## **GRUYERE OPERATIONS**

### Gruyere JV GOLD ROAD RESOURCES

### KARL STOKES, GENERAL MANAGER GRUYERE GOLD MINE

The Gruyere Project is a 50:50 Joint Venture between Gruyere Mining Company Pty Ltd and Gold Road Resources Limited. The Project Manager appointed under the Joint Venture is Gruyere Management Pty Ltd (Gold Fields).





## **GRUYERE: A TIER 1 GOLD MINE**

#### **Gruyere: A World Class Discovery**

- Gold Road discovered Gruyere in 2013
- Gruyere JV signed in 2016
- First Gold in June 2019
- First Calendar Year of production 2020

### **Gruyere: Simple Low-cost Mining**

- A large open pit with low strip ratio
- Consistent grade and >9,200 oz per vertical metre

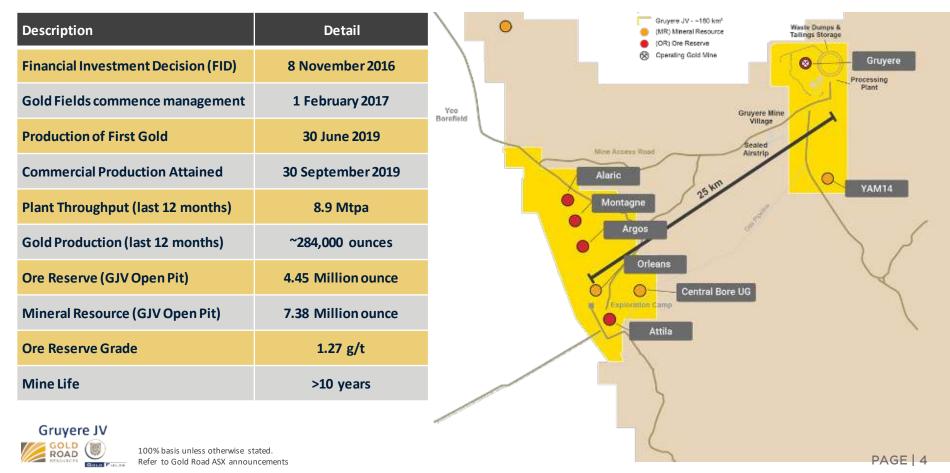
### **Gruyere: Simple Processing**

- New SABC and gravity-CIL plant built for purpose
- Coarse grind, rapid leach time, 91% recovery

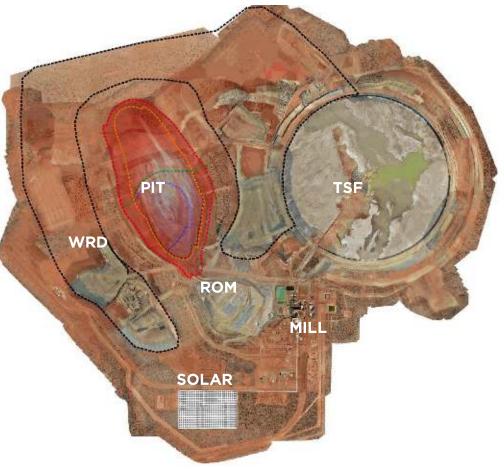




## **KEY PARAMETERS & LOCATION**



## **GRUYERE MINE AREA LAYOUT**





0.5

1 km

PAGE | 5



## **CULTURE & SAFETY**

Sata Fig. as



## **SUSTAINABLE GROWTH** SUSTAINABLE OPERATIONS ARE GOOD BUSINESS

## **Gruyere Renewable Energy Microgrid Expansion**



13 MW Solar Photovoltaic (PV) array
4.4 MW battery energy storage solution

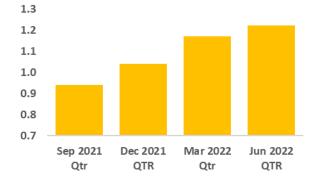
- 4 MW gas generation
- Enabling targeted throughput increase to 10 Mtpa Relative to a gas only solution:
- Reduction of GHG by 16,000 tCO2-e pa
- 5% power supply unit cost saving (MWh)\*
- Ameliorates derating of gas engines at high ambient temp

Note: Refer Gold Road ASX announcement dated 8 December 2020 \* December 2020 gas prices. Prices have since increased.

### **GRUYERE** IMPROVING QUARTERLY PERFORMANCE



Quarterly Head Grade (g/t Au)



Gruyere JV

Gata Figure

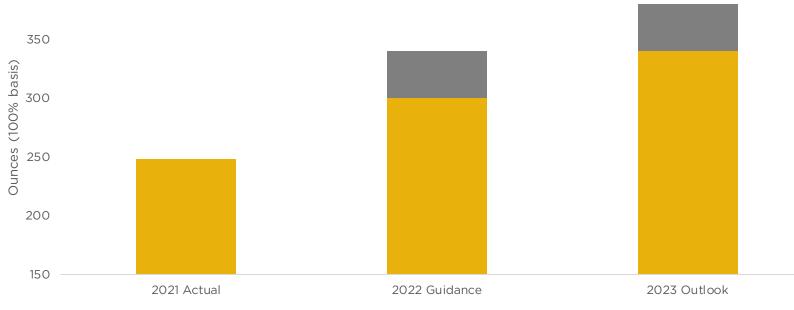
ROAD



100% basis unless otherwise stated. Refer to Gold Road quarterly results ASX announcements

## **GRUYERE GOLD PRODUCTION** INCREASING TO A SUSTAINABLE 350,000 ozpa\*

400



Gold Production - Lower Guide

Gold Production - Upper Guide

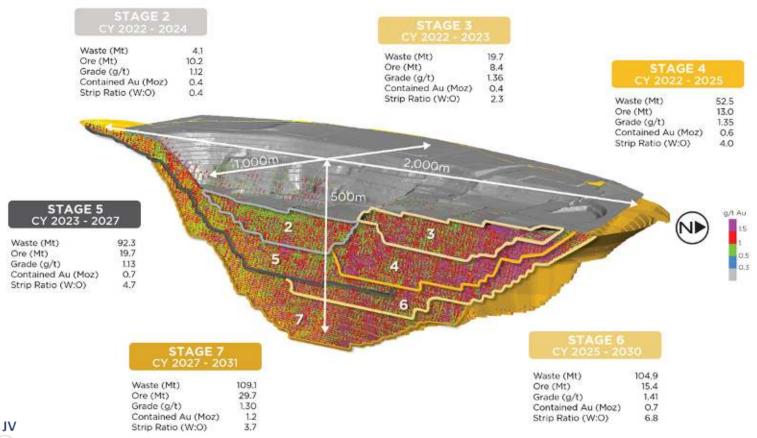


### GRADE AND THROUGHPUT LIFTS PRODUCTION

\*100% basis unless otherwise stated. Refer to ASX announcements dated 15 February 2021 and 31 January 2022. Forecasts shown as a range.

The 3-Year production outlook is underpinned wholly by Ore Reserves (35% proven and 65% probable), and the Ore Reserve has been prepared by a competent person in accordance PAGE | 9 with the JORC Code. Please refer to Ore Reserve Estimate – December 2020 for Gruyere and the Competent Persons Statement within this presentation.

