



GOLD FIELDS

Agnew Gold Mine

Craig Bradshaw, General Manager

Forward Looking Statements



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Certain statements in this document constitute “forward looking statements” within the meaning of Section 27A of the US Securities Act of 1933 and Section 21E of the US Securities Exchange Act of 1934.

In particular, the forward-looking statements in this document include among others those relating to environmental, social and governance (ESG)-related initiatives and metrics including Scope 1-2 emissions, water recycled/reused and host community value. Such forward looking statements involve known and unknown risks, uncertainties and other important factors that could cause the actual results, performance or achievements of the company to be materially different from the future results, performance or achievements expressed or implied by such forward looking statements. Such risks, uncertainties and other important factors include among others: economic, business and political conditions in the countries where Gold Fields operates; decreases in the market price of gold and, to a lesser extent, copper and silver; hazards associated with underground and surface gold mining; labour disruptions; changes in government regulations, particularly taxation and environmental regulations; and new legislation affecting mining and mineral rights; changes in exchange rates; currency devaluations; the availability and cost of raw and finished materials; the cost of energy and water; the impacts of climate change, water scarcity or natural disasters; inflation and other macro-economic factors; and the impact of occupational health risks experienced by Gold Fields employees.

Further details of potential risks and uncertainties affecting Gold Fields are described in Gold Fields' filings with the Johannesburg Stock Exchange and the United States Securities and Exchange Commission, including the Integrated Annual Report 2020 and the annual report on Form 20-F for the fiscal year ended 31 December 2020. Gold Fields undertakes no obligation to update publicly or release any revisions to these forward-looking statements to reflect events or circumstances after the date of this report or to reflect the occurrence of unanticipated events.

Introducing the team

Senior Leadership Team



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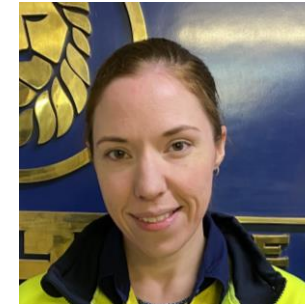
Craig Bradshaw
General Manager



Nigel Thomas
Manager : Mining



Tristan Freemantle
Manager: Processing



Elaine Murphy
Manager : Geology



Shanelle Stanger
Unit Manager :
Commercial



Colin Tan
Superintendent : Business
Improvement



Jamie Dickson
Lead : OHS



Malin Johansson
Lead : People &
Engagement



Vacant
Lead : Environment &
Community



Karen Davtyan
Unit Manager :
Underground Mining

Solid production base with growth pipeline – leading in energy solution innovation



- *Mining:* A 40-year history of consistent production from open pit and underground mines since 1980, with production in excess of 5.64Moz since Gold Fields took ownership in 2001
- *Production:* Waroonga (72%) underground complex and New Holland (28%) underground mine
 - FY 2021 232,000 oz
 - FY 2022 guidance 240,000 oz
- *Cashflow:* Strong cashflow generation – FY2021 pre-tax free cashflow A\$149M
- *Growth:* Sustained exploration budget of A\$25M pa for past six years, driving strong resource to reserve conversion and a life of mine of 7+ years, with mill capacity to support future growth profile
- Significant investment over last 4 years: New 950 person camp, 20MW microgrid and crushing circuit.



Welcome to Agnew Gold Mine



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History of the Agnew mine



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1894

Patrick Lawlers' prospecting party finds gold

1904

Waroonga Mine opened

1976

WMC purchases Waroonga Leases and Emu Mine

During the 1980s the first ore is mined at Modern Agnew and Forsayth NL purchases Great Eastern Lease. The Agnew and Lawler's processing facilities are commissioned and mining at Redeemer commences.

1995

Mining at New Holland Commences

1990s sees several ownership changes from Forsayth to Plutonic which is then acquired by Homestake

2001

Gold Fields acquires Agnew from MWC

Homestake merges with Barrick

2013

Gold Fields purchases Lawlers from Barrick

Redeemer North and Barren Lands is discovered and a year later, work commenced on a Gold Fields village and the Hybrid Power Station which were both commissioned in 2019. The 'One Mine' Strategy commenced in 2020.

2021

Gold Fields' 'One Mine' strategy executed



Operations Overview



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WAROONGA UNDERGROUND

Mineral Resources:

- 5.20Mt @ 7.7g/t for 1.28Moz

Mineral Reserves:

- 2.2Mt @ 7.6g/t for 563koz

Overview:

- One underground mine, accessed by one portal.
- Main focus is the higher grade Kath orebody.
- Utilise longhole open stoping combined with paste fill.
- Focused on sustainable energy sources – wind / solar.
- Vertical depth of 1,400m.
- High stress conditions, utilise fibrecrete for ground support.



NEW HOLLAND UNDERGROUND

Mineral Resources:

- 7.8Mt @ 4.27g/t for 1.07Moz

Mineral Reserves:

- 1.01Mt @ 4.46g/t for 146koz

Overview:

- One underground mine, accessed by two portals which are in separate pits.
- Main focus is the Sheba South lode.
- Utilise longhole open stoping combined with room and pillar.
- Development intensive due to the flat nature of the orebody.
- Vertical depth of 900m.



