

HEMI DISCOVERY MALLINA GOLD PROJECT

Annual General Meeting 4 December 2020



FORWARD LOOKING STATEMENTS DISCLAIMER



These materials prepared by De Grey Mining Limited (or the "Company") include forward looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licenses and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant securities exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

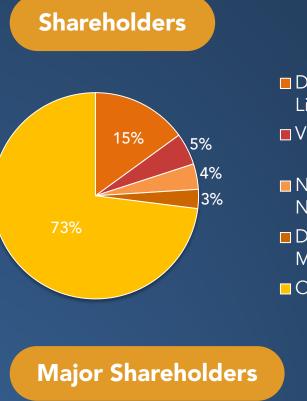
Aspirational goal Cautionary Statement: The potential quantity and grade of the aspirational goal referred to on Slide 4 is conceptual in nature. As at the date of this report, there has been insufficient exploration to determine a Mineral Resource of this magnitude and there is no certainty that further exploration work will result in the determination of such Mineral Resources to be realised.



CORPORATE OVERVIEW



Corporate structure								
Shares (ASX:DEG)	1,278M							
Options	6.74M							
Performance rights	1.45M							
Share price (3 Dec 2020)	A\$1.12							
Market capitalisation	A\$1.4B							
Cash (30 Sep 2020)	A\$109.5M							
plus Cash (post 30 Sep 2020)	A\$12.5M							



 DGO Gold Limited
 Van Eck
 Northwest

 Nonferrous
 Directors and Management
 Other

Top 20 holders	66%
Top 50 holders	73%

BOARD AND TECHNICAL MANAGEMENT



Simon Lill Non-Executive Chairman



Glenn Jardine Managing Director



Peter Hood AO Non-Executive Director



Andy Beckwith Executive Technical Director

Eduard Eshuys Non-Executive Director



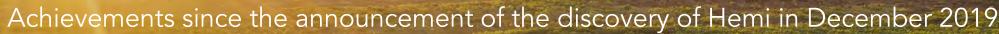


Phil Tornatora Exploration Manager



Allan Kneeshaw Consulting Geologist

A TRANSFORMATIONAL YEAR







*From 17 December 2019 to 3 December 2020

INDUSTRY RECOGNITION FOR OUR TEAM





Best Emerging Company 2020



Explorer of the Year 2020 Paydirt Gold Mining

Explorer of the Year 2020

LEADING CONSULTANTS AND CONTRACTORS







GR ENGINEERING SERVICES ENGINEERING CONSULTANTS AND CONTRACTORS



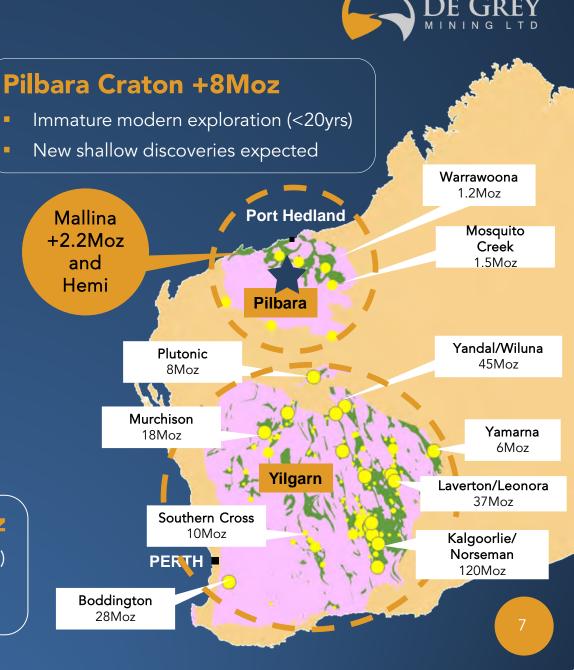


REDEFINING THE PILBARA

- The same geological setting as the Yilgarn:
 - Archaean aged rocks 2.5 4 billion years old
 - Granite/greenstone belts
- De Grey has been operating in the Pilbara region since 2003
- Potential for shear-hosted gold recognised for many decades
- More recent discovery of an intrusion-hosted style of gold mineralisation new for the Pilbara
- Transformational discovery at Hemi for De Grey and the Pilbara region

