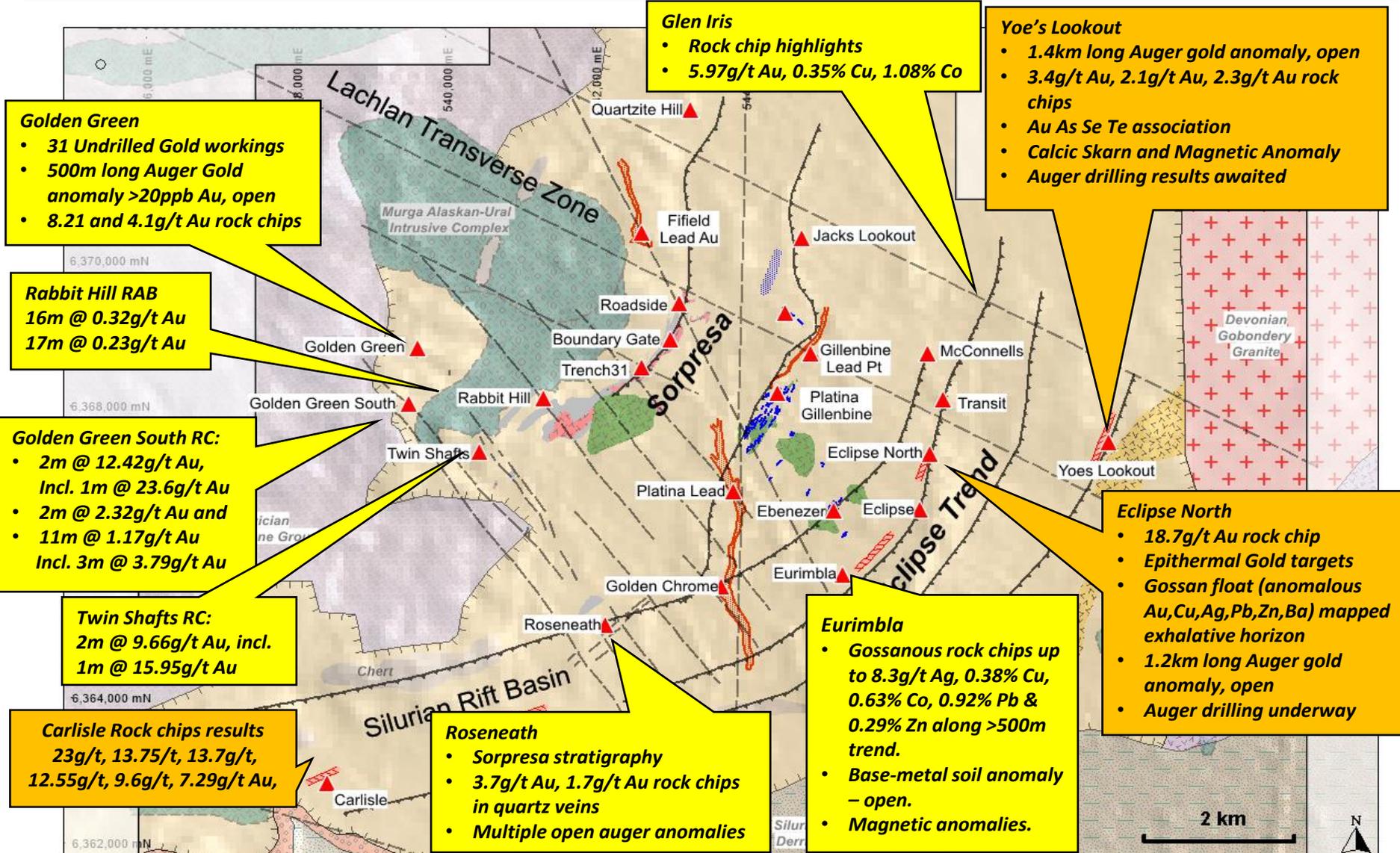
Carlisle Rock chips results
 23g/t, 13.75/t, 13.7g/t,
 12.55g/t, 9.6g/t, 7.29g/t Au,



	Gobondery Granite		Edols Conglomerate		Volcanics Dolerite		Chert Exhalative Horizon		Raggatt Volcanics		Platinum Shears		Structural Lineaments
	Derriwong Group		Alaskan Ural Complex		Porphyry		Volcano-Sedimentary Package		Girilambone Group		Platinum Deep Lead		Inferred Thrust Faults
			Eurimbla Diorite										Unconformity



Regional Exploration



Golden Green

- 31 Undrilled Gold workings
- 500m long Auger Gold anomaly >20ppb Au, open
- 8.21 and 4.1g/t Au rock chips

Rabbit Hill RAB

- 16m @ 0.32g/t Au
- 17m @ 0.23g/t Au

Golden Green South RC:

- 2m @ 12.42g/t Au, Incl. 1m @ 23.6g/t Au
- 2m @ 2.32g/t Au and
- 11m @ 1.17g/t Au Incl. 3m @ 3.79g/t Au

Twin Shafts RC:

- 2m @ 9.66g/t Au, incl. 1m @ 15.95g/t Au

Carlisle Rock chips results

23g/t, 13.75/t, 13.7g/t, 12.55g/t, 9.6g/t, 7.29g/t Au,

Roseneath

- Sorpresa stratigraphy
- 3.7g/t Au, 1.7g/t Au rock chips in quartz veins
- Multiple open auger anomalies

Glen Iris

- Rock chip highlights
- 5.97g/t Au, 0.35% Cu, 1.08% Co

Yoe's Lookout

- 1.4km long Auger gold anomaly, open
- 3.4g/t Au, 2.1g/t Au, 2.3g/t Au rock chips
- Au As Se Te association
- Calcic Skarn and Magnetic Anomaly
- Auger drilling results awaited

Eclipse North

- 18.7g/t Au rock chip
- Epithermal Gold targets
- Gossan float (anomalous Au,Cu,Ag,Pb,Zn,Ba) mapped exhalative horizon
- 1.2km long Auger gold anomaly, open
- Auger drilling underway

Eurimbla

- Gossanous rock chips up to 8.3g/t Ag, 0.38% Cu, 0.63% Co, 0.92% Pb & 0.29% Zn along >500m trend.
- Base-metal soil anomaly – open.
- Magnetic anomalies.

