



*“Focused on Delivering the Next  
Multi-Million Ounce Gold Resource”*

**The Windidda Gold Project**  
**Greenstone-hosted orogenic Au prospect**  
**Western Australia**

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# The Windidda Gold Project Overview

- In line with our strategy and focus on delivering the next multi-million ounce gold resource for our shareholders, on 2 January 2019 ECR Minerals plc [announced](#) that its 100% owned Australian operating vehicle Mercator Gold Australia Pty Ltd had applied for nine new exploration licences covering approximately 1600 square kilometres of the Yilgarn Craton east of the town of Wiluna, Western Australia.
- The application areas have been identified as a potential greenstone hosted orogenic gold exploration opportunity with significant potential to contain Archaean greenstones buried beneath what it is believed may be shallow cover.
- Archaean greenstones host many of Western Australia and the world's most prolific gold deposits.
- Previous exploration within the project area has targeted base metal and manganese deposits within the cover sequences only.
- Identified gravity and magnetic anomalies interpreted to be hosted in greenstone units beneath the cover have not been targeted by previous exploration.
- ECR's exploration concept is to use aircore drilling across gravity-magnetic anomaly targets to enable rapid assessment of potential for gold mineralisation.
- The under-cover greenstone gold exploration model has been successfully tested by Greatland Gold (LON:GGP) at its [Ernest Giles](#) project located approximately 125 kilometres east of ECR's Windidda project.

## Exploration Potential of the Yilgarn Craton

- The Yilgarn Craton is host to around 30% of the world's known gold reserves.
- Archean greenstone belts and associated granitic rocks comprise some of the most diverse rock types on the Earth's surface and were formed during the early stages of the development of the planet.
- These Archean greenstone belts host major gold deposits such as Kalgoorlie, Kambalda, Mount Magnet, Boddington, Laverton and Wiluna.
- These form linear belts of mafic, ultramafic and felsic volcanics, intercalated with sedimentary sequences, and have been deformed and metamorphosed. The mode of occurrence of the gold mineralisation tends to be small to medium-sized structurally controlled lodes, shears, and quartz veins.
- A key feature beneath many of the region's gold deposits are granite-cored domes at a range of scales. These provided an architecture that focused fluid metals into the upper crust's depositional sites.
- In addition to the Yilgarn Craton containing some 30% of the world's known gold reserves, it also hosts approximately 20% of the world's nickel reserves, 80% of the world's tantalum reserves, and considerable iron ore, copper, zinc and minor lead reserves.
- The Yilgarn Craton is Australia's premier mineral province. It attracts more than half of Australia's minerals exploration expenditure, and produces two thirds of all gold and most of the nickel mined in Australia.