BARREN LANDS / REDEEMER COMPLEX

Mineral Resources:

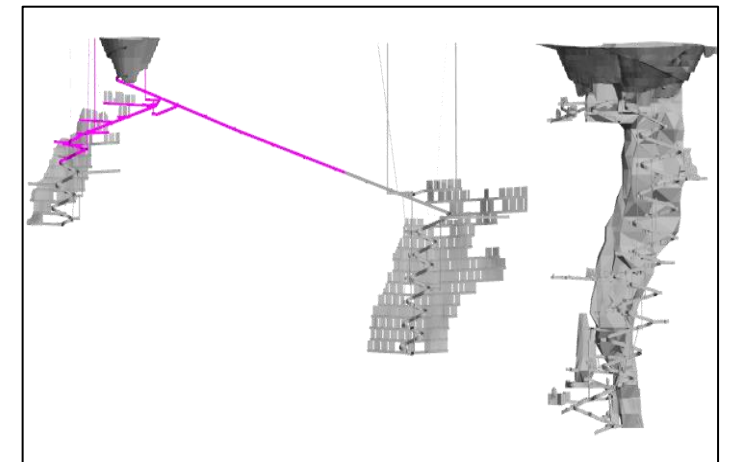
- 4.56Mt @ 5.51g/t for 0.8Moz

Mineral Reserves:

- 1.53Mt @ 5.48g/t for 269koz

Overview:

- Two underground mines, will be accessible by one portal via the current open pit being mined.
- Focus will be to mine both operations simultaneously.
- Utilise longhole open stoping combined with pillar and pastefill.
- Vertical depth of 550m.



Maximising the potential of our assets

Production & Key Metrics



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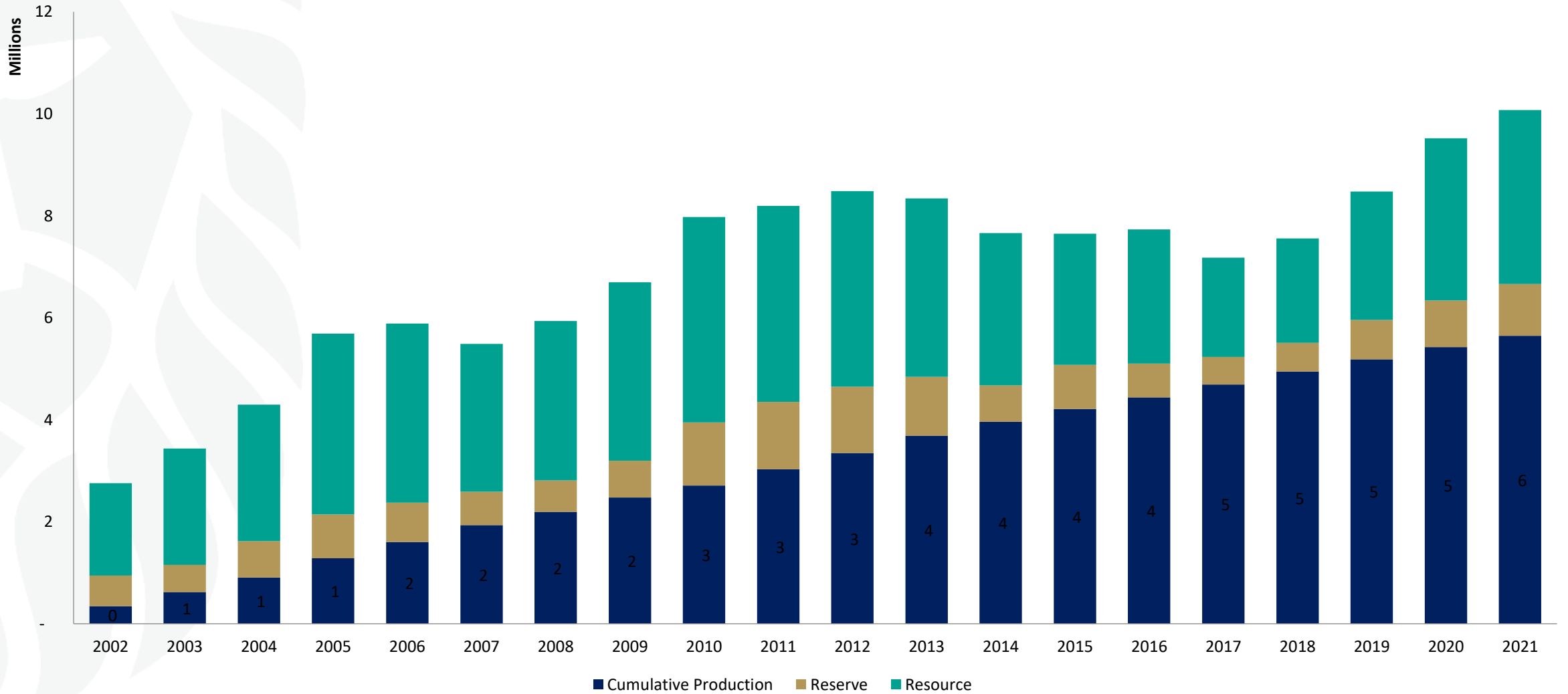
Metrics	Unit	FY 2021 Actuals	FY 2022 Guidance
Physicals:			
Ore mined	kt	1,048	1,131
Mine grade	g/t	6.63	6.96
Ounces Mined	koz	223	253
Ore processed	kt	1,254	1,204
Head grade	g/t	5.76	6.66
Gold Produced	koz	232	240
Financials:			
Capital Expenditure	AUD\$m	117	127
AISC	AUD\$/oz	1,550	1,630
AIC	AUD\$/oz	1,741	1,860
Adjusted pre-tax free cash flow	AUD\$m	149	-
Safety:			
TRFIR - 12 MMA	NUM	7.22	-
SER	NUM	16.24	-
Workforce - Employees	NUM	301	295
Workforce - Contractors	NUM	417	498