## **GRUYERE: STAGED MINE PLAN**





Stockpiles of 5.7 Mt at 0.72 g/t Au at 30 June 2022

# MINE UPDATE

- Mining Stage 2 & 3 pits
- Commenced stripping Stage 4
- Good Grade reconciliation
- Mined grade to lift 2023
- Mining Contractor MACA
   Fleet
- 3 x 400t class excavators
- 12 x 240t class off-road trucks
- Table and conventional drills 203mm
- All equipped with HPGPS

### **Mining Method**

Double bench waste, triple flitches in ore





## **PROCESSING** GROWING PRODUCTION RATES

### Highlights

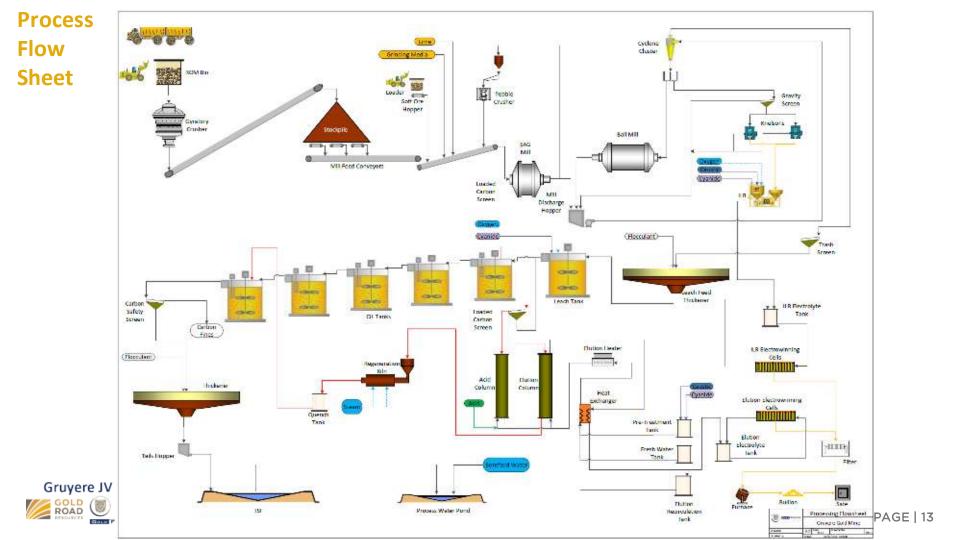
- CIL recovery from fresh ore ~91%
- Plant can operate at a rate to support 10 Mtpa
- Improving Plant Utilisation is the key focus

#### Improvements

- Power Expansion to support 10 Mtpa
- Improve plant availability through better maintenance practices
- No significant growth capital expenditure required
- Continuous improvement

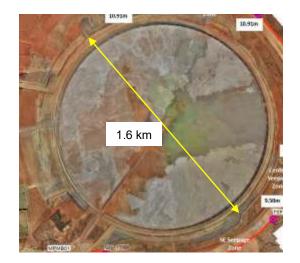






## PROCESSING TSF

- DMIRS and DWER approved
- Downstream lift design 6 stages
- Design using clay and HDPE liner
- Constructed in compliance with International Cyanide Management Code
- ICMM Global Tailings Standard
- Low risk life of mine Integrated Waste Landform design
- Second lift complete







## **PEOPLE** YILKA

Gruyere JV



NAIDOC week Traditional Yilka activities

#### Cosmo Newbery Community Initiatives



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# **Questions?**







## **GOLD ROAD SITE VISIT** August 2022

DUNCAN GIBBS MANAGING DIRECTOR & CEO

ANDREW TYRRELL GM - DISCOVERY



## **DISCLAIMER** IMPORTANT NOTICES

**Nature of this document:** The purpose of this presentation is to provide general information about Gold Road Resources Limited (the 'Company'). Unless otherwise stated herein, the information in this presentation is based on the Company's own information and estimates. In attending this presentation or viewing this document you agree to be bound by the following terms and conditions. This document has been prepared by the Company. Information in this document should be read in conjunction with other announcements made by the Company to the Australian Securities Exchange and available at www.goldroad.com.au or www.asx.com.

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## **Our Strategy**



#### Discovery

**ESG** 

environment

performer

Discover gold resources that transform the company

Build and maintain a project pipeline for growth



We act with integrity

We deliver



Ve innovate to improve



We work as one team



#### Gruyere

Deliver world class operating performance

Grow margins and mine life

#### **Corporate Development**

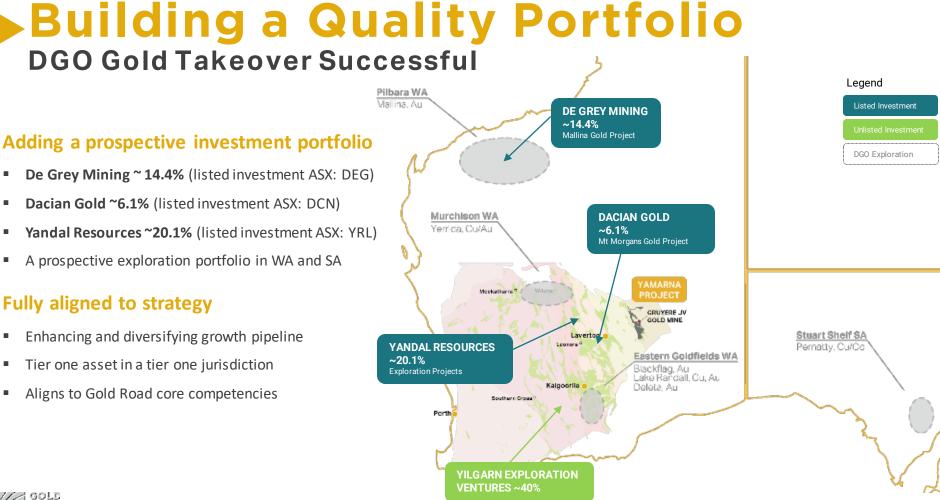
Strategic M&A with Discipline Grow & Diversify production base Quality, low risk assets

#### **Organisational Capability**

People and business systems to support the strategy

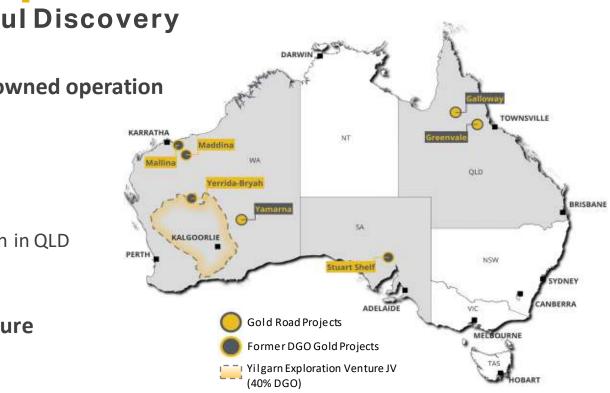
Capital management, strong liquid balance sheet, no hedging after Nov 2022, cash flow for growth and returns





## **Discovery** Meaningful Discovery





# **A Quality Exploration Portfolio**

Δ°2

Milestone 5

### Strategy of Meaningful Discovery

- Targeting discovery of a 100% owned operation
  - Continued Focus at Yamarna
  - Initial RC program at Mallina
  - RC drilling at Stuart Shelf
  - Targeting at Greenvale Application in QLD