# Windidda Gold Project





# Windidda Gold Project





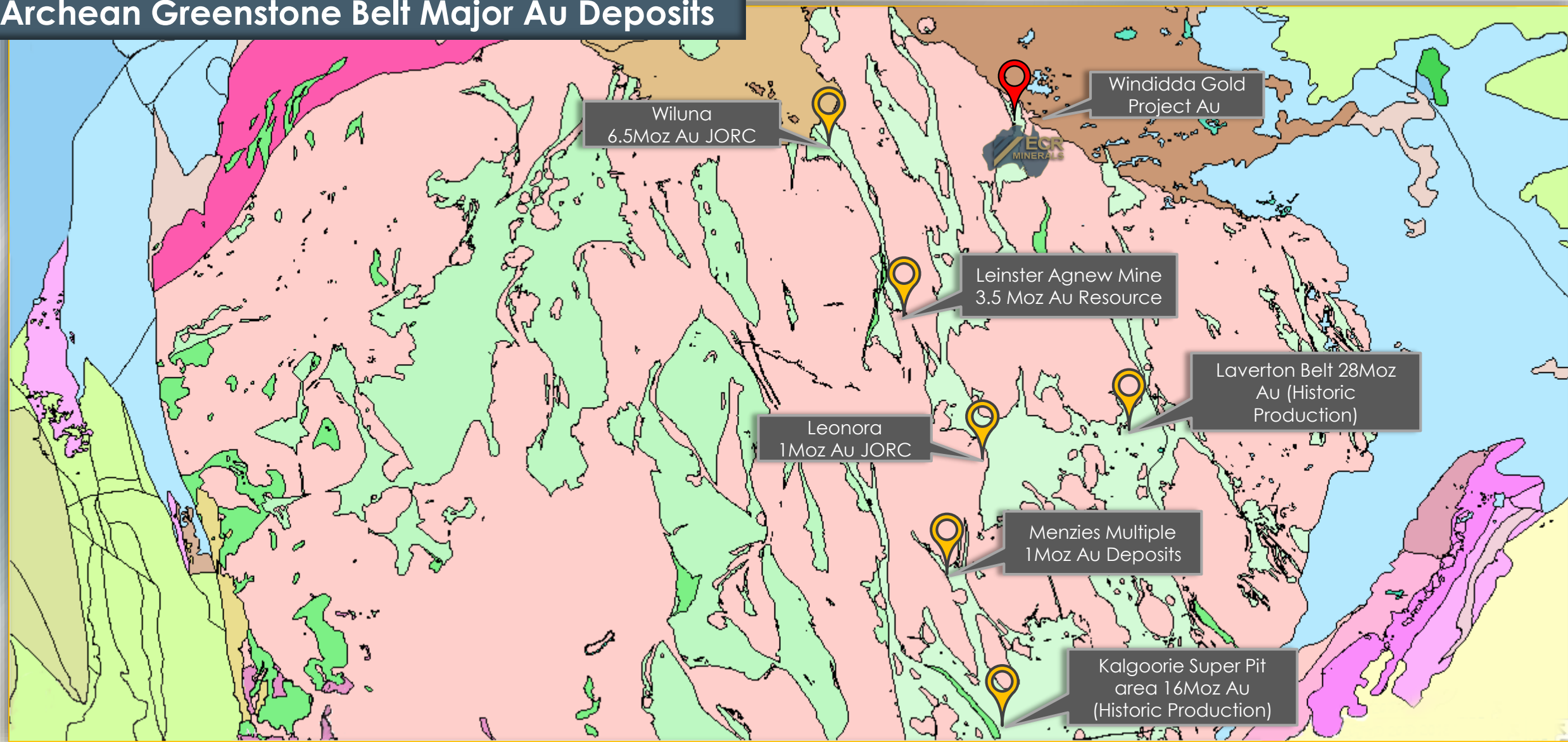
# Windidda Gold Project

1. E38/3366 214 sq km
2. E38/3367 104 sq km
3. E38/3368 110 sq km
4. E38/3369 214 sq km
5. E38/3370 101 sq km
6. E38/3372 214 sq km
7. E38/3371 214 sq km
8. E38/3373 214 sq km
9. E38/3374 214 sq km