Yilgarn Craton +200Moz

- Very mature exploration (>120yrs)
- New discoveries expected at depth



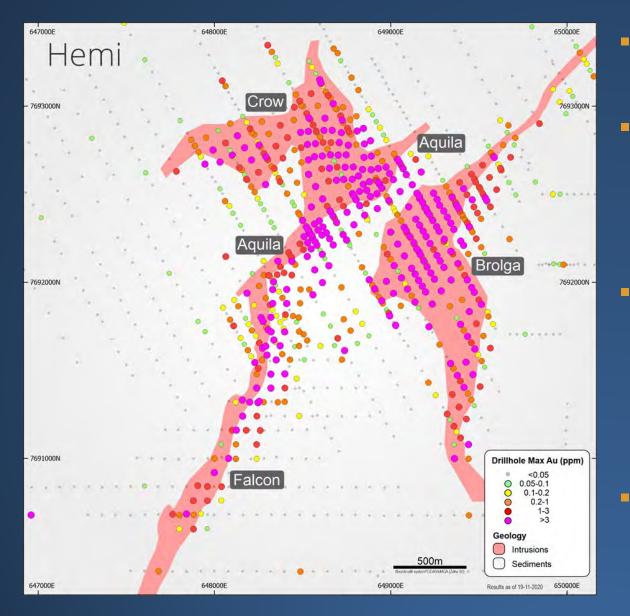
THE HEMI DISCOVERY

- Major new gold discovery at Hemi within the Mallina Gold Project in late 2019
- A new style of gold deposit in the Pilbara:
 - Intrusion-hosted
 - Large scale, close to surface, grade continuity
 - High value deposit
- Underexplored with district-scale upside
- Located near world-class established mining infrastructure and major regional centres
- Immediate growth strategy linked to increasing gold resources, extending deposits and making large new discoveries



AN OVERVIEW OF HEMI TODAY

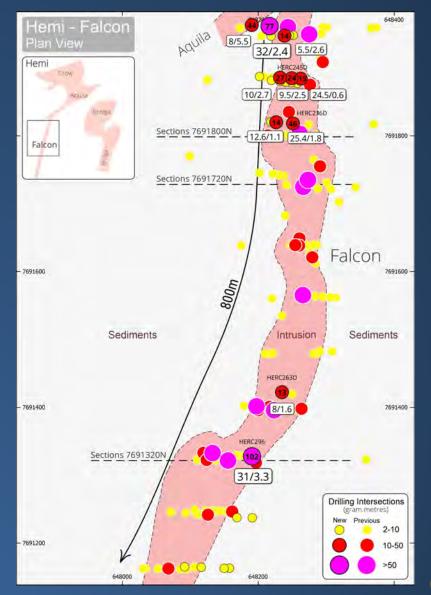




- Four main zones identified to date:
 - Aquila, Brolga, Crow, Falcon
- Mineralisation defined over a large area:
 - +3,500m north-south
 - +3,500m east-west
 - Depths up to +400m
- All zones open along strike and at depth
 - Brolga to the west and south
 - Crow to the west
 - Aquila to the south west
 - Falcon to the south
- Eight rigs conducting extensional and infill drilling to support maiden Mineral Resource for Hemi in H1 2021

FALCON ZONE

- Immediately south of Aquila and west of Brolga
- Identified in September 2020
- RC and diamond drilling has confirmed mineralisation over more than 1,000m strike and 300m below surface
- Open along strike and at depth
- Mineralisation style similar to Aquila
- Recent intersections include:
 - 31m @ 3.3g/t Au from 101m (HERC296)
 - 32m @ 2.4g/t Au from 43m (HERC412)
- RC and diamond drilling continuing to test along strike to the south and depth potential
- Aircore and RC drilling also targeting southern extensions gold anomalies east towards Brolga