~21,500 km<sup>2</sup> of exploration tenure

Milestone

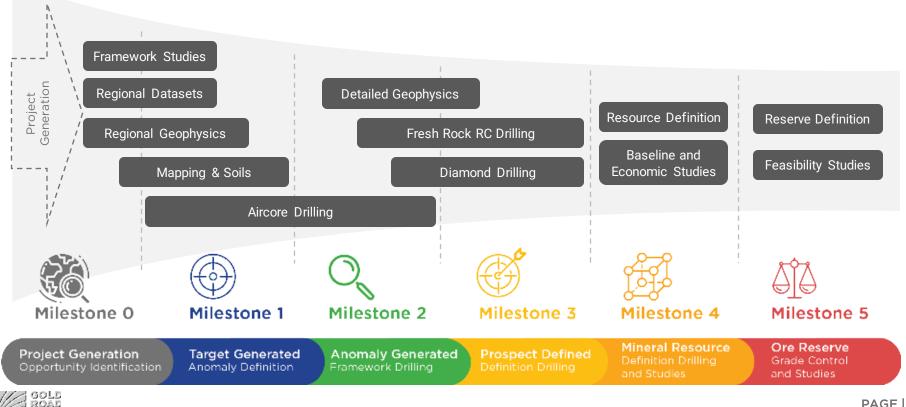
Terrard Concernied

Milestone

\*Refer to ASX announcement dated 28 July 2022

# Yamarna

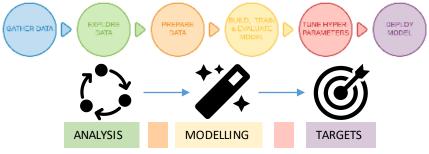
### **Exploration Approach**



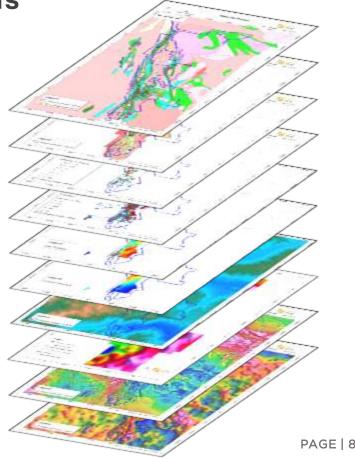
## **Exploration**

### **Discovery Region Framework Analysis**

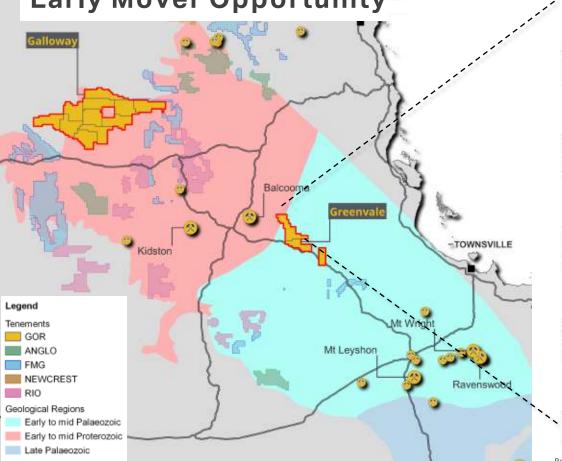
- Framework Studies foundation for disciplined, effective exploration
- Discovery through systematic exploration of quality targets
- Integration of multiple key data / information sets
- Rate and rank opportunities

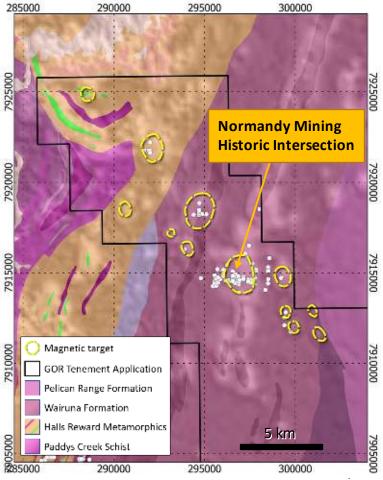






### Greenvale Early Mover Opportunity

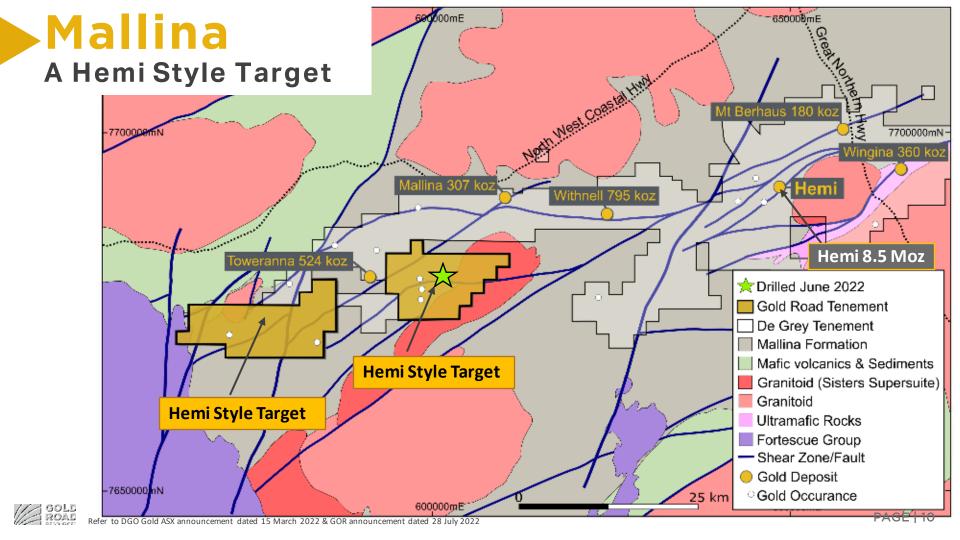




Refer to ASX announcement dated 28 July 2022

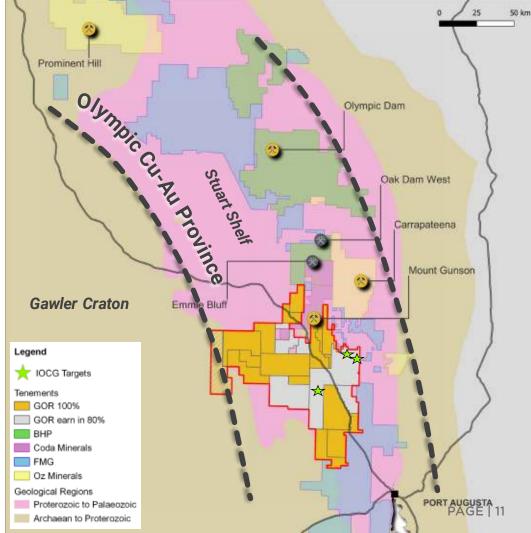
100 km

50



### Pernatty In the Land of Giants

- Potential for a world class discovery
  - Iron Oxide Copper Gold (IOCG)
  - Sedimentary Copper
  - RC drilling in progress



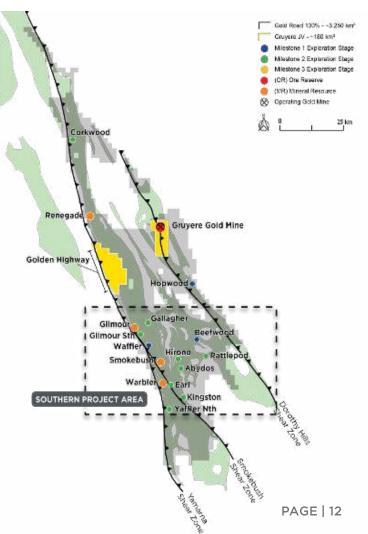


## YAMARNA

### STRATEGY OF MEANINGFUL DISCOVERY

- Targeting 100% owned operation to add 150 kozpa
  - Exploring for >1 Moz discoveries on 100% ground
  - Strategy aligned to a discovery that 'moves the dial'
  - Focus on high priority targets in Southern Project Area
- Four Rigs currently operating at Yamarna & GJV









