

## INVESTOR PRESENTATION

Solstice Minerals Limited (**Solstice Minerals** or **Company**) is pleased to release the attached investor presentation.

This announcement has been authorised for release by the Executive Director.

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**SOLSTICE**  
MINERALS LIMITED

**Investor Presentation**  
**May 2022**

**ASX:SLS**



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The information in this presentation that relates to Exploration Results is extracted from the Solstice Minerals Prospectus dated 14 March 2022 (**Prospectus**) which is available at [www.solsticeminerals.com.au](http://www.solsticeminerals.com.au). Solstice Minerals confirms that it is not aware of any new information or data that materially affects the information included in the Prospectus and that all material assumptions and technical parameters underpinning the Exploration Results in the Prospectus continue to apply and have not materially changed. Solstice Minerals confirms that the form and context in which the Competent Persons’ findings are presented have not been materially modified from the Prospectus.





## Gold & Base Metals Exploration

- Eastern Goldfields of Western Australia (**WA**) advanced gold and base metal exploration
- Belt scale approach in areas of excellent mineral endowment and existing mining infrastructure
- Focus on Hobbes Licence with significant drill intercepted supergene and primary gold mineralisation
- Considerable land holding in WA – approximately 2,620km<sup>2</sup> of granted licences and applications

## Exploration & Significant News flow

- Resource drill out at Hobbes Prospect in Q2/Q3 2022 – diamond and RC drilling
- Maiden Hobbes Mineral Resource Estimate (**MRE**)
- Regional RAB and Aircore drilling of geochemical targets
- Geophysical surveys and drill testing of nickel sulphide targets at the Ringlock Dam Licence
- Interpretation of new regional aeromagnetic data and new target generation

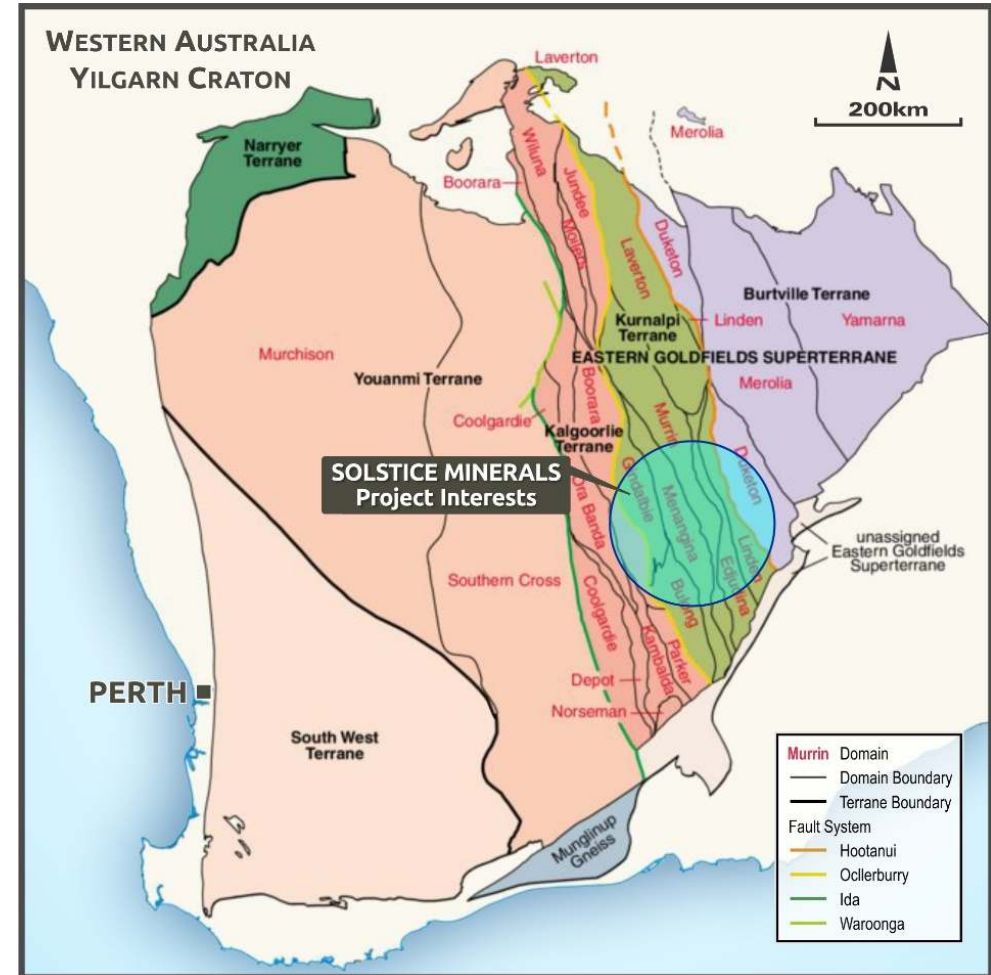
## Right Team to Discover

- Experienced board of project generators and mine builders in Australia and Africa
- Track record of discovery in WA – Nimary-Jundee, Dalgaranga and Mertondale
- Strong mix of technical and capital markets expertise



# QUALITY PROJECTS IN HIGHLY PROSPECTIVE TERRANE

- Eastern Goldfields gold and base metal exploration
- Significant ground holding within the highly prospective Keith-Kilkenny and Laverton Tectonic Zones - approximately 2,620km<sup>2</sup> of granted licences and applications
- “Belt style” systematic approach to exploration
- Key asset – advanced Hobbes Gold Prospect
- Exciting base metal opportunity at Ringlock Dam
- Undemanding valuation and well-funded at IPO – Enterprise Value of \$3m, with \$17m in cash (before IPO costs)
- Significant drill programs planned and near-term news flow from Hobbes resource drilling



# EXPERIENCED BOARD AND MANAGEMENT TEAM



Solstice Minerals is led by a highly experienced team with a proven track record of delivering shareholder value

<b>Craig Williams</b> Non-Executive Chairman	<b>Alastair Morrison</b> Executive Director	<b>Matthew Yates</b> Non-Executive Director	<b>Robert Rigo</b> Non-Executive Director
+40 years (Geologist) Co-founder and former CEO of Equinox Minerals, acquired by Barrick in 2011 for \$7 billion.	+30 years (Geologist) Former Exploration Manager of East African Gold Mines, last 18 years as analyst & portfolio manager	+35 years (Geologist) CEO & MD of OreCorp Limited, former MD of OmegaCorp and Joint MD of Mantra Resources	+40 years (Engineer) Former VP Project Development of Equinox Minerals & GM Technical Services for Newcrest
<b>Mike Klessens</b> Non-Executive Director	<b>Tania Cheng</b> Chief Financial Officer	<b>Jessica O'Hara</b> Company Secretary	<b>Dr Mark Alvin</b> Exploration Manager
+30 years (Certified Practicing Accountant) Former VP Finance and CFO of Equinox Minerals, extensive industry experience	+25 years (Chartered Accountant) CFO of OreCorp Limited, formerly with Myanmar Metals, Apollo Group Pty Ltd, Deloitte & PWC	+15 years (Corporate Lawyer) Co Sec & Legal Counsel for OreCorp Limited, formerly with Allen & Overy, Clayton Utz	+25 years (Geologist) Experienced explorationist, formerly with Rio Tinto, Nyrstar, Strandline & MRG Metals

“Back to its roots” in the Eastern Goldfields where the team has made major discoveries in the past

# CORPORATE OVERVIEW



Capital Structure on Listing	Number of Securities
Total Issued Shares (ASX code: <b>SLS</b> )	100,000,000
Total Listed Options (22 Apr 26 expiry, \$0.20 exercise)	15,000,000
Total Unlisted Options (22 Apr 26 expiry, \$0.29 exercise)	10,250,000
<b>Total Securities on Issue (fully diluted)</b>	<b>125,250,000</b>

Summary	\$
Offer price per share	\$0.20
Market capitalisation	\$20,000,000
Enterprise value	\$3,000,000

