



# Flynn Gold

## WA Gold-Lithium Projects Presentation

April 2022

*Exploring for gold and lithium in Pilbara Region, Western Australia*

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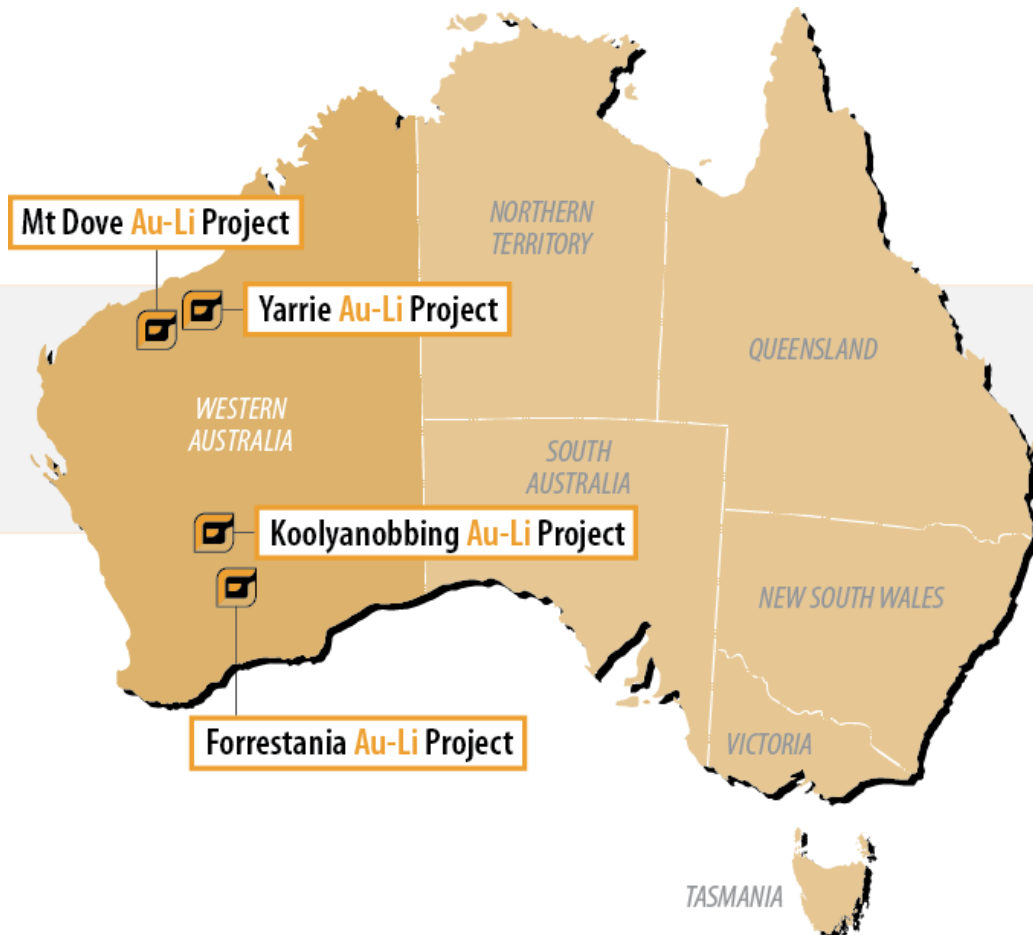
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# Flynn Gold – WA Gold-Lithium Projects

Flynn Gold is an Australian explorer building a strategic gold-lithium and gold portfolio in Western Australia, targeting hard rock lithium pegmatites and intrusive related gold deposits.



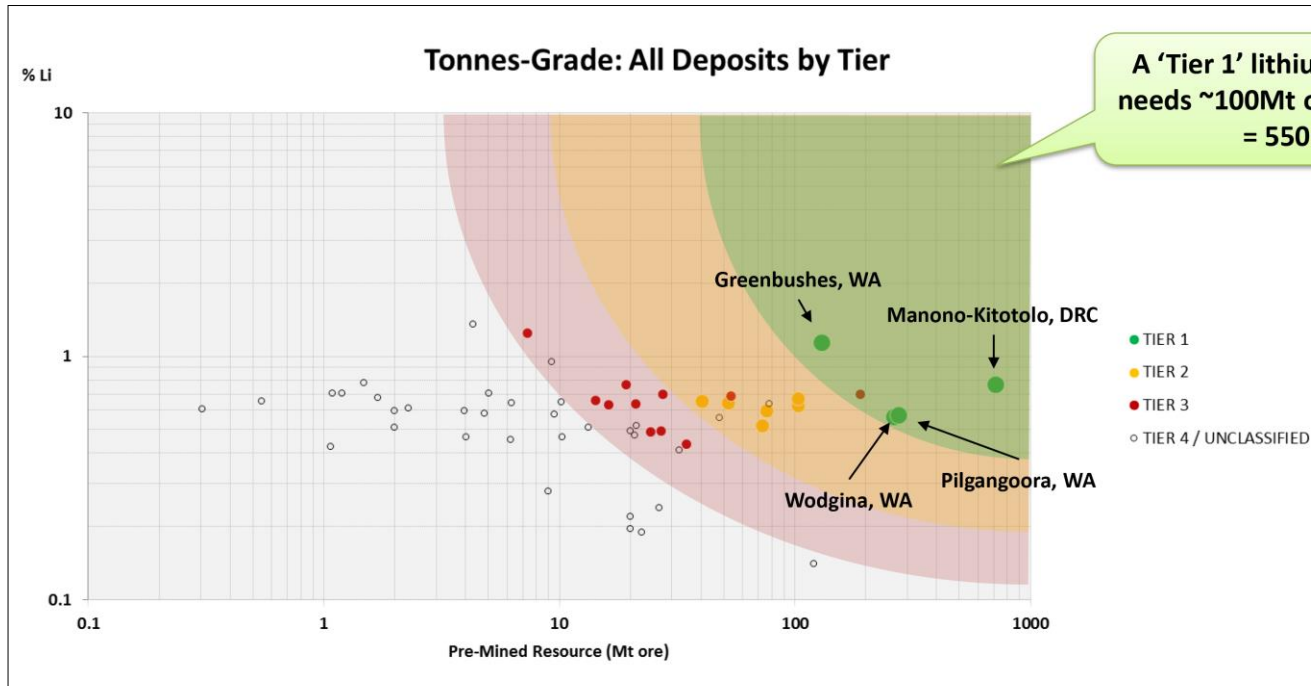
The Project portfolio includes a 100% interest in:

- Mt Dove Au-Li Project
  - Yarrie Au-Li Project
  - Koolyanobbing Au-Li Project
  - Forrestania Au-Li Project
- 1,232km<sup>2</sup> of Au-Li exploration tenure secured in early 2022
  - Strategy to continue to grow the quality and footprint of Flynn's portfolio of projects during 2022





# Flynn Gold – WA Gold-Lithium Projects



Source: Graph: A Global View of the geology and economics of Lithium Production, J. Sykes, 2019, MinEx Consulting

