



Gold Fields in Australia – Investment & Growth

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GOLD FIELDS

Forward looking statements

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In particular, the forward looking statements in this document include among others those relating to the Damang Exploration Target Statement; the Far Southeast Exploration Target Statement; commodity prices; demand for gold and other metals and minerals; interest rate expectations; exploration and production costs; levels of expected production; Gold Fields’ growth pipeline; levels and expected benefits of current and planned capital expenditures; future reserve, resource and other mineralisation levels; and the extent of cost efficiencies and savings to be achieved. 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 South Africa, Ghana, Australia, Peru and elsewhere; the ability to achieve anticipated efficiencies and other cost savings in connection with past and future acquisitions, exploration and development activities; decreases in the market price of gold and/or copper; hazards associated with underground and surface gold mining; labour disruptions; availability terms and deployment of capital or credit; 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; inflation and other macro-economic factors, industrial action, temporary stoppages of mines for safety and unplanned maintenance reasons; and the impact of the AIDS and other occupational health risks experienced by Gold Fields’ employees.

These forward looking statements speak only as of the date of this document. 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 document or to reflect the occurrence of unanticipated events.

Global Footprint

The global leader in sustainable gold mining

West Africa

Mines: Tarkwa and Damang
Joint Venture: Asanko
680koz (2018)

South Africa

Mine: South Deep
157koz (2018)

Americas

Mine: Cerro Corona (Peru)
Project: Salares Norte (Chile)
314koz (2018)

Australia

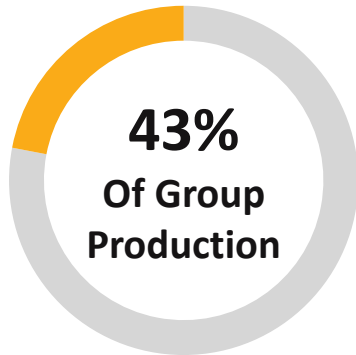
Mines: Agnew, Granny Smith and St Ives
Joint Venture: Gruyere
Production: 886koz (2018)
AIC: US\$943 p/oz (A\$1262 p/oz)



The world's 8th largest gold miner, with a total annual production of over 2 million ounces

Australia

Regional overview



Regional summary

- Agnew Gold Mine (Leinster)
- Granny Smith Gold Mine (Laverton)
- St Ives Gold Mine (Kambalda)
- Gruyere Joint Venture (200km from Laverton)

- 17 years in Western Australia
- Third largest gold producer in Australia
- 2,200+ direct employees and contractors
- Underground (80%) and Open Pit (20%)
- 43% of Group gold production
- 42% of Group net cash-flow
- Annual exploration spend ~A\$90m
- A\$834m total exploration spend since 2002



Key Investments for Growth

Investing for the future

- **Exploration** – maintaining A\$85-100m per annum spend in Australia
 - Granny Smith – continued growth in-mine
 - St. Ives Invincible growth
 - Agnew – Waroonga & New Holland growth, “emerging” Redeemer Complex
- **Strategic Investments**
 - New Agnew Camp
 - Microgrid standalone Power solution at Agnew – gas/solar/wind/battery
- **Gruyere Project** – delivery to production

Growth – Sustainability - Delivery

Granny Smith

FIFO operation located near Laverton

- 21km south of Laverton
- Underground operation – new Joey decline being created in Wallaby mine
- 750+ staff and contractors
- Production 270,000+ ounces per annum
- Ore processed 1.65+ million tonnes per annum
- Mineral Resources 7.83 Moz (2018)
- Mineral Reserves 2.24 million Moz (2018)
- Exploration spend A\$20m in 2019
- 8MW solar power generation system (20,000 PV panels) – in construction



St Ives

Predominantly residential site located in Kambalda

- Located 80km south of Kalgoorlie
- Combination of underground and open pit mines
- Investing \$100m in Invincible South underground
- 800+ staff and contractors
- Workforce 90% residential
- Production 360, 000+ ounces per annum
- 4.3 million tonnes of ore processed per annum
- Mineral Resources 3.92 million ounces (2018)
- Mineral Reserves 1.74 million ounces (2018)
- Exploration spend A\$35m in 2019
- Life of mine 2023+