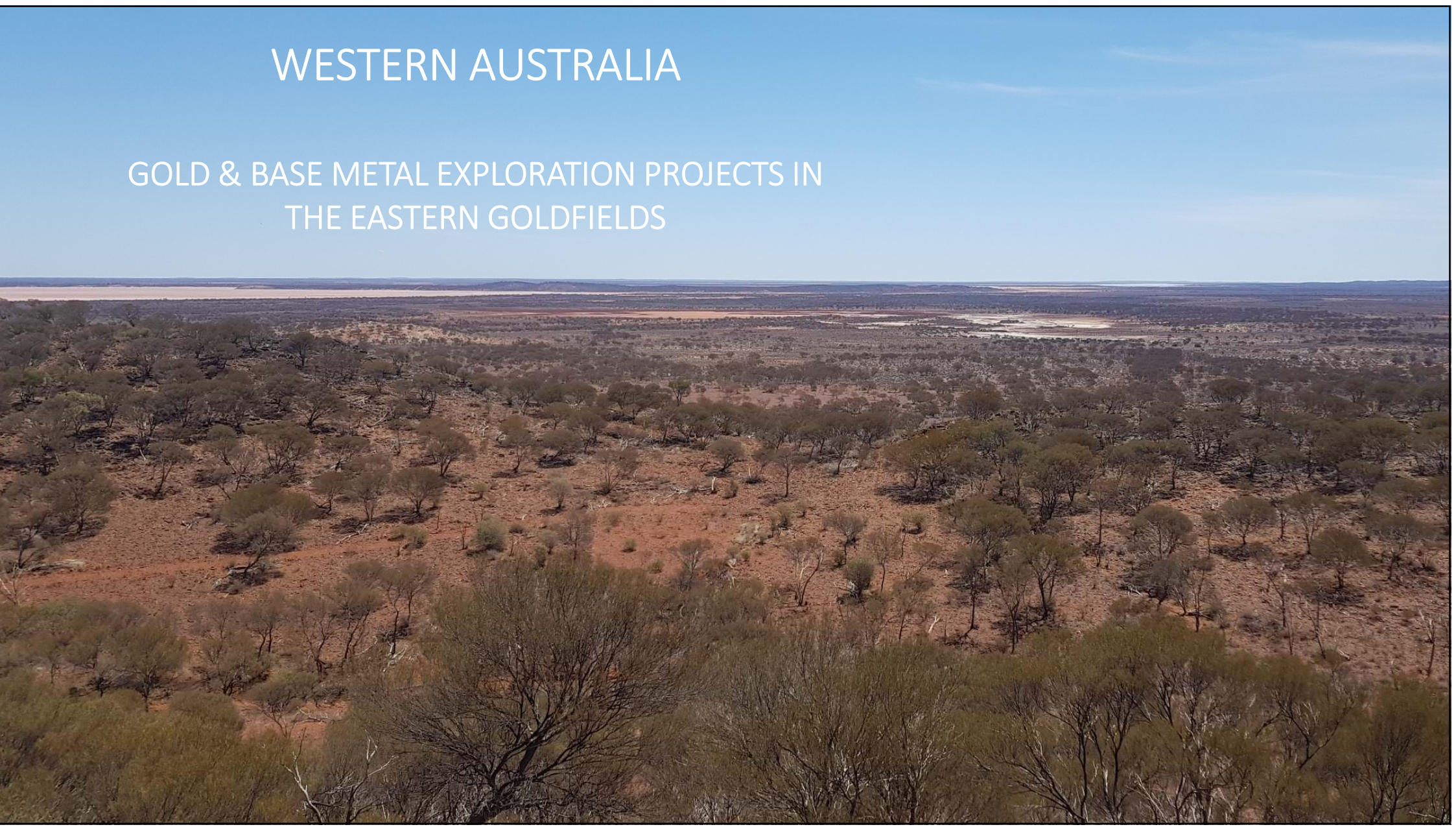
Sources of Funds	\$
Offer proceeds (before costs)	\$12,000,000
Cash consideration paid by OreCorp Limited as part of the consideration for in-specie shares	\$5,000,000
<b>Total</b>	<b>\$17,000,000</b>

Use of Funds	\$
Exploration Expenditure	\$12,339,260
Corporate & General Administration Costs	\$2,410,740
Future Acquisition Costs	\$1,554,365
IPO Costs	\$695,635
<b>Total</b>	<b>\$17,000,000</b>



# WESTERN AUSTRALIA

## GOLD & BASE METAL EXPLORATION PROJECTS IN THE EASTERN GOLDFIELDS

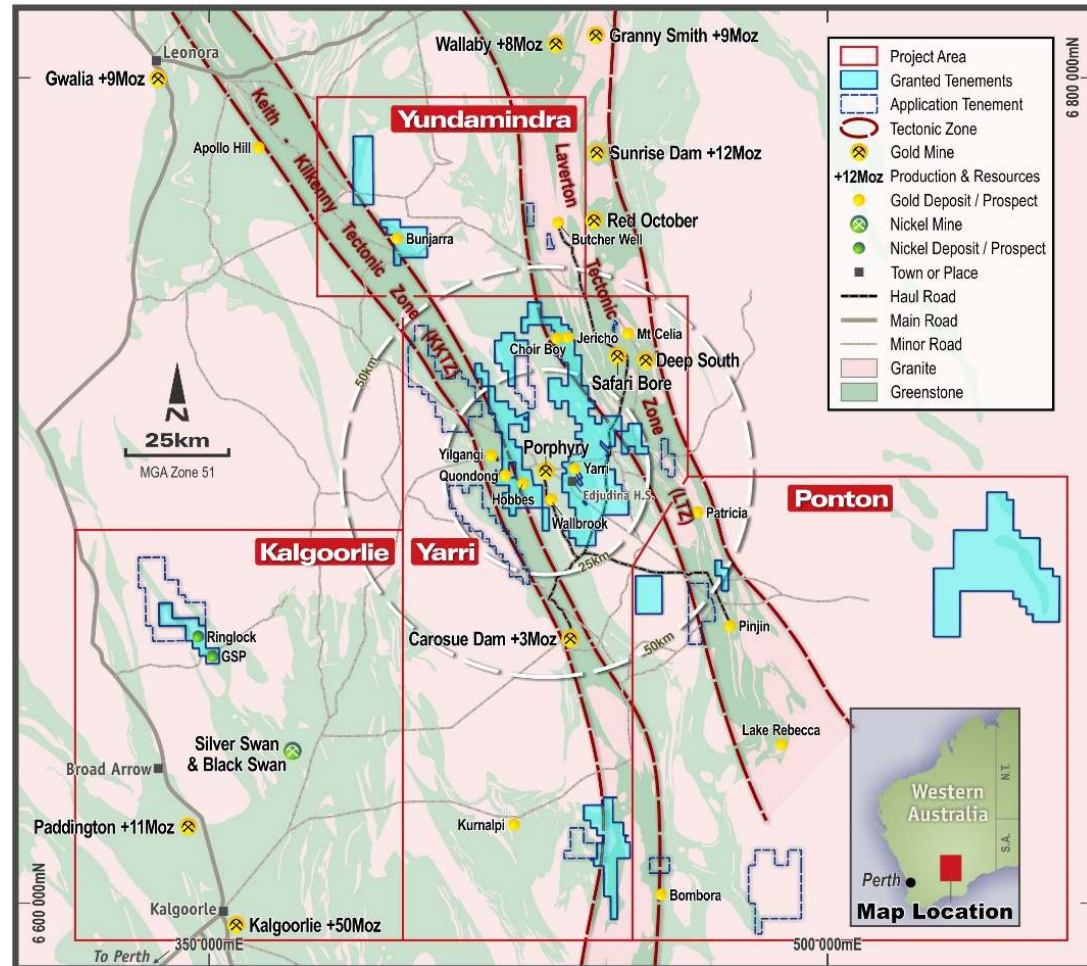




# BELT SCALE APPROACH BUILDS LAND POSITION IN EASTERN GOLDFIELDS



- Team have extensive experience in the WA Goldfields with previous WA discoveries at Nimary-Jundee, Dalgaranga and Mertondale
- The Keith-Kilkenny Tectonic Zone (**KKTZ**) and Laverton Tectonic Zone (**LTZ**) host numerous significant gold mines including Carosue Dam, Sunrise Dam, Granny Smith, Thunderbox and Karonie
- Currently 30 granted licences and 12 applications covering approximately 2,640km<sup>2</sup>
- Tenure prospective for both gold and nickel
- Four project areas – Yarri (includes Hobbes Licence), Kalgoorlie, Yundamindra and Ponton
- Multi-client aeromagnetics acquired plus new gravity survey and major aeromagnetic survey completed

