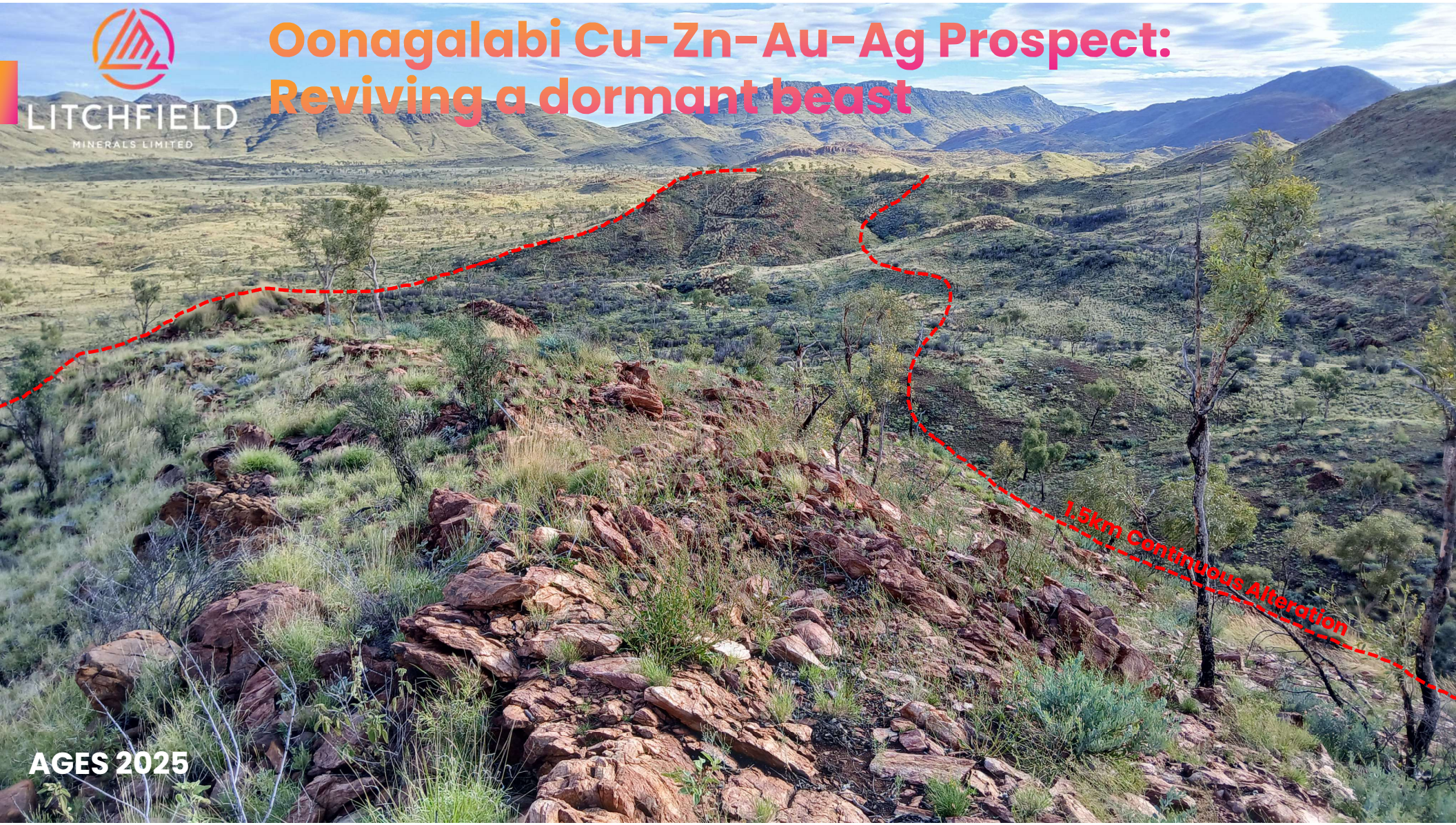
LITCHFIELD
MINERALS LIMITED

Oonagalabi Cu-Zn-Au-Ag Prospect: Reviving a dormant beast



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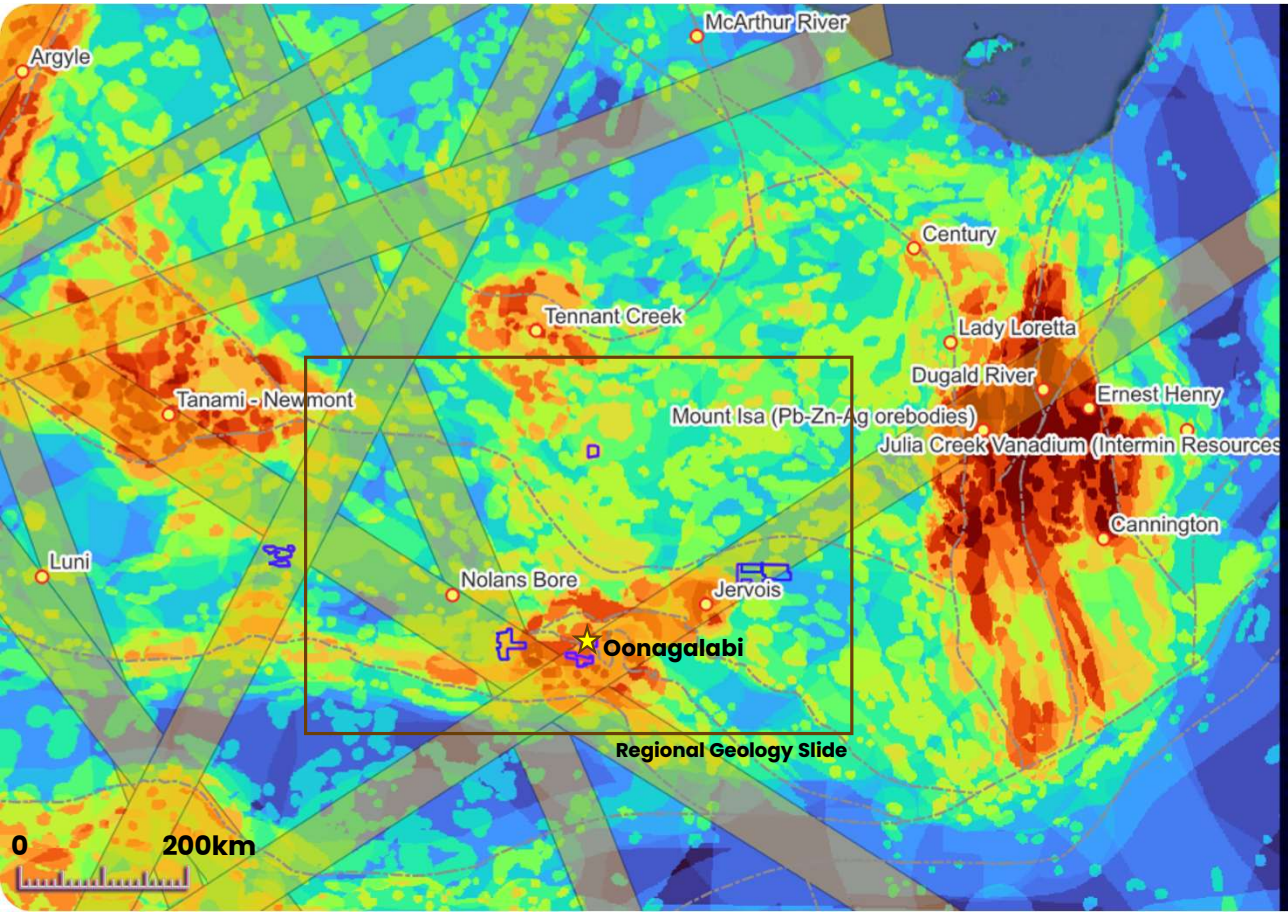
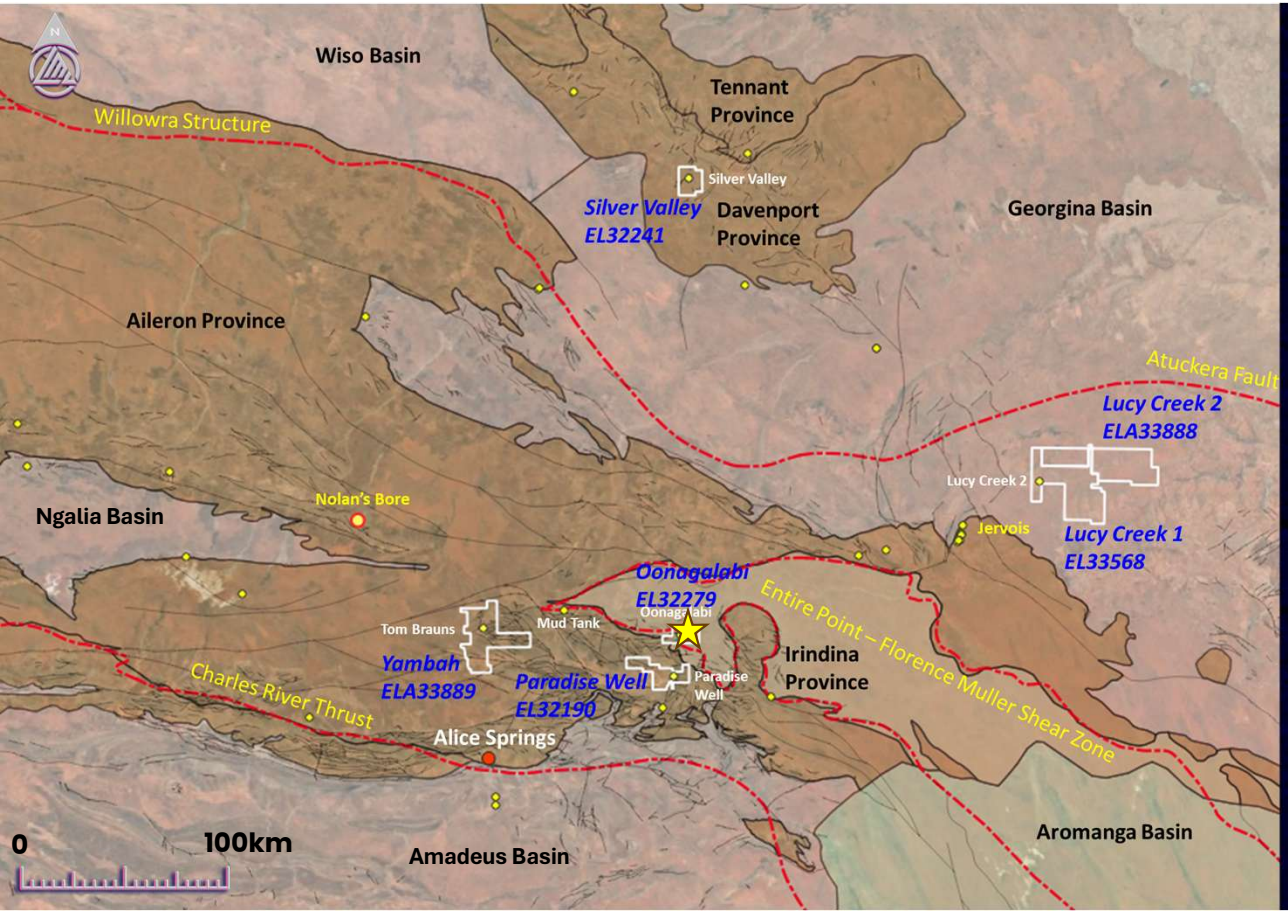
Continental-Scale Prospectivity



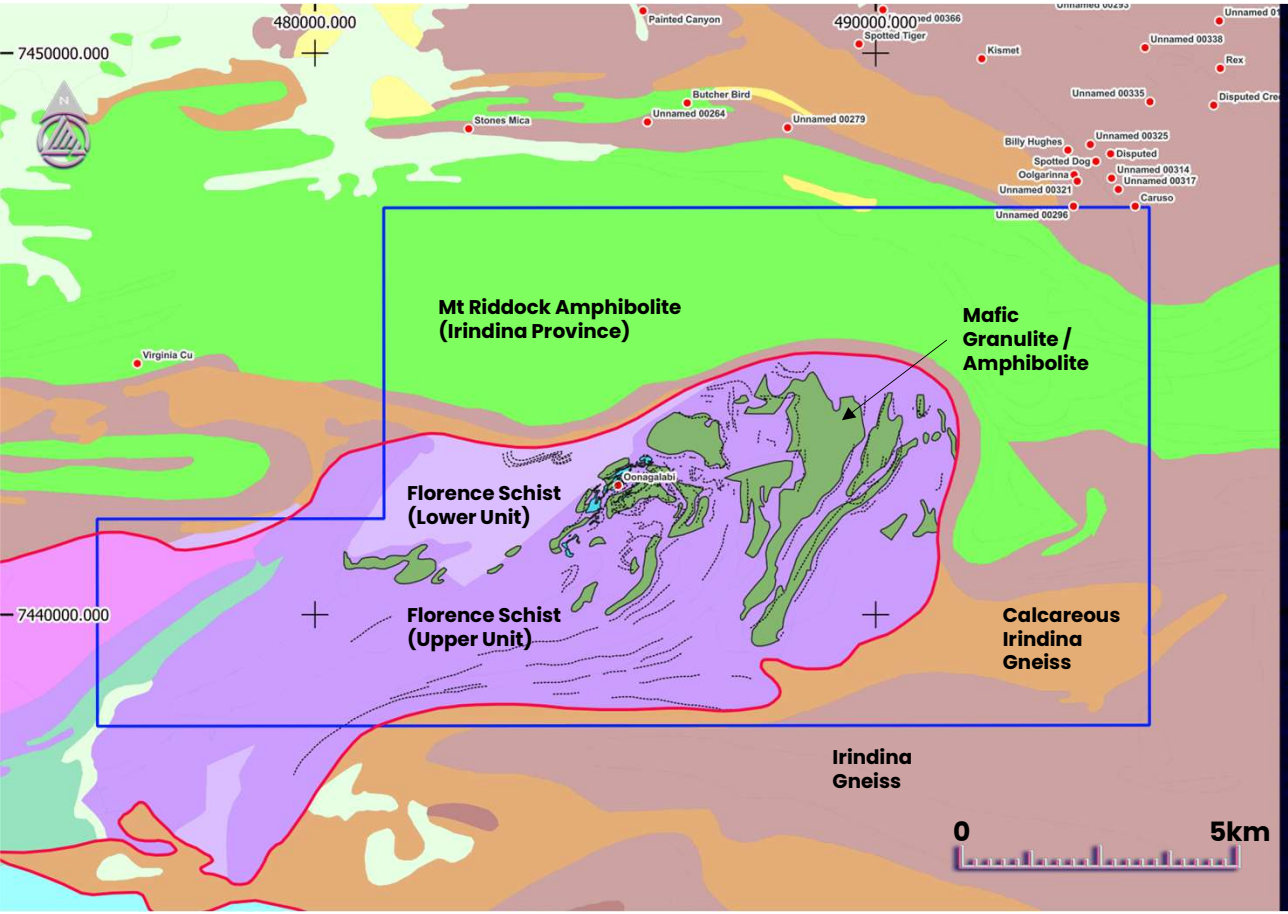
- Geoscience Australia's IOCG mineral potential map defines the Oonagalabi area as having moderate potential to host an IOCG system
- Transected by continent-scale gravity lineaments
- Oonagalabi is adjacent to a major crustal structure (Irindina – Aileron Province boundary)
- Deep crustal structural architecture is common to many Australian Tier 1 deposits