## Core Review – Gruyere JV Gruyere & Golden Highway

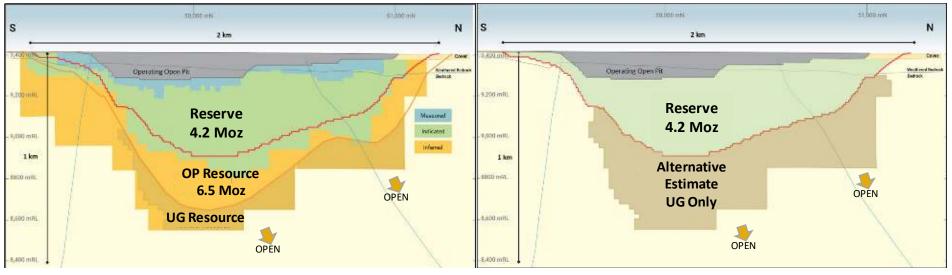


# **Gruyere Reserves & Resources**

Two Alternative Resource Estimates below Ore Reserves

#### **REPORTED RESOURCES**

### **ALTERNATIVE ESTIMATE**

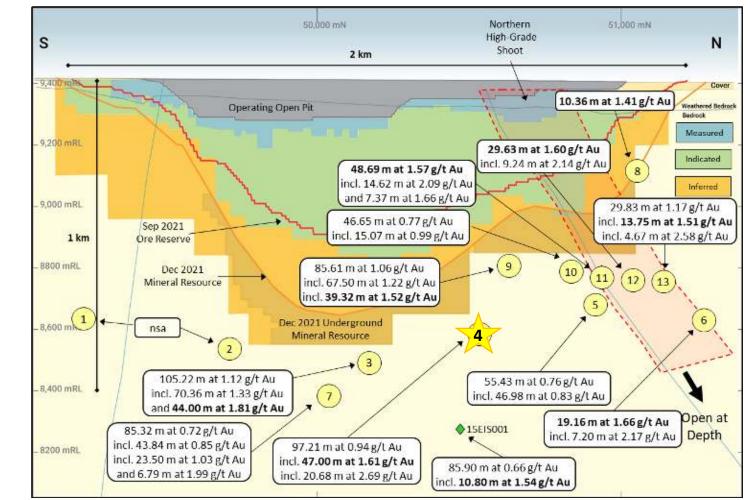


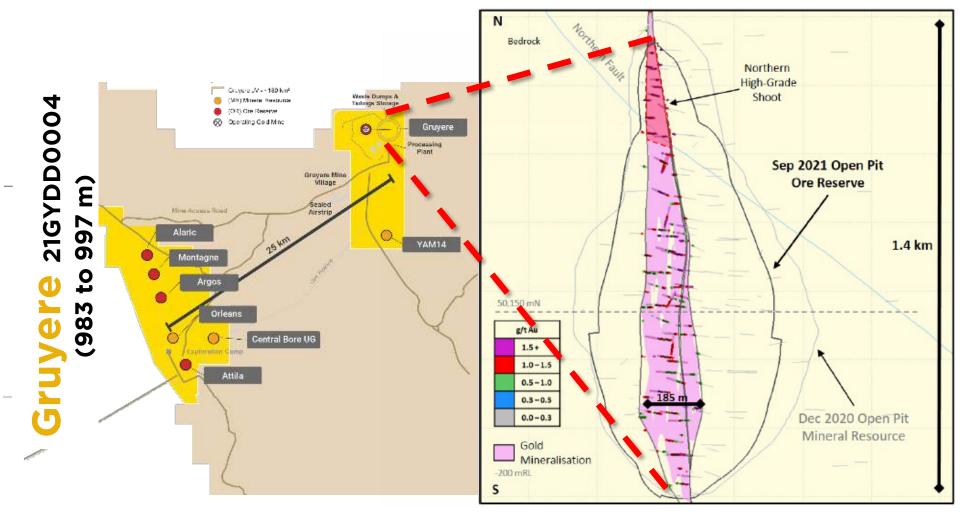
### Resources continue to 850 metres below surface Mineralisation shown to continue to 1,000 metres below surface

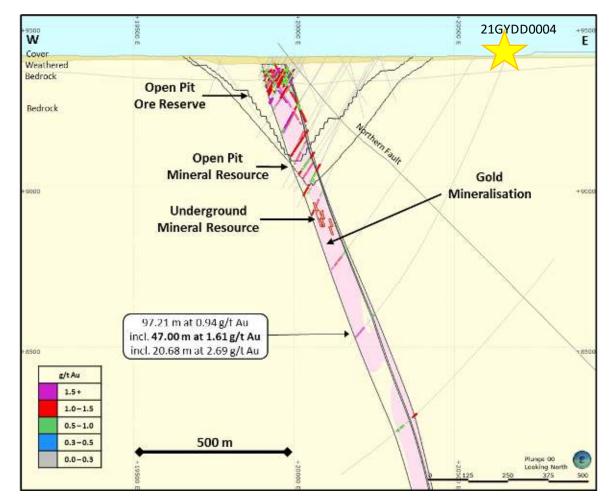
GOLD

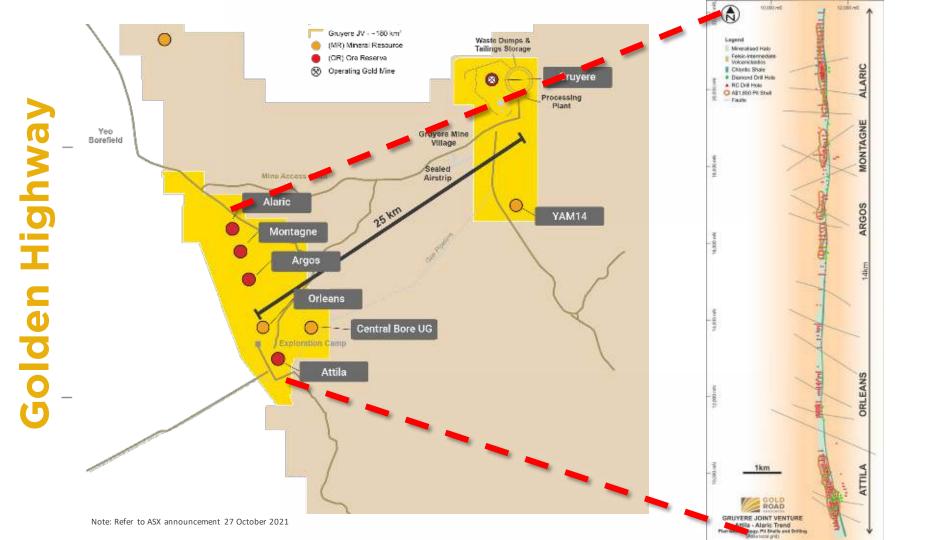
Refer to ASX announcement dated 17 February 2022.

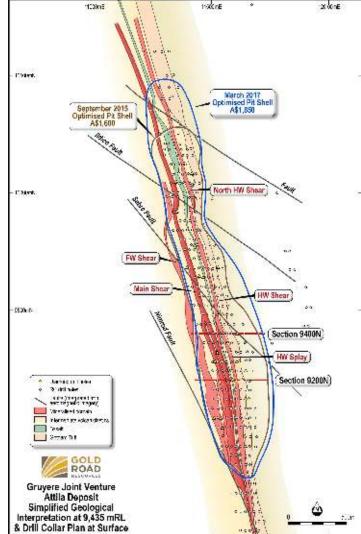
\*Gruyere Underground Mineral Resource and alternative estimate completed by Gold Road only (not the Gruyere JV). Resource & Reserve numbers shown on 100% basis. Numbers rounded to one decimal place.