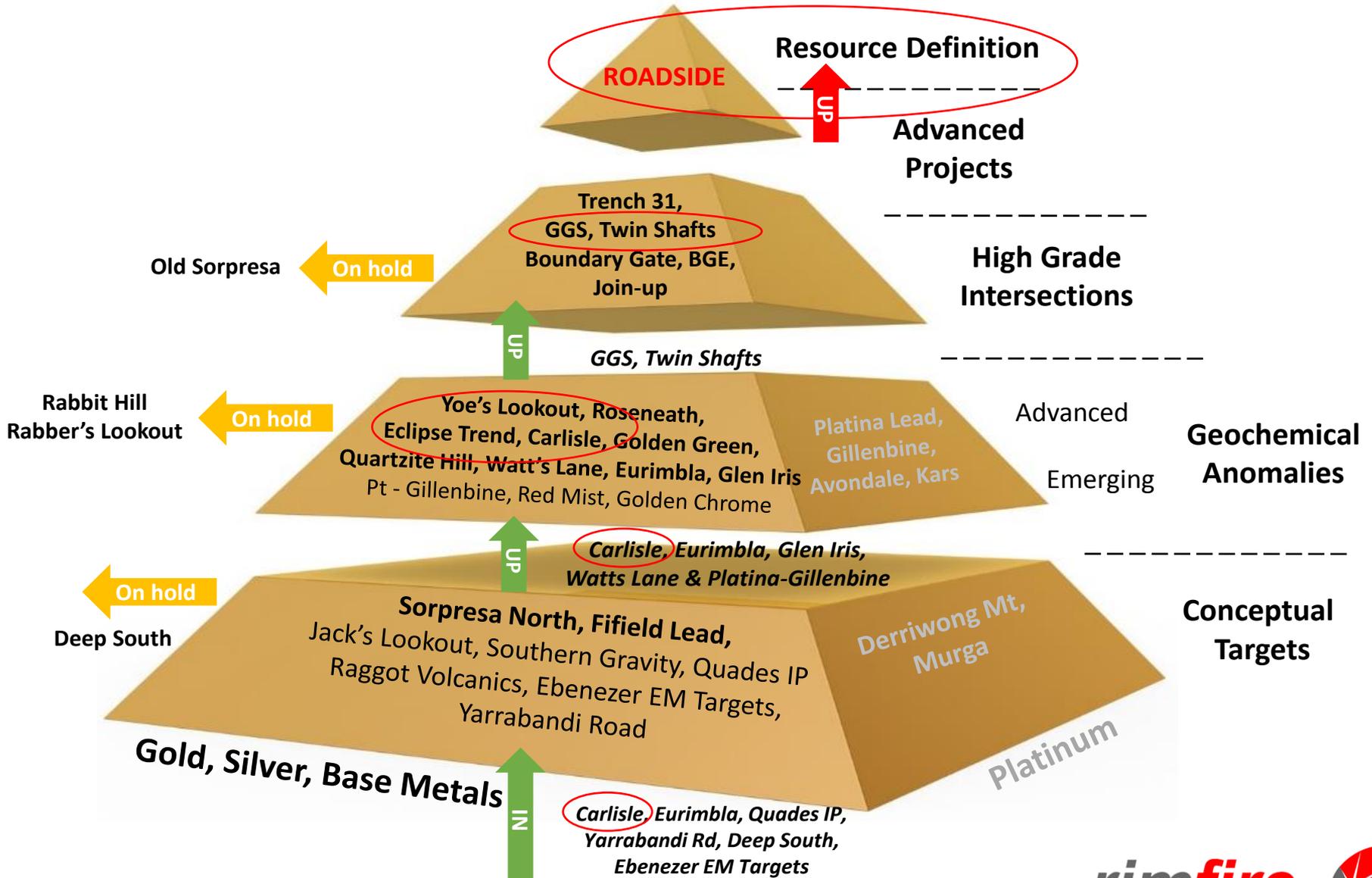
	Gobondery Granite		Edols Conglomerate		Volcanics		Chert		Raggatt Volcanics		Platinum Shears		Structural Lineaments
	Derriwong Group		Alaskan Ural Complex		Dolerite		Exhalative Horizon		Girilambone Group		Platinum		Inferred Thrust Faults
			Eurimbla Diorite		Porphyry		Volcano-Sedimentary Package				Deep Lead		Unconformity

2 km





Prospect Pipeline - August 2014





Regional Exploration – Carlisle Prospect

Highlights

- ❑ New discovery in the “Fifield Central Gold Corridor” in the last 2 months.
- ❑ **Two target styles:**
 1. Outcropping quartz-pyrite-arsenopyrite stockwork veined shear zones. **Structurally controlled, sediment hosted, orogenic gold target** (e.g. Fosterville gold mine, Victoria & Tomingly Gold Mine, NSW).
 2. Diffuse bulls-eye magnetic high anomaly with peripheral QMH alteration, pyritisation & trace native Cu – **a conceptual ‘Besshi’ style VHMS Cu-Au target** (e.g. Tritton, NSW).

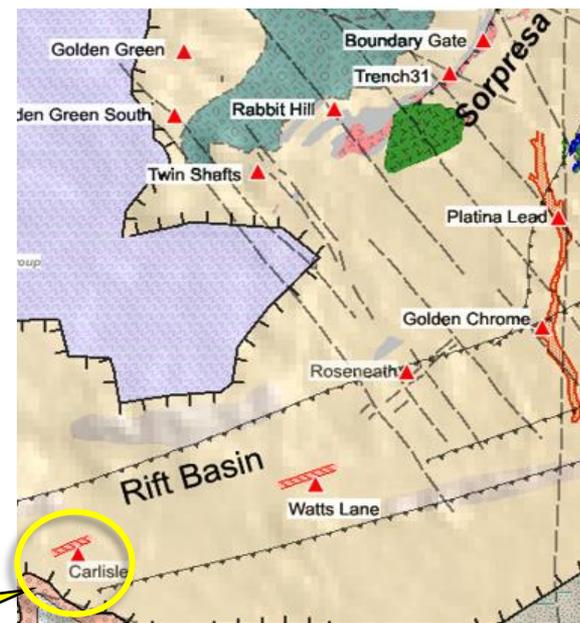
❑ **23.0g/t Au, 13.75g/t Au, 13.7g/t Au, 12.55g/t Au, 9.06g/t Au, 7.55g/t Au, 7.29g/t Au, 7.02g/t Au**

❑ **Up to 0.16% Cu and out-cropping native Cu.**

❑ Soil sampling completed, results awaited.

❑ Magnetics / radiometrics, 3D modeling completed.