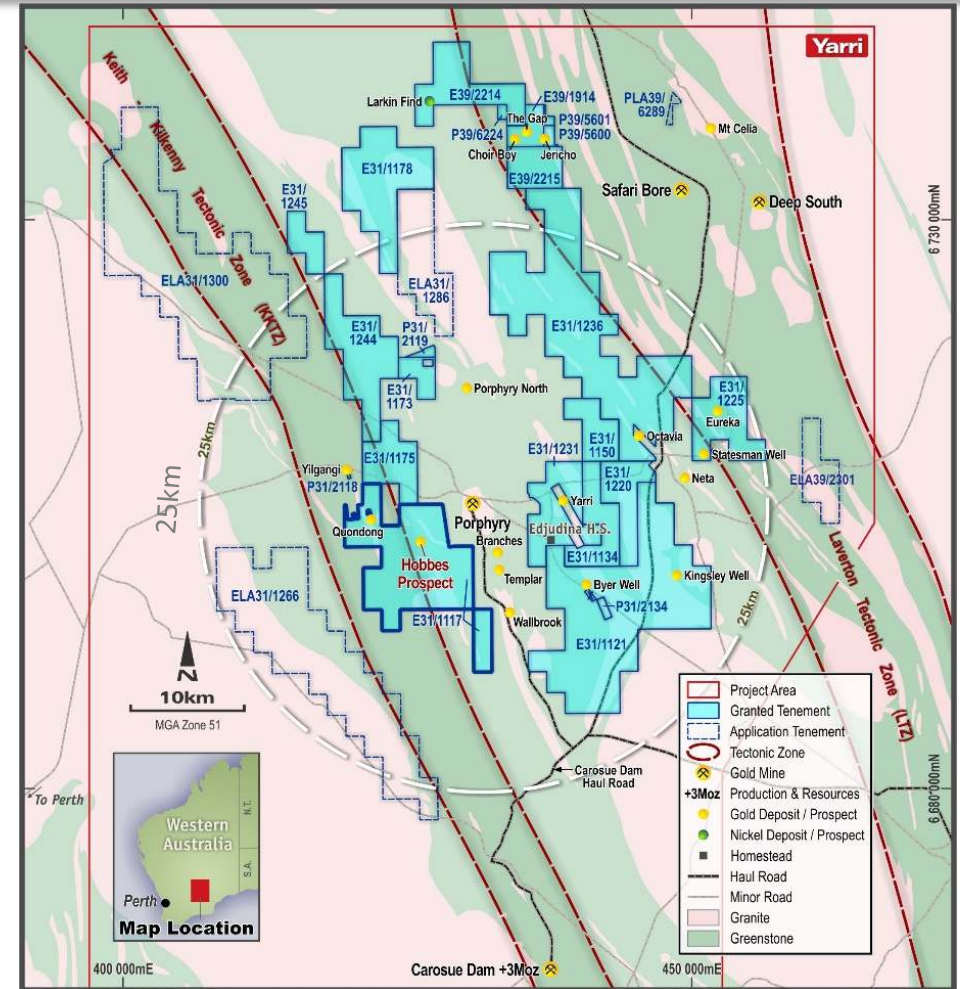


Note: Applications in ballot not shown

# YARRI PROJECT – ADVANCED AND FOCUSED



- Project area located between the KKTZ and LTZ, a structural corridor hosting significant gold mines & advanced projects including Porphyry, Deep South and Carosue Dam
- Key Hobbes Licence (E31/1117 – 80%) – infill drill program in Q2/Q3 2022 to support maiden MRE
- Excellent mining infrastructure in place



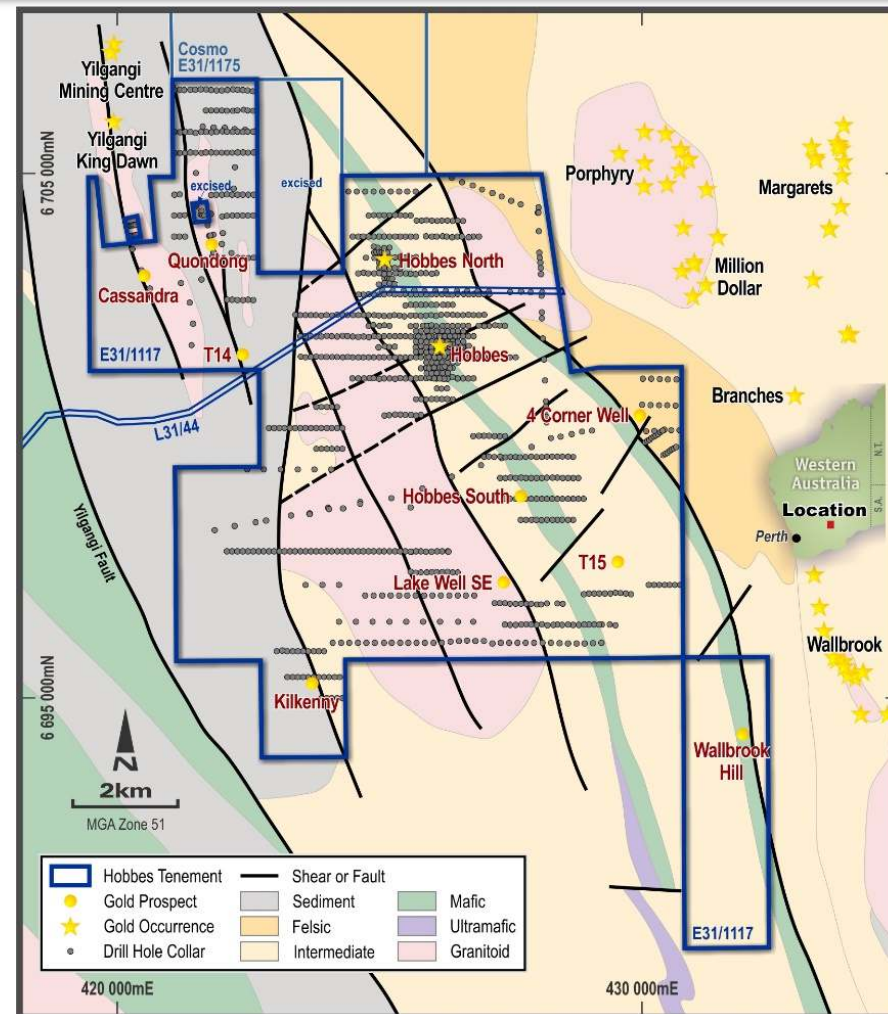
Note: Applications in ballot not shown



# HOBBES LICENCE (80%) - ADVANCED EXPLORATION, MAIDEN RC DRILL PROGRAM COMPLETE



- Broad thick zones of supergene gold mineralisation
- Historical drilling limited, often ineffective - wide spaced drill testing of primary mineralisation
  - 25m @ 2.52g/t gold from 87m and 9m @ 7.68g/t gold from 129m (NHD002)
- Infill drill program to comprise up to 4,500m RC and 1,800m diamond
- Suite of poorly tested prospects – Kilkenny / Hobbes South / Hobbes North in close proximity



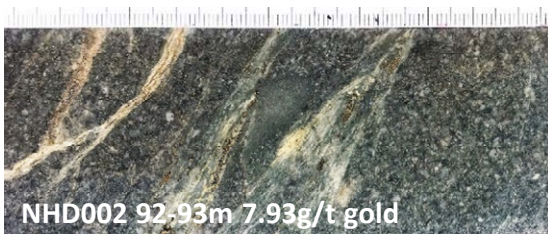


# HOBBS PROSPECT – SIGNIFICANT SUPERGENE MINERALISATION

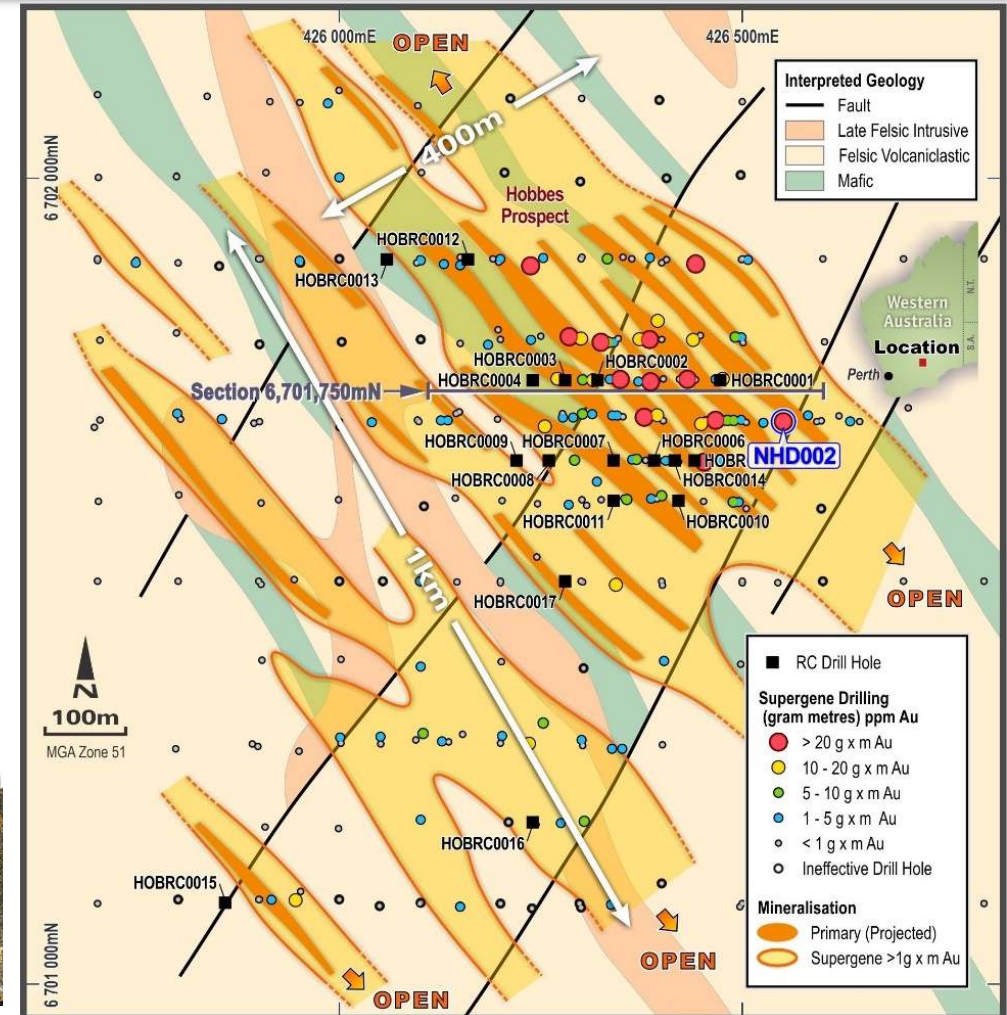
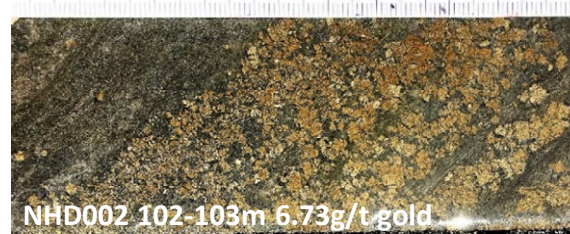