Regional Geology



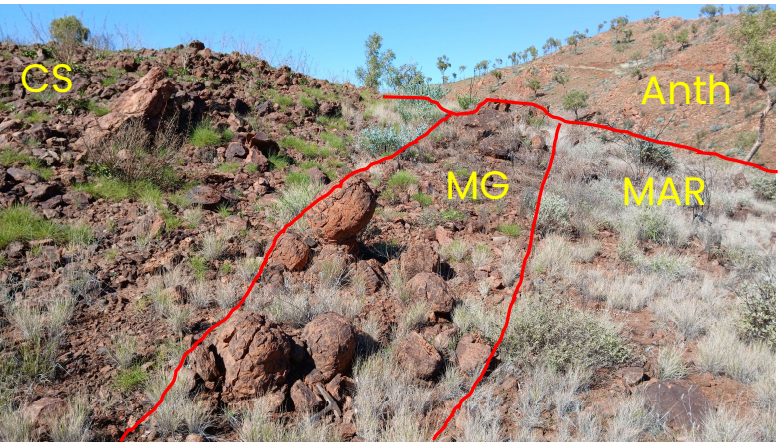
- Located 125km northeast of Alice Springs
- Hosted within metamorphosed Palaeoproterozoic rocks of the Strangways Metamorphic Complex (Aileron Province)
- <1km south of the Irindina – Aileron Province structural boundary
- Directly along strike from the Mud Tank and Nolan's Bore Carbonatite-hosted REE systems
- Analogous to Jervois, located 150km to the northeast (27.45Mt @ 1.87% Cu, 0.24 g/t Au, 25.3 g/t Ag, M+I)

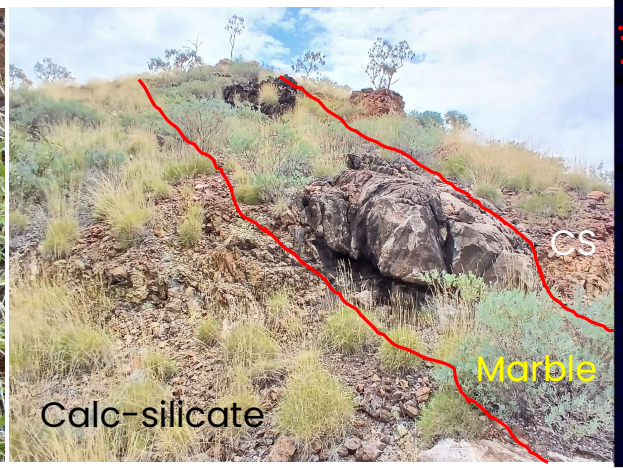
Oonagalabi Domain Geology



- Located within the Oonagalabi Domain (OD) of the Strangways Metamorphic Complex (SMC)
- <1km from Irindina / Aileron Province boundary
- The OD comprises volcano(?)-sedimentary package dominated by quartzo-feldspathic sediments (1,764.8 +/- 4.2Ma) with rare carbonates (Oonagalabi host rocks) and intruded by prolific dolerite swarm
- Metamorphosed to upper amphibolite / lower granulite facies (1730Ma SMC)
- Structurally complex system dominated by northeast trending Oonagalabi Anticline
- Stratabound, disseminated sulphide-type mineralisation (sedex / carb replace / skarn)