Table: DMIRS, GSWA Lithium Flyer September 2020

*Western Australia has a strategic advantage in the global demand for lithium*

**Lithium resources ranked by contained Li<sub>2</sub>O (kt)**

Resources estimated according to JORC 2012

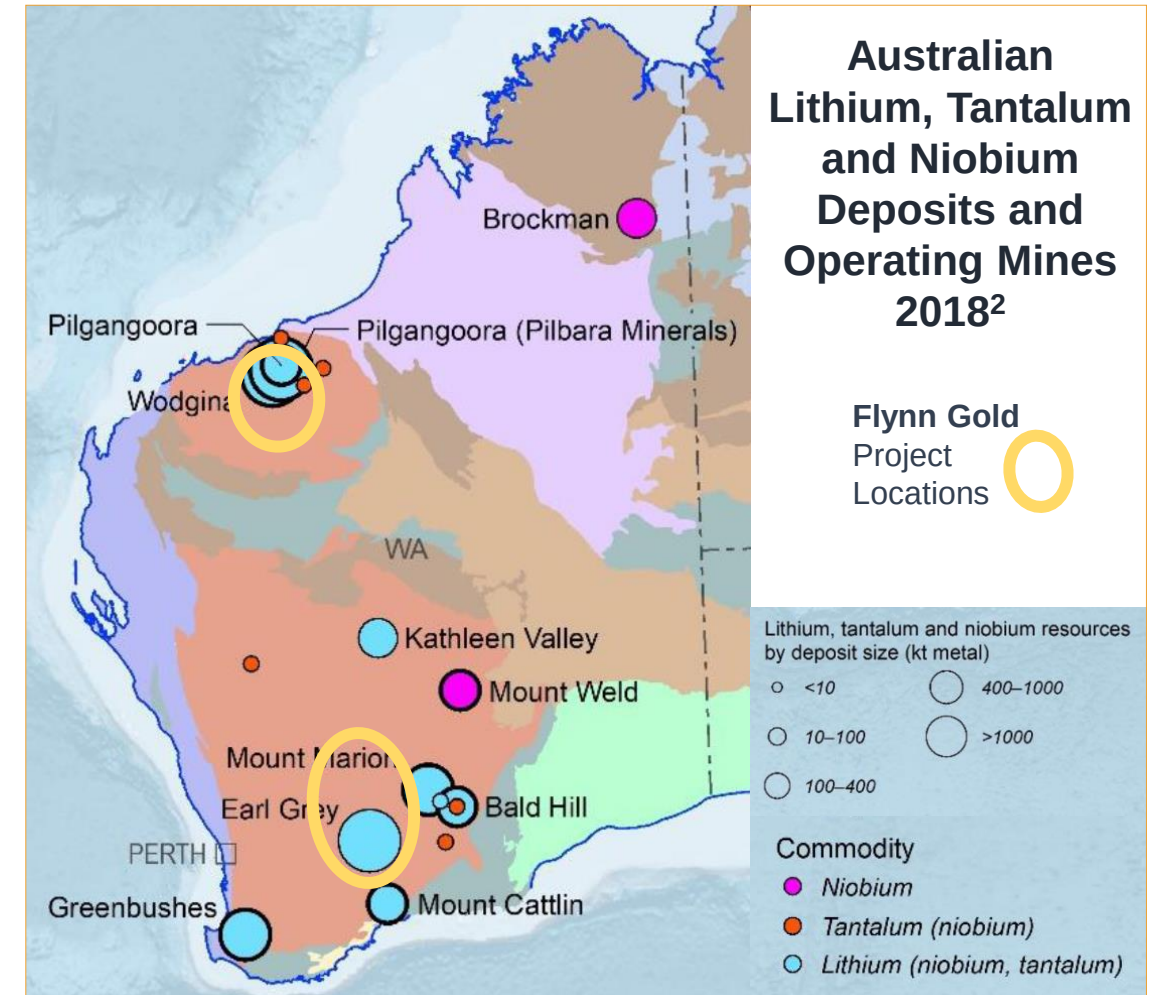
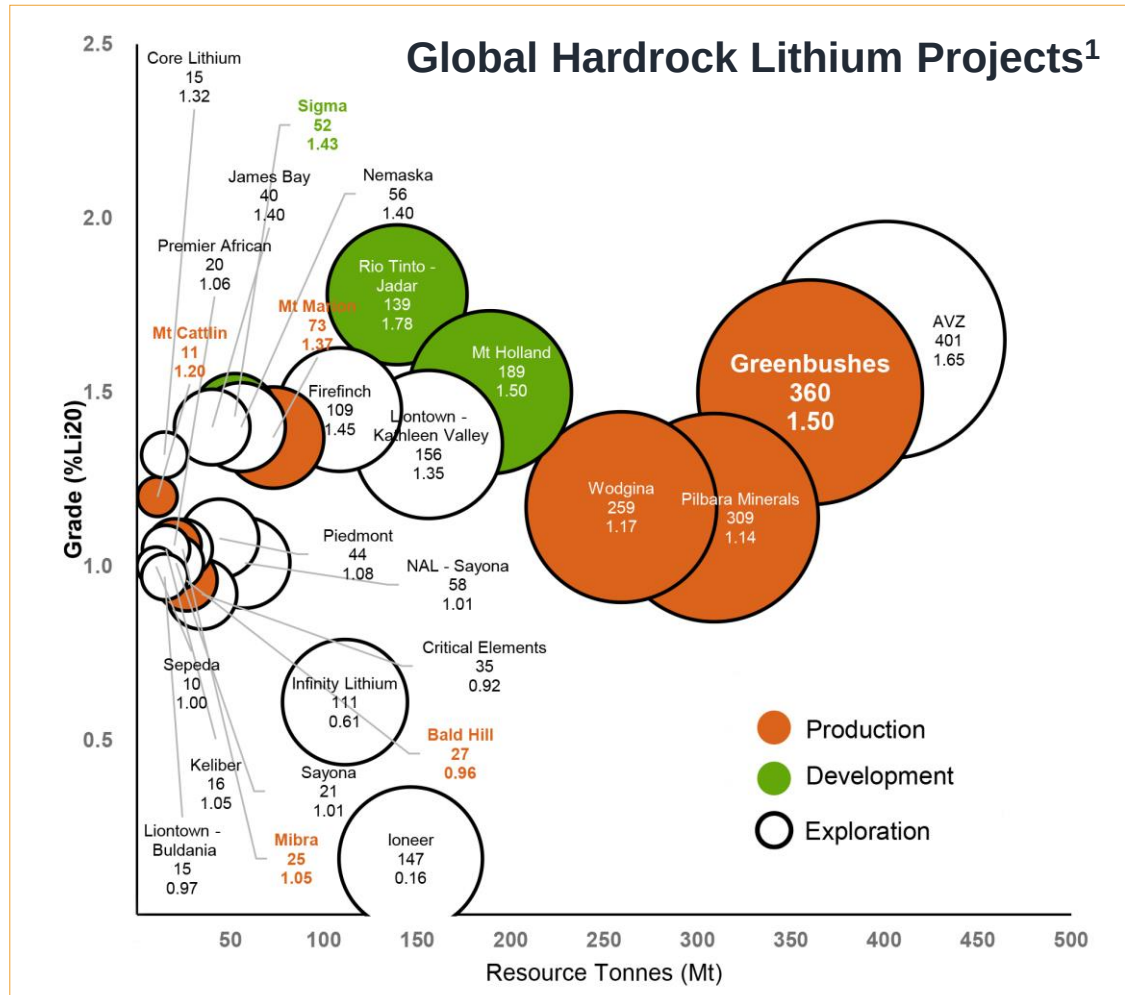
| Project                | Status      | Owner                                                | Resources (Mt) | Av. grade Li <sub>2</sub> O (%) | Contained Li <sub>2</sub> O (kt) | Resource date |
|------------------------|-------------|------------------------------------------------------|----------------|---------------------------------|----------------------------------|---------------|
| Greenbushes            | Operating   | Albemarle Corporation / Tianqi Lithium / IGO         | 196.8          | 1.90                            | 3748                             | 31/03/2018    |
| Pilgangoora            | Operating   | Pilbara Minerals                                     | 309.0          | 1.14                            | 3506                             | 30/06/2021    |
| Wodgina                | Exploration | Albemarle Corporation / Mineral Resources            | 259.2          | 1.17                            | 3032                             | 23/10/2018    |
| Mt Holland             | Feasibility | Sociedad Química Y Minera De Chile S.A. / Wesfarmers | 189.0          | 1.50                            | 2843                             | 19/03/2018    |
| Kathleen Valley        | Feasibility | Liontown Resources                                   | 156.0          | 1.35                            | 2100                             | 31/03/2021    |
| Mt Marion              | Operating   | Orocobre                                             | 72.9           | 1.37                            | 995                              | 01/07/2019    |
| Bald Hill <sup>^</sup> | Feasibility | Alita Resources                                      | 26.5           | 0.97                            | 256                              | 30/04/2018    |
| Buldanía               | Exploration | Liontown Resources                                   | 15.0           | 0.97                            | 145                              | 08/11/2019    |
| Pioneer Dome           | Exploration | Essential Metals                                     | 11.2           | 1.22                            | 136                              | 29/09/2020    |
| Mt Cattlin             | Operating   | Orocobre                                             | 11.0           | 1.20                            | 132                              | 31/03/2021    |
| Marble Bar             | Exploration | Global Lithium Resources                             | 10.5           | 1.00                            | 105                              | 12/10/2020    |
| TOTAL                  |             |                                                      | 1257.1         |                                 | 16 998                           |               |

Resource estimates have been rounded  
All resources are associated with pegmatites  
<sup>^</sup> Resource pre-dates production

- Flynn Gold's Projects are located near the Pilgangoora, Wodgina, Mt Holland and Mt Cattlin lithium deposits
- Western Australia has been the largest global lithium producer since 2016 and in 2019, generated >50% of global production from seven mining operations
- Western Australia continues to position itself as a battery minerals hub due to its proximity to key markets, shorter construction and ramp-up times and relatively low capital costs