- Supergene blanket minimum 1km in strike length, 400m across strike and up to 30m thick
- Shallow (40-65m) vertical depth below surface
- Open in all directions
- High grade supergene mineralisation up to 22m @ 3.22g/t gold from 45m (HOBRC0002)
- Favourable preliminary metallurgical testwork results (Hole NHD002) – 97% and 89% recovery for oxide and primary gold mineralisation, respectively

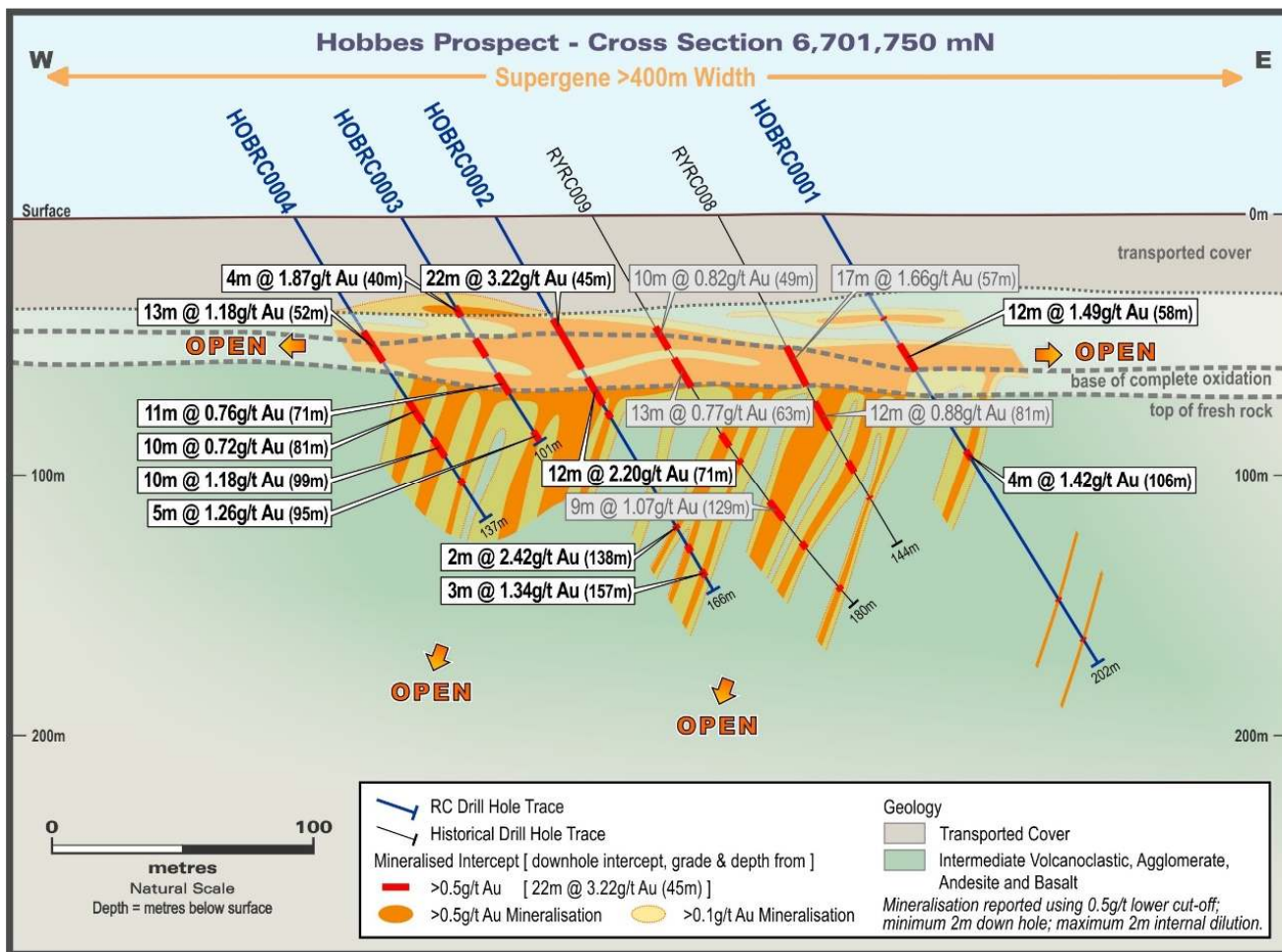
**Silica-pyrite alteration**



**Coarse pyrite-albite alteration**



# HOBBES PROSPECT DRILLING UPDATE – SECTION 6,701,750 (LOOKING NORTH)



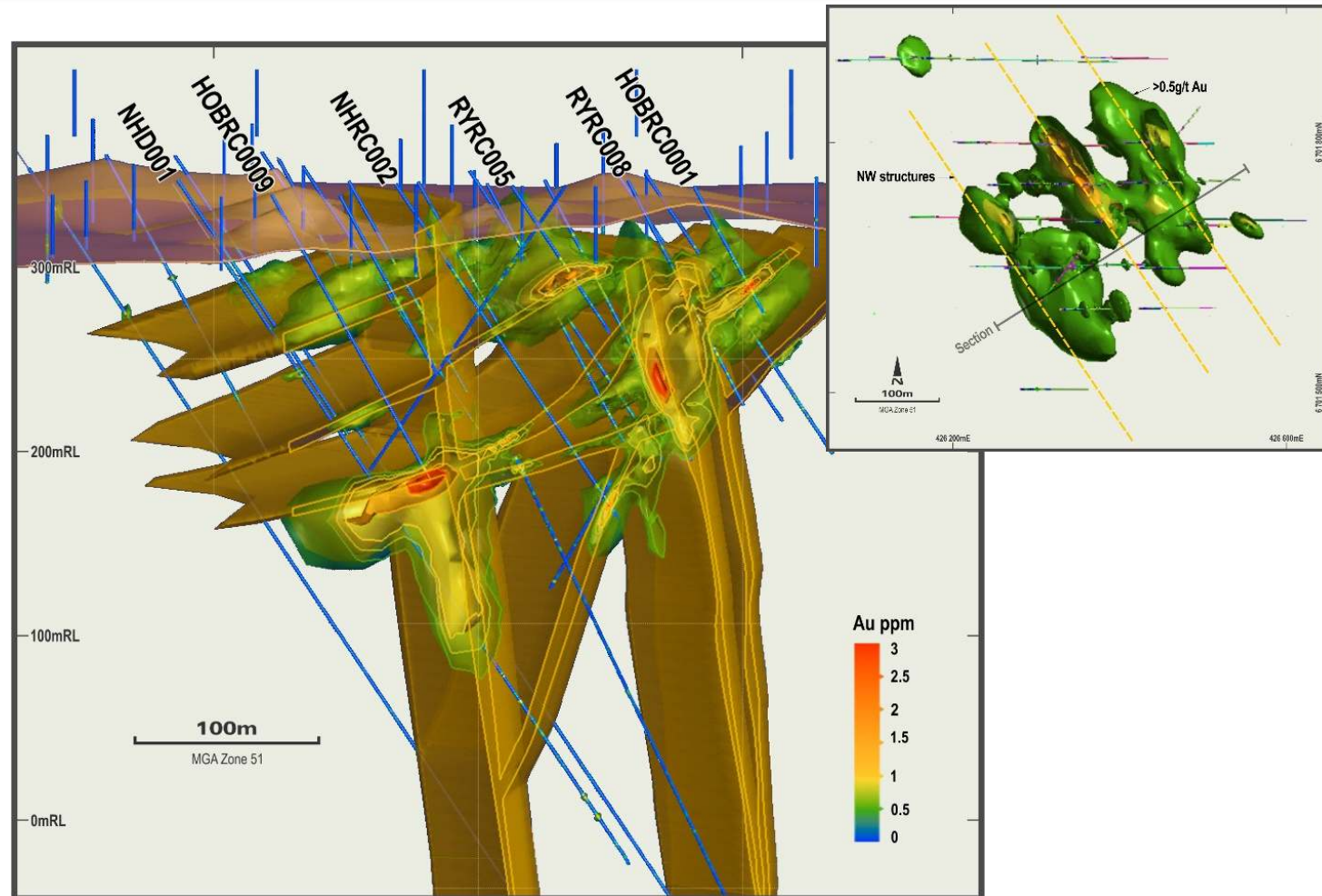
- Current interpretation indicates primary mineralisation trends west-northwest >500m in strike and is open along strike and down dip
- Robust primary mineralised zones up to 25m @ 2.52g/t gold from 87m (NHD002)
- Evidence of high grade material at depth – 9m @ 2.85g/t gold from 176m including 3m @ 5.13g/t from 182m to EOH in HOBC0009
- Multiple stacked lodes
- A great start!