Production profile since acquisition



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Ounce Profile

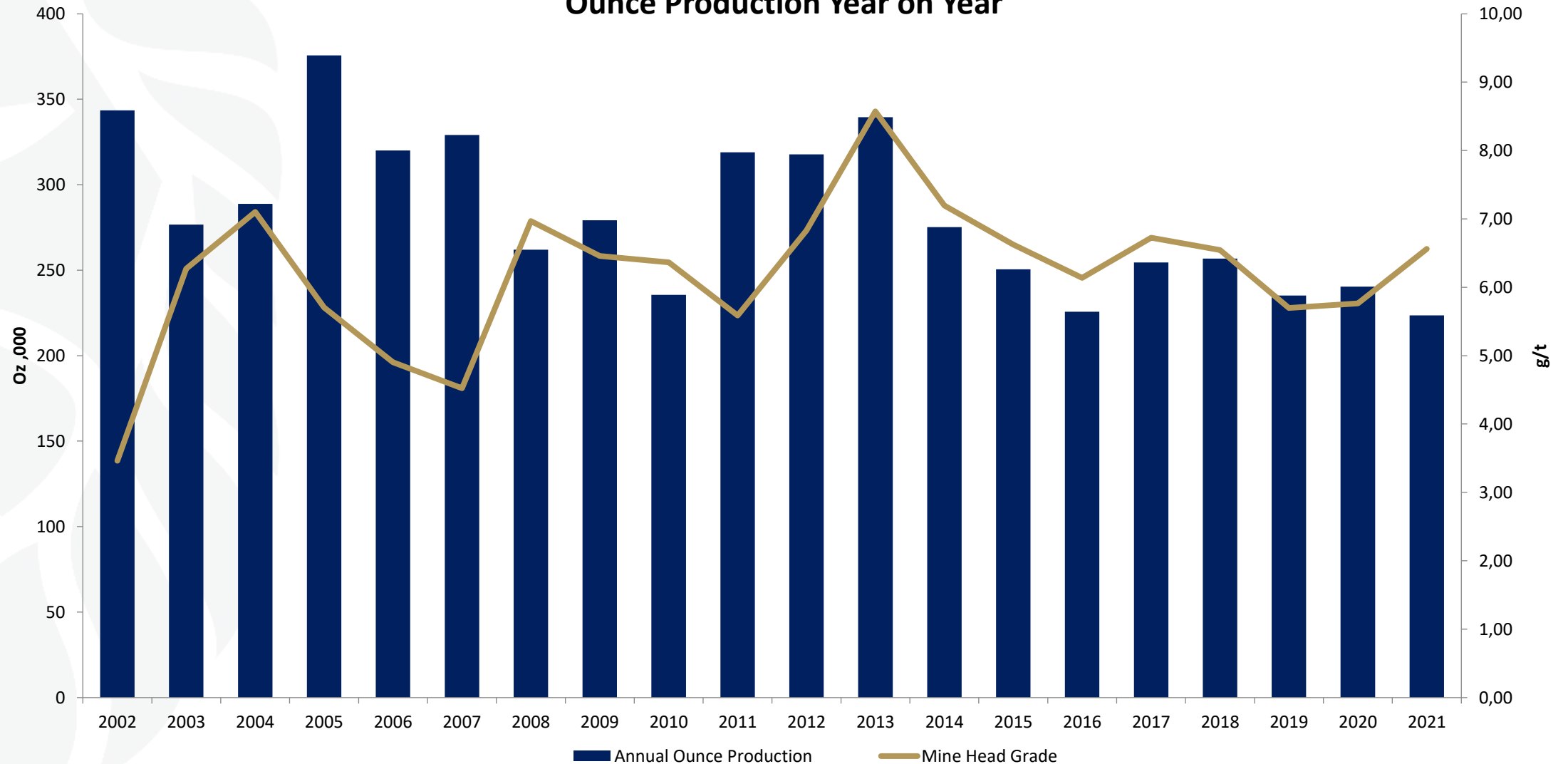


Annualised Production Profile



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Ounce Production Year on Year