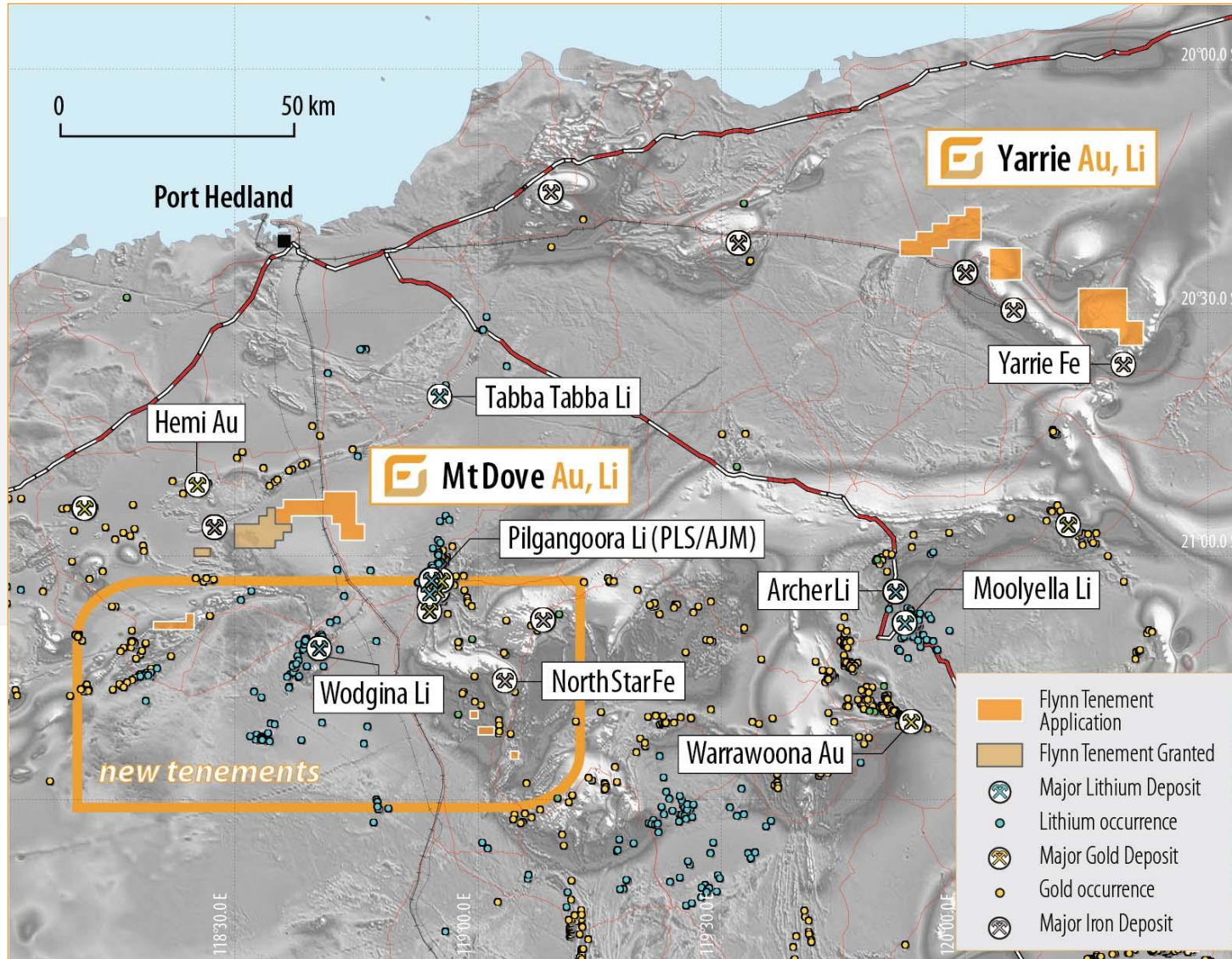
# Western Australia – World Class Lithium Province

Western Australia contains a high proportion of world class lithium pegmatite deposits





# North Pilbara – Gold and Lithium Projects



Two gold-lithium projects located in the highly prospective Pilbara Craton

- Mt Dove
- Yarrie

Flynn Gold's Pilbara Projects are located near large lithium pegmatite deposits

- Pilgangoora (PLS)
- Pilgangoora (AJM)
- Wodgina (Albemarle, MIN JV)

and the large new gold discovery

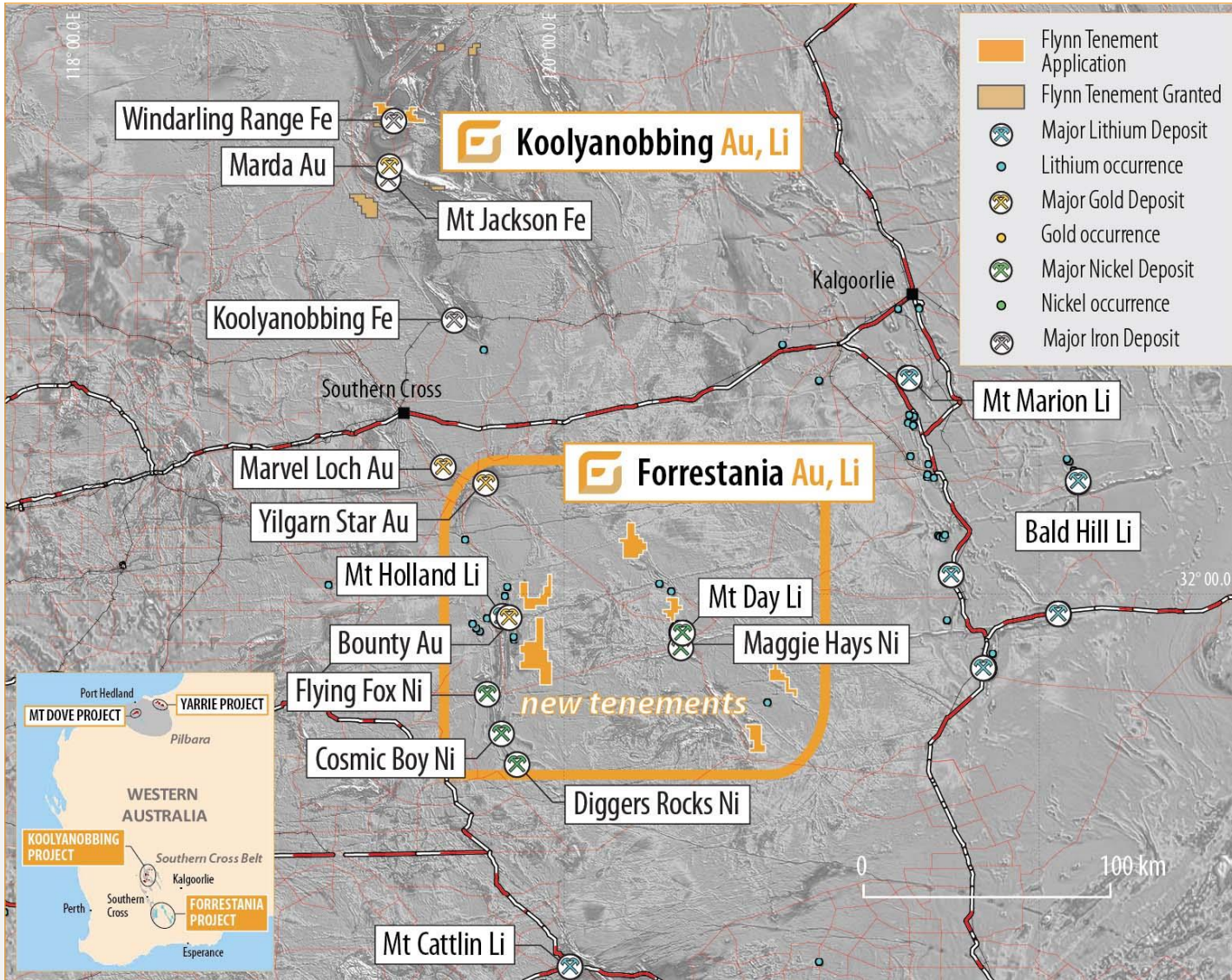
- Hemi (DEG)



Four **new tenement** applications at the Mt Dove Project (one subject to ballot) located close to the **Pilgangoora** and **Wodgina** deposits