# HOBBES PROSPECT – 3D STRUCTURAL INTERPRETATION



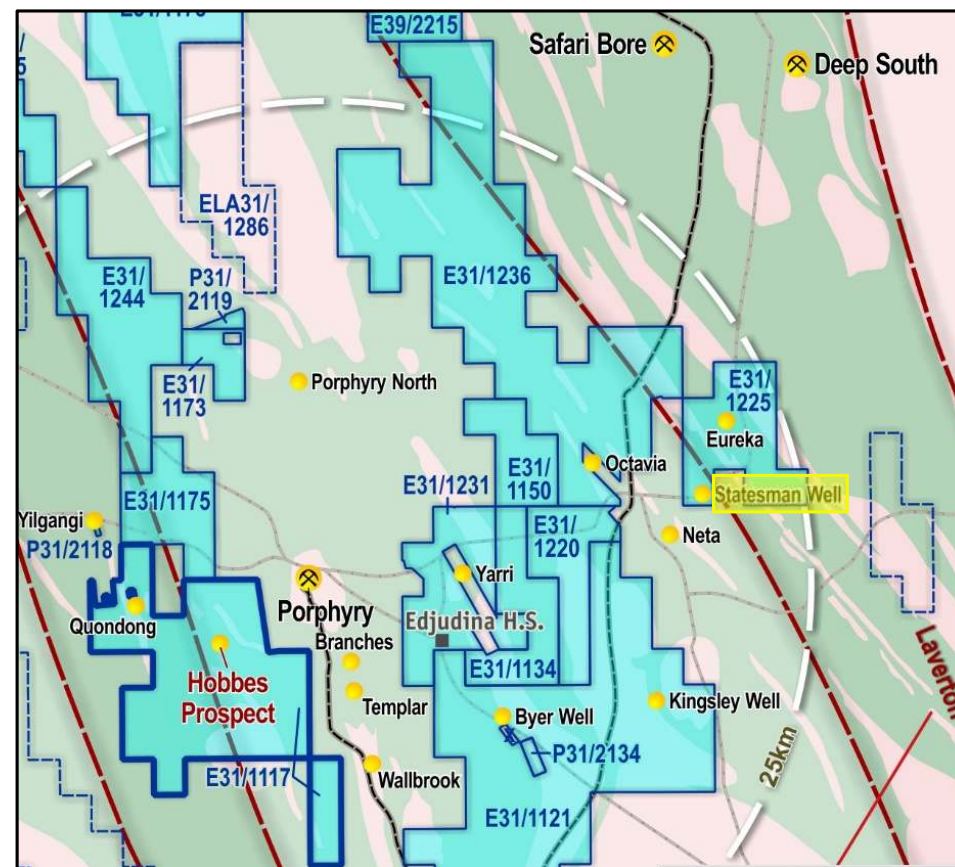
- Consultants engaged to construct a 3D structural interpretation of Hobbes
- Drill data modelled with a  $>0.5$  g/t Au grade shell generated
- Suggests structural control by two fault sets
  - subvertical to steeply dipping east and orientated NW-SE
  - Flatter shallow dipping set to the west
- Provides initial framework for testing the gold distribution



## YARRI PROJECT – STATESMAN WELL PROSPECT, LAKE VIEW LICENCE (E31/1225)



- Lies along the western margin of the LTZ, approximately 25km ENE of Hobbes Licence
- Gold mineralisation hosted in high grade quartz veins and along the contact between BIF and felsic schist
- Striking NW >900m along strike and open to the north and south
- Significant drill intercepts identified from historical exploration include;
  - SWRC004 5m @ 1.25 g/t gold from 21m
  - SWRC010 7m @ 1.32 g/t gold from 31m
  - SWRC018 10m @ 1.63 g/t gold from 58m
- Potential walk up drill targets for later in 2022