Exploration – Greater Invincible

Greater Invincible



Greater Invincible Exploration

Growing Invincible – Potential for extensions and a new shoot

Target Description: Brecciated mudstone hosted mineralisation

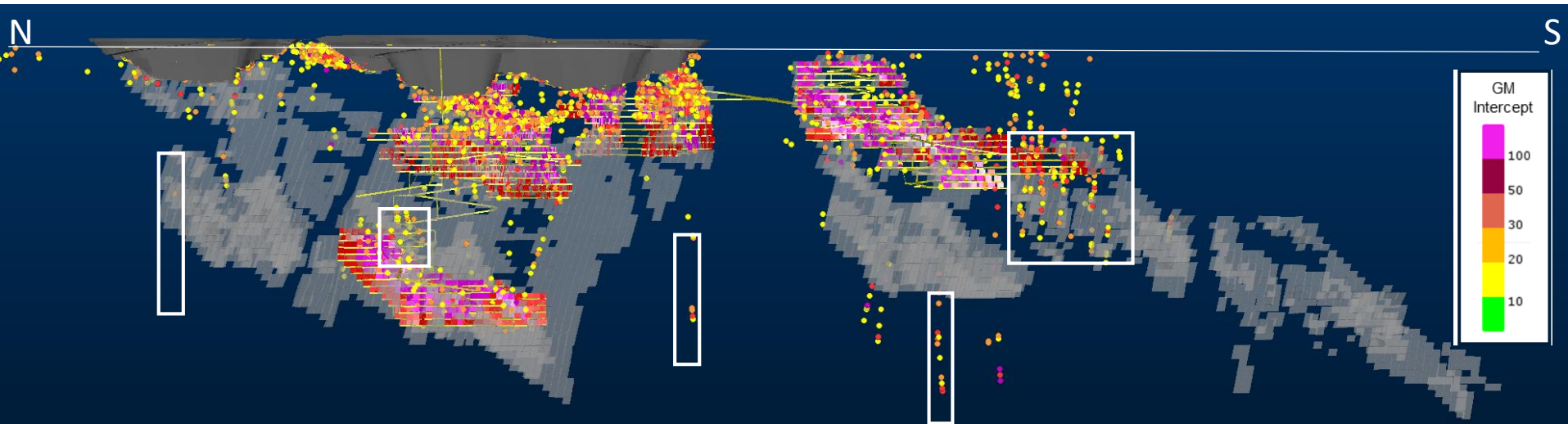
Potential: +2Moz

Geological Opportunities:

- Multiple lodes
- Down dip extensions of all lodes

Time to mining: <2yr

UG Extensions
Open Pit extensions



Greater Invincible North

Greater Invincible Mids

Invincible South

Invincible Deeps

Greater Invincible South

Agnew

FIFO operation located near Leinster

- 23km west of Leinster
- Underground operation – Waroonga and New Holland mines
- Production 235 000+ ounces per annum
- 660+ staff and contractors
- Tenement holding of over 600sqkms
- Mineral Resources 2.049 Moz (2018)
- Mineral Reserves 560 Koz(2018)
- Exploration spend A\$25m in 2019
- Industry first gas/solar/wind energy solution (+A\$100M investment)
- New accommodation camp in operation (A\$36M investment)
- Emerging Redeemer complex with exploration focus