Oonagalabi Formation: Typical Outcrop Occurrences

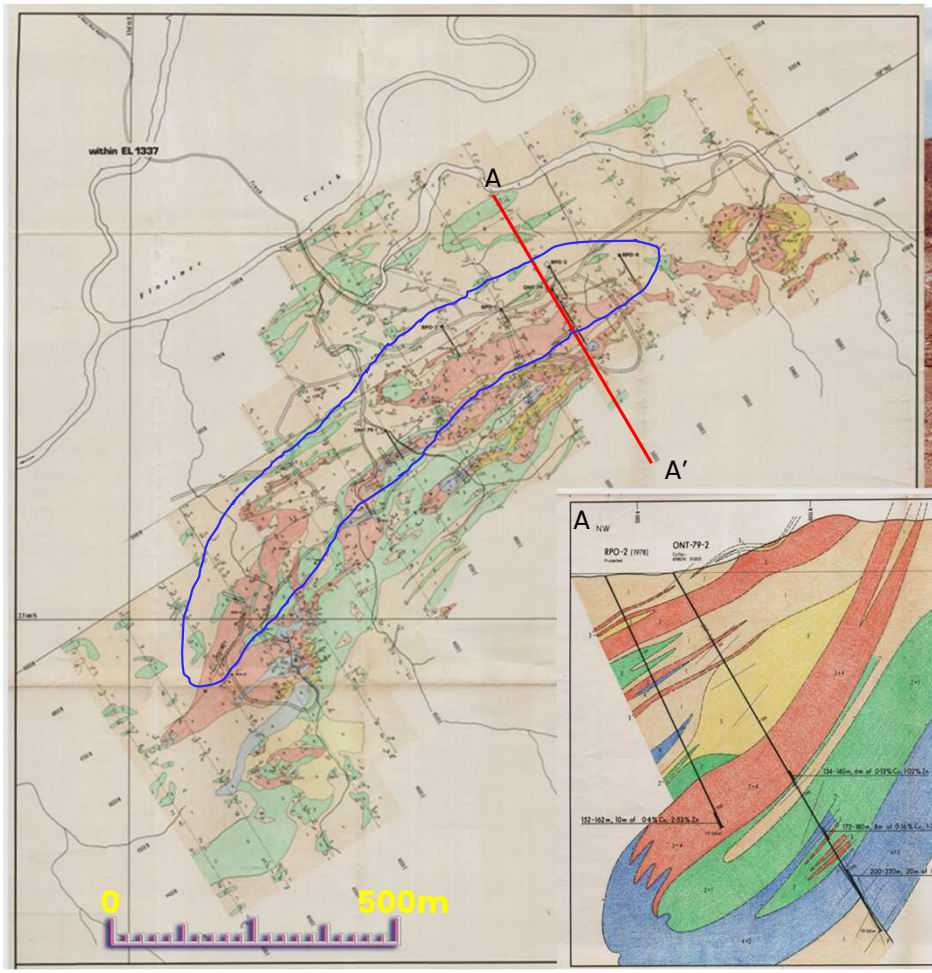


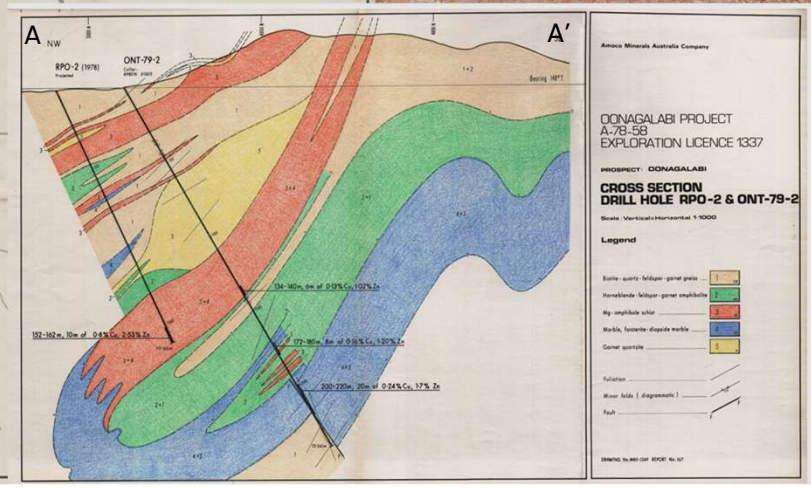


Mineralized

- Garnetiferous quartzite
- Magnetite quartzite, mag-garn-spinel rock
- Marble, variably forsteritic, diopsidic
- Mg Amphibolite schist: dominantly anthophylilite +/- cummingtonite, cordierite, phlogopite, enstatite, diopside, quartz
- Granular textured rocks intergrading with Mg amphib schist: dominantly enstatite-diopside w/ minor olivine, calcite, spinel
- Phlogopite-rich schist
- Pre-meta^{m} alt^{n} assem comprised of central qtz–talc ± carb (meta^{m} to mass Mg amph/calc-sil) and peripheral qtz–chl ± mica–carb (metamorphosed to quartz–garnet)

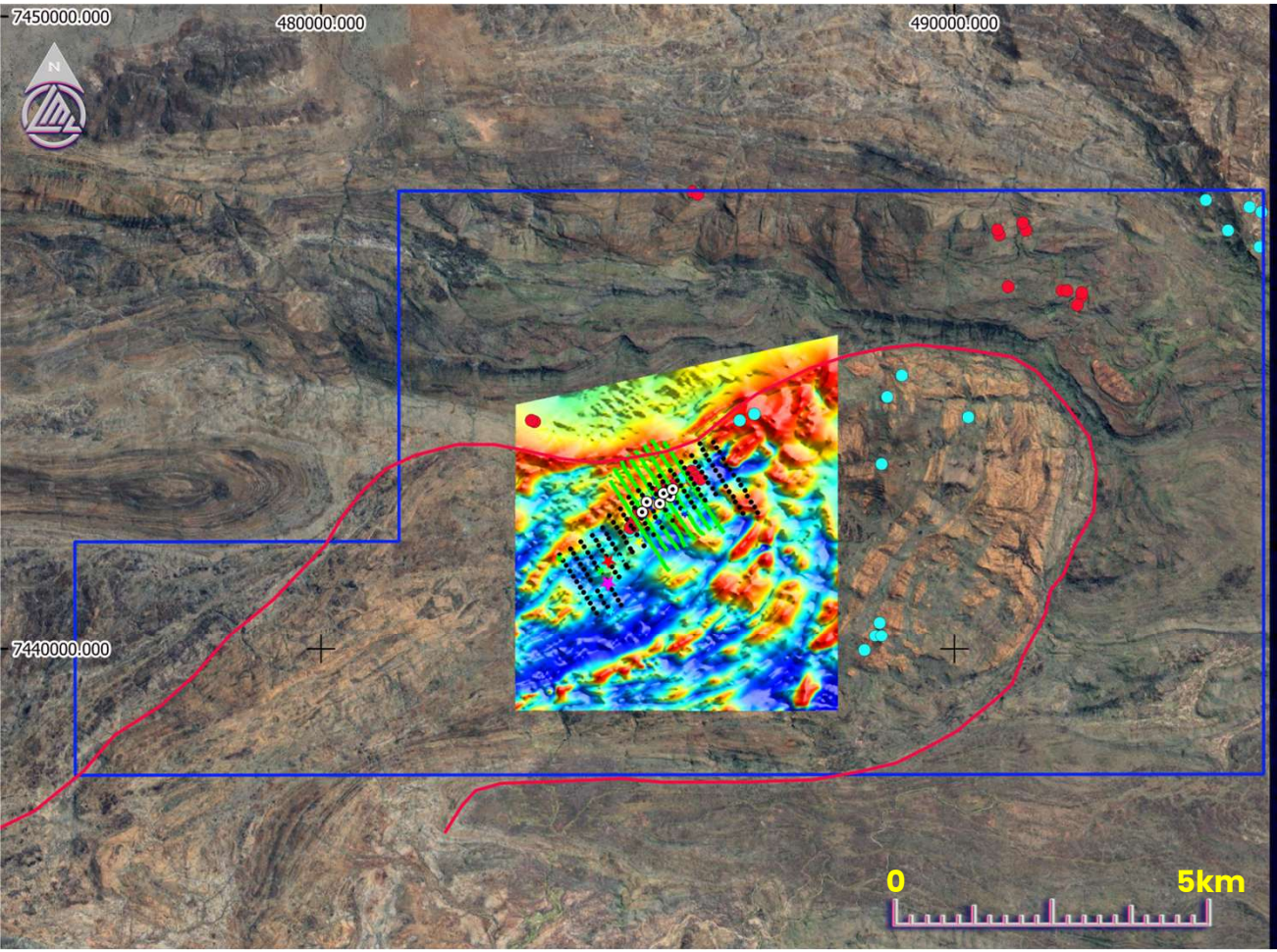
Historic Exploration



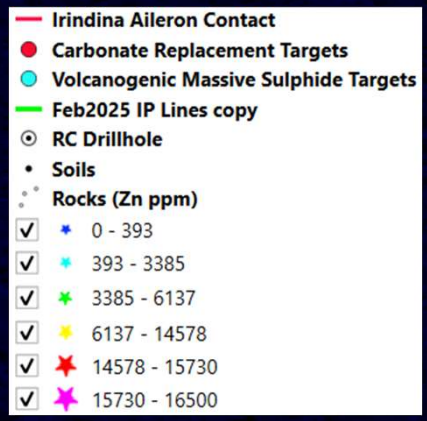


- Russgar Minerals (1970-1974): regional mag-rad survey, VLF_EM survey, ground magnetic survey, single line resistivity traverse, trial IP and 14 drillholes
- Kinex / Amoco / D'Dor Mining NL (1979-1983): photo-interpretation, soil/rock chip sampling, pole-dipole IP, drilling (8 holes)
- Clarence River Group (1992-2020): extensive garnet exploration / ML's
- Silex (2008-2010): pole-dipole IP, single diamond hole
- In total, 23 drillholes covering 1,300m strike, average 79m depth
- Average intercept: 13.1m @ 0.44% Cu, 0.96% Zn, 0.08% Pb[1]