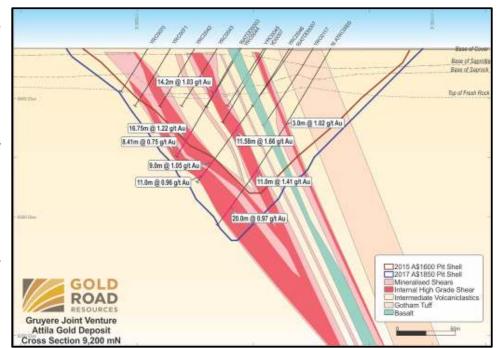




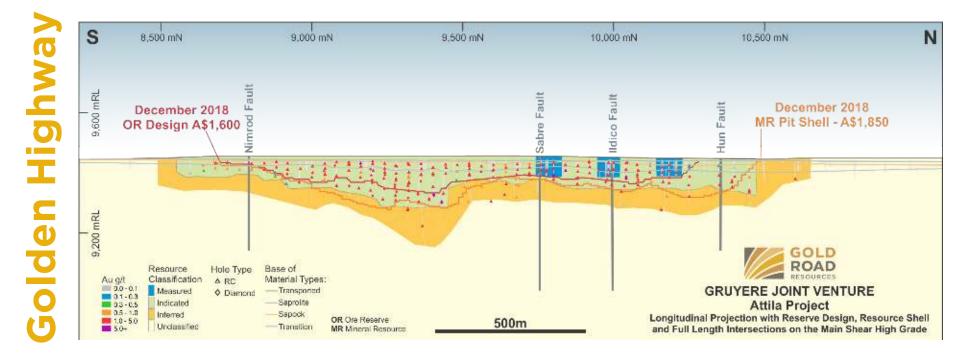


Highway

olden

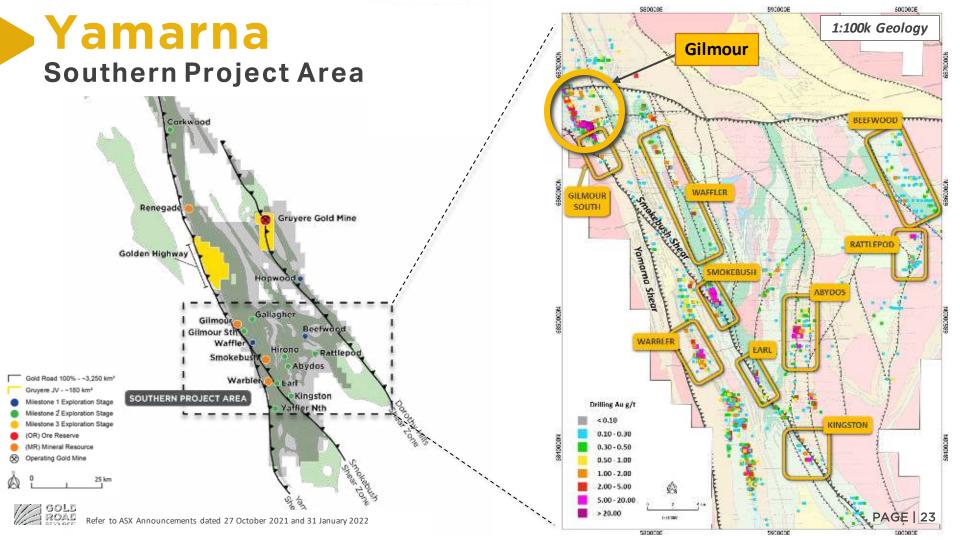


Note: Refer to ASX announcement 1 May 2017



# Core Review – Yamarna Gilmour & Smokebush



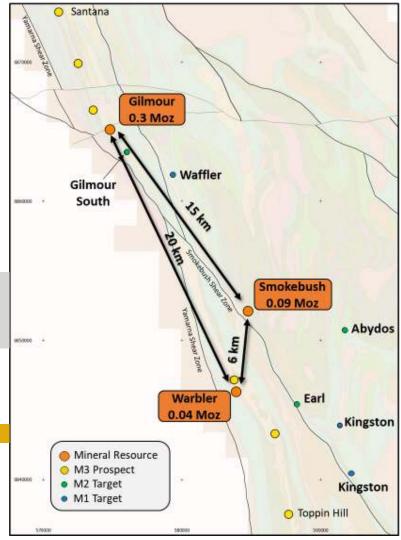


# Yamarna Resource Growth

### Gold Road 100% owned Yamarna Resources

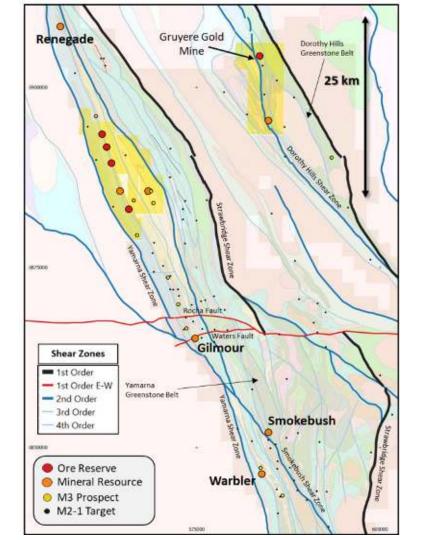
- 70% (0.21 Moz) increase in Mineral Resources<sup>1</sup>
- 6.4 Mt at 2.44 g/t Au for 0.51 Moz
- Optionality on potential future standalone operation or toll treat

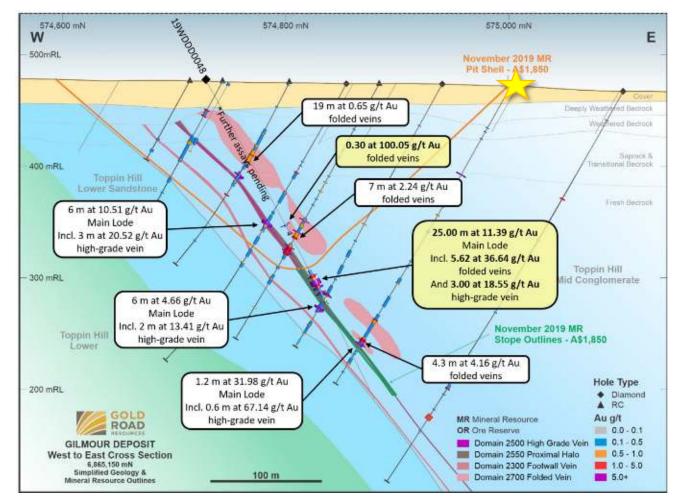
Gold Road (100%				
Mineral Resource	Tonnes	Grade	Contained Metal	
	(Mt)	(g/t Au)	(Moz Au)	
Renegade Open Pit	1.86	1.13	0.07	
Gilmour Open Pit & Underground	2.87	3.28	0.30	
Smokebush Open Pit	1.09	2.61	0.09	
Warbler Open Pit	0.62	2.14	0.04	
Total	6.45	2.44	0.51	