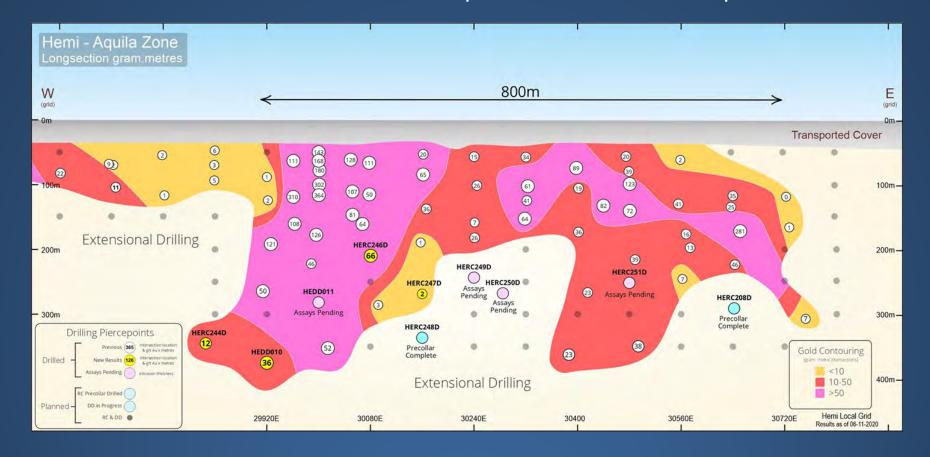




AQUILA ZONE

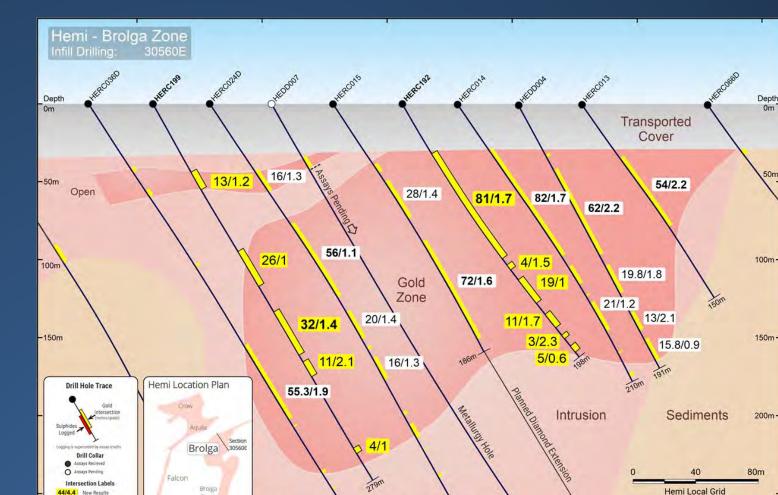


- Approximately 1.2km in strike and open to the west
- High grade drill results demonstrating high ounces per vertical metre
- Mineralisation confirmed to ~400m depth and remains open



BROLGA ZONE

- Large zone with a strike of approximately 800m and up to 300m wide
- RC definition drilling
- DD extensional drilling
- Open to the west, south and at depth
- Strong grade continuity
- Low strip ratio
- Bulk mining characteristics
- Extensional drilling to define scale ongoing