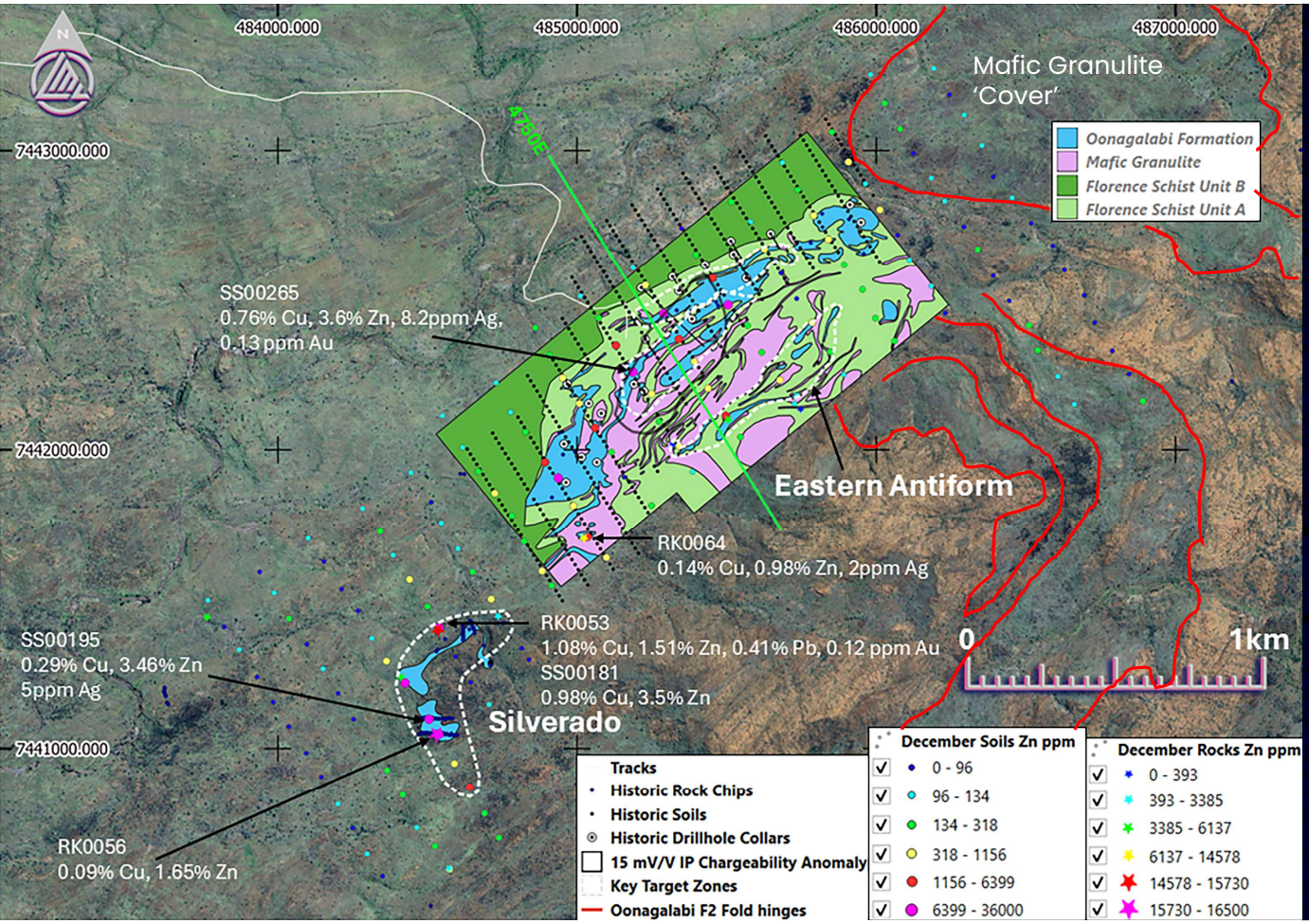
Litchfield Exploration: Succeed Quickly or Fail Fast



- Purchase from Comet Resources (Oct 2024)[1]
- Sentinel-2 hyperspectral analysis (Oct 2024)[2]
- Soils (163), Rocks (13), Mapping (Dec 2024)[3]
- 50m drone magnetics (Dec 2024)[2]
- Pole-Dipole IP (8 x 1.65km lines, Feb 2025)[4]
- 1,646m RC drilling (6 holes, March/April 2025)[5]