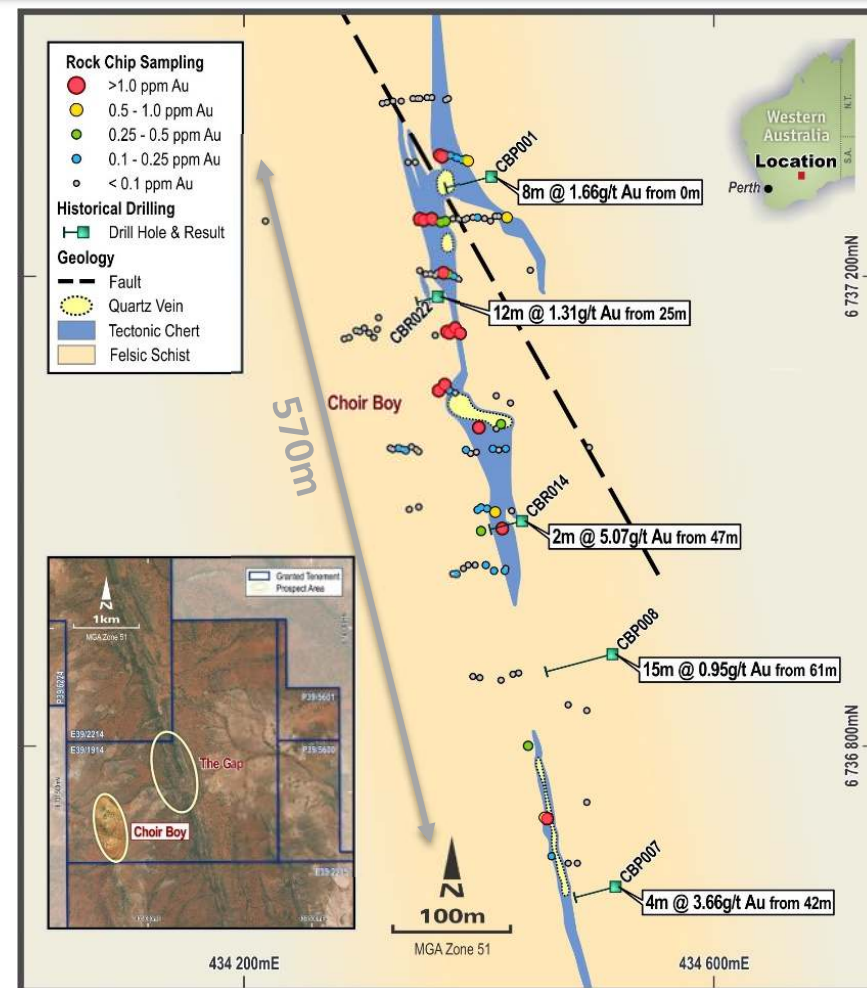




# YARRI PROJECT – CHOIRBOY PROSPECT (E39/1914)



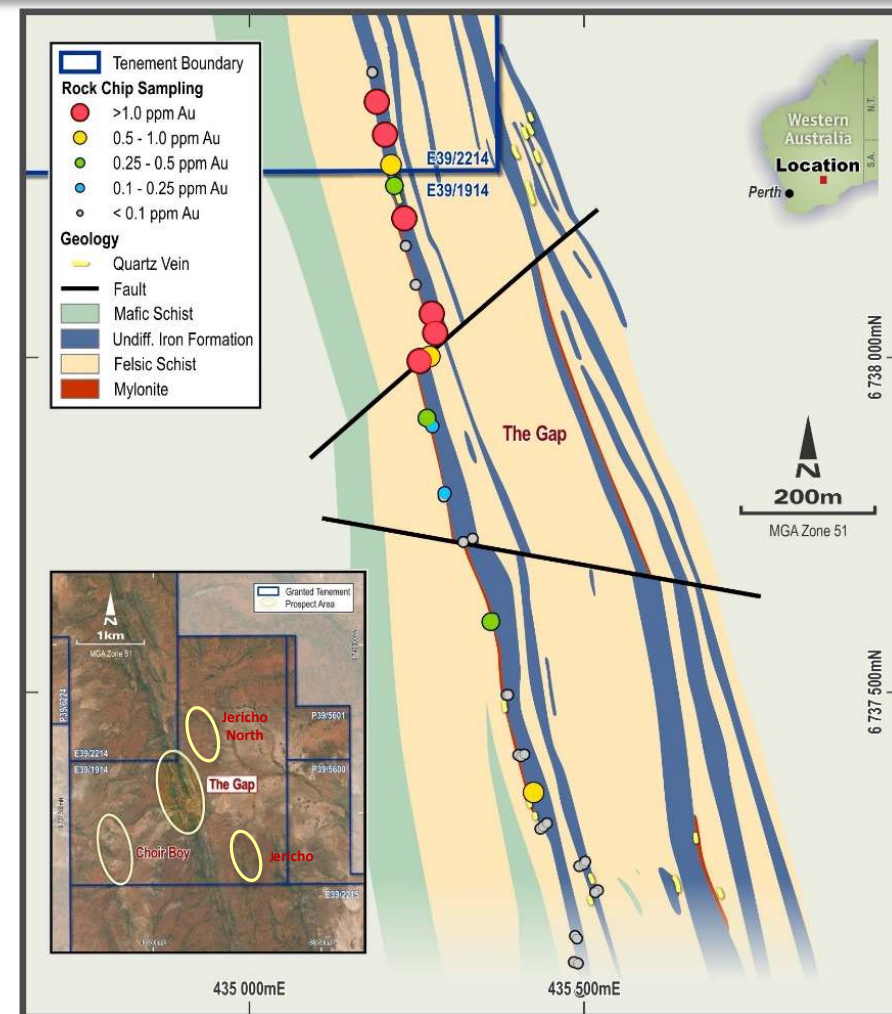
- Western margin of the LTZ, approximately 35km north-northeast of Hobbes Licence
- Choirboy Prospect >800m strike
  - CBP001 - 8m @ 1.66g/t gold from surface
  - CBP007 - 4m @ 3.66g/t gold from 42m
  - CBP008 - 15m @ 0.95g/t gold from 61m
  - CBR014 - 2m @ 5.07g/t gold from 47m
- At Choirboy recent systematic rock-chip sampling defined 570m discontinuous strike of >1.0g/t gold up to 16m wide
- Up to 19.65g/t gold returned in rock-chips



# YARRI PROJECT – THE GAP, JERICHO AND JERICHO NORTH PROSPECTS (E39/1914)



- Selected rock-chip sampling at The Gap Prospect defined 180m continuous strike of >1.0g/t gold
- Jericho Prospect – sparsely drilled with up to 1.7g/t gold (max downhole) over anomalous zone up to 900m long
- Jericho North - sparsely drilled with up to 6.71g/t gold (max downhole)
- Potential reconnaissance drilling targets for 2023

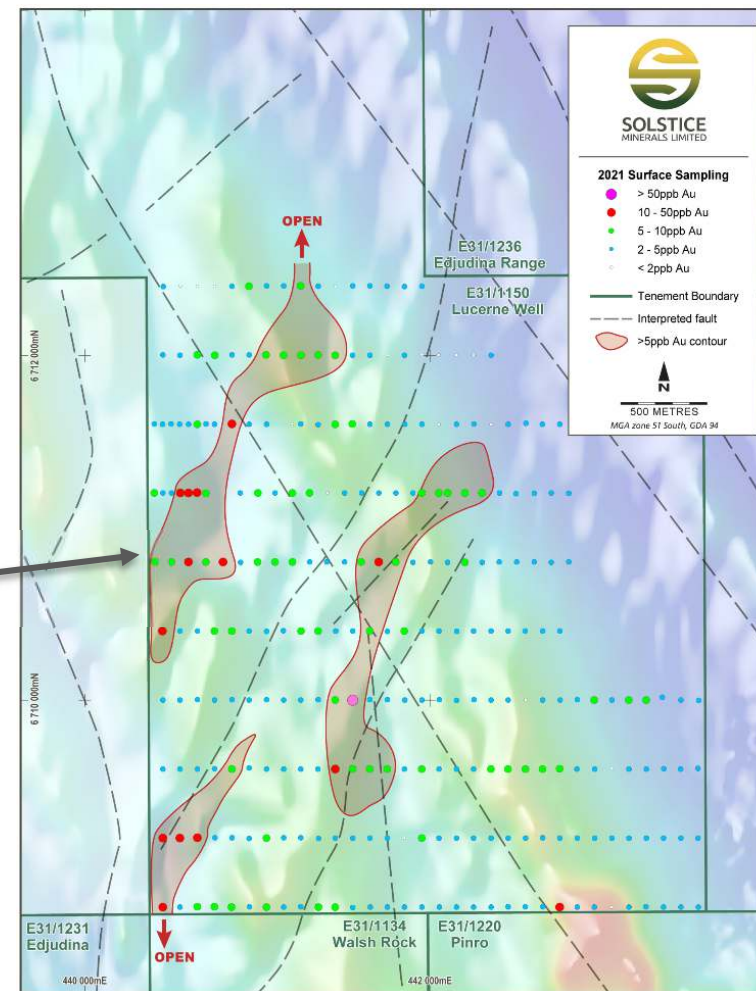
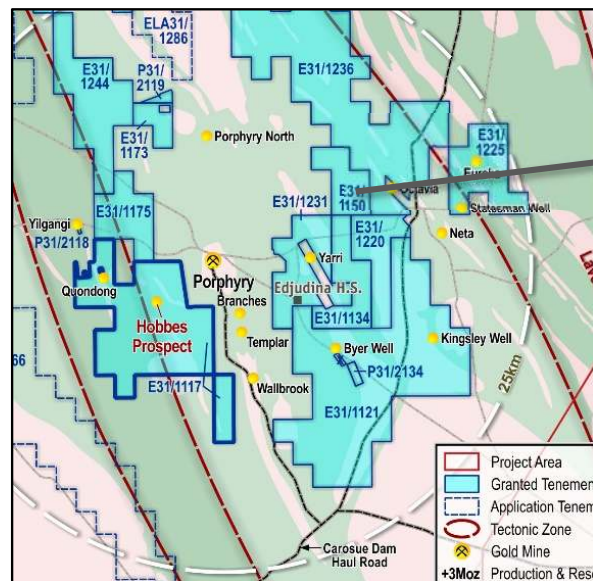




# YARRI PROJECT – LUCERNE WELL LICENCE (E31/1150)



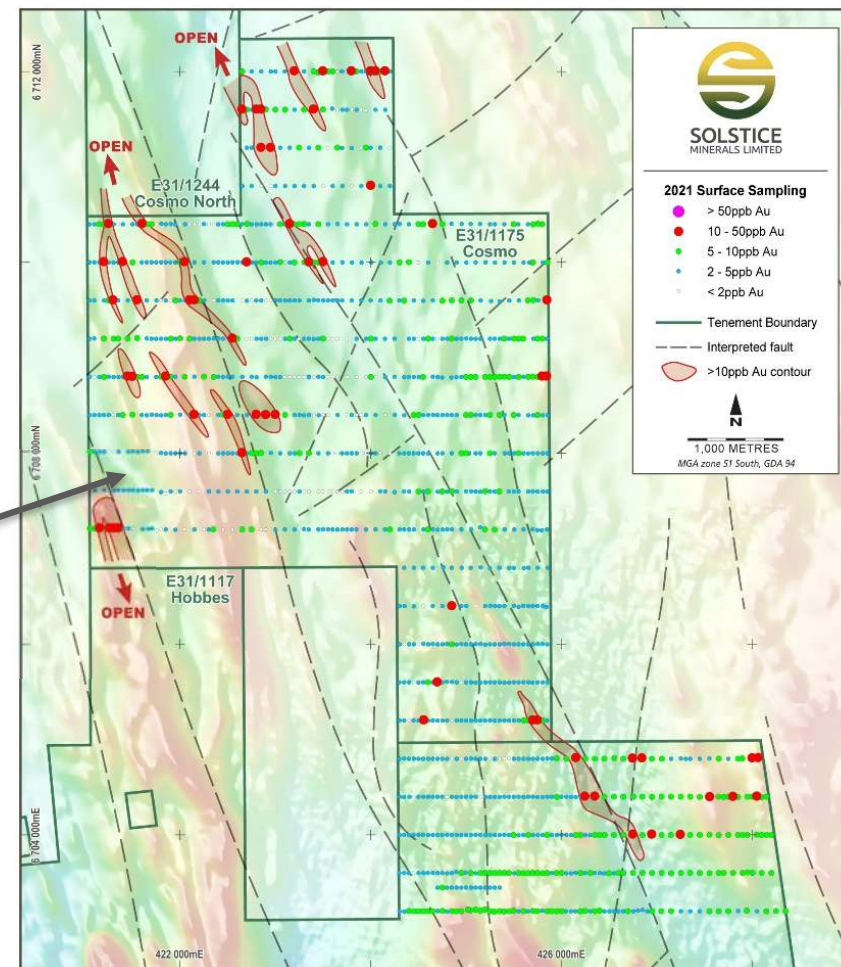
- Approximately 15km NE of Hobbes Licence
- Exciting zone of > 5ppb gold-in-soil anomalism defined from UFF sampling
- Strike NNE coincident with fault interpreted from aeromagnetics
- Up to 1.7km length and 150 to 300m width
- Untested by historical drilling
- Core of the anomaly >20ppb gold up to 800m long
- Peak gold value of 50.7ppb