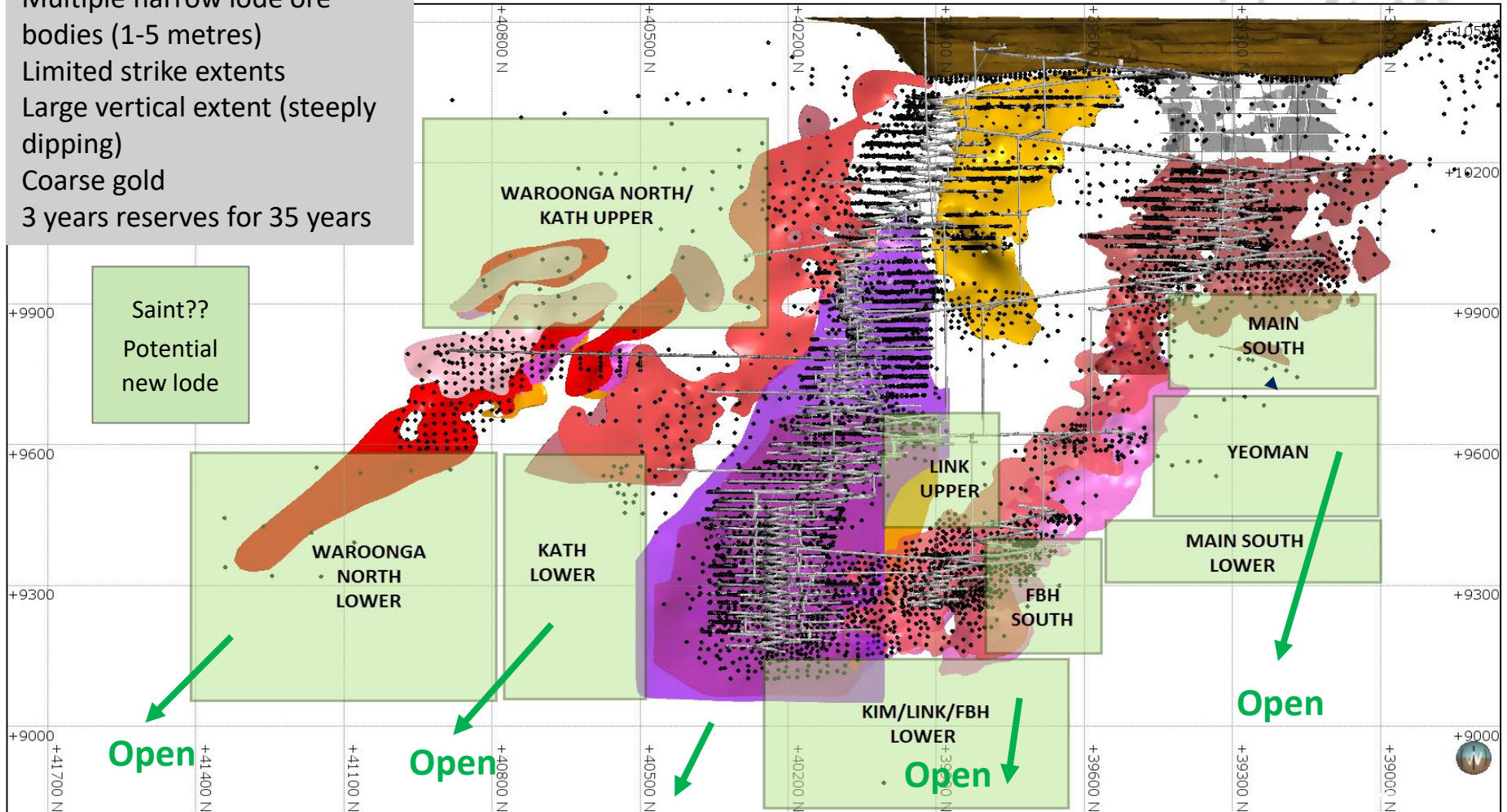
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Agnew Gold Mine