# Southern Cross Belt – Gold and Lithium Projects

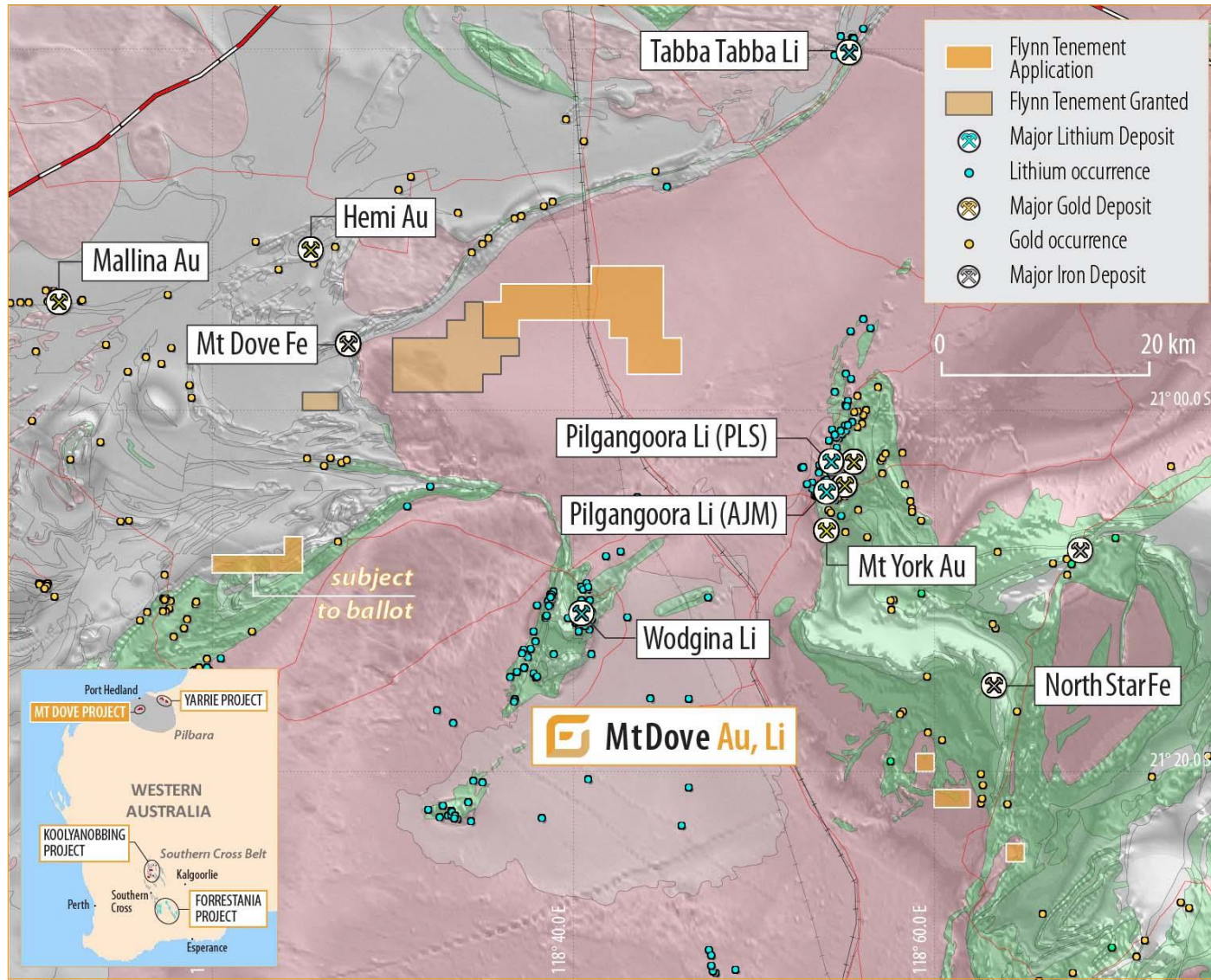


**Two substantial gold-lithium projects located in the Southern Cross province of the Yilgarn Craton**

- **Koolyanobbing**
- **Forrestania (new project)**
- Flynn Gold's Southern Cross Belt Projects are located near:
  - The large Mt Holland lithium pegmatite deposit (Wesfarmers / SQM)
  - The Mt Cattlin lithium pegmatite deposit (Allkem)
- The Southern Cross Belt also contains significant:
  - Gold deposits (Bounty, Marvel Loch, Yilgarn Star, Marda)
  - Nickel deposits (Flying Fox, Maggie Hays)
  - Iron deposits (Windarling Range, Mt Jackson, Koolyanobbing)



# Pilbara – Mt Dove Au-Li Projects



Source: <sup>1</sup>ASX:DEG announcement dated 23 June 2021 <sup>2</sup>ASX:PLS announcement dated 6 September 2021  
<sup>3</sup>ASX:MIN announcement dated 23 October 2018

Building a strong ground position near world class gold and lithium and gold deposits including:

- Hemi Au
- Pilgangoora Li, Ta
- Wodgina Li, Ta



The **Hemi** discovery is an intrusion-hosted gold deposit new to the Pilbara Region. Gold occurs as stringer and disseminated sulphide rich zones. Hemi has a Mineral Resource Estimate of 6.8Moz<sup>1</sup>



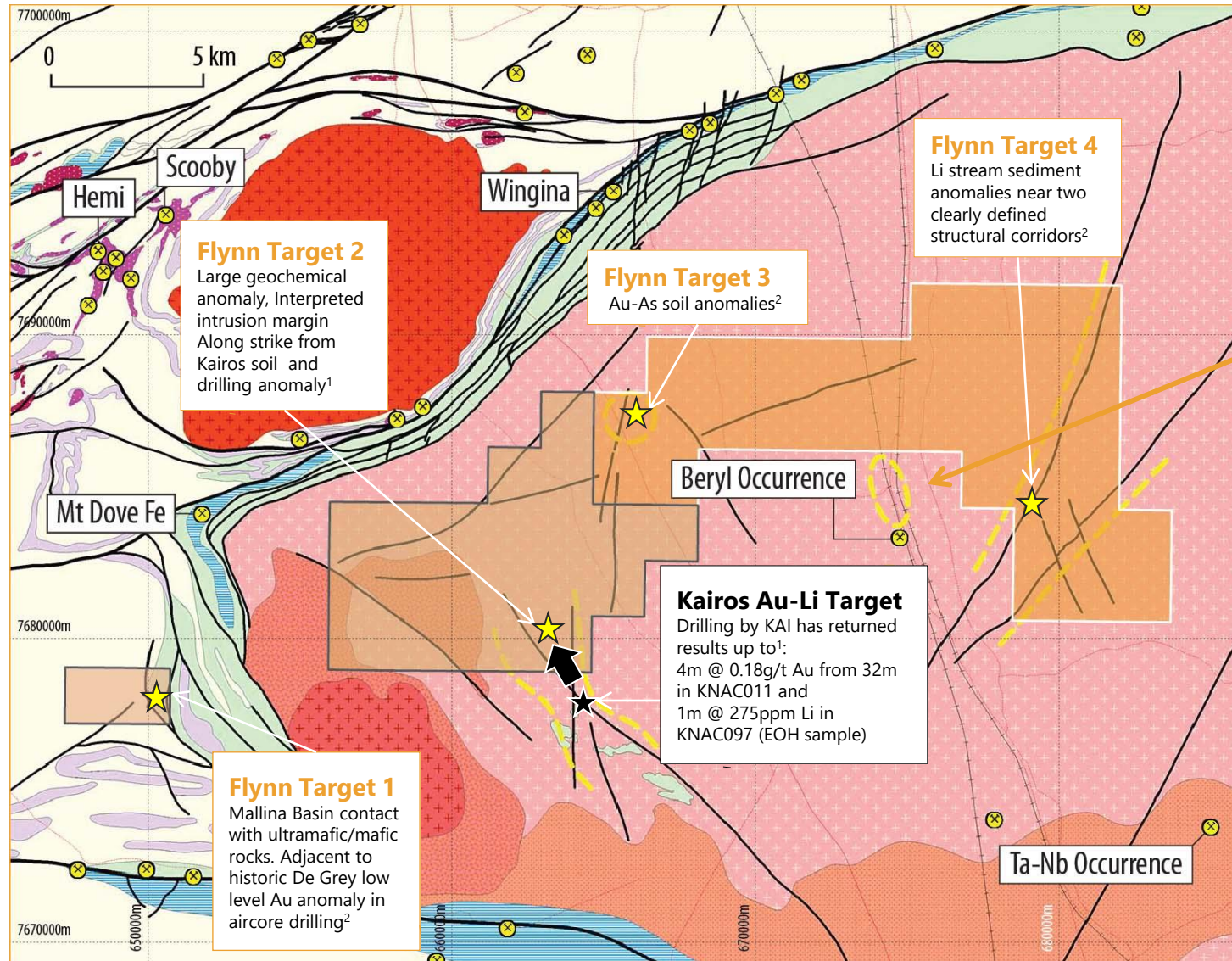
The **Pilgangoora** Lithium tantalum pegmatite deposit with a total resource<sup>2</sup> of 309 Mt grading 1.14% Li<sub>2</sub>O and 105ppm Ta<sub>2</sub>O<sub>5</sub>, is a globally significant hard-rock lithium-tantalum deposit.



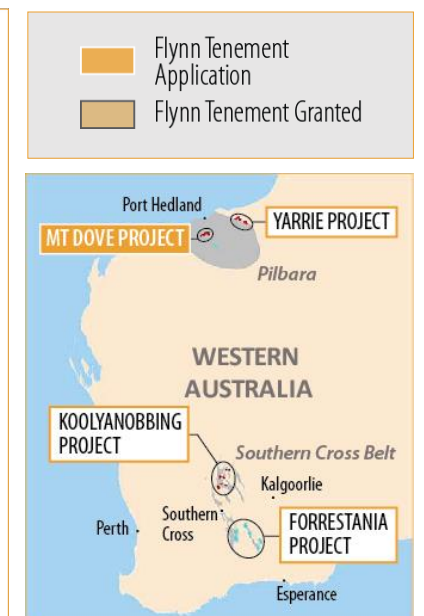
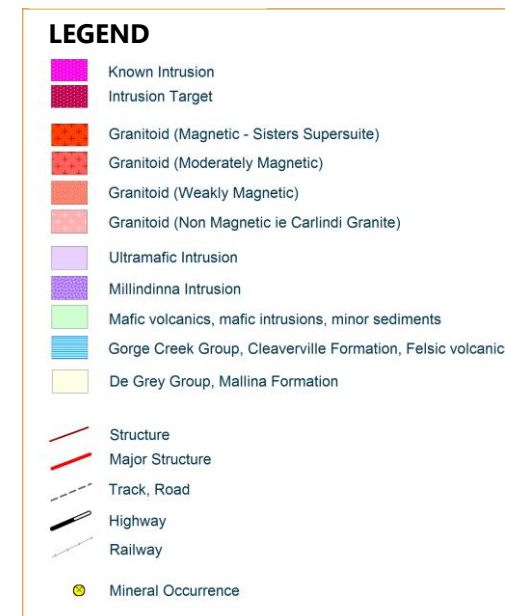
The **Wodgina** Total Mineral Resource<sup>3</sup> for pegmatite and the tailings material, stands at 259.2 Mt at 1.17% Li<sub>2</sub>O, making it one of the largest hard rock lithium deposits globally