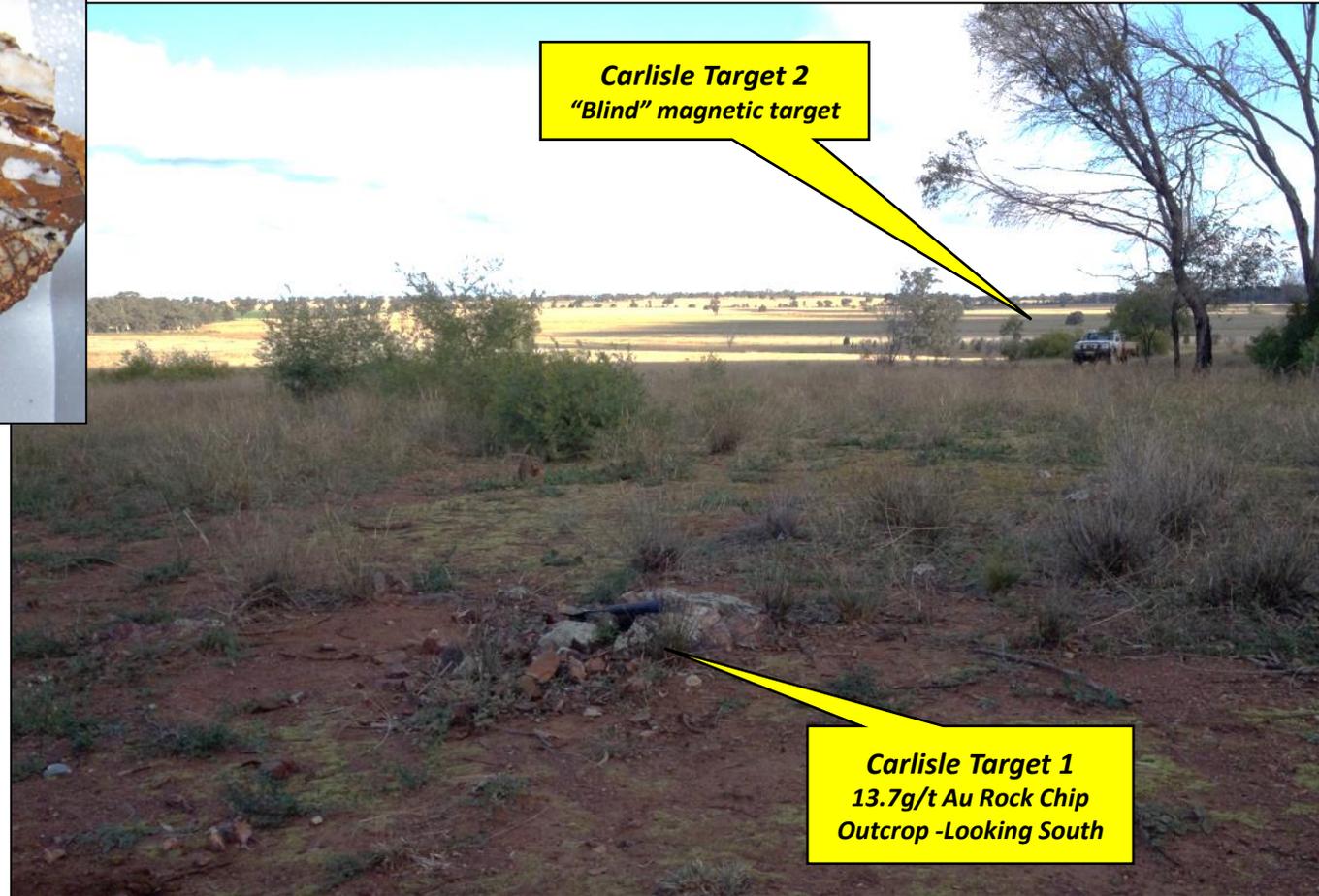
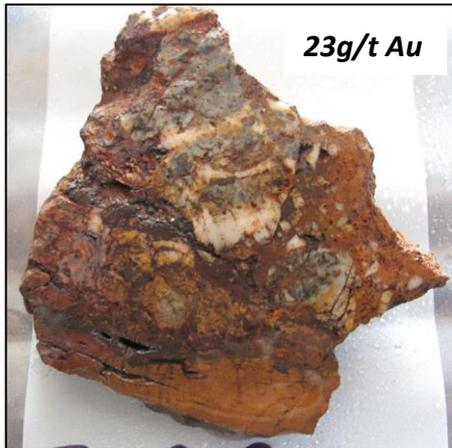
High grade outcrops, now linking to very compelling 3D Magnetic Models



Carlisle
6.8km SW

rimfire pacific mining nl

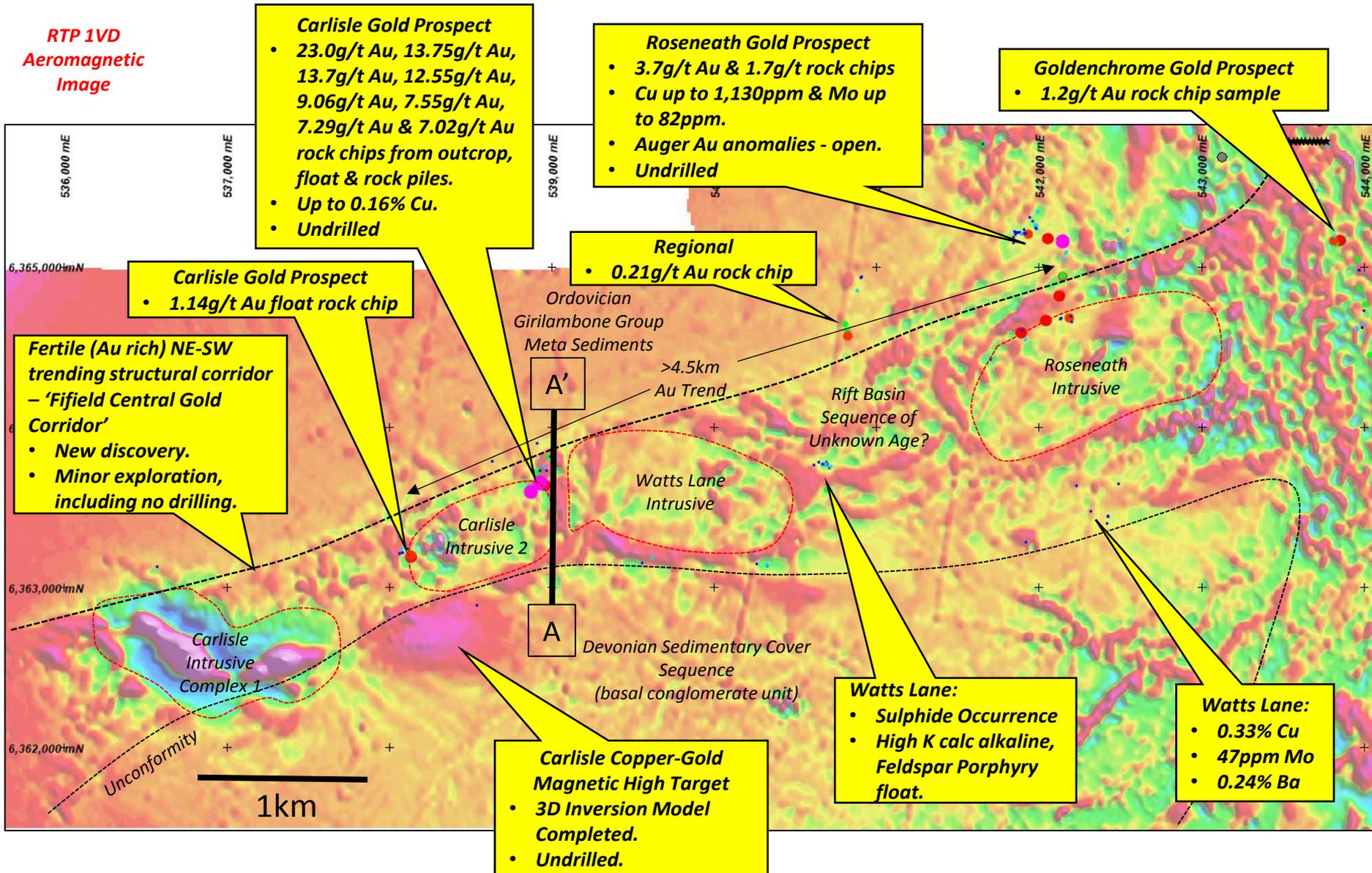
(ASX "RIM")



- 85m x 40m "basement window"
- 85% of rock chip samples returned results > 1g/t, and 20% > 10g/t Au
- Up to 23g/t Au.

rimfire pacific mining nl

(ASX "RIM")