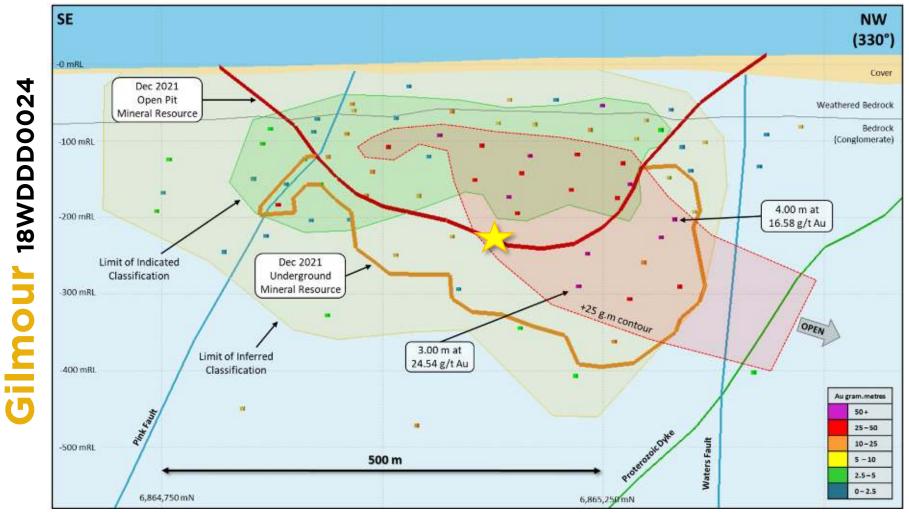


LC <sup>1</sup>Refer to ASX Announcement dated 31 January 2022 AC Mineral Resources constrained to a A\$2,200 per ounce gold price

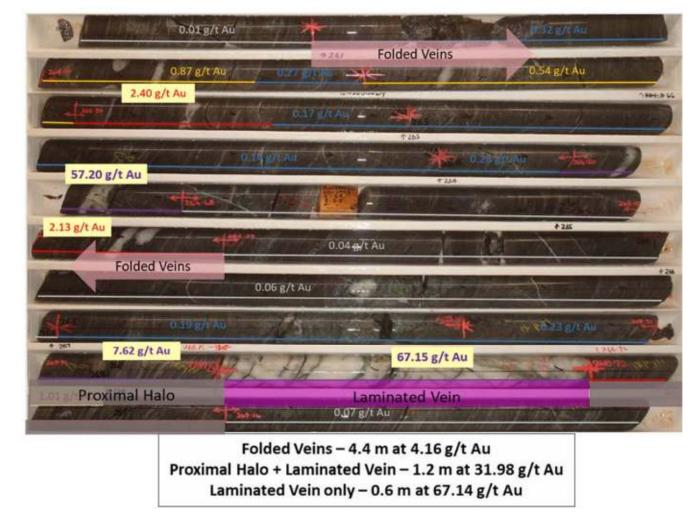
**18WDDD0024** (262.46 to 271.57m) 67 Gilmor ø Tray 66

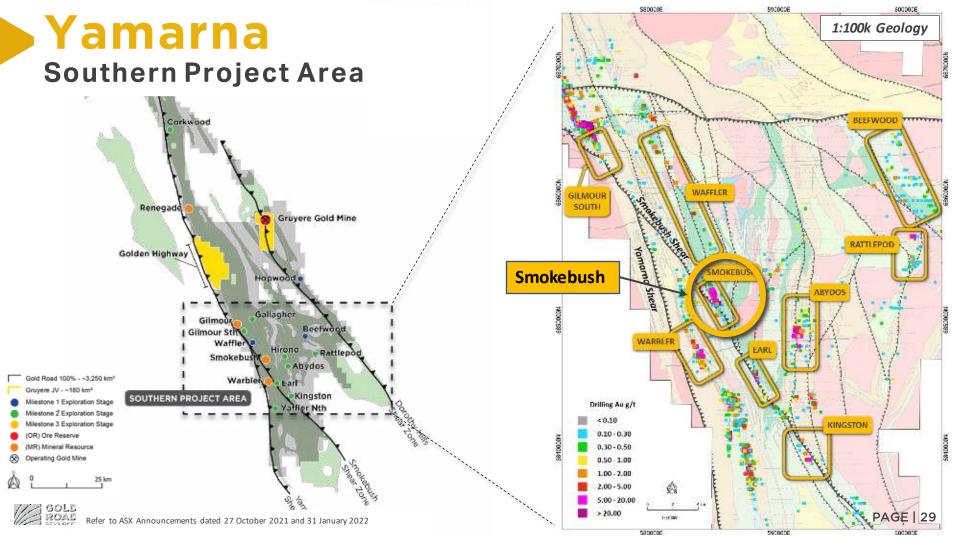




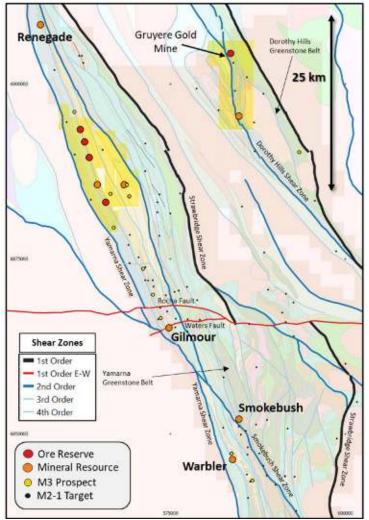


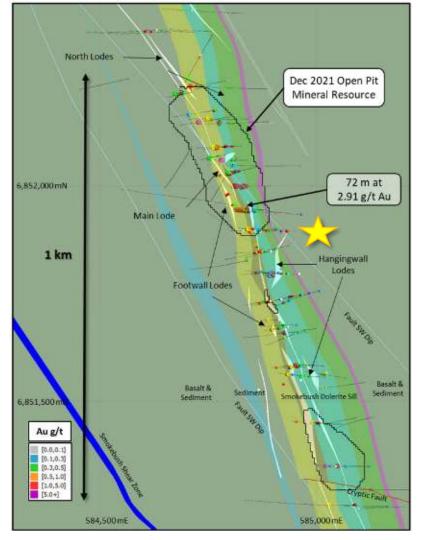
Note: Refer to ASX announcement 31 January 2022