# Pilbara – Mt Dove Project



Multiple gold-lithium targets located just 11km from the 6.8Moz Hemi gold project<sup>3</sup> and along strike from Kairos Kangan Au-Li target<sup>1</sup>



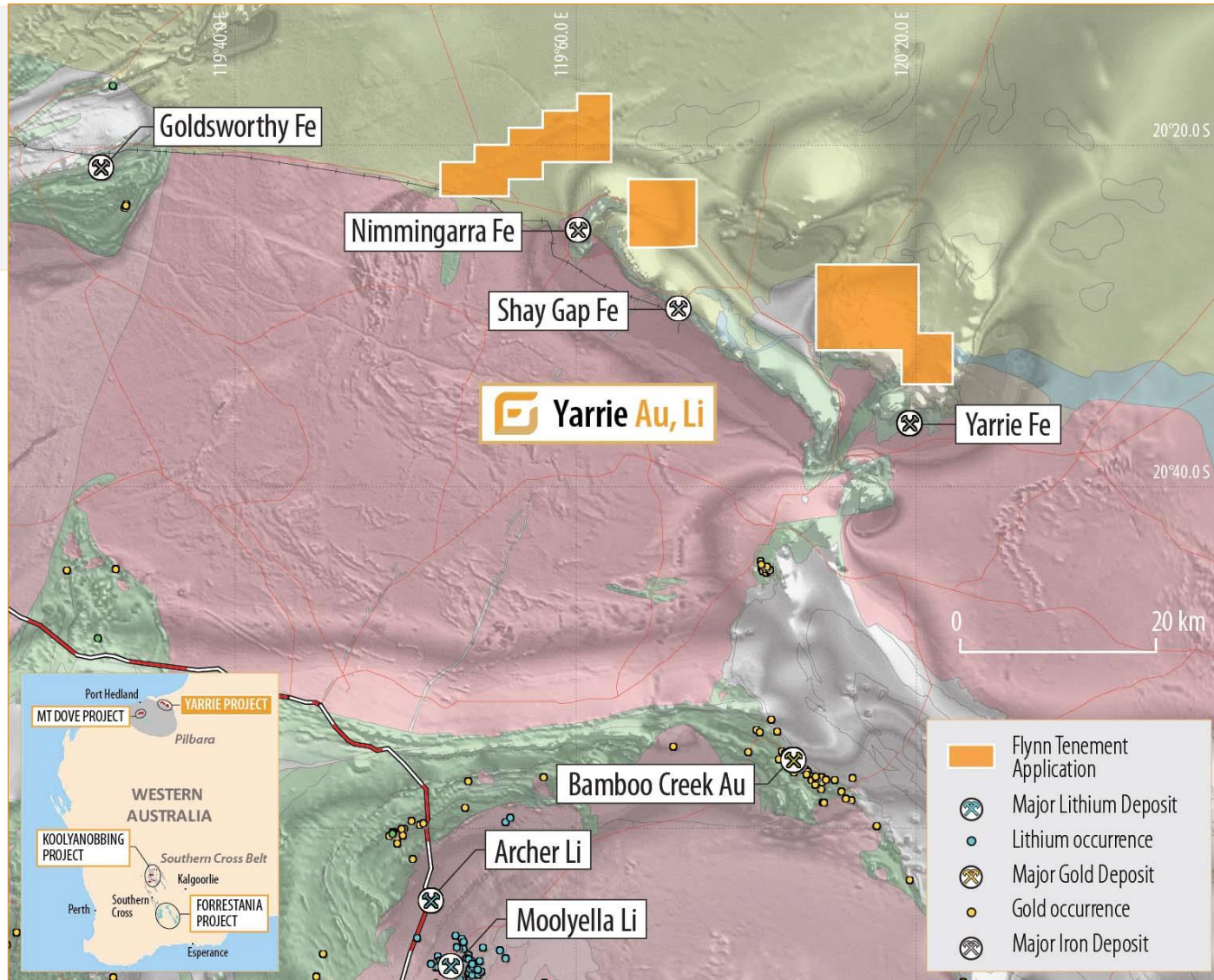
Source: <sup>1</sup>Refer ASX:KAI announcement dated 16 November 2021

<sup>2</sup> Refer to ASX:FG1 announcement dated 19 October 2021

<sup>3</sup> ASX:DEG announcement dated 23 June 2021



# Pilbara – Yarrie Au-Li Project



The Yarrie Au-Li Project comprises three exploration licence applications targeting gold and lithium mineralisation in the Shay Gap greenstone belt and Eel Creek Embayment, located on the northern margin of the Pilbara Craton

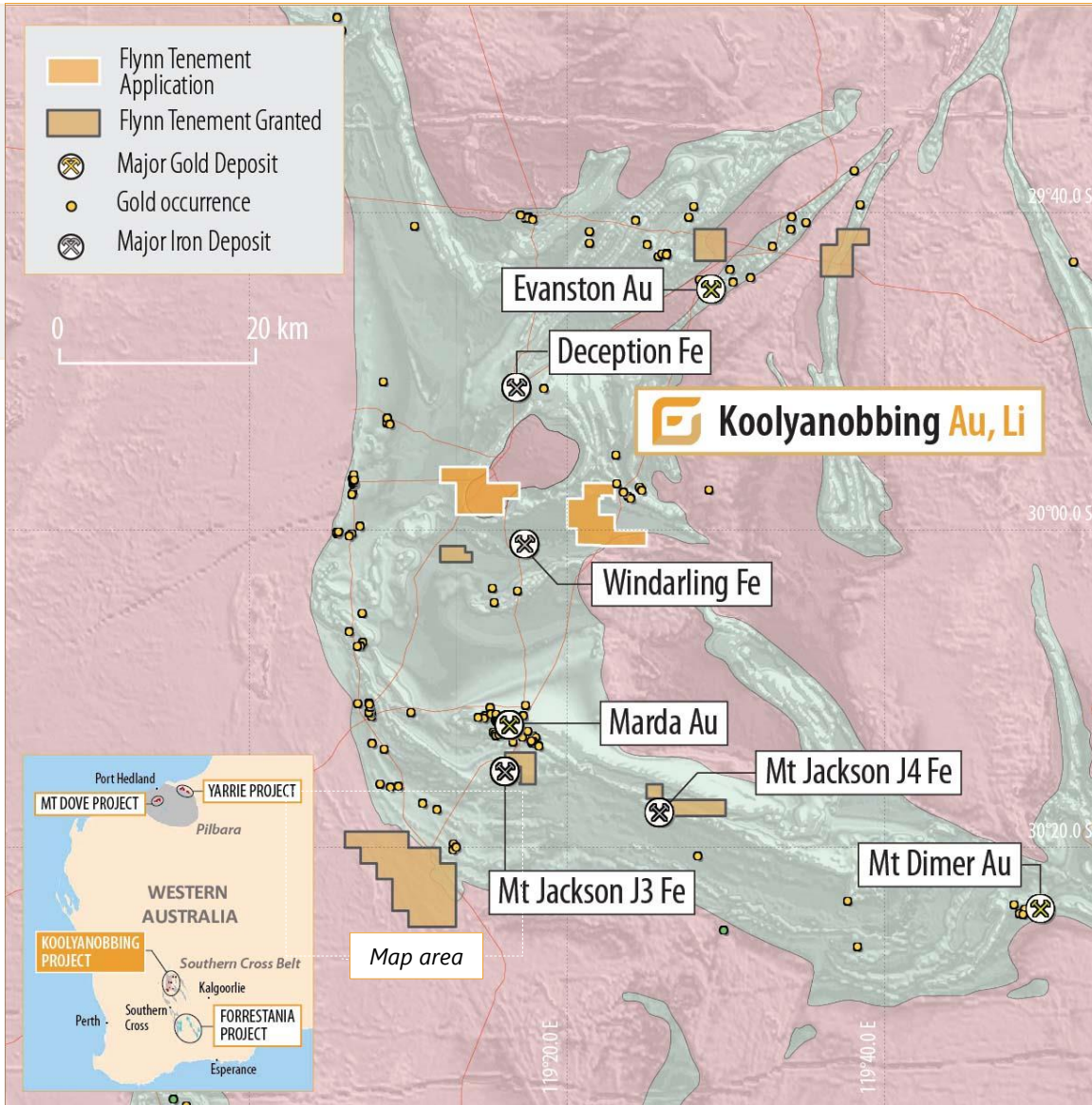
- The Archer lithium deposit, located ~80km south of the Yarrie Project comprises a swarm of spodumene bearing pegmatites over a 3km by 1km zone
- The maiden JORC 2012 Inferred Mineral Resource comprises 10.5 million tonnes at 1.0%  $\text{Li}_2\text{O}^1$