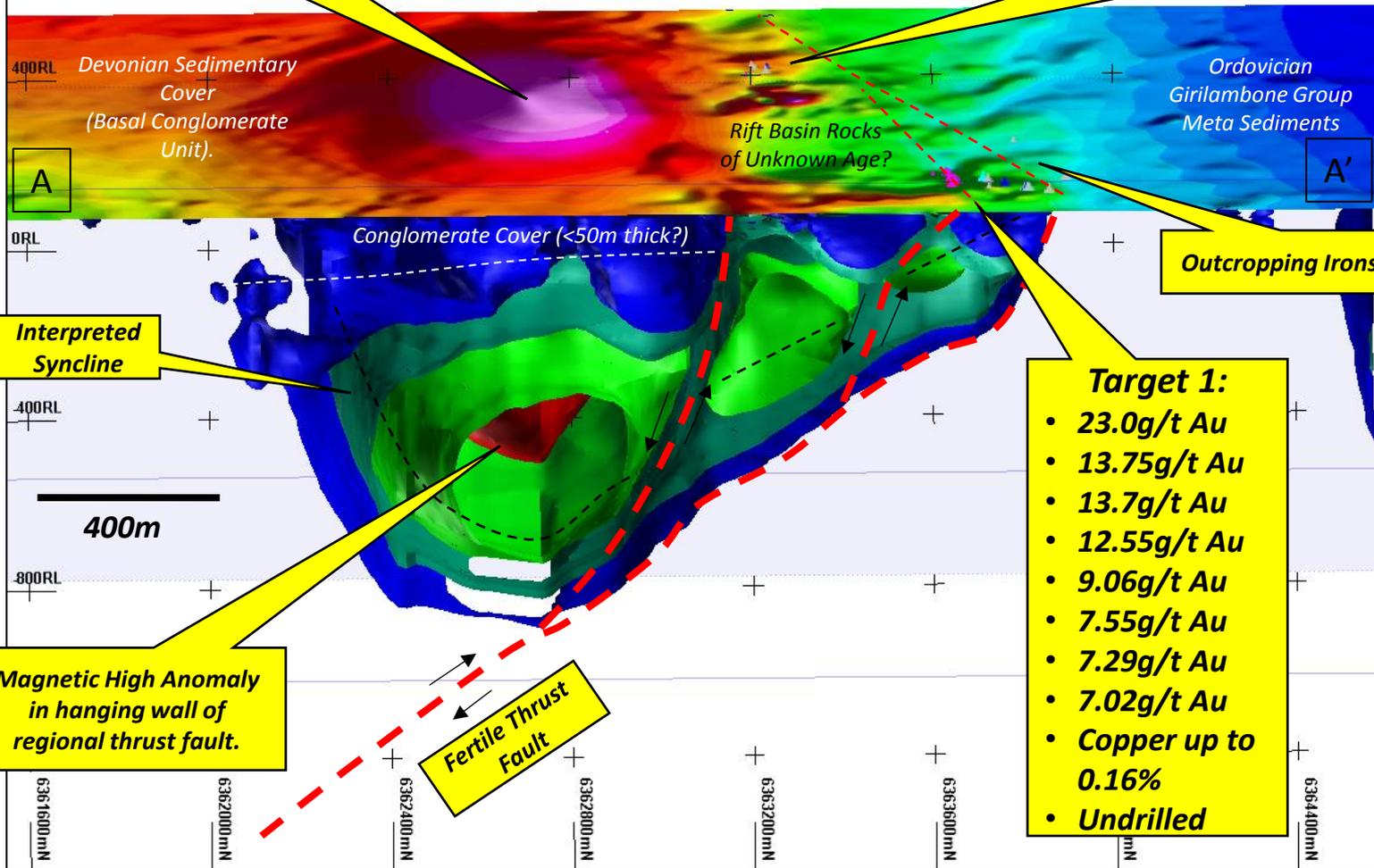


rimfire pacific mining nl

(ASX "RIM")

Target 2:
Carlisle Copper – Gold
Magnetic High
Anomaly
• **Undrilled.**

- **Banded silica - hematite – magnétite – limonite/pyrite jasper outcrop with trace Native Cu.**
- **Up to 1.1g/t Au in quartzite rock chip float.**

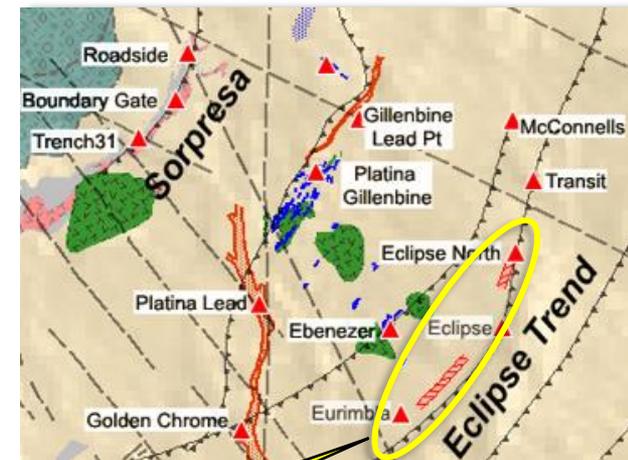




Regional Exploration – Eclipse Prospect

Highlights

- ❑ **Zoned Polymetallic Low Sulphidation Epithermal System**, within hydrothermally altered, quartz – feldspar porphyry sub-volcanic intrusive centre.
- ❑ Defined over >1.2km x 0.6kms **open and undrilled**.
- ❑ Extensive low sulphidation epithermal quartz-chalcedony-carbonate-barite-sulphide vein & gossanous breccia float.
- ❑ High Grade gold up to **18.7g/t Au** in gossanous epithermal veins, plus **2.4g/t Au**, **32g/t Ag** and **0.62% Cu**, **0.78% Pb**. Boiling textures observed.
- ❑ Three potential drill targets emerging:
 - ❑ (1) Ag-Pb-Zn-Cu-Au-Co-Ba rich breccia & semi-massive sulphide – NW magnetic target.
 - ❑ (2) Au-Cu-Ag-Bi rich banded epithermal veins & breccia's
 - ❑ (3) Au-As-Zn rich banded epithermal veins & breccia's