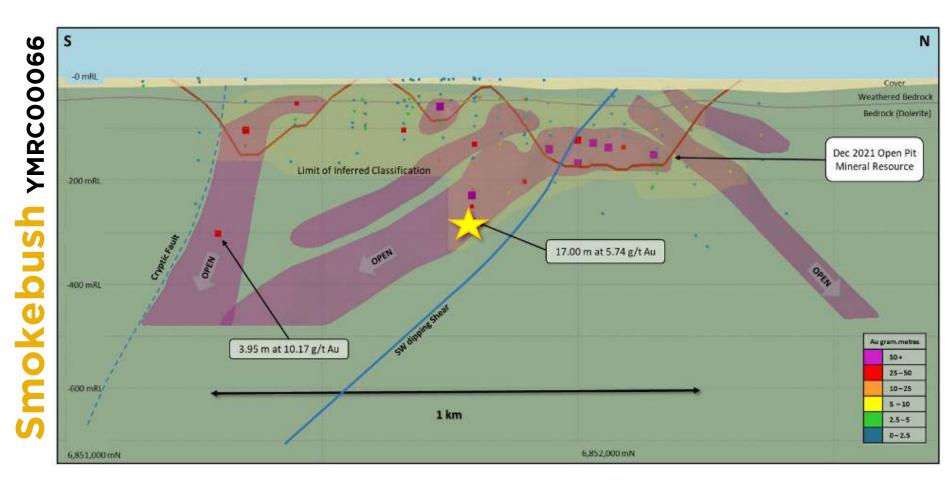


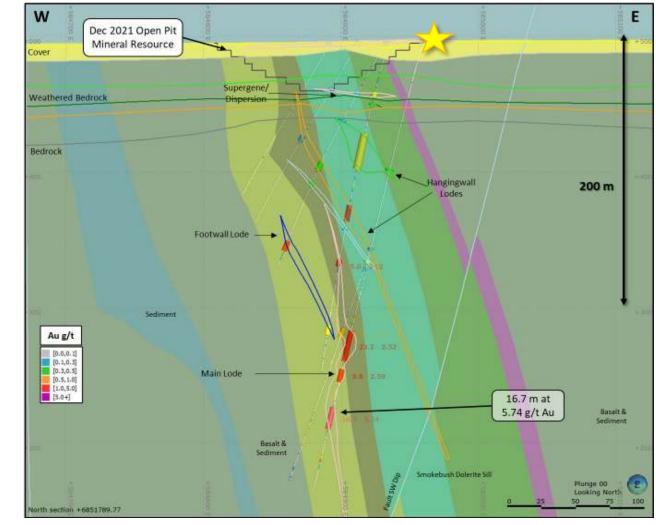
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Note: Refer to ASX announcement 31 January 2022



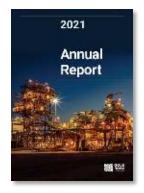




# Environment, Social & Governance



# 2021 Reporting Suite **Advancing Our Future**



### 2021 Annual Report

GRI



### 2021 Sustainability Report

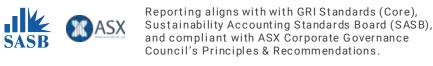
24%



### 2021 Modern Slavery



### 2021 Corporate Governance







ISO 14001, ISO 45001 and International Cyanide Management Code certifications attained.



Female **Board Members** 

**Females** Employed



**Mental Health** First Aid Trained



# Thank you for your attendance



# Appendices Mineral Resources & Ore Reserves Table



### **Competent Persons Statement**

#### **Exploration Results**

The information in this report which relates to Exploration Results is based on information compiled by Mr Andrew Tyrrell, General Manager – Discovery for Gold Road. Mr Tyrrell is an employee of Gold Road, and a Member of the Australasian Institute of Geoscientists (MAIG 7785). Mr Tyrrell is a holder of Gold Road Performance Rights. Mr Tyrrell has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Tyrrell consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

#### Mineral Resources

The information in this report that relates to the Mineral Resource estimation for Gruyere open pit is based on information compiled by Mr Trent Strickland. Mr Strickland is an employee of Gold Fields Australia, is a Member of the Australasian Institute of Mining and Metallurgy (MAusIMM 324099) and is registered as a Professional Natural Scientist (400136/09) with the South African Council for Natural Scientific Professions. Mr John Donaldson, Principal Resource Geologist for Gold Road has endorsed the Open Pit Mineral Resource for Gruyere on behalf of Gold Road.

Mr Donaldson is an employee of Gold Road and a Member of the Australian Institute of Geoscientists and a Registered Professional Geoscientist (MAIG RPGeo Mining 10147). Mr Donaldson is a shareholder and a holder of Performance Rights.

The information in this report that relates to the Mineral Resource estimation for Gruyere Underground is based on information compiled by Mr John Donaldson, Principal Resource Geologist for Gold Road and Mr Steven Hulme, Principal - Corporate Development for Gold Road.

Mr Hulme is an employee of Gold Road and is a Member and a Chartered Professional of the Australasian Institute of Mining and Metallurgy (MAusIMM CP 220946). Mr Hulme is a shareholder and a holder of Performance Rights.

The information in this report that relates to the Mineral Resource estimation for Attila, Orleans, Argos, Montagne, Alaric, YAM14, Central Bore, Gilmour and Renegade is based on information compiled by Mr John Donaldson, Principal Resource Geologist for Gold Road and Mrs Jane Levett, previously employed by Gold Road now independent consultant (Little Beach Consulting).

Mrs Levett is a Member of the Australasian Institute of Mining and Metallurgy and a Chartered Professional (MAusIMM CP 112232).

Messrs Stickland and Donaldson and Mrs Levett have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Messrs Strickland and Donaldson and Mrs Levett consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

#### Ore Reserves

The information in this report that relates to the Ore Reserve estimation for Gruyere is based on information compiled by Mr Steven Hulme, Principal - Corporate Development for Gold Road.

Mr Hulme is an employee of Gold Road and is a Member and a Chartered Professional of the Australasian Institute of Mining and Metallurgy (MAusIMM CP 220946). Mr Hulme is a shareholder and a holder of Performance Rights.

The information in this report that relates to the Ore Reserve estimation for Attila, Argos, Montagne, and Alaric, is based on information compiled by Mr Steven Hulme, Principal - Corporate Development for Gold Road.

Mr Hulme has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity currently being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Hulme consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

#### New Information or Data

Gold Road confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources and Ore Reserves that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed.

The Company confirms that the form and context in which the Competent Person's findings are presented have not materially changed from the original market announcement.

## GJV Mineral Resource Table 31 December 2021

	Gruyere Project Joint Venture - 100% basis			Gold Road Attributable			
Project Name / Category	Tonnes (Mt)	Grade (g/tAu)	Contained Metal (Moz Au)	Tonnes (Mt)	Grade (g/tAu)	Contained Metal (Moz Au)	
Gruyere JV Mineral Resources							
Gruyere Open Pit Total	152.61	1.33	6.51	76.31	1.33	3.26	
Measured	16.62	1.07	0.57	8.31	1.07	0.29	
Indicated	106.33	1.35	4.62	53.16	1.35	2.31	
Measured and Indicated	122.95	1.31	5.19	61.47	1.31	2.60	
Inferred	29.67	1.38	1.32	14.83	1.38	0.66	
Golden Highway + YAM14 Total	16.73	1.43	0.77	8.36	1.43	0.38	
Measured	0.00	-	0.00	0.00	-	0.00	
Indicated	10.91	1.49	0.52	5.45	1.49	0.26	
Measured and Indicated	10.91	1.49	0.52	5.45	1.49	0.26	
Inferred	5.82	1.32	0.25	2.91	1.32	0.12	
Central Bore	0.24	13.05	0.10	0.12	13.05	0.05	
Measured	-	-	-	-	-	-	
Indicated	-	-	-	-	-	-	
Measured and Indicated	-	-	-	-	-	-	
Inferred	0.24	13.05	0.10	0.12	13.05	0.05	
Total Gruyere JV	169.58	1.35	7.38	84.79	1.35	3.69	

## Gruyere Underground Resource 31 December 2021

	Gold Road Attributable		
Project Name / Category	Tonnes	Grade	Contained Metal
	(Mt)	(g/t Au)	(Moz Au)
Gruyere Underground Mineral Resource – Gold Road Attributable			
Inferred	10.93	1.46	0.51
Total Gruyere Underground	10.93	1.46	0.51