# YARRI PROJECT – COSMO LICENCE (E31/1175)



- North of and contiguous with the Hobbes Licence
- Several anomalous > 10ppb gold-in-soil zones from UltraFine fraction (UFF) sampling
- Strike NNW and subparallel to the KKTZ
- Untested by historical drilling
- Up to 1.8km length and 200 to 300m width
- Peak gold value of 49.3ppb

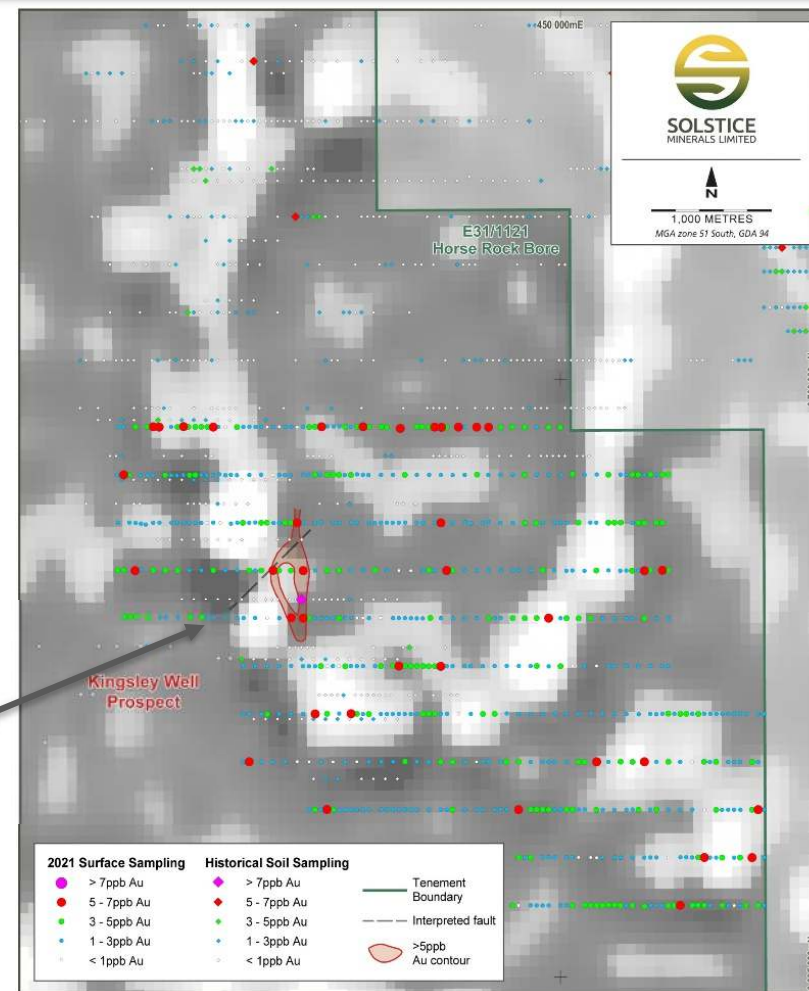
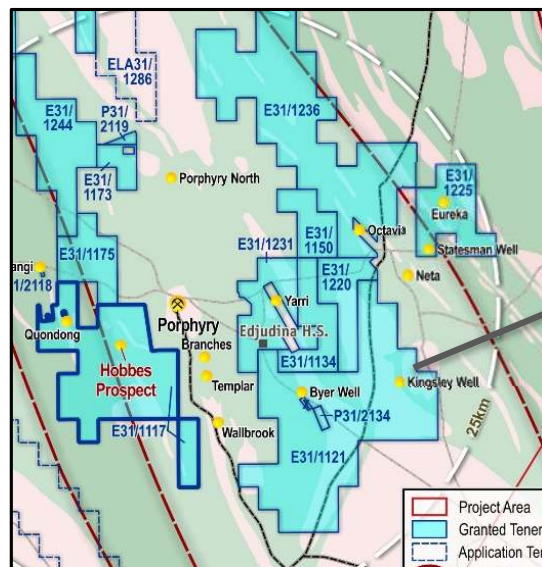




# YARRI PROJECT – KINGSLEY WELL PROSPECT, HORSE ROCK BORE LICENCE (E31/1121)



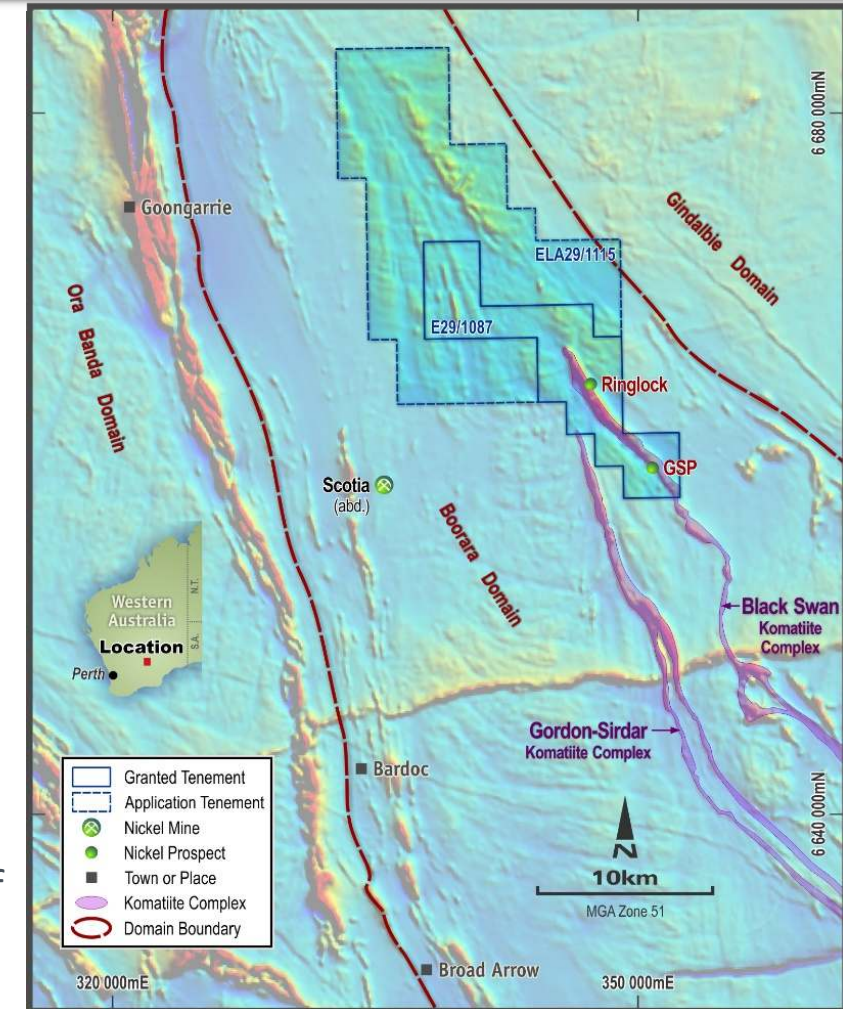
- Kingsley Well Prospect is 20km east of Hobbes Licence
- > 10ppb gold-in-soil anomalism defined from UFF sampling
- Striking NS up to 1km length and 100 to 150m width
- Adjacent to NNE fault interpreted from regional aeromagnetic data
- Supported by an historical gold-in-soil anomaly (>50ppb)
- Untested by drilling



# KALGOORLIE PROJECT – NICKEL SULPHIDE POTENTIAL



- Located approximately 80km NW of Kalgoorlie in the Kalgoorlie Terrane, host to significant gold and nickel deposits
- Interpreted strike extension of the Black Swan Komatiite Complex (**BSKC**) - 30km along strike from Silver Swan nickel deposit (previous UG production 2.7Mt @ 5.1% Ni\*)
- E29/1087 hosts approximately 10km strike of BSKC
- BSKC proven to host primary massive and disseminated nickel sulphide mineralisation defined from historical drilling
- GSP nickel Prospect is most advanced with numerous significant historical drill results
  - GS033 26.01m @ 1.04% nickel from 95m
  - GS013 6.71m @ 1.61% nickel from 162.15m
  - RPD002 6m @ 2.3% nickel from 85m
  - GS022 4m @ 1.0% nickel from 193m
- Several other nickel prospects are defined and significant zones of prospective BSKC remain poorly tested