Source: <sup>1</sup>Refer ASX:GL1 announcement dated 4 May 2021

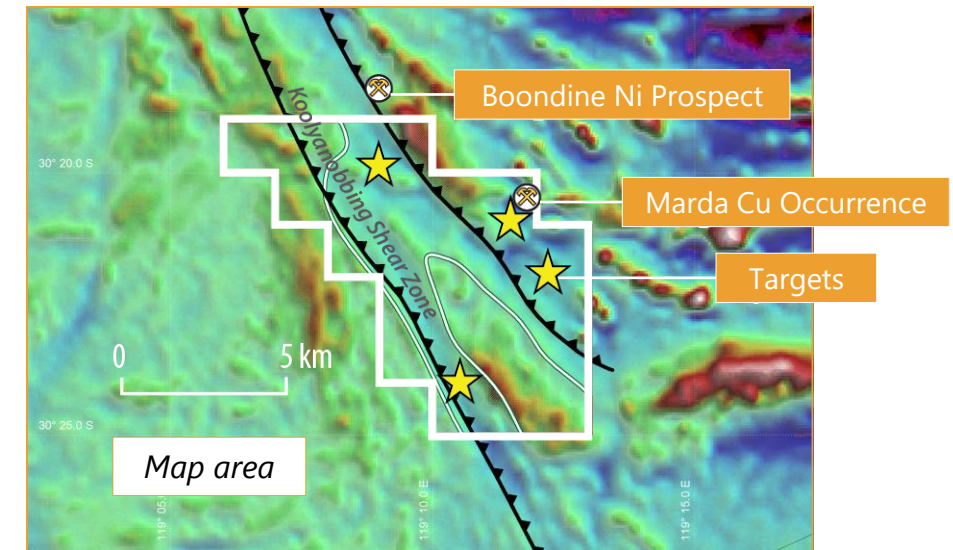


# Southern Cross Belt – Koolyanobbing Au-Li Project



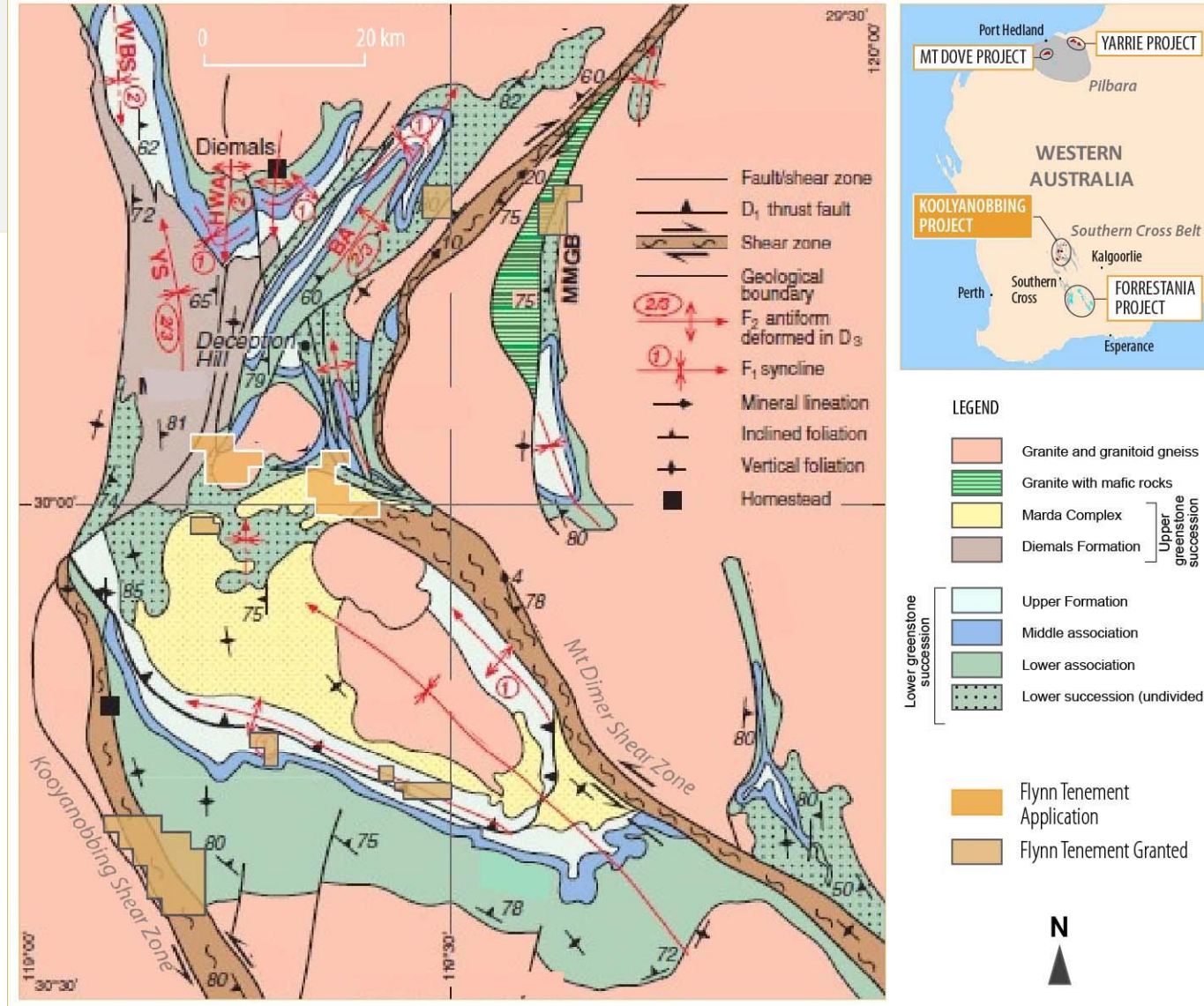
The Koolyanobbing Au-Li Project comprises eight exploration licence applications targeting gold and lithium mineralisation in the Marda-Diemals greenstone belt, located in the Southern Cross Belt of the Yilgarn Craton

*The Marda-Diemals greenstone belt has received little or no modern exploration for lithium pegmatites*





# Southern Cross Belt – Koolyanobbing Au-Li Project



The Koolyanobbing and Mt Dimer Shear zones are crustal-scale ductile shear zones, 5–15 km wide and approximately 450 km long

- Targeting gold and lithium in major structures along granite/greenstone contacts
- Focus also on intrusive related gold systems and Penny West style high-grade lodes



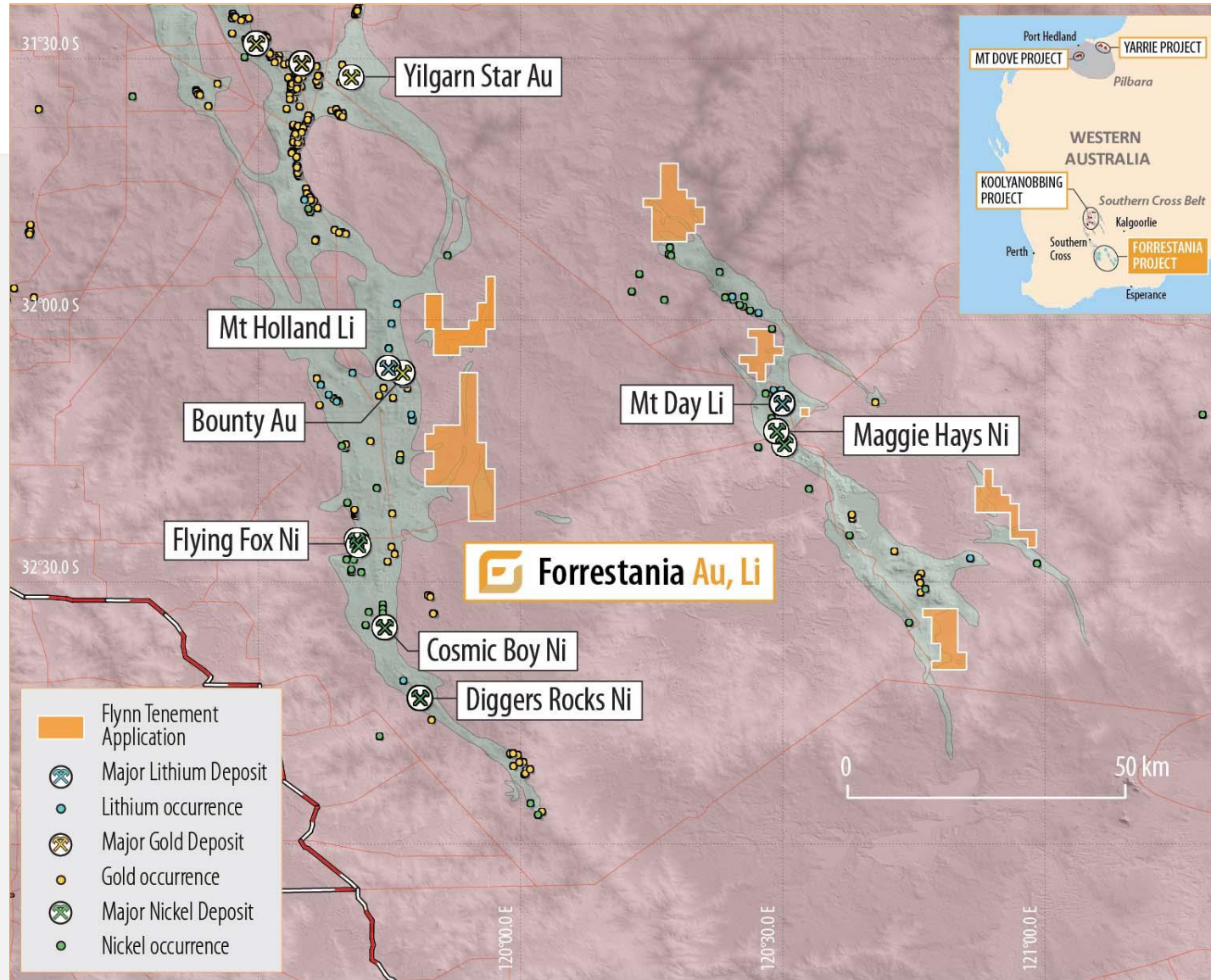
Source: Map - GSWA, Geology of the Bungabbin 1:100,000 Sheet, Chen, S. F. and Wyche, S., 2003.