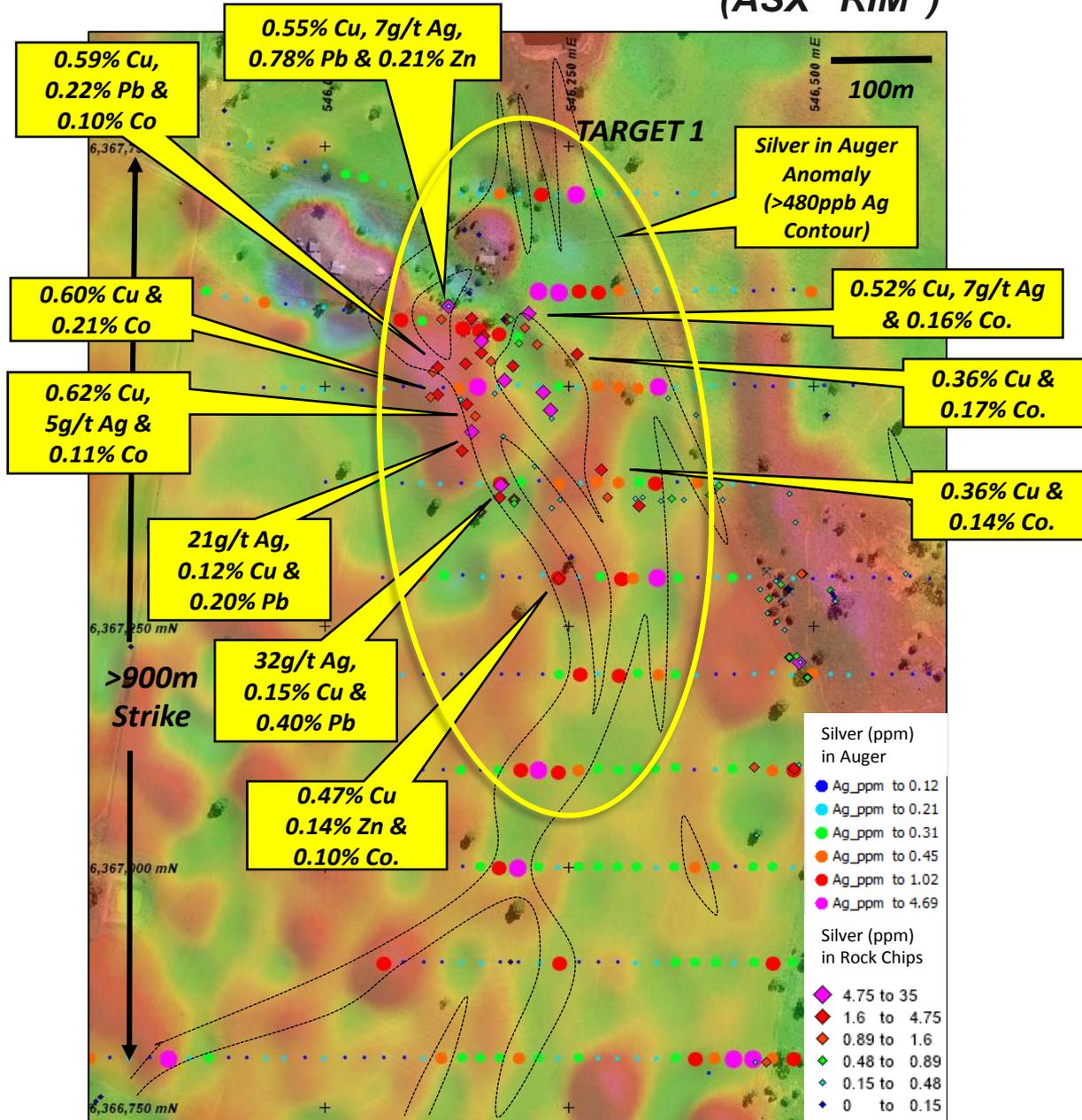
Eclipse
3.5km East

rimfire



rimfire pacific mining nl

(ASX "RIM")

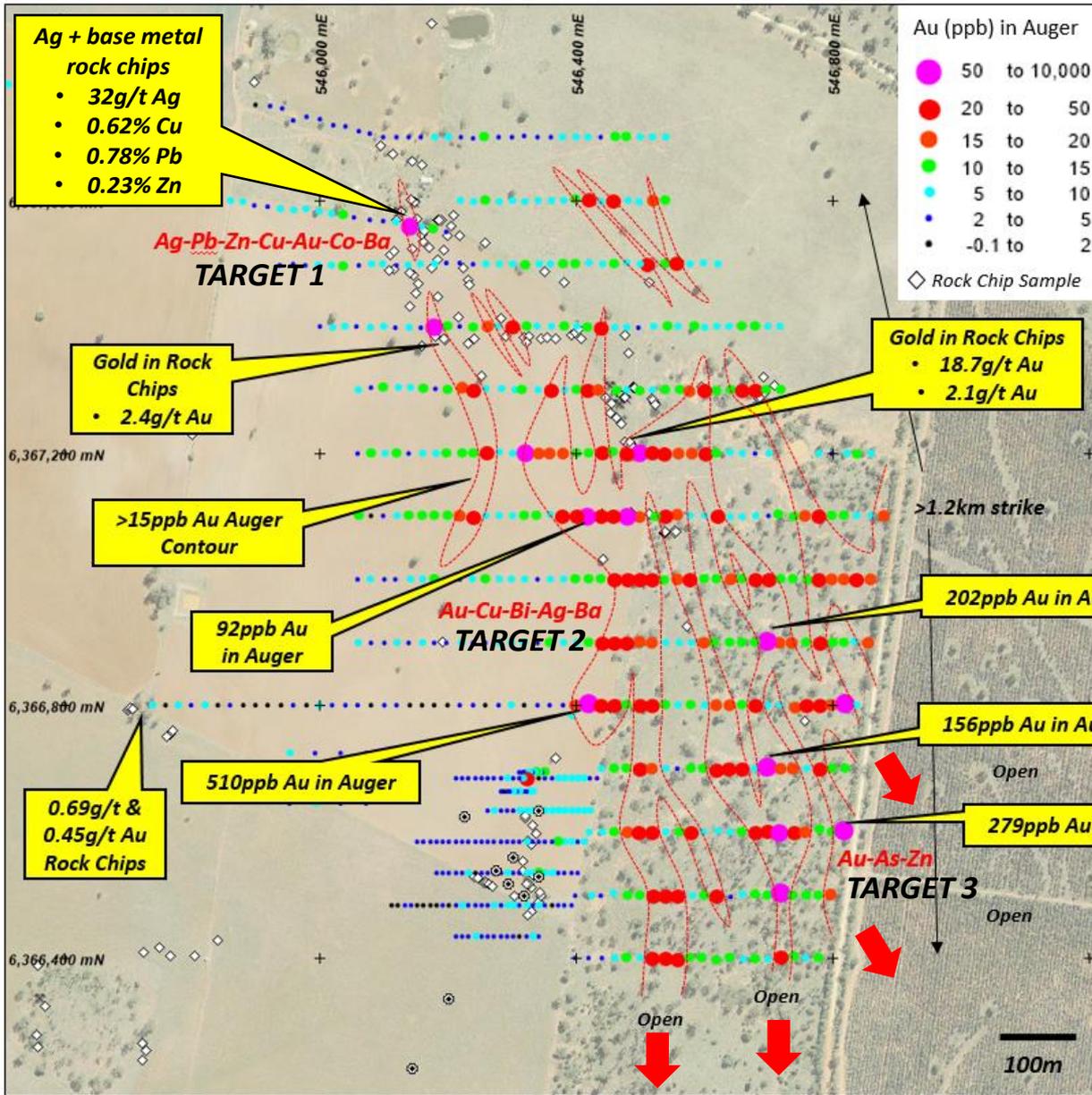


Target 1

- Discrete **Ag-Pb-Zn-Cu-Au-Co-Ba** rich breccia & semi-massive sulphide – NW magnetic target.
- >900m long silver-lead auger anomaly.
- Anomalous precious & base-metals in gossanous rock chips (up to **32g/t Ag, 0.62% Cu, 0.78% Pb & 0.23% Zn**).
- Thumbprint magnetic high anomaly.
- Possible fold hinge
- Semi-coincident Ishihara Alteration Index (AI) and Elura Index.
- Interpreted as breccia style or semi-massive sulphide target.