**All exploration licences  
are currently under  
application**



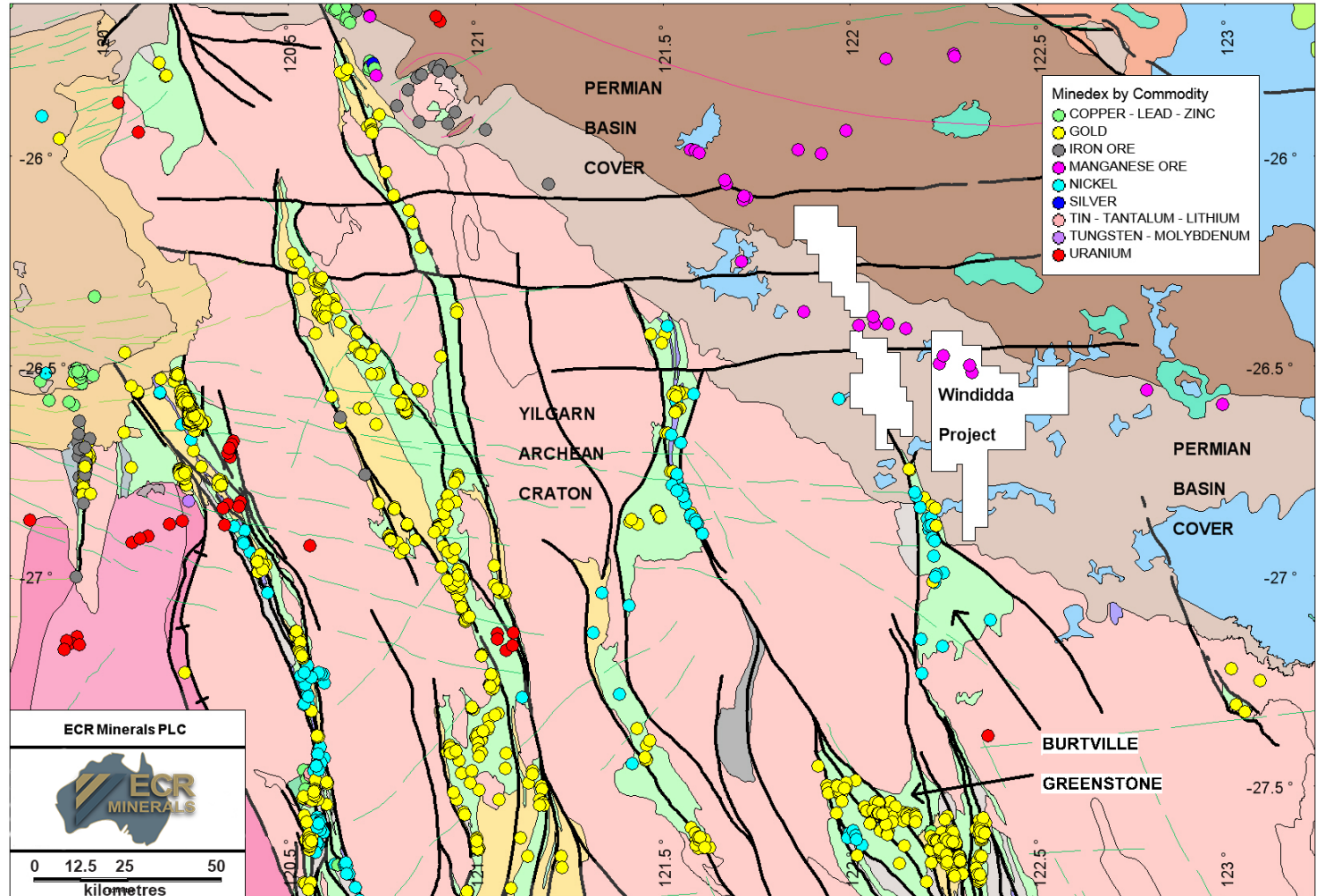
## Archean Greenstone Belt Major Au Deposits