<sup>1</sup>Ramelius Resources (ASX:RMS) website

Marda Gold Project<sup>1</sup>

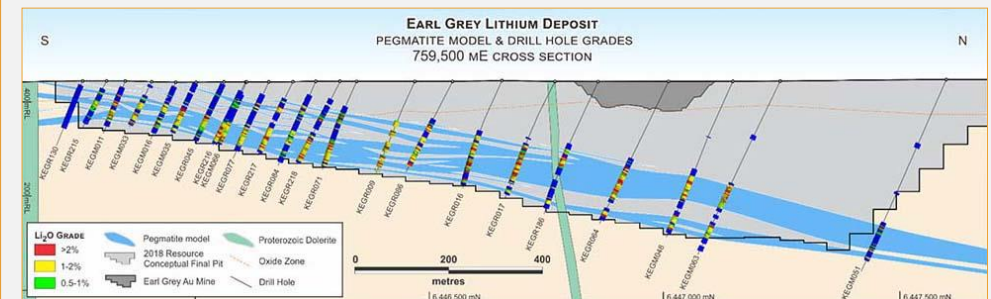


# Southern Cross Belt – Forrestania Au-Li Project



**Exploration target: Mt Holland (Earl Grey) lithium pegmatite deposit – Potential to transform the Company**

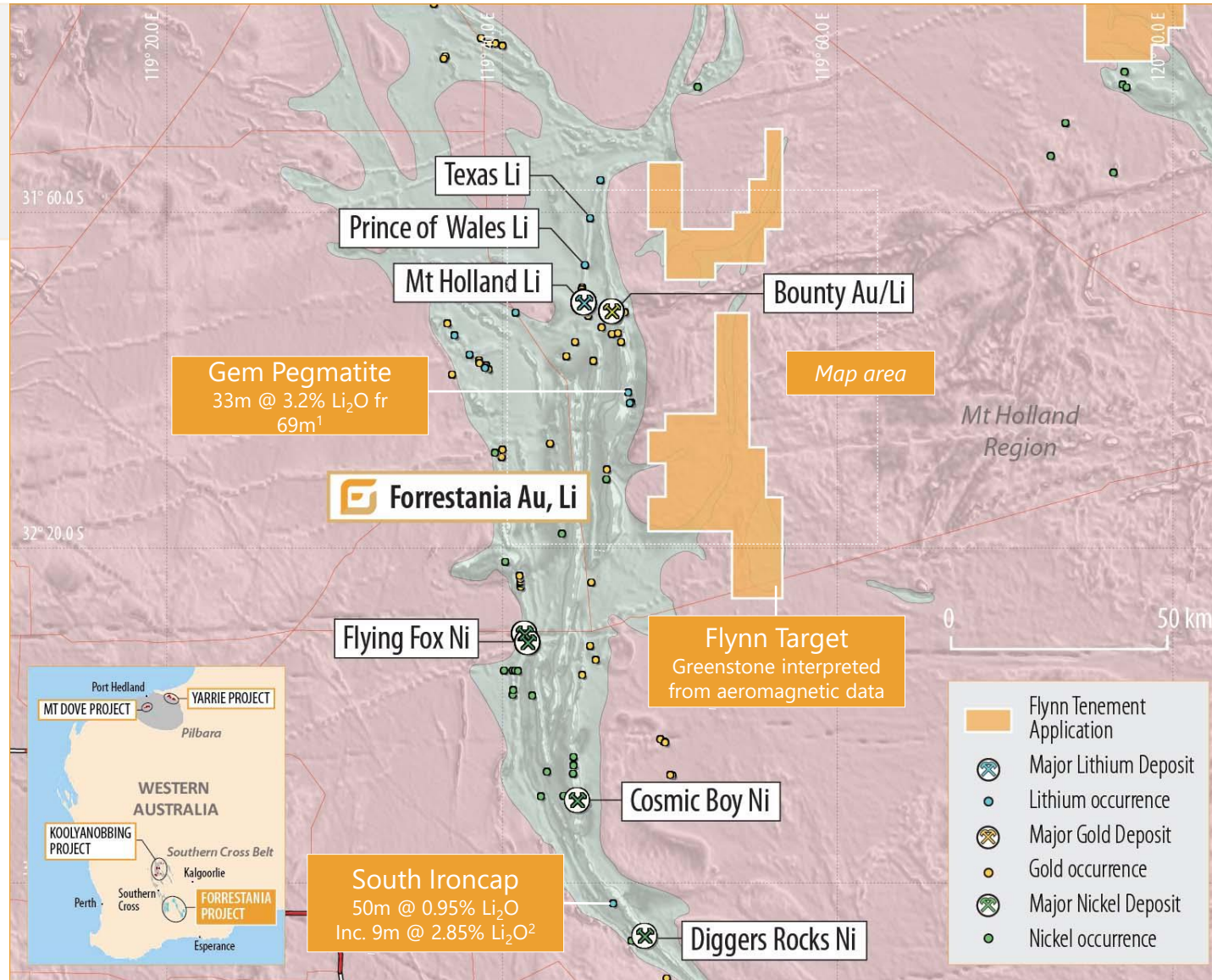
- Historically three varieties of pegmatite have been recognised within the Mt Holland District:
  - Sub-indent complex zoned pegmatite containing spodumene and albite in addition to coarse perthite and quartz
  - Sub-indent albitic aplite rich in black tourmaline and commonly containing cassiterite
  - Sub-indent coarse cleavelanditic albite veins with minor apatite and spodumene
- These pegmatites appear to be abundant on the eastern margin of the Forrestania Greenstone belt, where several of Flynn's tenements occur



- Gently dipping deposit
- Averaging 70m in width
- Low strip ratio
- Consistent grades