Growing the value and quality of our portfolio

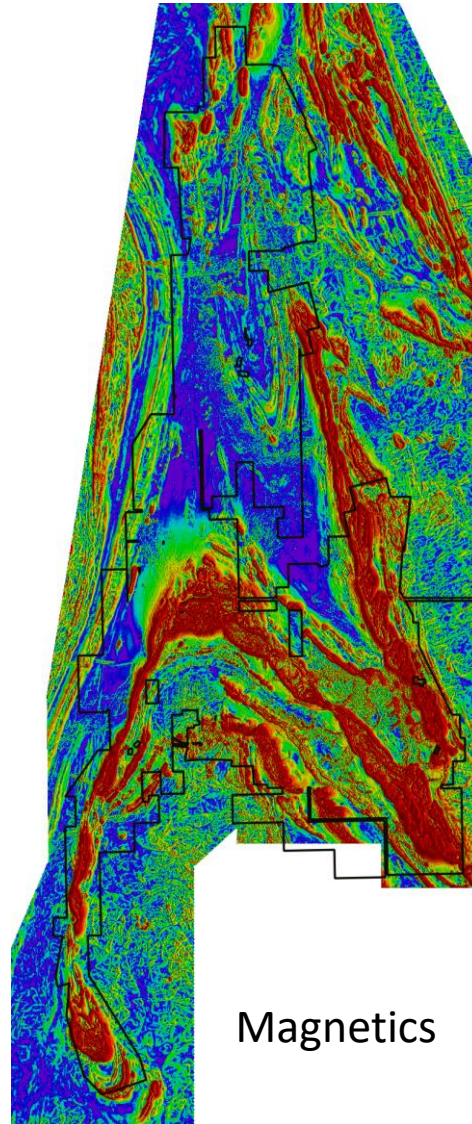
Growing the value and quality of our portfolio



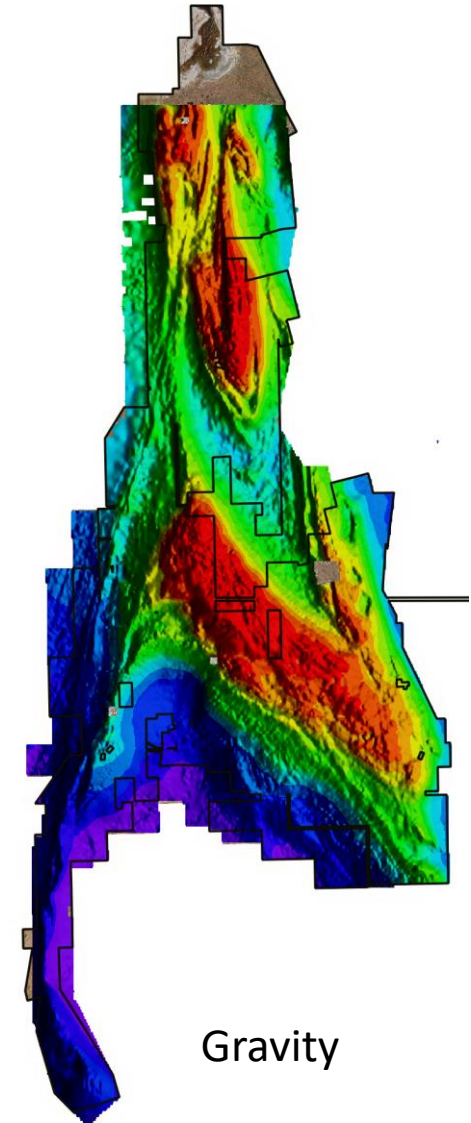
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Landsat