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(ASX "RIM")



Target 2

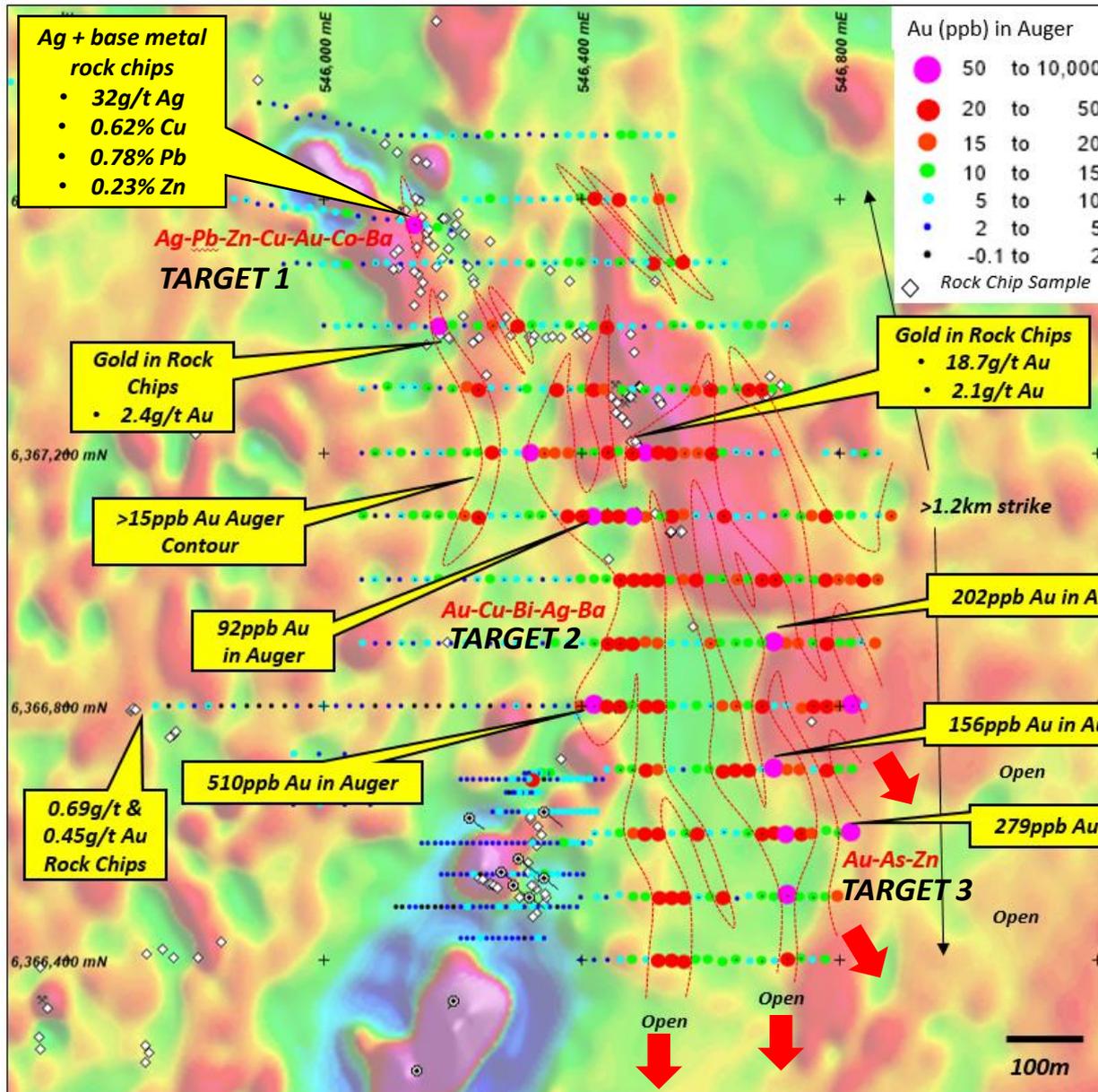
- >800m long Au-Cu-(±Bi-Ag-Ba) auger anomaly (>20ppb Au, up to 550ppb Au & 1,650ppm Cu).
- Up to 18.7g/t Au in rock chips.
- Interpreted as a Au-Cu rich epithermal lode.
- Open to the south.



"Boiling Texture" 4.6g/t Ag, 640ppm Cu & 0.92% Pb

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(ASX "RIM")



Target 2

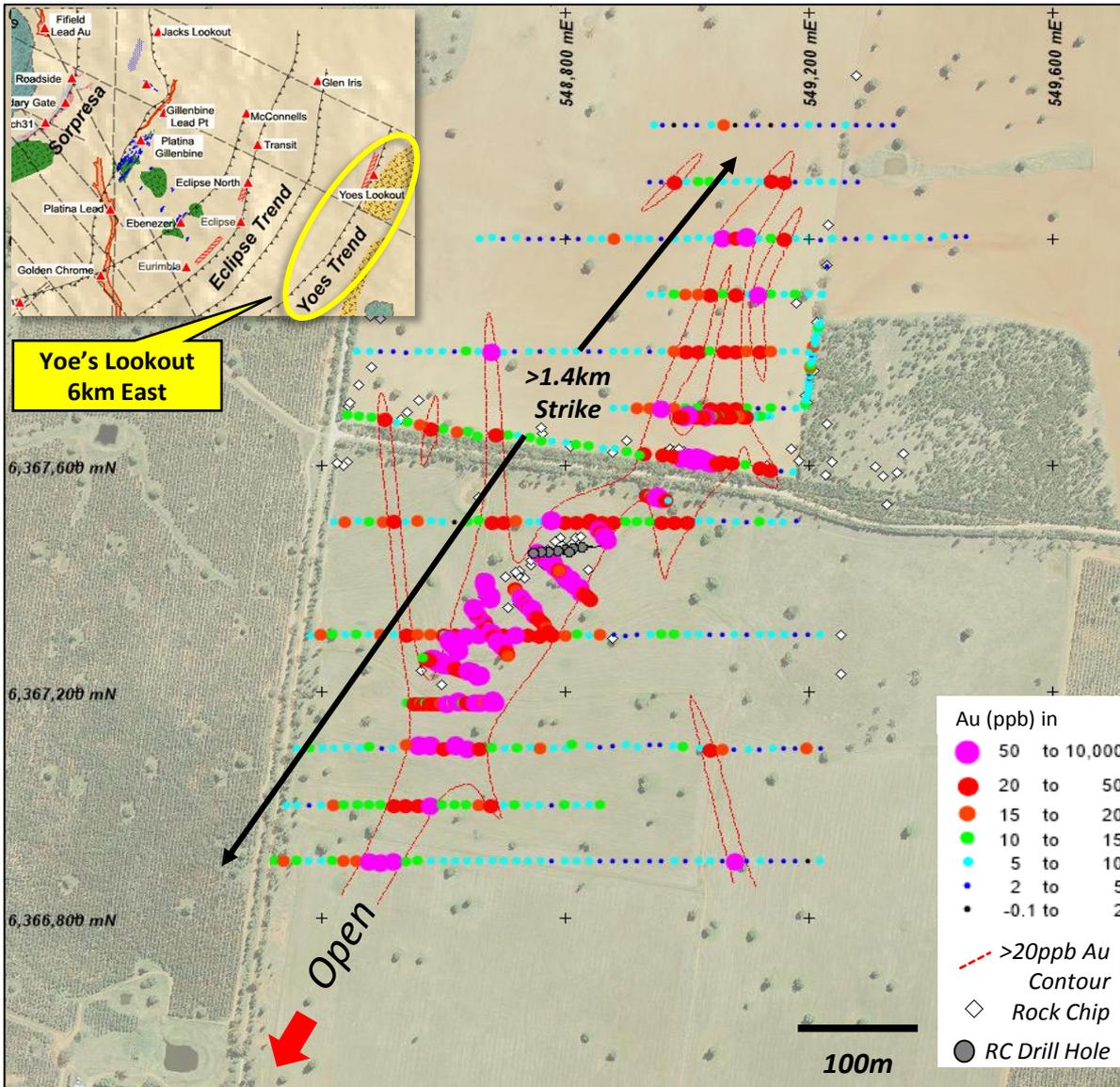
- ❑ >800m long Au-Cu-(±Bi-Ag-Ba) auger anomaly (>20ppb Au, up to **550ppb Au & 1,650ppm Cu**).
- ❑ Up to **18.7g/t Au** in rock chips.
- ❑ Interpreted as a Au-Cu rich epithermal lode.
- ❑ Open to the south.