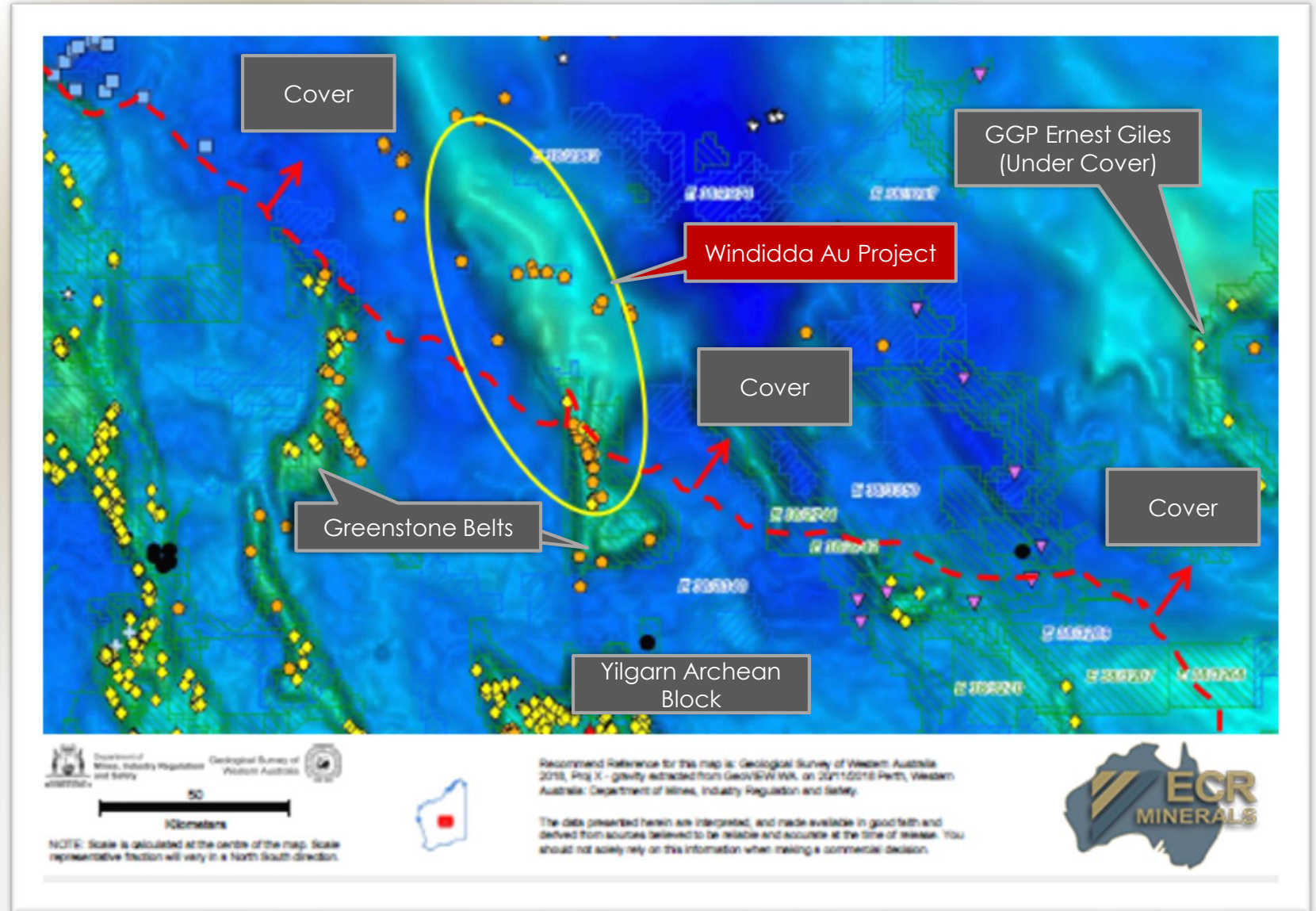
# Windidda Regional Geology

- The nine applications cover an area of approximately 1600 sq. km.
- The greenstone belts of the Yilgarn Craton include:
  - Southern Cross Greenstone Belt
  - Norseman-Wiluna Belt
  - Duketon Belt
  - Gullewa Greenstone Belt