850160N

850080N

850240N

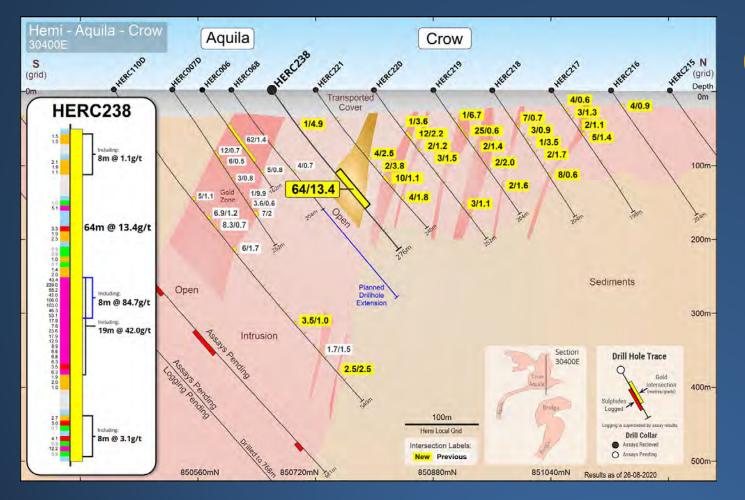


Results as of 20-09-2020

CROW ZONE



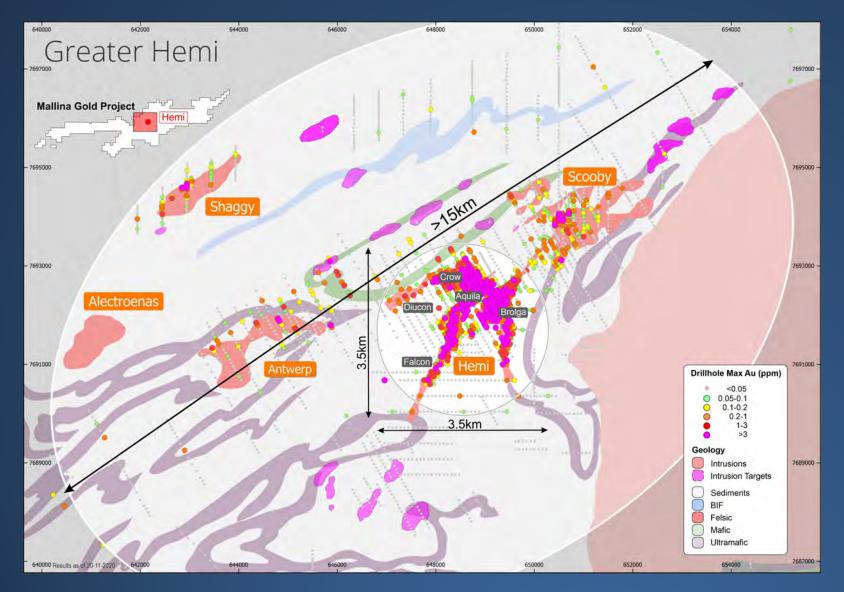
- Zone up to 400m wide and 1,000m strike only recent infill drilling on 80m lines
- RC step out drilling and definition continuing and diamond drilling testing depths extents



High-grade lodes and visible gold

- Infill drilling has identified a number of high-grade lodes and areas of visible gold:
 - 64m @ 13.4g/t Au from 141m
 including 19m @ 42.0g/t Au
 from 170m (HERC238)
 - 17m @ 12.9g/t Au from 91m
 including 7m @ 29.4g/t from
 94m (HERC342)