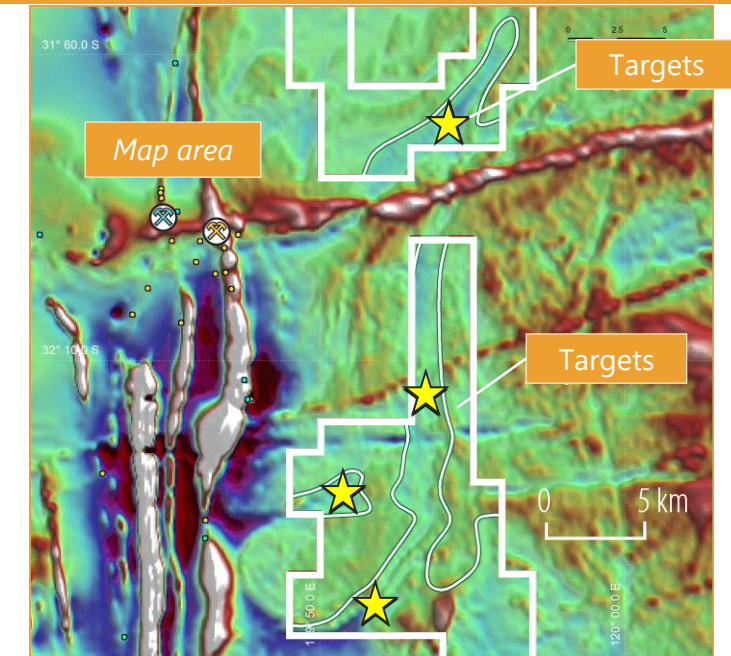


# Forrestania Au-Li Project – Mt Holland Region



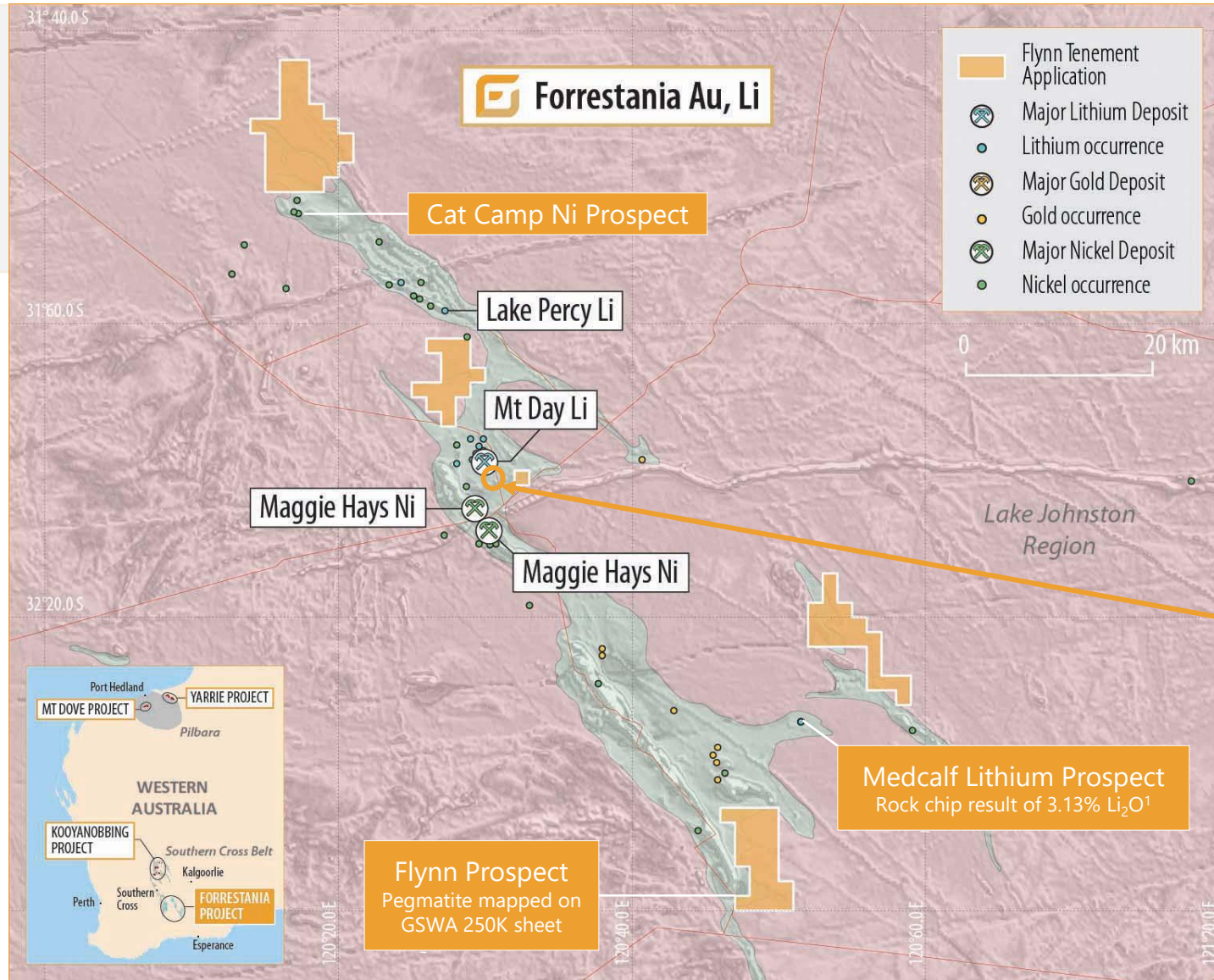
- The greenstone/granite contact extends further east than previously thought
- This has major implications for the lithium exploration potential of Flynn's tenements

*New project located near the world class lithium pegmatite deposit at Mt Holland*





# Forrestania Au-Li Project – Lake Johnston Belt



The Lake Johnston area has become the focus of intensive lithium exploration due to known lithium occurrences at Mount Day, Medcalf and Lake Percy, and the recent discovery of the nearby, world-class, Mt Holland lithium deposit

- **Medcalf Spodumene prospect discovered in 2018**
- **Large LCT pegmatite field at Mount Day**



*Outcropping pegmatites near the Mt Day pegmatite field<sup>2</sup>*



Source: <sup>1</sup>Refer to ASX:LIT ASX announcement dated 21 May 2018, <sup>2</sup>ASX:POS announcement dated 23 May 2016

## Conclusions

- Twelve month strategy to develop high quality Au-Li portfolio
- Targeting large lithium pegmatite deposits and intrusive related gold systems
- Increase quality of portfolio during 2022
- Increase footprint in targeted belts during 2022
- Evaluate potential more advanced opportunities in these belts
- Established four projects in proven Au-Li provinces
- 11 new exploration licence applications
- Continuously reviewing opportunities
- On ground exploration to commence at Mt Dove in May/June 2022

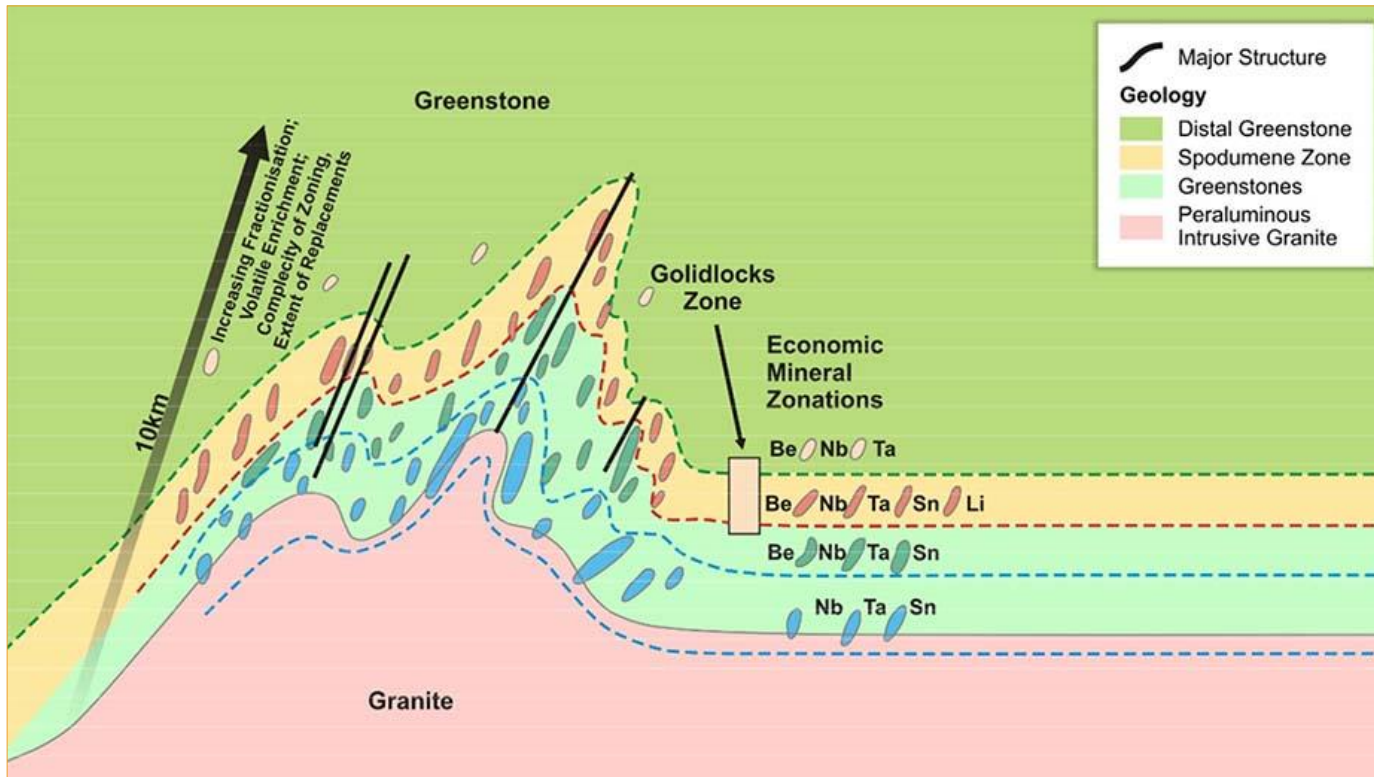
*Exposure to lithium exploration provides Flynn with excellent leverage to the EV boom*





# Appendix 1: Lithium Exploration Model

- “LCT”-pegmatites, are sourced from “fertile” parent granites and the physical distance from the parent granite may directly relate to the distribution of, or zonation of these elements
- The “ideal” distance from a granite/greenstone contact is “conventionally” thought to be between one to four kilometres - the “Goldilocks Zone”



Schematic LCT Pegmatite model technical illustration  
Modified after Černý (1991) and Breaks et al. (2021)



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