Magnetics

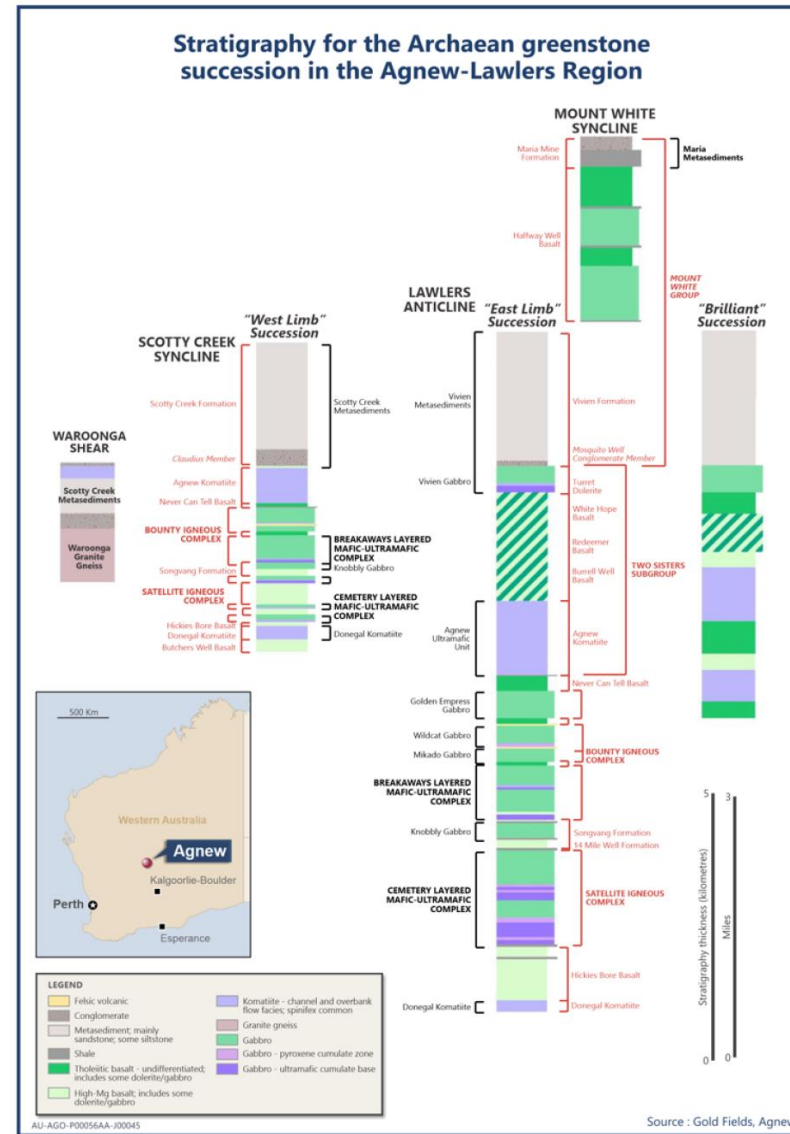
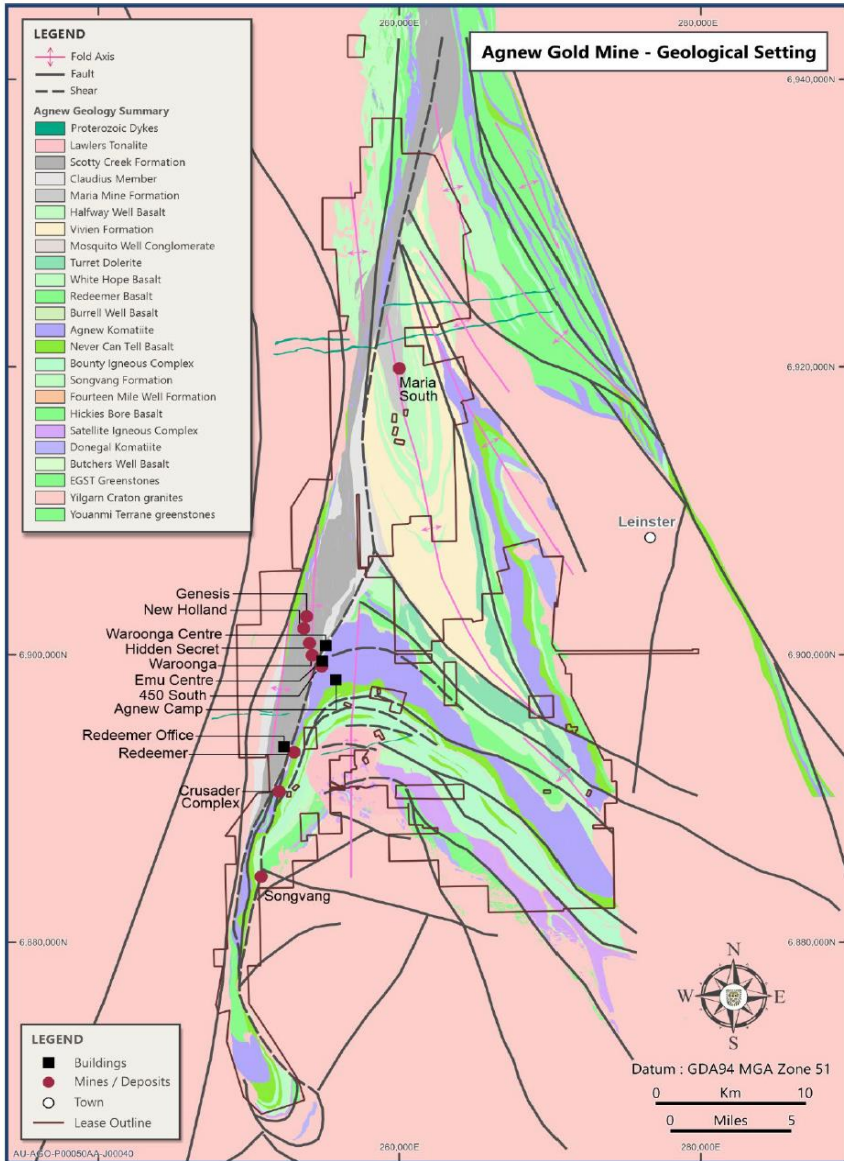


Gravity

Growing the value and quality of our portfolio



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Notes: a) Modified from Beardmore, 2002.