### **GOLD ROAD 100% YAMARNA RESOURCE TABLE** 31 DECEMBER 2021

	Gold Road Attributable		
Project Name / Category	Tonnes	Grade	Contained Metal
Project Name / Category	(Mt)	(g/t Au)	(MozAu)
Renegade	1.86	1.13	0.07
Inferred	1.86	1.13	0.07
Gilmour OP	2.29	2.80	0.21
Measured	-	-	-
Indicated	0.59	6.78	0.13
Measured and Indicated	0.59	6.78	0.13
Inferred	1.70	1.42	0.08
Gilmour UG	0.59	5.14	0.10
Measured	-	-	-
Indicated	0.06	4.17	0.01
Measured and Indicated	0.06	4.17	0.01
Inferred	0.53	5.25	0.09
Smokebush	1.09	2.61	0.09
Inferred	1.09	2.61	0.09
Warbler	0.62	2.14	0.04
Inferred	0.62	2.14	0.04
Total Gold Road 100% Owned	6.45	2.44	0.51
Measured	-	-	-
Indicated	0.65	6.55	0.14
M easured and Indicated	0.65	6.55	0.14
Inferred	5.80	1.98	0.37

T otal Gold Road Attributable (50% & 100% owned)	102.82	1.43	4.73
Measured	8.31	1.07	0.29
Indicated	59.27	1.42	2.71
M easured and Indicated	67.58	1.38	3.00
Inferred	34.59	1.54	1.72

### **GJV ORE RESERVE TABLE** 31 DECEMBER 2021

	Gruyere Project Joint Venture – 100% Basis			Gold Road Attributable			
Project Name / Category	Tonnes (Mt)	Grade (g/tAu)	Contained Metal (Moz Au)	Tonnes (Mt)	Grade (g/tAu)	Contained Metal (Moz Au)	
Gruyere OP Total	101.77	1.27	4.16	50.89	1.27	2.08	
Proved	16.74	1.04	0.56	8.37	1.04	0.28	
Probable	85.03	1.32	3.60	42.51	1.32	1.80	
Golden Highway Total	7.32	1.26	0.30	3.66	1.26	0.15	
Proved	0.00	0.00	0.00	0.00	0.00	0.00	
Probable	7.32	1.26	0.30	3.66	1.26	0.15	
Total Gruyere JV	109.10	1.27	4.45	54.55	1.27	2.23	
Proved	16.74	1.04	0.56	8.37	1.04	0.28	
Probable	92.35	1.31	3.89	46.18	1.31	1.95	



### Mineral Resource & Ore Reserve Notes

#### Mineral Resource Notes:

- All Mineral Resources are completed in accordance with the JORC Code 2012 Edition
- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding
- Mineral Resources are inclusive of Ore Reserves. Gruyere Measured category includes Surface Stockpiles (5.3Mt at 0.73g/t Au for 126koz). Mineral Resources depleted for mining
- The Gruyere JV is a 50:50 joint venture between Gold Road and Gruyere Mining Company Pty Ltd, a wholly owned Australian subsidiary of Gold Fields Ltd. Figures are reported on a 100% basis unless otherwise specified, 50% is attributable to Gold Road. Gold Road's 50% attributable Mineral Resource for Gruyere Underground is reported independently of the Gruyere JV
- The Gruyere and Golden High way Open Pit Mineral Resources are reported between 0.41 to 0.55 (oxide) and 0.44 to 0.66 (fresh) g/t Au cut-off grade allowing for dilution, processing costs, recovery and haulage to the Gruyere Mill. The YAM14 Open Pit Mineral Resource is reported at 0.4 g/t Au cut-off grade and the Renegade, Gilmour, Smokebush and Warbler Mineral Resource are reported at 0.5 g/t Au cut-off grade allowing for processing costs, recovery and haulage to the Gruyere Mill.
- All Open Pit Min eral Resources are constrained within an A\$2,000 per ounce (Gruyere JV) or an A\$2,200 per ounce (Gold Road 100%) optimised pit shell derived from mining, processing and geotechnical parameters from the Golden Highway PFS, the Gruyere FS and current Gruyere JV operational cost data
- The Underground Mineral Resource at Gruyere was evaluated by Gold Road on the same geology model used to estimate the Op en Pit Mineral Resource reported as at 31 December 2021. The model was evaluated exclusively below the A\$2,000 per ounce pit optimisation shell utilised to constrain the Open Pit Mineral Resource and is reported as 100% in the Inferred category
- The Underground Mineral Resource at Gruyere is constrained by Mineable Shape Optimis er (MSO) shapes of dimensions consistent with underground mass mining methods. The MSO shapes are optimised at cut-off grades based on benchmarked mining costs, current Gruyere operating costs and processing recoveries at an A\$2,000 per ounce gold price.
- Underground Mineral Resources at Gruyere considered appropriate for potential mass mining exploitation in the Central Zone are constrained within MSO shapes of 25 metre minimum mining width in a transverse orientation and 25 metre sub-level interval, and are optimised to a cut-off grade of 1.0 g/t Au
- Underground Mineral Resources at Gruyere considered appropriate for potential mass mining exploitation in the Northern Zone are constrained within MSO shapes of 5 metre minimum mining width in longitudinal orientation and 25 metre sub-level interval, and are optimised to a cut-off grade of 1.5g/t Au
- Underground Mineral Resources at Central Bore are constrained by a 1.5 metre minimum stope width that are optimised to a 3.5 g/t Au cut-off reflective of an A\$1,850 per ounce gold price
- Underground Mineral Resources at Gilmour are constrained by an area defined by a 2.0 metre minimum stope width and a 3.0 g/t Au cut-off reflective of an A\$2,200 per ounce gold price
- Underground Mineral Resources are reported with diluted tonnages and grades based on minimum stope widths

#### Ore Reserve Notes:

- All Ore Reserves are completed in accordance with the 2012 JORC Code Edition
- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding. All dollar amounts are in Australian dollars unless otherwise stated
- The Gruyere JV is a 50:50 joint venture between Gold Road and Gruyere Mining Company Pty Limited, a wholly owned Australian subsidiary of Gold Fields Ltd. Figures are reported on a 100% basis unless otherwise specified, 50% is attributable to Gold Road
- Gold Road holds an uncapped 1.5% net smelter return royalty on Gold Fields' share of production from the Gruyere JV once total gold production exceeds 2 million ounces
- The pit design for reporting the Gruyere Ore Reserve is derived from mining, processing and geotechnical parameters as defined by operational studies, PFS level studies completed between 2019 and 2021 and the 2016 FS. The Ore Reserve is reported using the 2021 Mineral Resource model constrained within the pit design (which is derived from a A\$1,575 per ounce optimisation) and with Ore Reserves reported at A\$1,750 per ounce gold price
- The Ore Reserve for the Golden High way Deposits which include Attila, Argos, Montagne, and Alaric is constrained within an A\$1,750 per ounce mine design derived from mining, processing and geotechnical parameters as defined by 2020 PFS and operational studies
- The Ore Reserve is evaluated using variable cut-off grades: Gruyere 0.5 g/t Au (fresh, transitional and oxide). Attila 0.6 g/t Au (fresh and transitional), 0.5 g/t Au (oxide). Argos 0.6 g/t Au (fresh, transitional and oxide). Montagne 0.6 g/t Au (fresh), 0.5 g/t Au (oxide and transitional). Alaric 0.6 g/t Au (fresh), 0.5 g/t Au (oxide and transitional).
  Ore block toppage 11% and 80% (Alarie 31% and 80%). Alarie 31% and 80%. Alarie 31% and 80%. Alarie 31% and 80%. Alarie 31% and 90%.
- Ore block tonnage dilution and mining recovery estimates: Gruyere –4% and 98%. Attila 21% and 99%. Argos 17% and 89%. Montagne 17% and 89%. Alaric 31% and 99%
  - Gruyere Proved category includes Surface Stockpiles (5.3Mt at 0.73g/t Au for 126koz). Ore Reserves are depleted for mining