Target 3

- ❑ Linear 400m long Au – As ± Zn auger anomalies.
- ❑ Interpreted as Au-As-Zn rich epithermal vein structures.
- ❑ Open in multiple directions.



Regional Exploration – Yoe’s Lookout

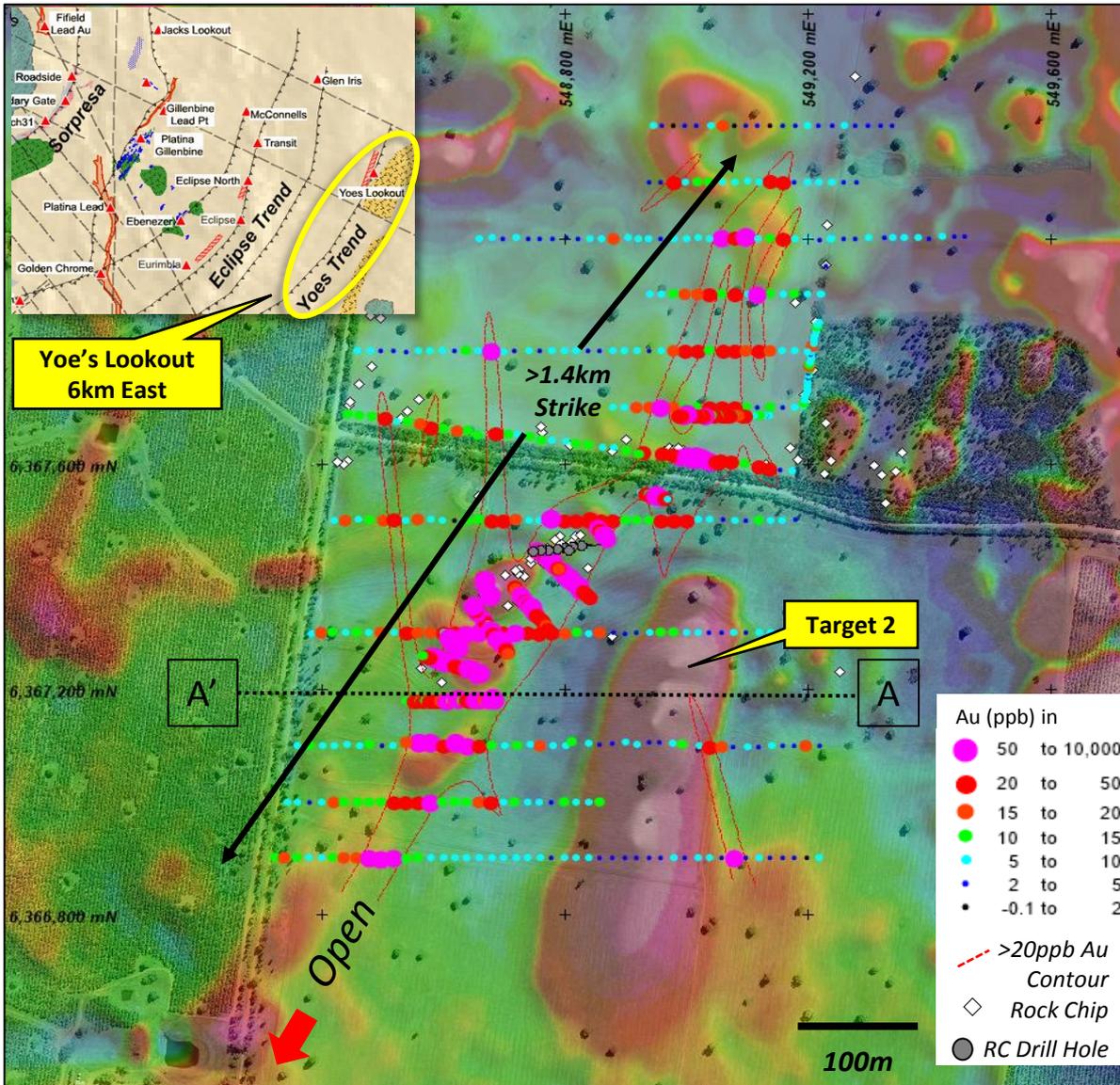


Two robust emerging targets:

- ❑ **Target 1:** Structurally controlled, sediment (BIF) / greenstone hosted, orogenic gold target.
- ❑ >1.4km long, coherent gold in auger (>20ppb Au, up to **1.62g/t Au**) anomaly - open to the south,
- ❑ Up to **3.4g/t, 2.3g/t Au** rock chips.
- ❑ Quartz-pyrite stockwork veining in banded silica - magnetite - hematite - pyrite quartzite / low grade BIF horizons.
- ❑ Single RC drill traverse returned 9m @ 0.52g/t Au, Incl. 2m @ 1.6g/t Au.