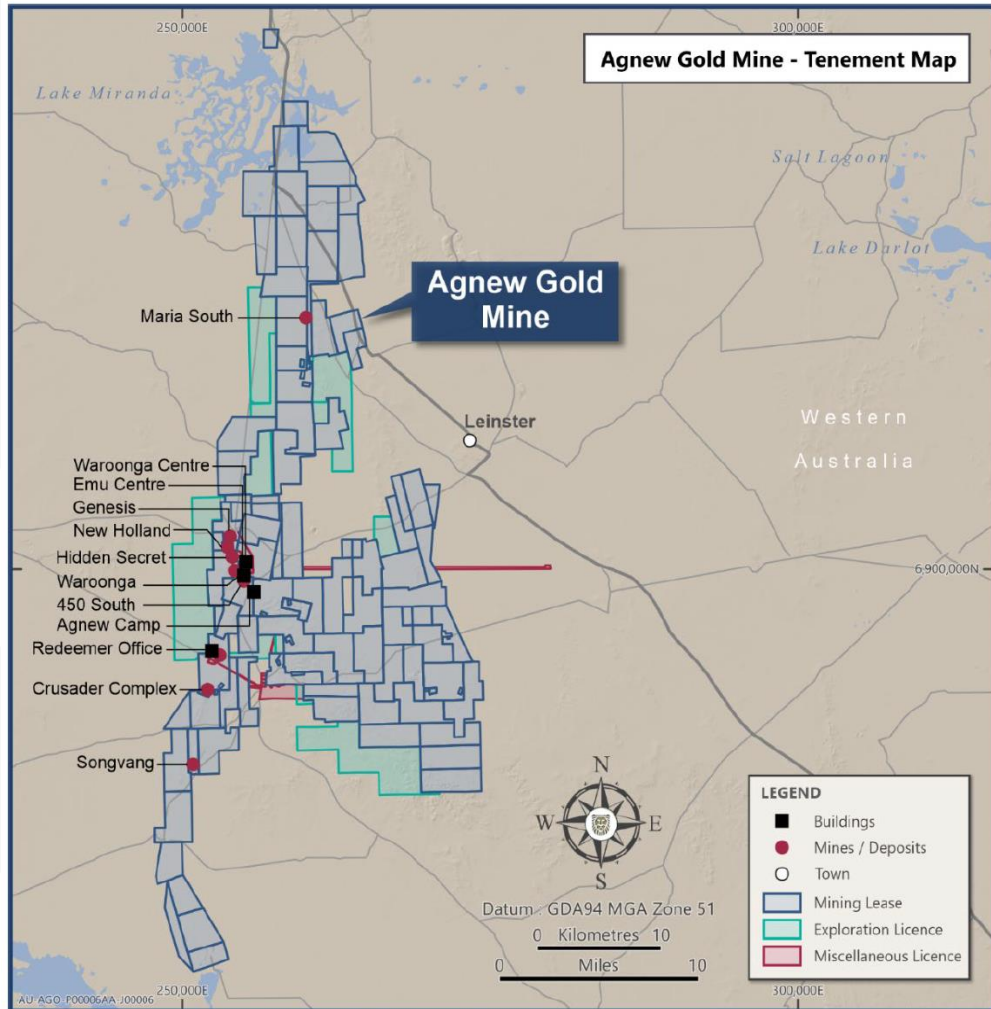
Source: Agnew CPR, 2021



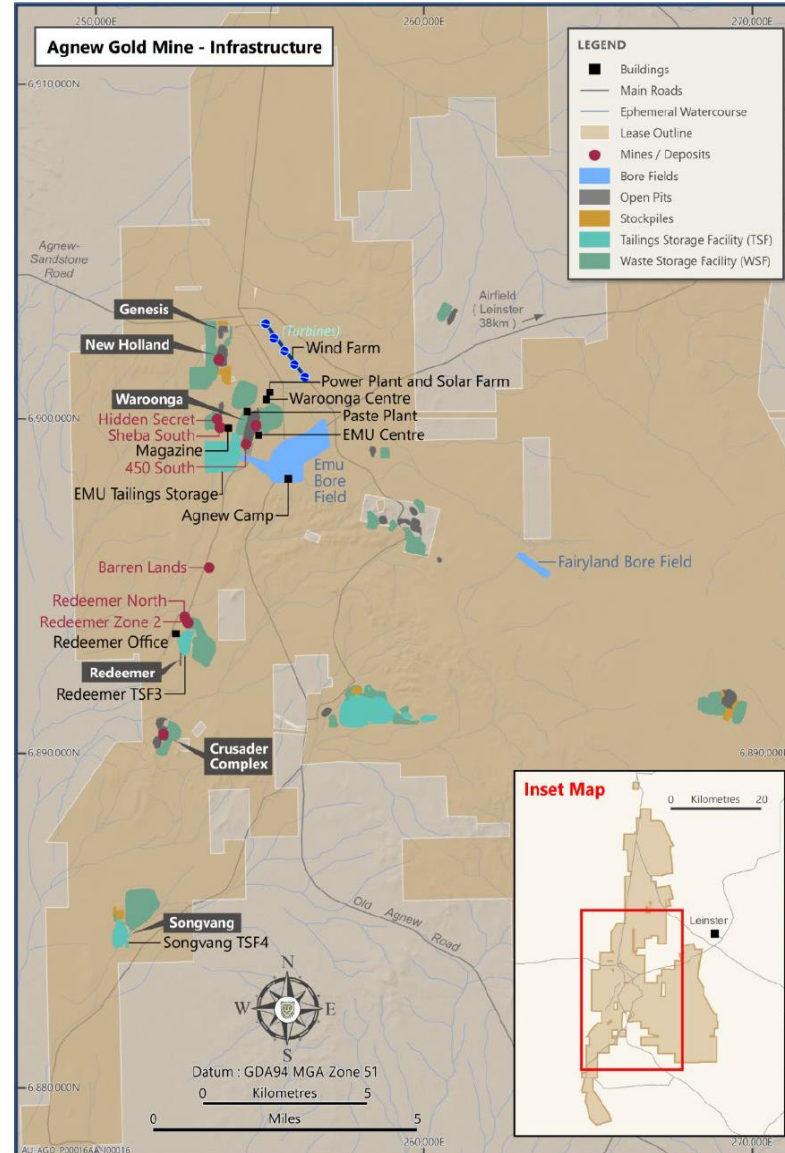
Growing the value and quality of our portfolio