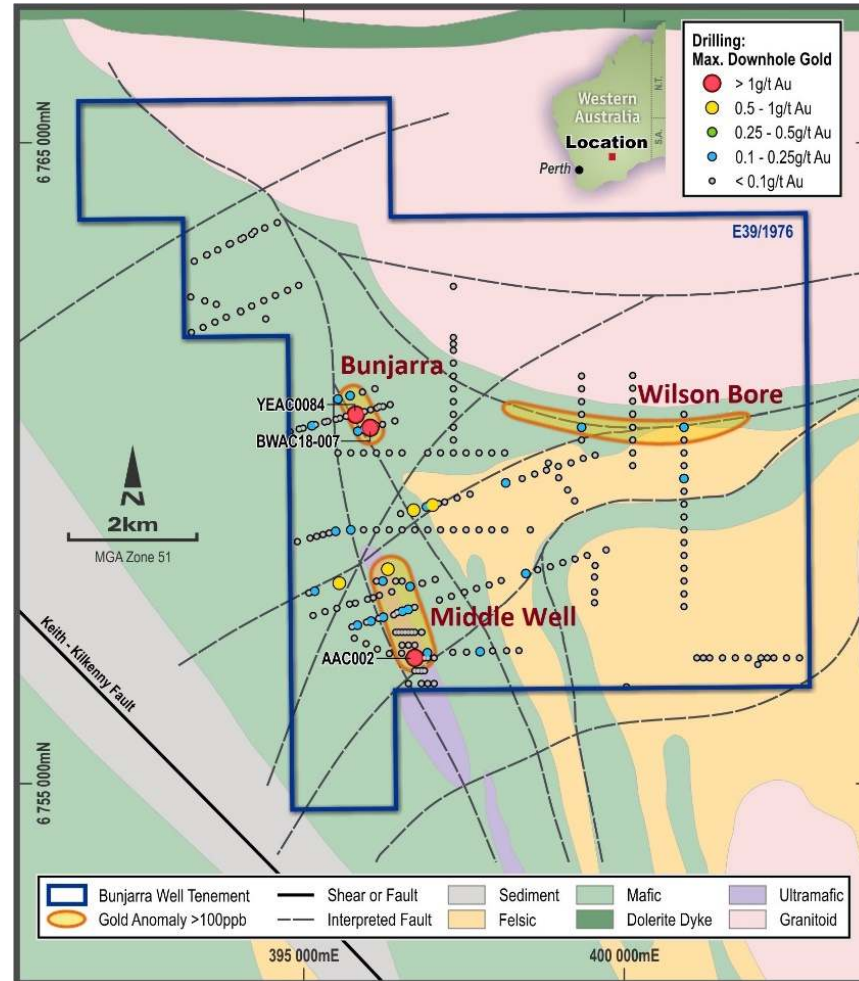
\*Source: Poseidon Nickel Presentation – Australian Nickel Conference 5 October 2021



# YUNDAMINDRA PROJECT – BUNJARRA TENEMENT (E39/1976)



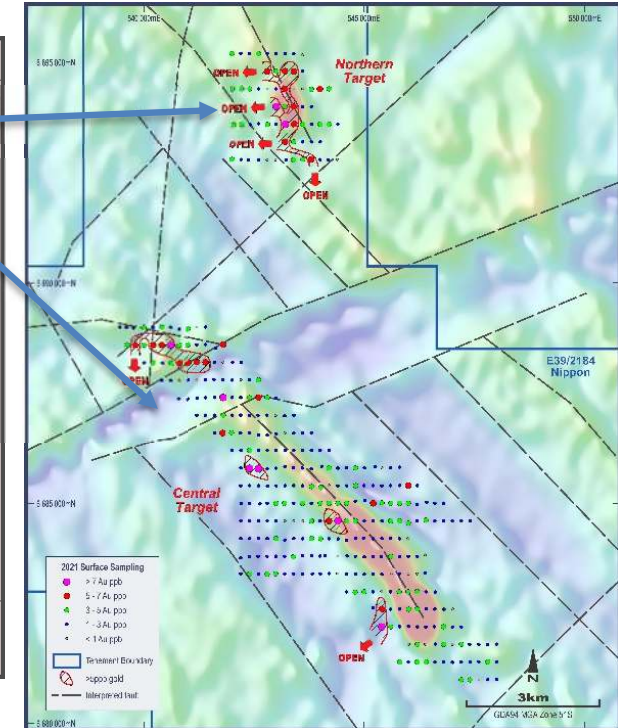
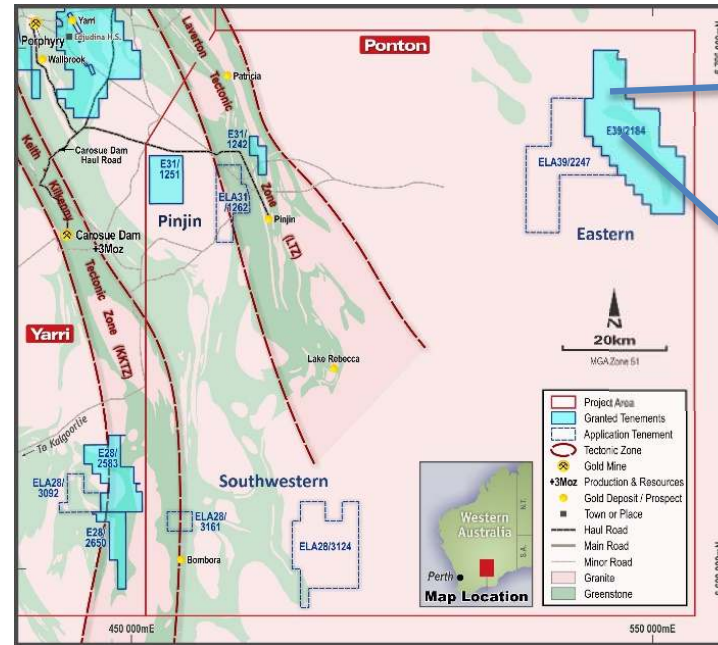
- Eastern margin of the KKTZ, approximately 60km northwest of Hobbes Licence
- Limited historical gold exploration
- Bunjarra Prospect
  - Wide spaced historical drilling
    - BWAC18-007 - 3m @ 5.35 g/t gold from 34m
    - YEAC0084 - 4m @ 1.06 g/t gold from 36m
  - >100ppb (max downhole gold) over >900m strike and open
- Middle Well Prospect
  - Historical drilling indicates 2km anomalous corridor
  - UFF sampling peak anomalism of 11.6ppb gold
  - Coincident with a NW trending aeromagnetic anomaly and the KKTZ
- Wilsons Bore Prospect
  - West northwest 5km long zone of drill intercepted anomalism
- Reconnaissance drilling planned in 2023



# PONTON PROJECT – NIPPON TENEMENT (E39/2184)



- Project comprises three granted licences and four applications covering 908km<sup>2</sup>
- Three groups: Pinjin, Eastern and Southwestern
- Solstice has targeted the eastern granted licence (E39/2184) with soil sampling over two aeromagnetic targets
- Northern area - 2.8km long up to 800m wide >5ppb gold-in-soil anomaly
- Central area – 1.2km gold-in-soil anomaly over a 9.5km long aeromagnetic anomaly
- Follow-up sampling in progress Q2 2022



# PROPOSED EXPLORATION TIMELINE



Project	Prospect	Activity	2022			2023			
			Q2	Q3	Q4	Q1	Q2	Q3	Q4
Yarri	Hobbes	Drilling RC & DD, MRE	✓	✓	✓				
	Hobbes North	Drilling AC		✓					
	Hobbes South	Drilling AC		✓					
	Statesman Well	Drilling RC			✓				
	Choirboy	Drilling RC					✓		
Kalgoorlie	GSP	Drilling DD, Geophysics			✓	✓			
	Ringlock	Drilling RC					✓		
Yundamindra	Bunjarra	Drilling AC				✓			
	Middle Well	Drilling AC				✓			
Ponton	Northern (Nelson)	Surface Geochem, Drilling AC						✓	
	Central (Trafalgar)	Surface Geochem, Drilling AC							✓





- “Back to its roots” in the Eastern Goldfields where the team has previously made major discoveries – Nimary-Jundee, Dalgaranga and Mertondale
- Extensive ground package assembled using consolidated belt scale approach within the highly prospective Keith-Kilkenny and Laverton Tectonic Zones – exploration programs ready to go
- Advanced Hobbes Licence as first point of focus – significant primary and supergene gold mineralisation
- Infill RC and diamond program planned for Hobbes in Q2/Q3 2022 to deliver maiden MRE
- Significant komatiite nickel sulphide mineralisation at Ringlock Dam provides second focus with drilling follow-up of historical high-grade intercepts scheduled to commence Q4 2022
- Pipeline of other exciting drill ready and greenfields targets being advanced

### **Well credentialed Board and Management to Deliver Shareholder Value**

- Team has had major previous success in the Eastern Goldfields of WA and Africa, delivering returns to shareholders in excess of US\$8 billion
- Exploration team in place and already “boots on the ground”