GREATER HEMI



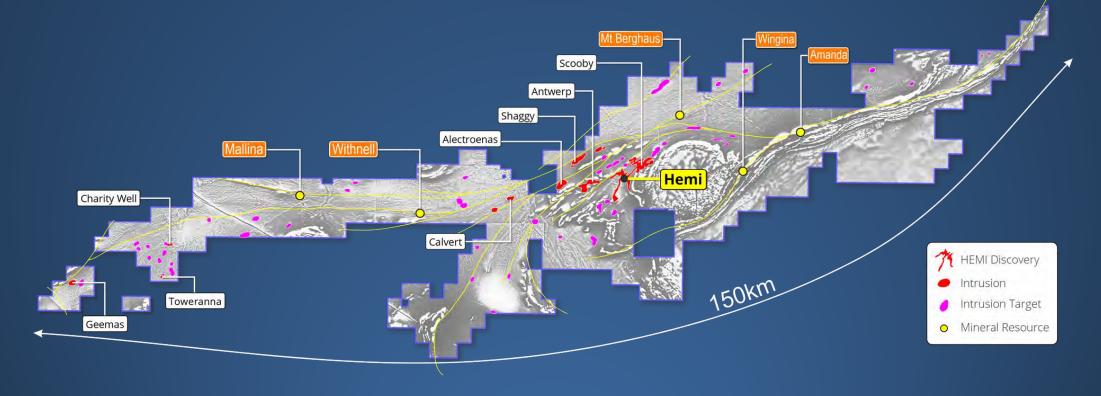


- Extending the Hemi discovery remains the main focus of drilling
- Aircore drilling in the Greater Hemi area is progressing
- Anomalous gold and geochemical targets will be followed up with RC drilling underway

HUGE UNTESTED REGIONAL POTENTIAL



- Hemi remains the main drilling focus and continues to grow with potential for new zones
- Four known intrusions outside the Greater Hemi area plus more than 30 intrusion targets
- More than 200km of shear zones with high potential to extend existing shear-hosted Mineral Resource of 37.4Mt at 1.8g/t Au for 2.2Moz (excluding Hemi) with known deposits still open
- Testing of regional targets to commence in 2021

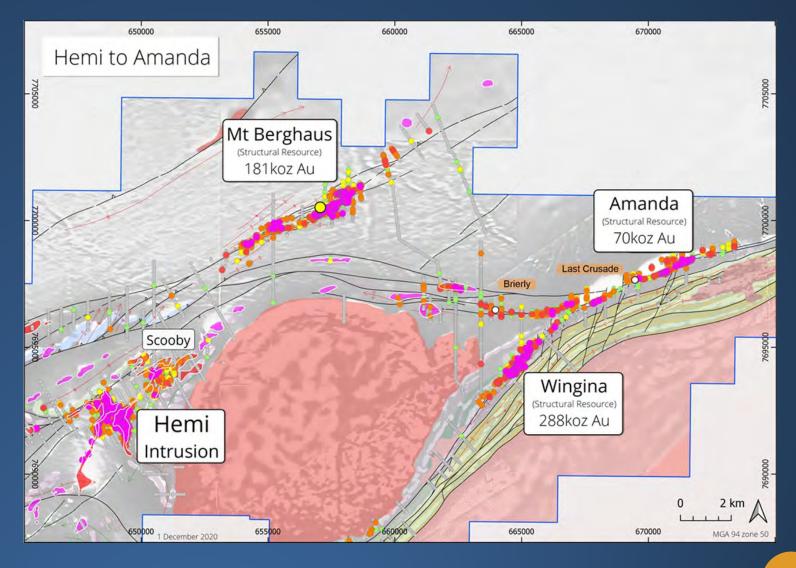


REGIONAL – HEMI TO AMANDA



- Structural Corridor wrapping around Mt Dove Granite
- Opportunity for dilation
- Multiple potential intrusions identified
- Limited drilling to date along 10km corridor