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Source: Agnew CPR, 2021



Source: Agnew CPR, 2021



Source: Agnew CPR, 2021

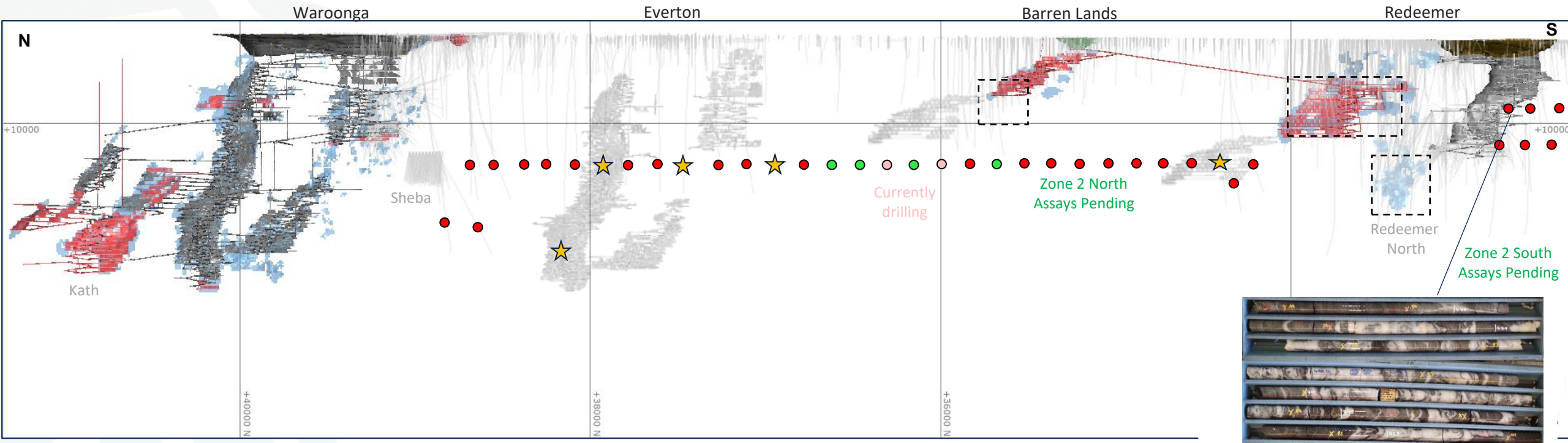
- Total landholding - 72,542 hectares
- Exploration spend +/- A\$25m/pa
- Expected metres drilled 108,000m (2022 forecast)

Brownfields success at Agnew: Waroonga to Redeemer



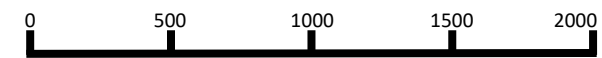
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View East



Testing Scotty Creek Zone 2 to Agnew Komatiite

- Completed drillhole
- 2021 Reserves
- ★ Significant Intercept
- Planned Target
- 2021 Resources
- 2021 Infill programs
- Results reported current quarter
- Light grey infrastructure - conceptual target
- Results reported previously



Growing the value and quality of our portfolio



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Waroonga North – Kim (view south)



New Holland – Sheba South (view south)



Building on our leading commitment to ESG

Safe production at Agnew



Key Statistics

- TRIFR YTD 10.31 (2021 6.70)
- Safety engagement rate YTD 13.10 (2021 12.60)

Aboriginal Engagement



- Key relationships with Traditional Owners
- Support for programs including Shooting Stars in Leonora
- On-country cultural learning