# Windidda Regional Gravity

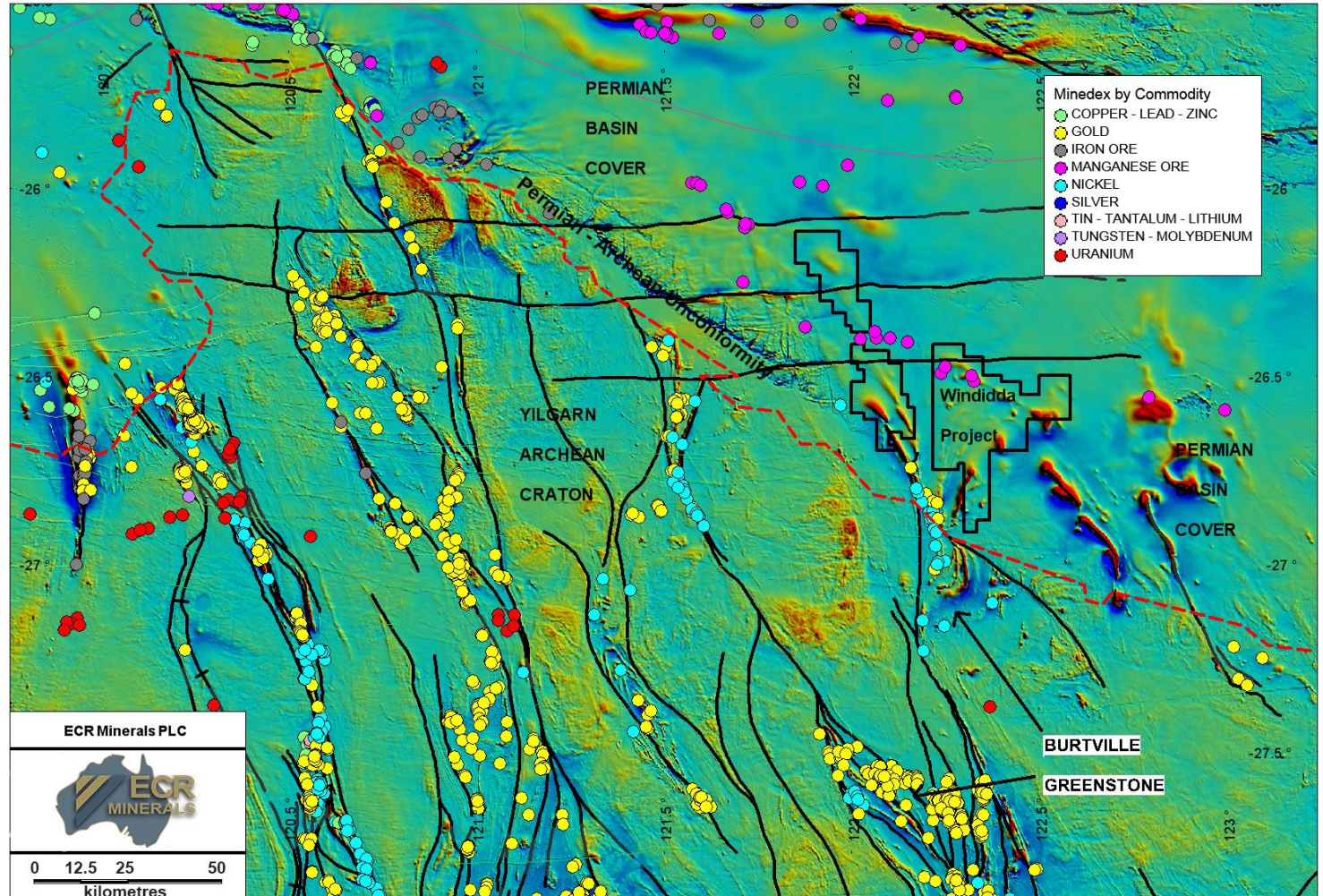
- In the future, multi-million ounce Au deposits will come from areas under cover that have not been subject to significant exploration at depth previously.
- The under-cover greenstone gold exploration model has been successfully tested by Greatland Gold (LON:GGP) at its Ernest Giles project located approximately 125 kilometres east of ECR's Windidda project.
- All greenstone gold deposits in Western Australia are associated with gravity anomalies.





# Regional Magnetics

- Previous exploration within the project area has targeted base metal and manganese deposits within the cover sequences. Gravity and magnetic anomalies interpreted to be hosted in greenstone units beneath the cover have not been targeted.
- ECR's exploration concept is to use aircore drilling across gravity-magnetic anomaly targets to enable rapid assessment of potential for gold mineralisation.
- Licence applications cover a significant proportion of an identified gravity-magnetic trend with known gold prospects along trend in outcropping greenstone to the south (not ECR ground).





## Summary

- Initial strategic move into Western Australia via application for an under-explored exploration portfolio of nine tenements covering approximately 1 600 square kilometres.
- Scale, location and geology align with ECR's strategic target of delivering the next multi-million ounce gold resource for shareholders.
- Western Australia is a world-leading operating environment and the Yilgarn Craton is highly prospective for gold mineralization.
- Archean greenstones are renowned for hosting significant gold deposits, with the Kalgoorlie Super Pit area having produced in excess of 16 million ounces as of 2014.
- The nine licences applied for host untested gravity-magnetic anomalies representative of potential greenstone-hosted gold trends.
- It is believed the depth of cover may be shallow, which would enable low cost initial exploration by aircore drilling.
- Near term activities will comprise desktop review and planning of the initial exploration programme.





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