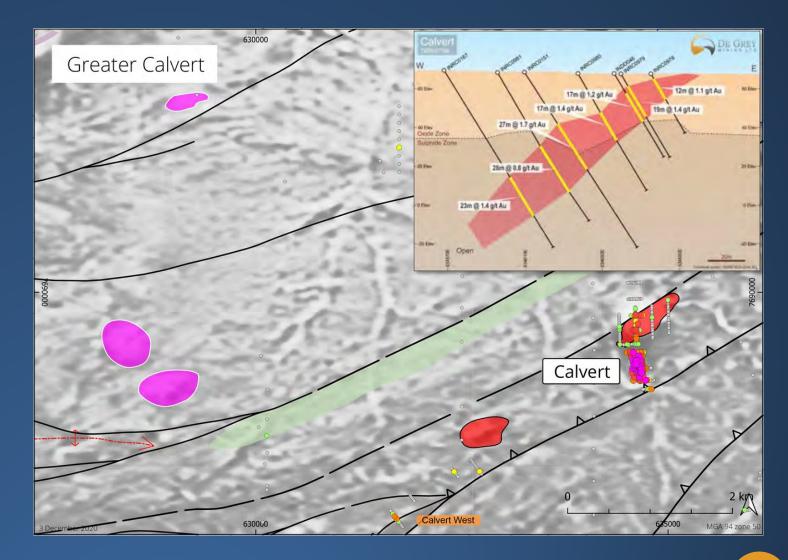




REGIONAL – INTRUSION TARGET – CALVERT



- Mineralisation in sediments adjacent to intrusion
- Limited shallow drill testing to date into intrusive target



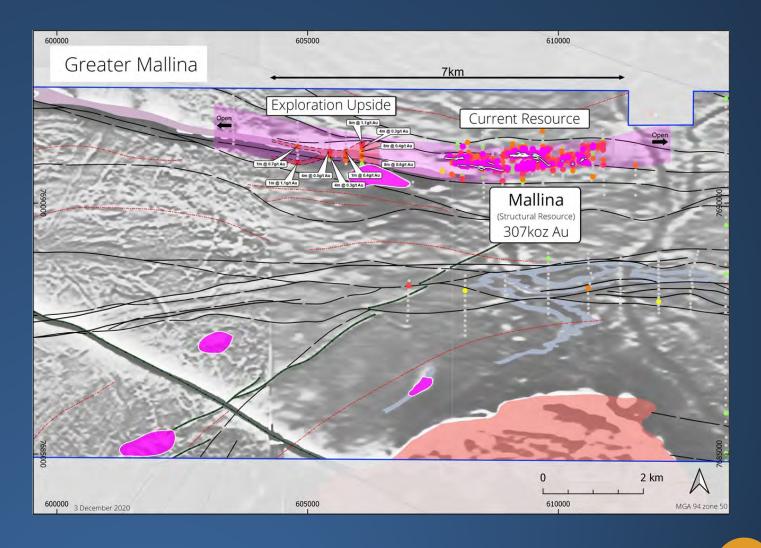


REGIONAL DEPOSIT – MALLINA



- Mallina has been tested along only ~3km of strike
- Gold mineralisation intersected over 7km in total
- Potential for growth of current 307koz Mineral Resource
- Nearby untested intrusive target





PROJECT STUDIES

- Long lead time de-risking studies underway:
 - Metallurgy, environment, infrastructure corridors
- Initial metallurgical testwork on Brolga:
 - 93% in oxidised using carbon in leach (CIL)
 - 96% in fresh rock using flotation, oxidation and CIL
 - High gold recovery into concentrate at low mass pull
 - Oxidation circuit ~15x smaller than plant front end
 - High Au:S ratio in concentrate lowers
 hydrometallurgical circuit size and oxygen addition rate
 - Variability and optimisation testwork continuing
- Hydrometallurgical processes to be assessed include:
 - POX, Albion and BIOX