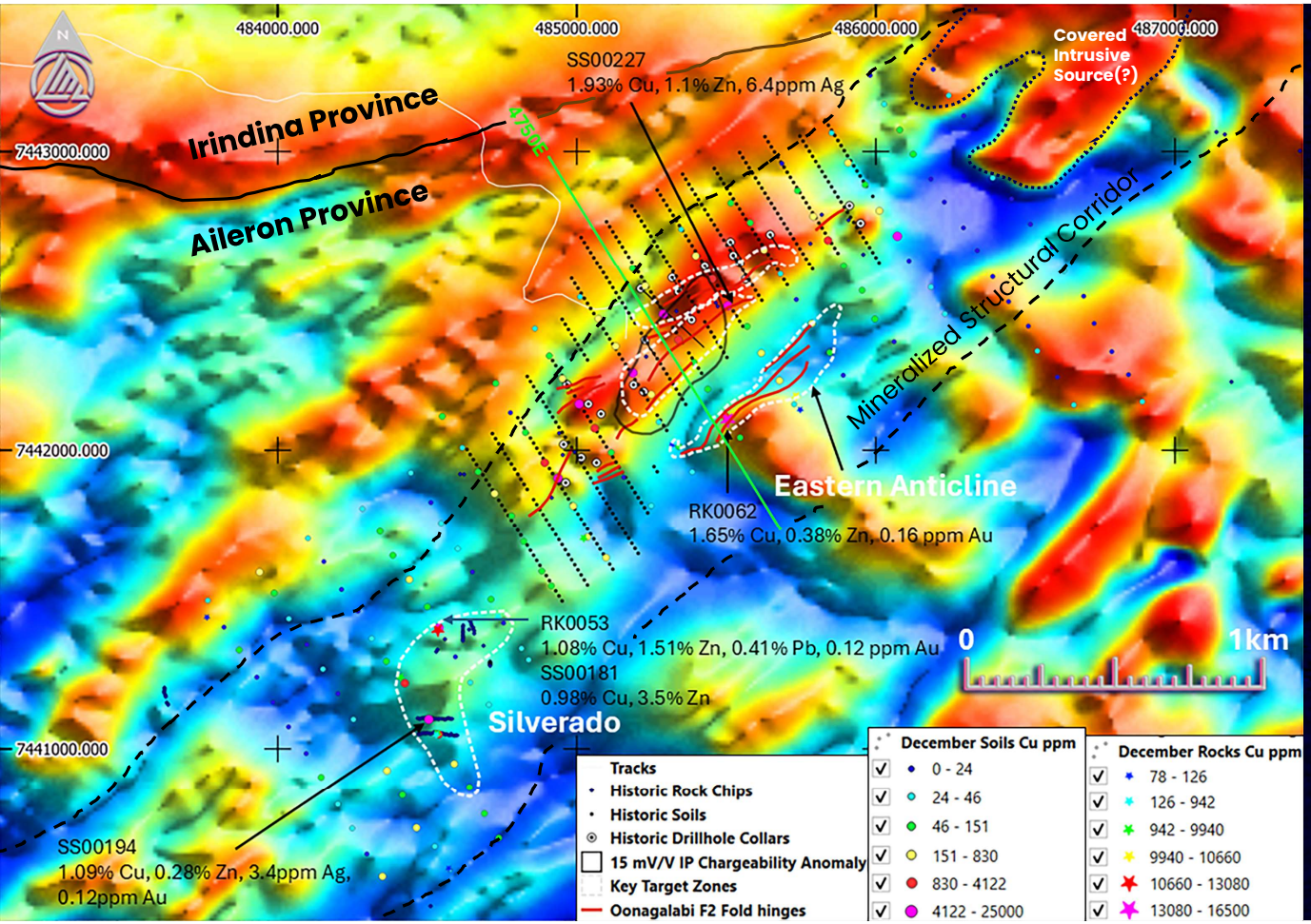


New Data: Multi-Element Soils and Rocks



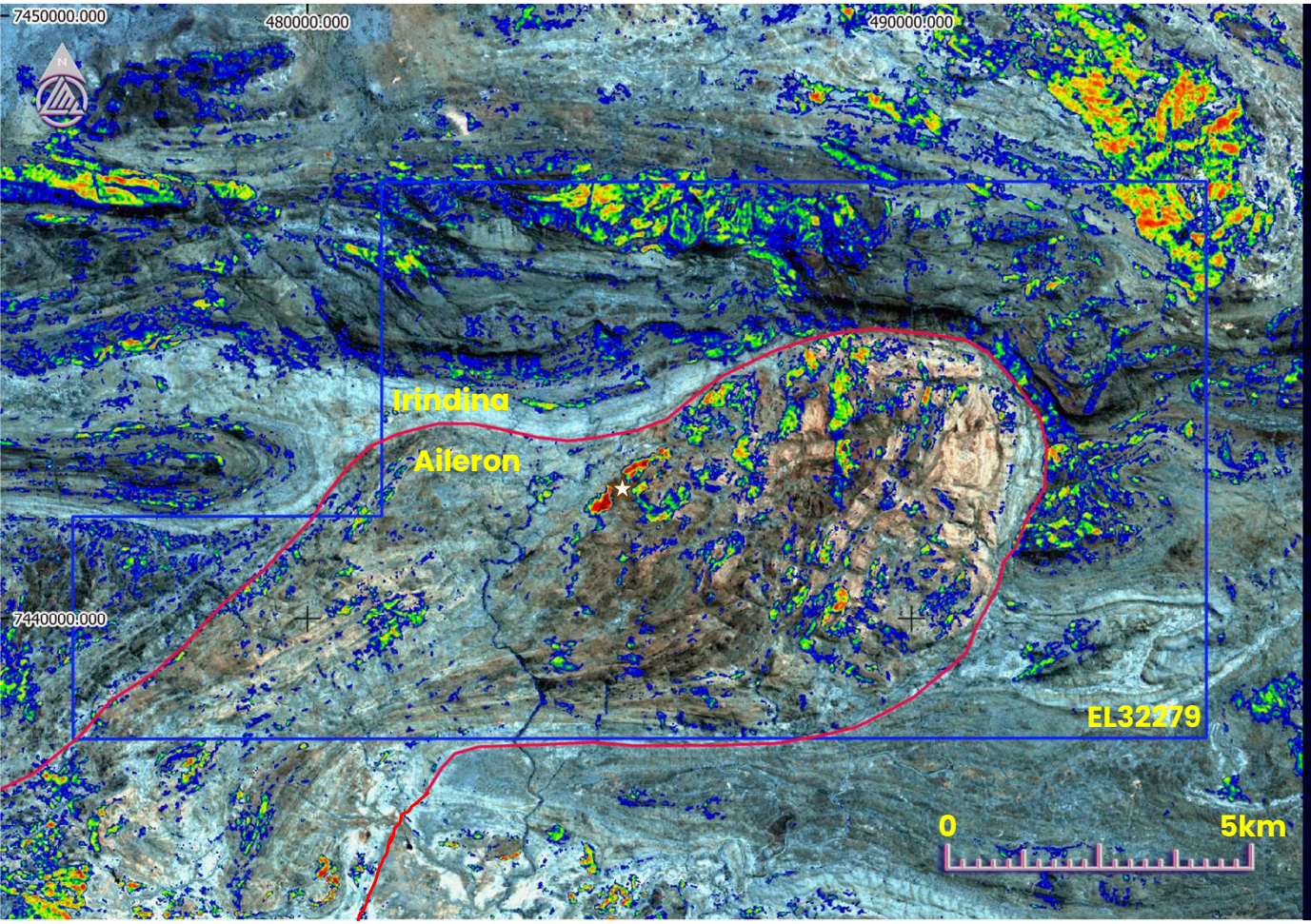
- Mineralisation is hosted exclusively within the Oonagalabi Formation: marble, calc-silicates and garnet quartzite
- Oonagalabi Formation has 3km discontinuous strike, 1.5km continuously exposed strike, 5 – 40m thick, +1km unfolded width
- Soil geochemistry defines a 1km strike of +0.4% Cu, +0.4% Zn in central zone[3]
- Cu-Zn-Pb-Au-Ag mineralisation has associated pathfinder anomalism of W, Sn, In, Cd, Mo, Bi, Co
- Florence Schist has +400ppm TREO (possible REE scavenging in garnet)
- Oonagalabi Formation is REE depleted