Regional Exploration – Yoe’s Lookout

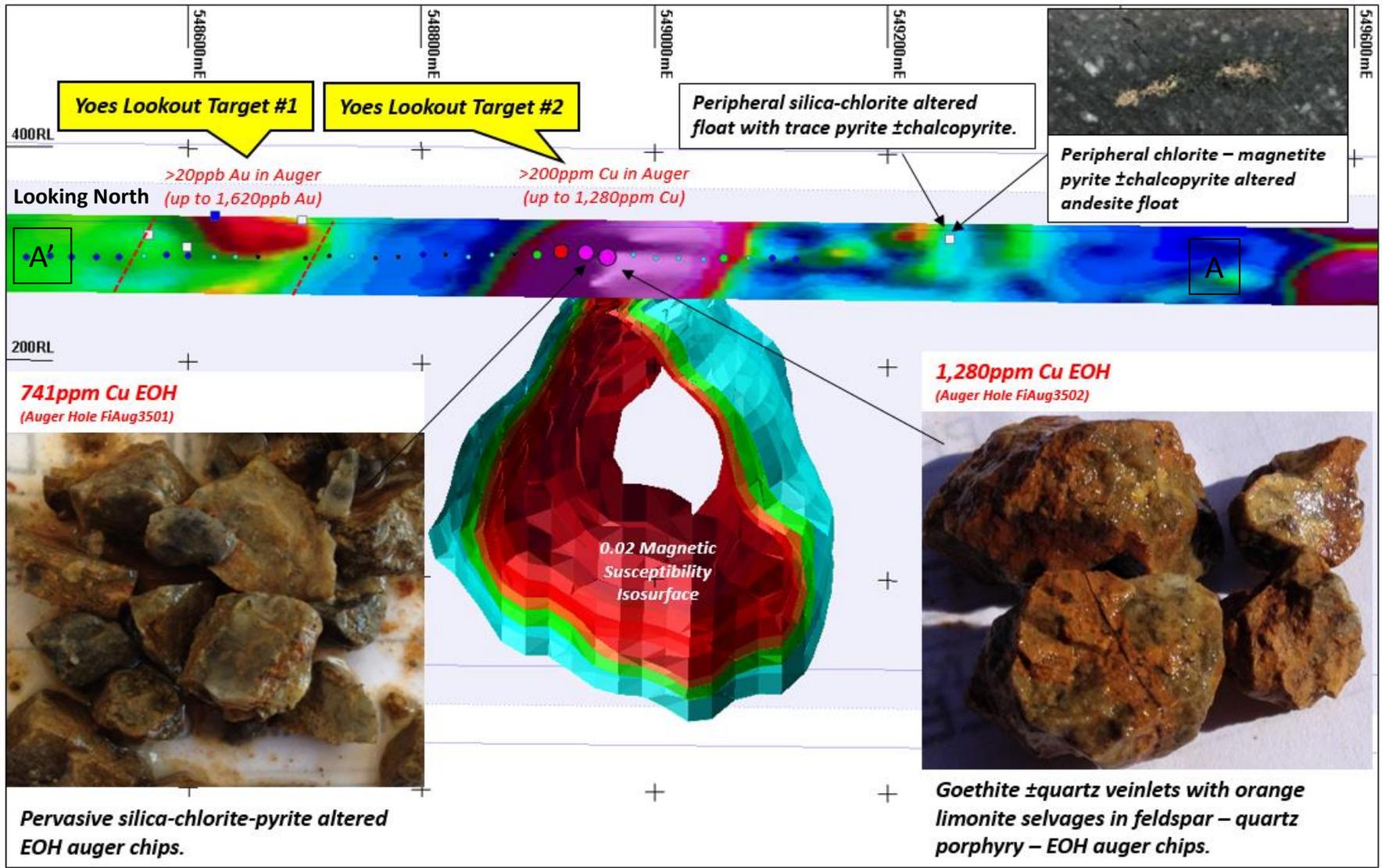


Two robust emerging targets:

- ❑ **Target 2: Possible 'blind' Skarn / Porphyry Cu-Au target or 'blind' BIF hosted orogenic gold target**
- ❑ Linear magnetic high anomaly (800m x 200m), associated with up to **200m** wide zone of pervasive silica alteration,
- ❑ Peripheral skarn float with sulphide - magnetite. Peripheral tonalite intrusive float.
- ❑ Up to 59ppb Au & **0.13% Cu** in auger.
- ❑ Magnetic Inversion modelling completed:

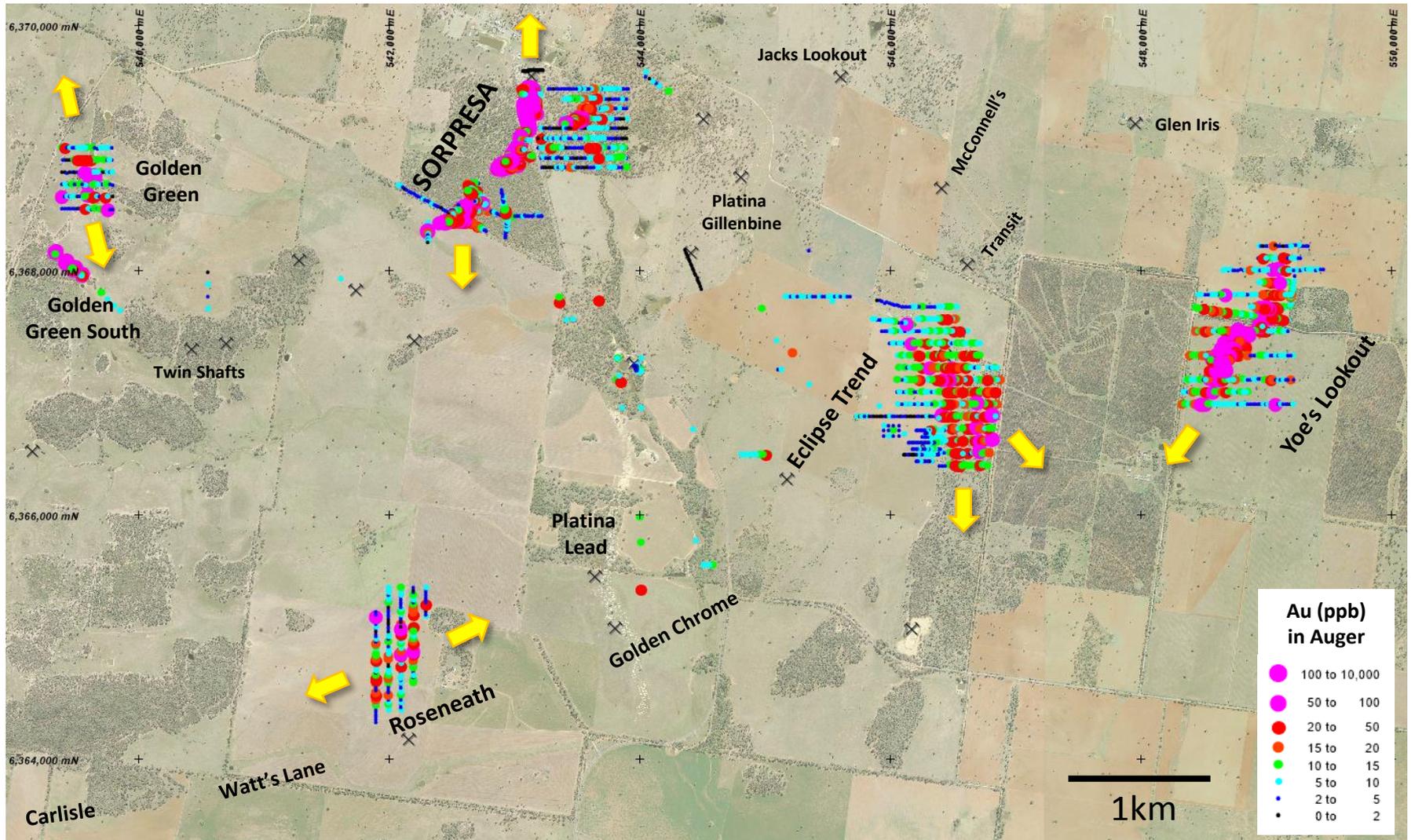


Regional Exploration – Yoe’s Lookout





Regional Exploration – Current Auger





Why Rimfire...

❑ Fifield District – The Right Address for Discoveries

- ❑ Crustal Scale Structural Intersections,
- ❑ Multi-commodity (Gold, Silver, Platinum and Base Metal),
- ❑ Multiple Deposit styles,
- ❑ Large Scale Mineralization Footprint 6km radius of Sorpresa,

❑ Totally Under Explored - High Grades at Grass Roots

- ❑ Outcropping gossans and high grade gold rock chips,
- ❑ Systematic and staged exploration on multiple fronts is delivering results.

❑ Countercyclical Exploration Strategy – achieving more for less – Stand Out.

❑ Game Changers Abound ...

- ❑ Sorpresa Maiden Resource – Gold and Silver,
- ❑ Regional Prospect Pipeline **growth** in Gold and Base Metal, “high order anomalies”
- ❑ Drill Ready & Robust prospect pipeline,
- ❑ JV opportunities?





THANK YOU



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