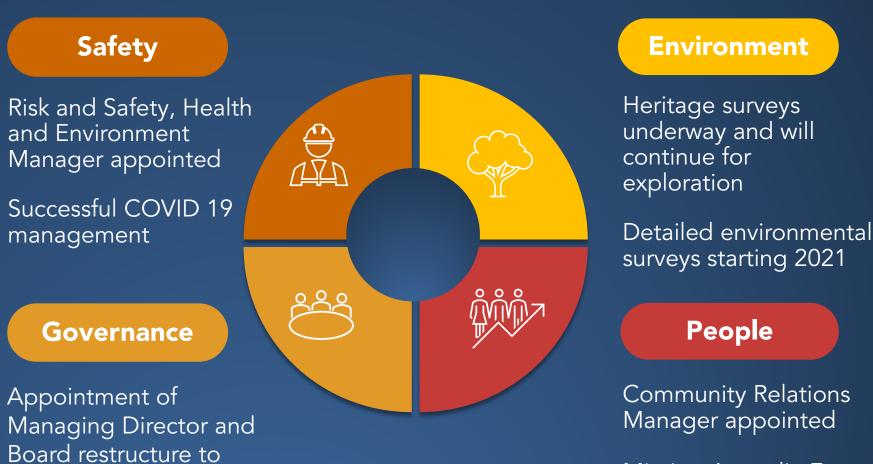


BUILDING A SOLID BUSINESS

majority Non-Executive

Directors including Chair





Mission Australia East Pilbara partnership

FOCUS FOR 2021



 RC/diamond drilling to expand and delineate the footprint and depth of the known mineralisation Maiden Mineral Resource in mid- 2021 Zones remain open Potential for new zones to be identified Continued aircore drilling of known intrusions Anomalous gold mineralisation and prospective geochemical targets will be followed up by RC drilling starting H1 2021 Aircore drilling expanding to test known regional intrusions outside Greater Hemi: Calvert Geemas Others RC/diamond drilling to extend existing shear hosted deposits More detailed metallurgical testwork on wider Hemi ore types: POX Albion BIOX Heritage surveys Environmental surveys Mining and processing studies 	Hemi	Greater Hemi	Regional	Development
	 to expand and delineate the footprint and depth of the known mineralisation Maiden Mineral Resource in mid- 2021 Zones remain open Potential for new zones to be 	 drilling of known intrusions Anomalous gold mineralisation and prospective geochemical targets will be followed up by RC drilling starting H1 	 expanding to test known regional intrusions outside Greater Hemi: Charity Well Calvert Geemas Others RC/diamond drilling to extend existing shear hosted 	 metallurgical testwork on wider Hemi ore types: POX Albion Albion BIOX Heritage surveys Environmental surveys Mining and

LONG-TERM GROWTH STRATEGY





Demonstrate Tier 1 scale resource and production potential at Hemi mid-2021



Continue to grow resources at a discovery cost below industry average of A\$20/oz



Build organisational capability and progress development studies



Ultimate objective to become a Tier 1 gold producer at Hemi

Increase the 2.2Moz resource **Drill intrusions** close to Hemi Continue to grow the Hemi discovery Identify new intrusions along 150km of strike

Progress mining studies



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STATEMENTS



Competent Persons Statements

The information in this report that relates to Exploration Results for the Pilbara Gold Project is based on, and fairly represents information and supporting documentation compiled by Mr Philip Tornatora, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy. Mr Tornatora is an employee of De Grey Mining Limited. Mr Tornatora 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 Resource and Ore Reserves". Mr Tornatora consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The Information in this report that relates to Mineral Resources for Pilbara Gold Project is based on information compiled by Mr Paul Payne, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Payne is a full-time employee of Payne Geological Services. Mr Payne 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 Payne consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. De Grey advises that no material changes have occurred to the resource estimates since the date of publication of April 2020.

The Company has released all material information that relates to Exploration Results, Mineral Resources and Reserves, Economic Studies and Production for the Pilbara Gold Project on a continuous basis to the ASX and in compliance with JORC 2012. The Company confirms that it is not aware of any new information that materially affects the content of this ASX release.

Forward Looking Statements

Statements regarding De Grey's plans with respect to the mineral properties, resource reviews, programmes, economic studies and future development are forward-looking statements. There can be no assurance that De Grey's plans for development of its mineral properties will proceed any time in the future. There can also be no assurance that De Grey will be able to confirm the presence of additional mineral resources/reserves, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of De Grey's mineral properties.