New Data: 50m Drone RTP Magnetics



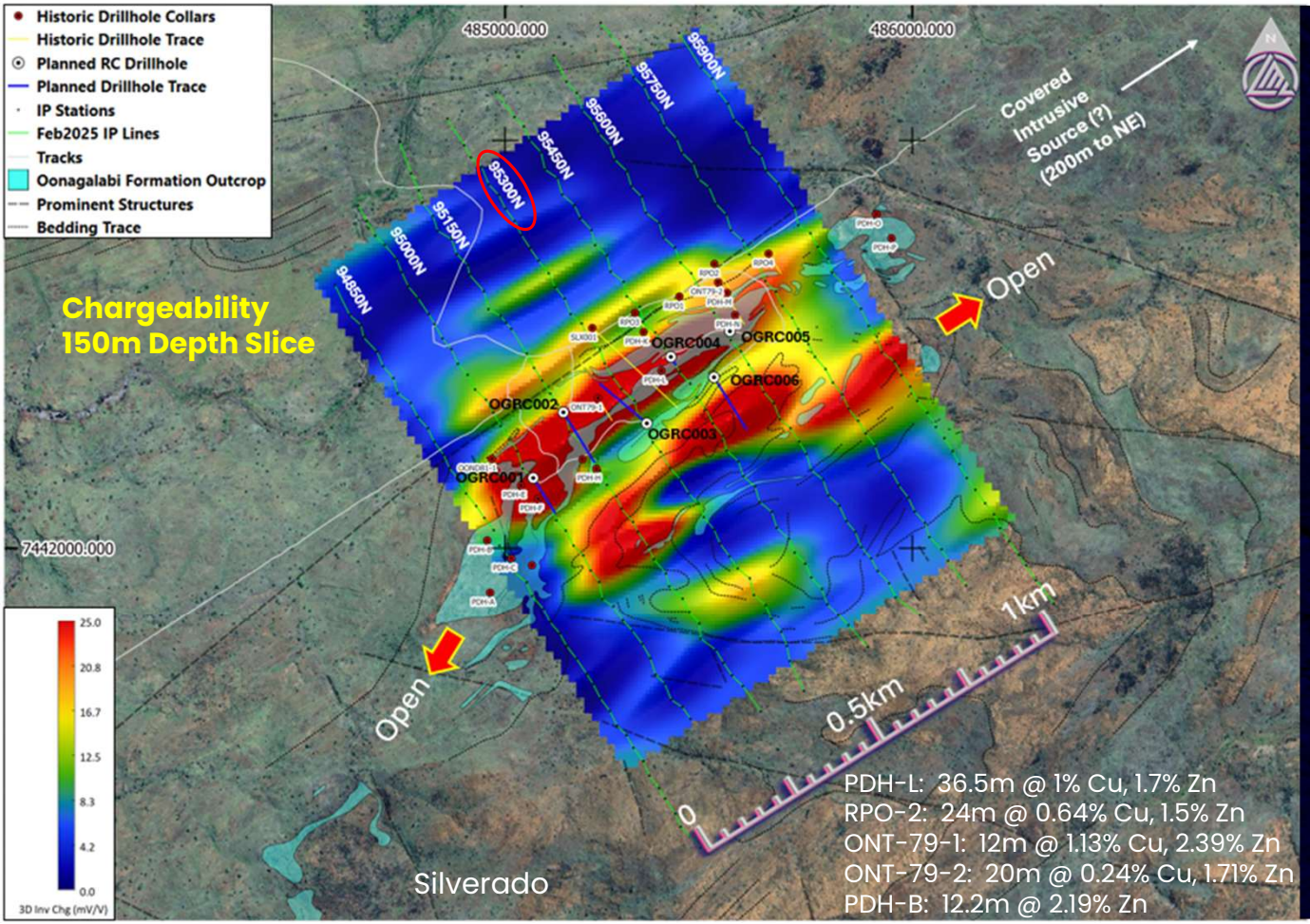
- Oonagalabi is located less than 1km from the Irindina – Aileron Province tectonic boundary (thrust contact)
- High resolution data[2] defines discrete magnetic anomaly along western flank of deposit: Jervois-style high grade magnetite-sulphide remobilized breccia?
- Large, 'blind', pipe-like magnetic body located 1km to NW of Oonagalabi: completely obscured / covered by Mafic Granulite / Florence Schist
- NE strike cross-cuts folded Oonagalabi Anticline mafic granulite and Florence Schist
- Potential intrusive/heat/metal source, or undiscovered mineralized lodes

New Data: Sentinel 2 Hyperspectral data



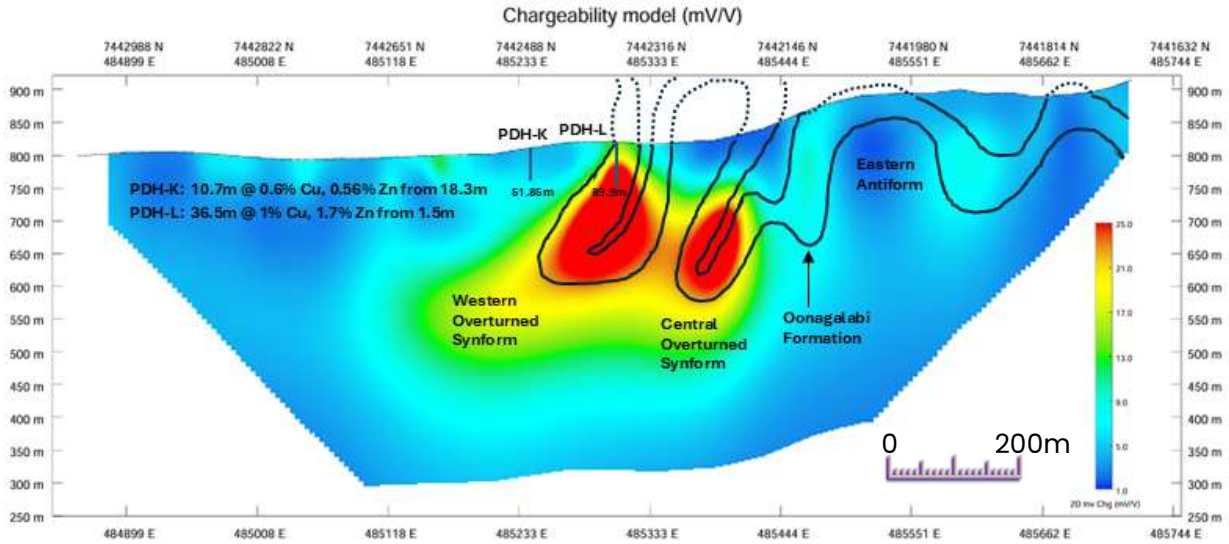
- Multivariate statistical classifier trained on Cu anomalous soil geochemistry
- +20 exploration targets
- CO_2 and CH_4 define outcropping Oonagalabi Formation
- Maps out prospective stratigraphy

New Data: Pole - Dipole IP



- New Pole-Dipole IP survey has defined an extensive, highly chargeable anomaly: two parallel zones, +1km strike, +500m deep, +20mV/V[4]
- Western IP anomaly has strong spatial association with Oonagalabi Formation Outcrop, Central anomaly is mostly 'blind' with little surface expression: potentially doubling size of system
- System is open to NE and SW: Central anomaly extends under mafic granulite 'cover', 1km untested Oonagalabi Formation to the southwest
- Almost all historic drilling outside of +20mV/V chargeability anomalies
- 16 of 22 historic holes averaged 13.1m @ 0.44% Cu, 0.96% Zn, 0.08% Pb[1]