Exploration & Growth at Waroonga – focus areas

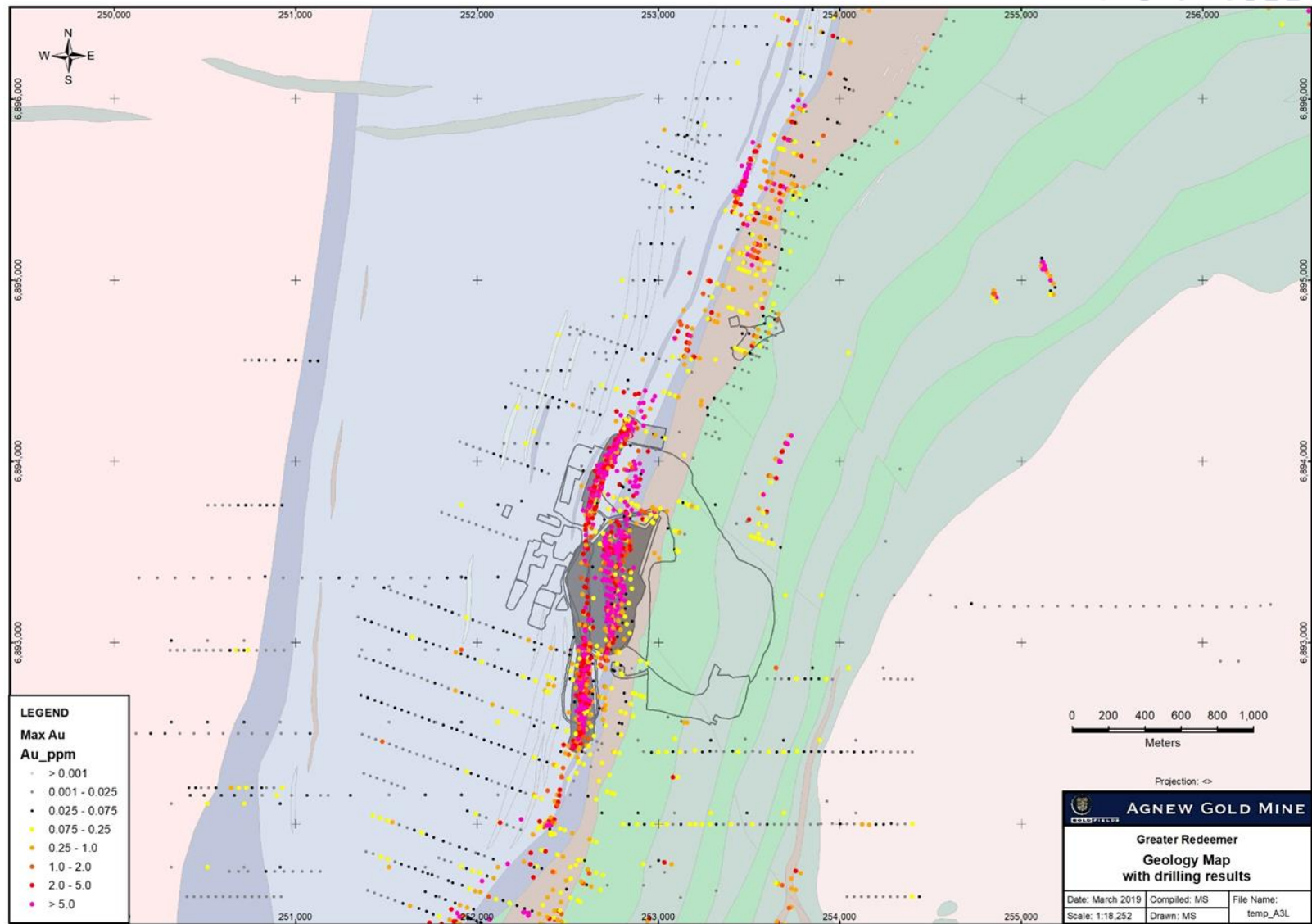
Context

Multiple narrow lode ore bodies (1-5 metres)
Limited strike extents
Large vertical extent (steeply dipping)
Coarse gold
3 years reserves for 35 years