Community Engagement and Partnerships

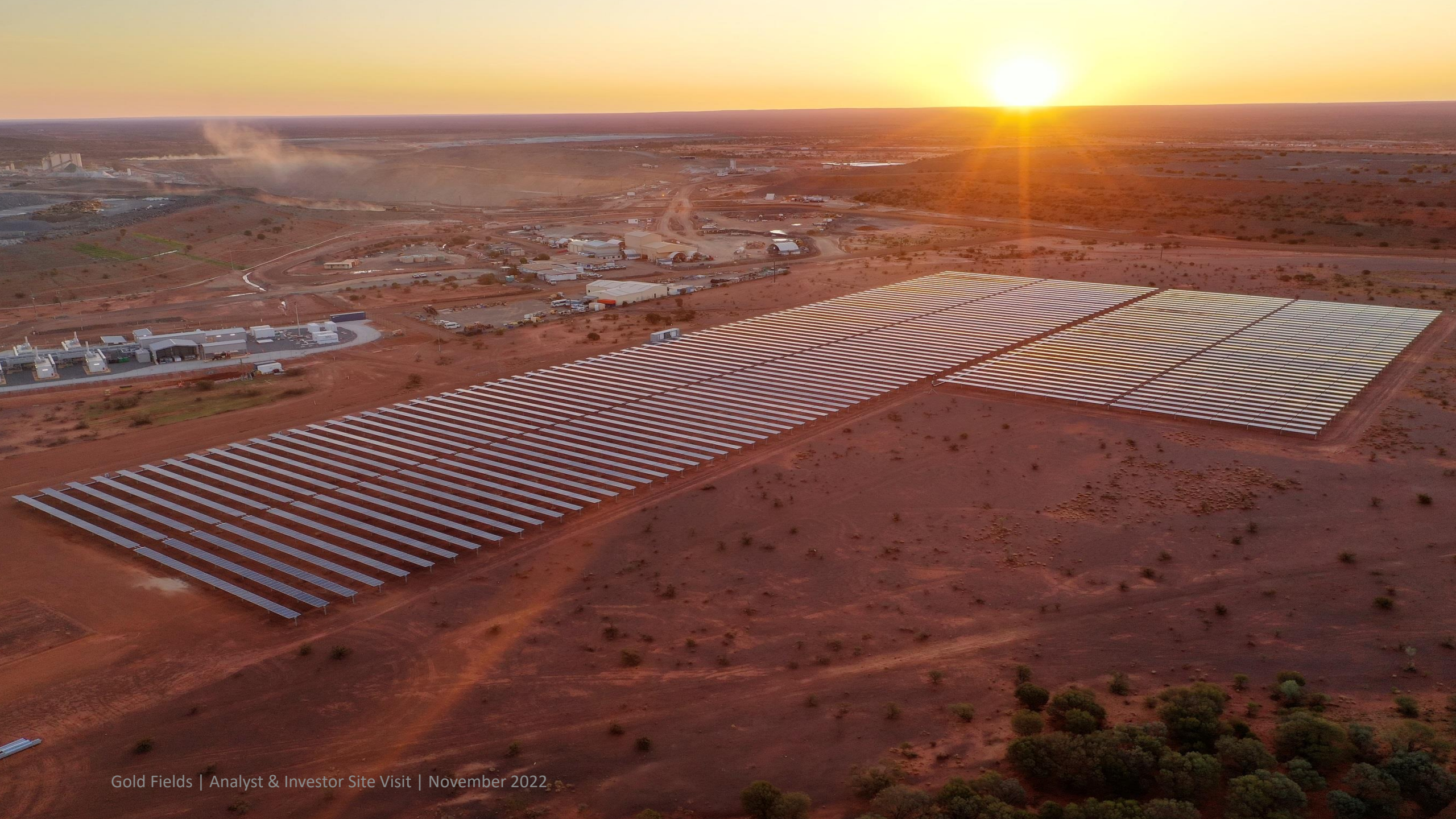


- Local School Engagement**
 - Leonora High School
 - Leinster Primary School
- WA School of Mines**
 - Vacation student program
 - Research programs

Decarbonisation



- Five 110m wind turbines with a rotor diameter of 140m, delivering 18MW
- 10,710-panel solar farm generating 4MW
- 13MW/4MWh battery system
- Off-grid 21MW gas/diesel engine power plant.



Key projects



Accommodation village upgrade

- Additional 136 rooms installed consisting of 120 single persons quarters rooms and 16 designated couples rooms
- Upgrade of security systems
- Inhouse entertainment system upgrade



Crushing Circuit Replacement

- 3 Stage crushing plant with throughput capacity of 1.7Mtpa
- Fine ore bin for dust management within the crushing area



Tailings Line Upgrade

- Increase mill throughput to 1.4Mtpa, with future-proofing of up to 1.7Mtpa
- 15.7km upgrade of existing piping
- Increase tails lines to withstand pressures up to 1600Kpa
- Change out to larger single hopper



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THANK YOU

Questions?

Case No-S-19-175
1696-FN-A-19-160