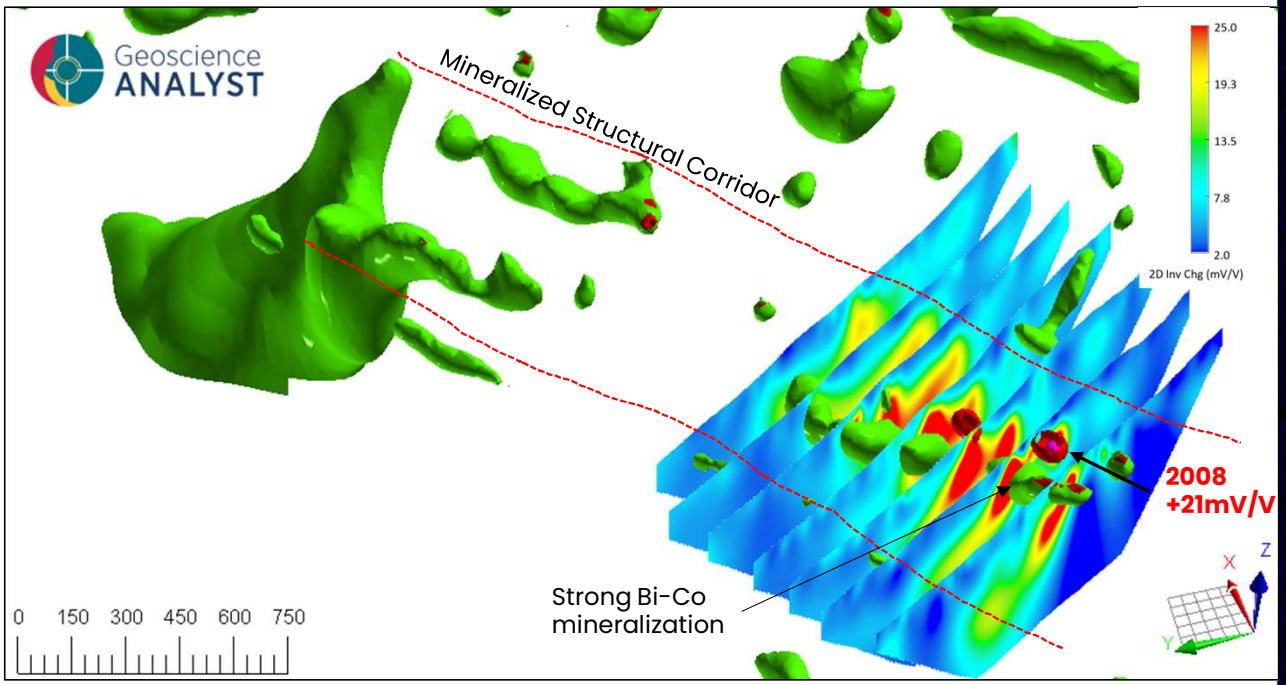
Complex Folding: Multiple Mineralized Lodes



Section 4750E (old grid) / 95300N (new grid)

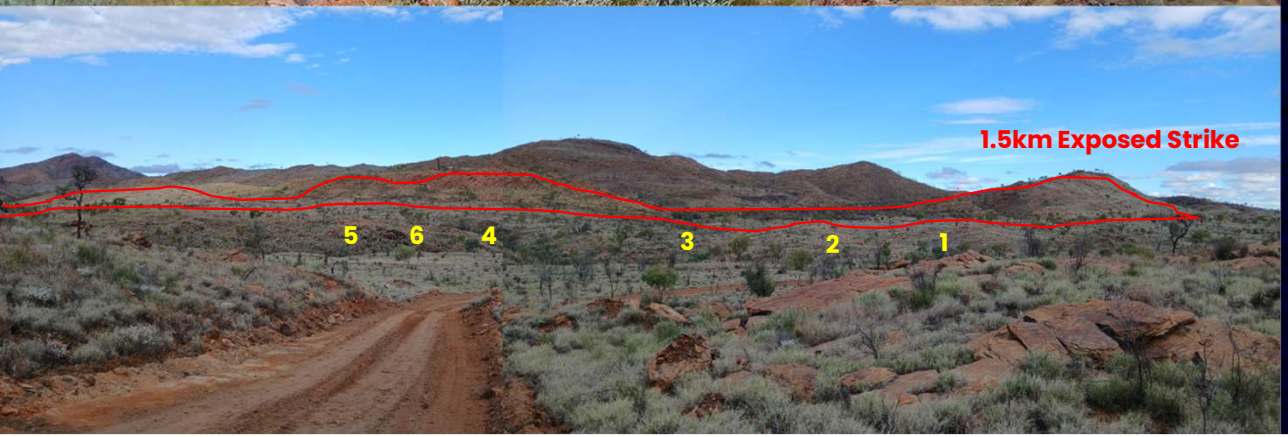
- High chargeable zones restricted to Oonagalabi Formation
- Interpreted, two sub-parallel, overturned synforms (Western, Central)
- Central synform has little surface expression (blind), increases tonnage potential, highlights importance of geophysics to improve sub-surface 'visibility' along 3km mineralized trend
- Pre-folding width of Oonagalabi Formation is +1km (Western, Central, Eastern fold closures)
- Most historic drillholes missed +20mV/V chargeability anomalies, focused on outcropping peripheral anthophyllite alteration

New Data: Makes New Opportunities



- 2025 IP survey defined significantly larger chargeable anomaly compared to 2008 survey
- 2025 drone magnetics defined strong magnetic anomaly down western flank of system
- Strong magnetite Bi-Co +/-Au(?) mineralisation (pXRF): overprints anthophyllite-Cpy-Sph mineralisation = multiple mineralizing events[2,3]
- Large, pipe-like magnetic body +1km to NE is potentially linked to newly identified magnetite-rich mineralisation, possible heat/metal source if Oonagalabi Cu-Zn is skarn-related

Summary and Forward Plan



- IP has successfully defined a potentially large disseminated sulphide system
- Historic and 2025 drilling has confirmed the sulphide bearing nature of the IP chargeability anomalies
- New magnetite-Bi-Co rich mineralisation style identified along western flank, potential gold-rich mineralization – IOCG Potential
- New magnetic data shows potential link to large magnetic pipe-like structure to NE
- Tenement-wide VTEM survey planned to assess potential for high-grade sulphide feeder structure and/or remobilized sulphide breccias ala Jervois
- Ground EM and Ground Gravity
- Phase 2 drilling

Questions

Sunrise over Harts Range

REFERENCES

- 1. Litchfield ASX Announcement 10th October 2024. Litchfield Secures Strategic Copper – Gold Portfolio NT Update, Appendix 1
- 2. Litchfield ASX Announcement 24th January 2025. Major Mineral System Potential Oonagalabi JORC Update, Figure 5
- 3. Litchfield ASX Announcement 29th January 2025. Outstanding Results Unveil Scale and Potential at Oonagalabi
- 4. Litchfield ASX Announcement 5th March 2025. Major Discovery 1km Plus High Chargeability Target Found
- 5. Litchfield ASX Announcement 27th March 2025. Oonagalabi Drill Programme Commenced