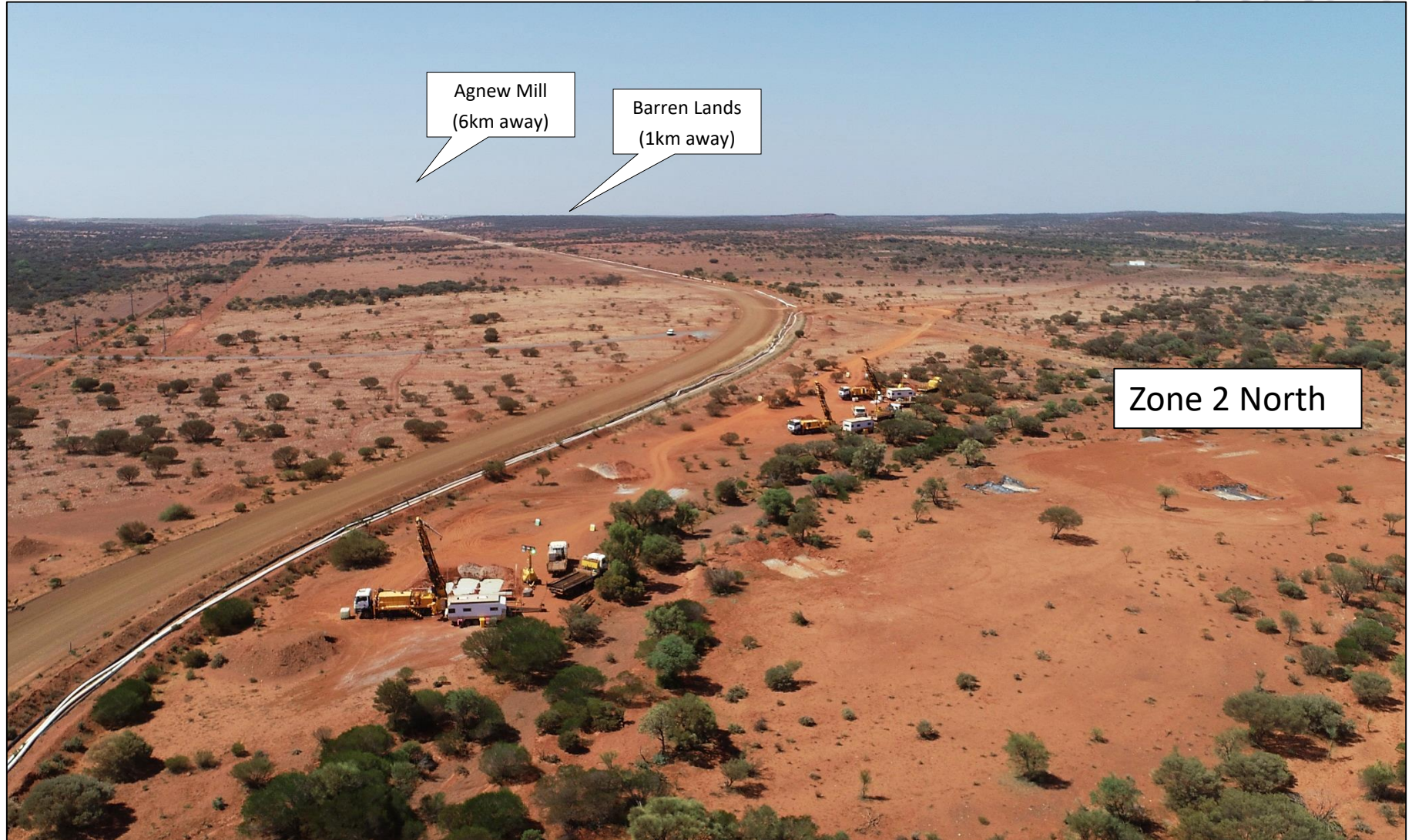


Mined since 1993 – Right Investment level maintains life and production profile

Exploration - Greater Redeemer

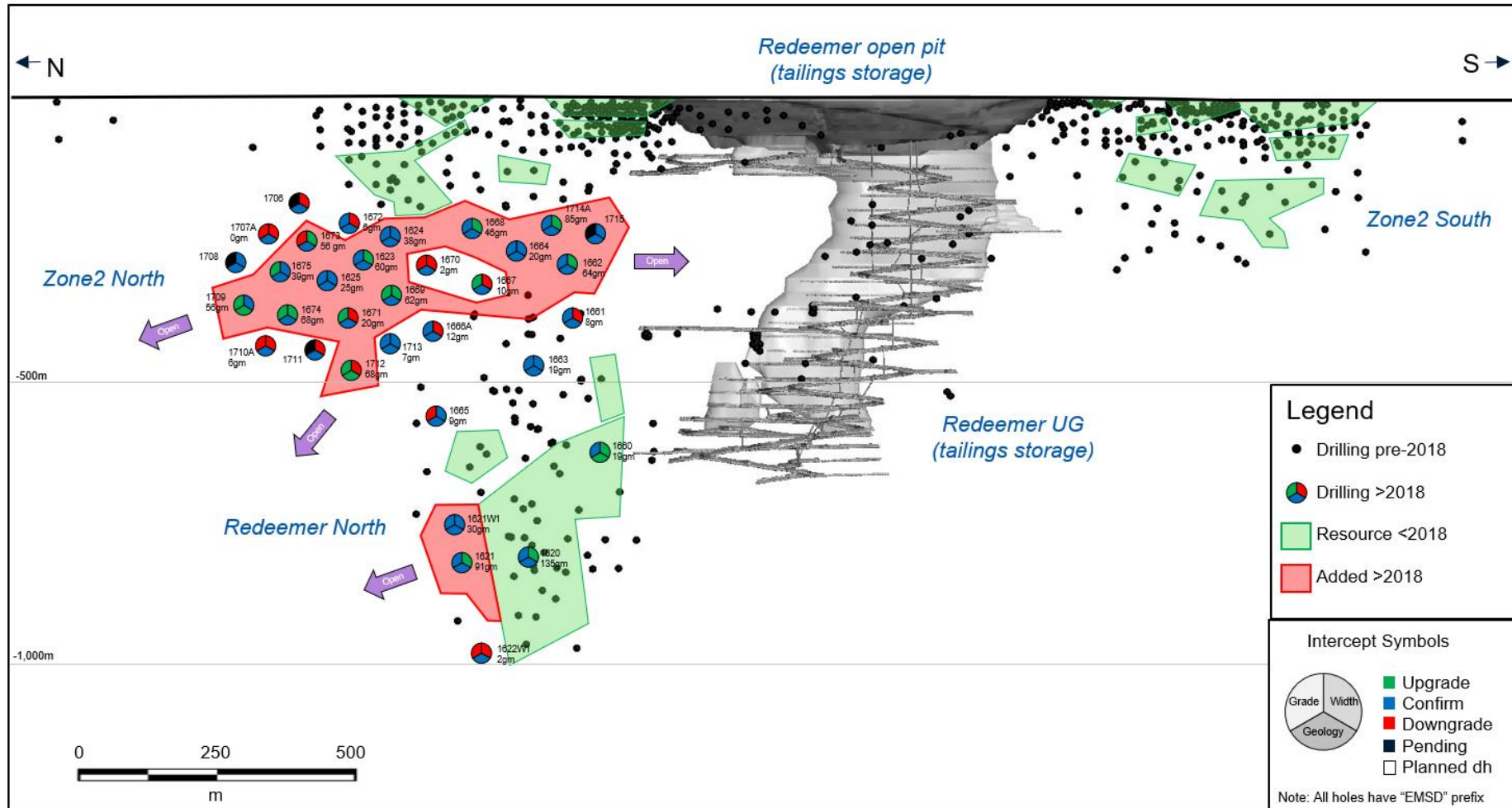


Greater Redeemer – Zone 2 North



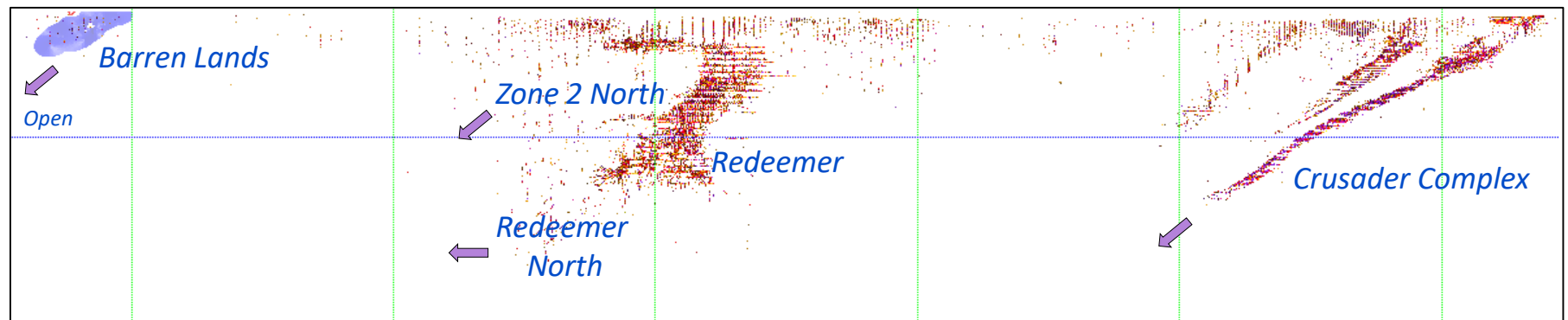
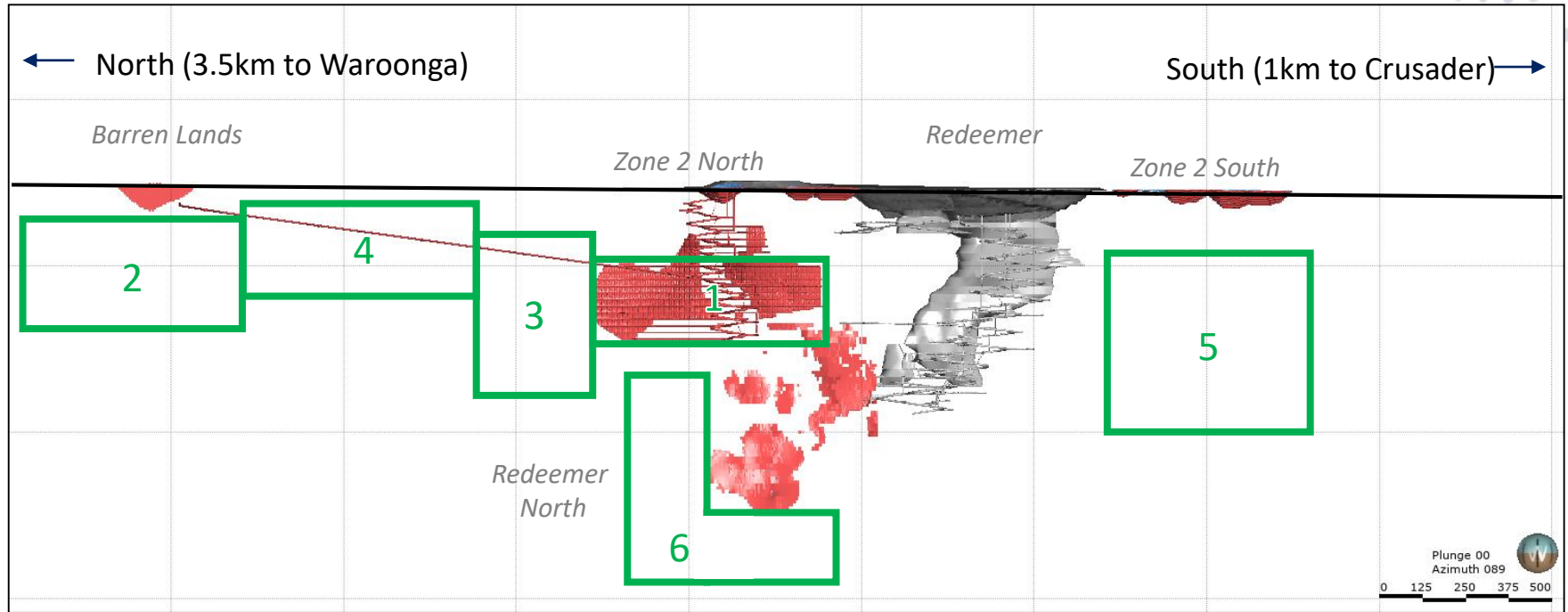
Redeemer – Exploration

Zone 2 North



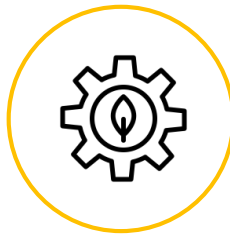
Redeemer - Exploration

Greater Redeemer Complex



Energy security for miners

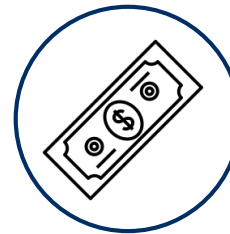
Energy challenges facing the global mining industry



Availability of
energy



Reliability of
energy supply



Affordability of
energy



Addressing
energy's climate
impacts

Agnew hybrid microgrid project

Decarbonising our mines

Optimised Microgrid

- 18MW through 5 wind turbines
- 4MW solar plant (10,000 panels)
- 13MW/4MWhr battery unit
- 16MW gas plant to underpin demand
- 25km gas supply pipeline

Funding

- A\$112m capital cost
- Funded by EDL – 10 year supply contract
- ARENA recoupable contribution – A\$13.5m