MATERIAL ASX RELEASES



Resources & Metallurgy: 2020 Mallina Gold Project Resource update, 2 April 2020

Positive gold recoveries enhance Pilbara Gold Project potential, 12 February 2019 High gold recoveries with conventional CIL processing at Toweranna, 13 June 2019 Mallina drilling, new targets and metallurgy update, 15 July 2019 High gold recoveries achieved at Hemi, 9 July 2020

Exploration:

Multiple new targets increase exploration potential, 2 July 2019 New Gold Discoveries at Hemi and Antwerp, 17 December 2019 Hemi confirms potential for major discovery, 6 February 2020 Further impressive thick and high grade gold at Hemi, 11 February 2020 Major extension of sulphide mineralisation at Hemi, 26 February 2020 RC drilling confirms large scale gold system at Hemi, 5 March 2020

Continuing extensive sulphide mineralisation intersected at Hemi, 10 March 2020 Hemi continues to grow, 17 March 2020 Major Gold Extensions defined at BROLGA, 25 March 2020 Brolga Continues to grow, 9 April 2020 Aircore Drilling defines third large gold zone at Hemi, 17 April 2020 Brolga and Aquila drilling update, 22 April 2020 Large gold system defined at Crow, 1 May 2020 Exploration update, 20 May 2020 Significant extension at Hemi- Aquila, 27 May 2020 HEMI – Major extension, 5 June 2020 HEMI – Broad, high grade extensions at Aquila, 9 June 2020 Further high grade and expanded footprint at Hemi, 22 June 2020 Further extensions confirmed at Brolqa, 10 July 2020 Hemi scale grows with Aquila new extensions, 22 July 2020 Strong results boost Aquila westerly extension, 5 August 2020 Aquila extends to 400 vertical metres, New lode at Crow, 12 August Brolga extends north towards Aquila and northeast to Scooby, 21 August Exceptional high grade gold intercept at Crow, 27 August 2020 Falcon - Major new gold discovery at Hemi, 2 September 2020 Falcon - Drilling Update, Drill results confirm Falcon as a growing new opportunity, 15 September Strong Brolga Infill and Extensions, 25 September Encouraging Extensional and Infill Drilling Results at Aguila and Crow, 7 October 2020 Thick High Grade near surface hits continue at Falcon, 12 October 2020 Further positive results extend Aquila and Crow, 29 October 2020 Further high-grade extensions at Crow and Aquila, 12 November 2020 High Grade Depth Extensions and Visible Gold at Falcon, 30 November 2020

MALLINA GOLD PROJECT RESOURCES (not including Hemi)



Area	Туре	Measured		Indicated		Inferred			Total				
		Mt	Au g/t	Au Oz	Mt	Au g/t	Au Oz	Mt	Au g/t	A u Oz	Mt	Au g/t	Au Oz
Withnell Mining Centre	Oxide	0.98	1.8	57,500	3.49	1.5	166,800	2.35	1.4	102,300	6.82	1.5	326,600
	Fresh	0.66	1.7	34,800	8.23	1.9	496,700	9.87	2.4	766,600	18.75	2.2	1,298,200
	Total	1.63	1.8	92,300	11.72	1.8	663,500	12.24	2.2	870,200	25.58	2.0	1,626,100
Wingina Mining Centre	Oxide	2.68	1.8	152,100	1.84	1.5	87,600	2.21	1.1	74,900	6.74	1.5	314,500
	Fresh	0.40	1.6	20,500	0.68	1.6	34,900	4.04	1.3	168,400	5.12	1.4	223,800
	Total	3.08	1.7	172,700	2.52	1.5	122,500	6.25	1.2	243,200	11.86	1.4	538,400
TOTAL Pilbara Gold Project	Oxide	3.66	1.8	209,700	5.33	1.5	254,300	4.57	1.2	177,200	13.56	1.5	641,200
	Fresh	1.06	1.6	55,400	8.91	1.9	531,700	13.90	2.1	935,000	23.87	2.0	1,522,000
	Total	4.71	1.7	265,000	14.24	1.7	786,000	18.49	1.9	1,113,500	37.44	1.8	2,164,500

ASX: Total Gold Mineral Resource increases to 2.2Moz, 2 April 2020