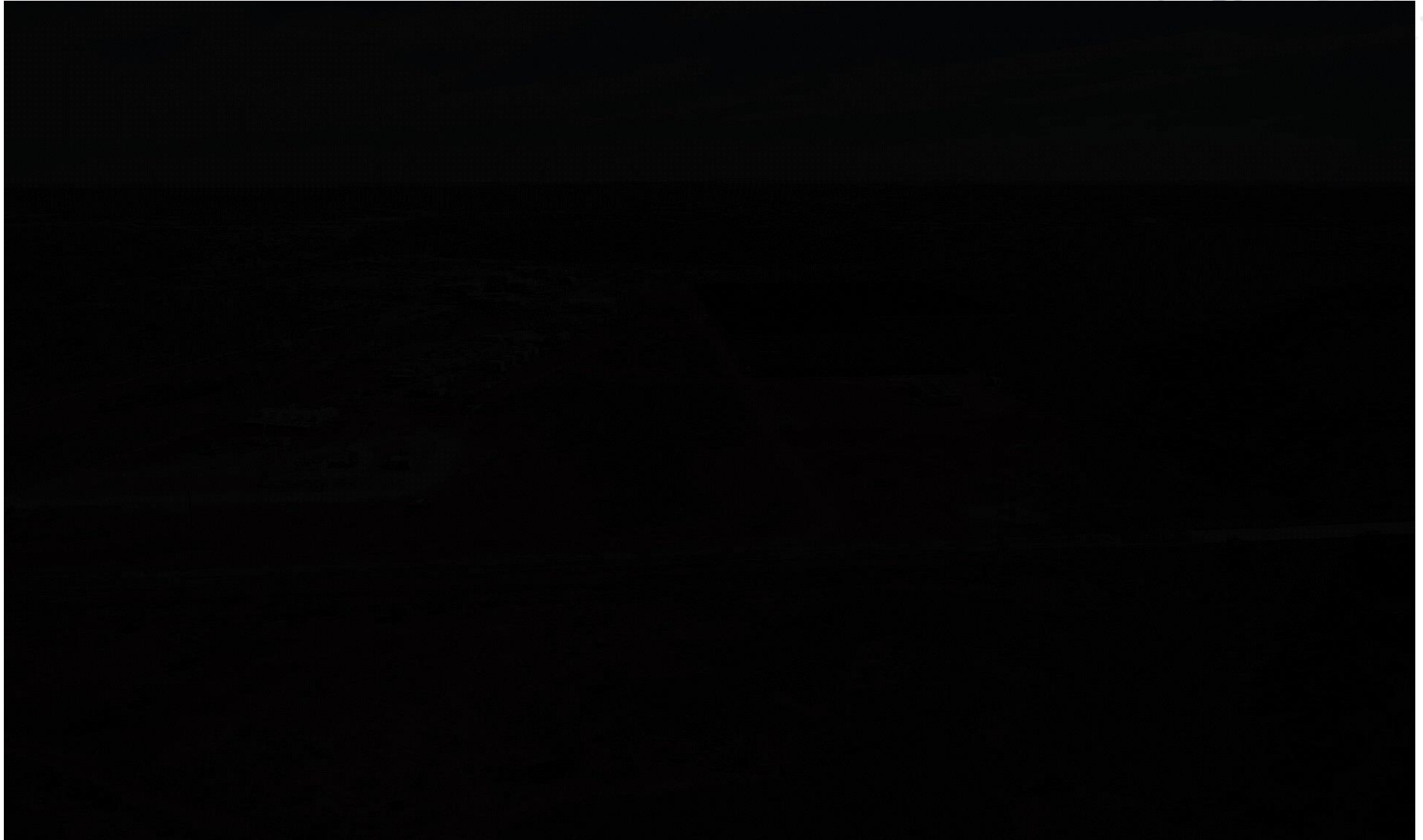
Construction Schedule

- Gas pipeline – completed May 2019
- Gas / solar power plants – completed August 2019
- Wind turbines and battery plant – commenced July 2019 / completion May 2020



This Project received funding from ARENA as part of ARENA's Advancing Renewables Program

Agnew hybrid microgrid project



Agnew – Hybrid Power Solution

May 2020



The Gruyere Joint Venture

The Gruyere Project is a 50:50 Joint Venture between Gruyere Mining Company and Gold Road Resources.

Gold Fields is the project manager and operator of the Gruyere Project



Gruyere Mine – July 2019



Gruyere Mine

Highlights

- **First Gold Poured 30 June 2019**
- **1,139 ounces**
- Full process circuit in operation
- Ramp up of processing has commenced (6-7 months to target of 8.2Mtpa)
- On-Budget Project: A\$621m
- 300,000 ounces per annum
- +12 years Life-of-Mine
- 3.78Moz Reserve
- 6.61Moz Resource





Thank you

QUESTIONS AND ANSWERS

