



# **GOLDEN STAR**

**CREATING A LEADING AFRICAN GOLD PRODUCER**

**Q2 2021 Results | July 2021**

# DISCLAIMER

**Safe Harbour:** Some statements contained in this presentation are forward-looking statements or forward-looking information (collectively, "forward-looking statements") within the meaning of the United States Private Securities Litigation Reform Act of 1995 and applicable Canadian securities laws, respectively. Investors are cautioned that forward-looking statements are inherently uncertain and involve risks and uncertainties that could cause actual results to differ materially. Such statements include comments regarding: Gold production, cash operating costs, production and cost guidance; capital and exploration expenditure guidance; the ability to expand the Company and its production profile through the exploration and development of its existing mine; estimated timing of the development of new mineral deposits and sources of funding for such development; expectations regarding the sustainability of current gold prices; implementation of exploration programs at Wassa and the timing thereof; the acceleration of the growth and development of the resource base at Wassa; the investment in drilling and development in 2021 resulting in increased mining rates; the nature, scope and timing of in mine exploration activities at Wassa; the ability to materially increase production at Wassa through development capital investments; the use of the non-hedge gold collar contracts; the delivery of a range of operational initiatives that improve the consistency of the operations and visibility of the longer-term potential of the operations; the life of mine; the future work plan with respect to the PEA; the ability of the Company to repay the 7% Convertible Debentures when due or to restructure them or make alternate arrangements; the term of the Macquarie credit facility, and the step down in capacity; the Company having sufficient cash available to support its operations and mandatory expenditures for the next 12 months; the continued commissioning process for the new paste plant; the introduction of second stopes planned for mining; the Company increasing exploration activities; planned exploration at Wassa and the timing and budget thereof; the ability to generate strong margins and sufficient free cash flow, raise additional financing or establish refinancing options for the Company's current debt; the continued at-the-market equity distribution program from time-to-time; the timing, duration and overall impact of the COVID-19 pandemic on the Company's operations and the ability to mitigate such impact; the quantum of cash flow from the sale of Prestea and the anticipated receipt and timing thereof; the availability of mineral reserves based on the accuracy of the Company's updated mineral reserve and resource models; planned drilling activities; the ability to convert mineral resources to mineral reserves through the planned infill drilling program; the potential to increase the Company's mineral resources outside of its existing mineral resources footprint; the anticipated impact of increased exploration on current mineral resources and mineral reserves; and the potential incurrence of further debt in the future. Generally, forward-looking information and statements can be identified by the use of forward-looking terminology such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", "believes" or variations of such words and phrases (including negative or grammatical variations) or statements that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" or the negative connotation thereof. Investors are cautioned that forward-looking statements and information are inherently uncertain and involve risks, assumptions and uncertainties that could cause actual facts to differ materially. Such statements and information are based on numerous assumptions regarding present and future business strategies and the environment in which Golden Star will operate in the future. Forward-looking information and statements are subject to known and unknown risks, uncertainties and other important factors that may cause the actual results, performance or achievements of Golden Star to be materially different from those expressed or implied by such forward-looking information and statements, including but not limited to: gold price volatility; discrepancies between actual and estimated production; mineral reserves and resources and metallurgical recoveries; mining operational and development risks; liquidity risks; suppliers suspending or denying delivery of products or services; regulatory restrictions (including environmental regulatory restrictions and liability); actions by governmental authorities; the speculative nature of gold exploration; ore type; the global economic climate; share price volatility; the availability of capital on reasonable terms or at all; risks related to international operations, including economic and political instability in foreign jurisdictions in which Golden Star operates; risks related to current global financial conditions; actual results of current exploration activities; environmental risks; future prices of gold; possible variations in mineral reserves and mineral resources, grade or recovery rates; mine development and operating risks; an inability to obtain power for operations on favourable terms or at all; mining plant or equipment breakdowns or failures; an inability to obtain products or services for operations or mine development from vendors and suppliers on reasonable terms, including pricing, or at all; public health pandemics such as COVID-19, including risks associated with reliance on suppliers, the cost, scheduling and timing of gold shipments, uncertainties relating to its ultimate spread, severity and duration, and related adverse effects on the global economy and financial markets; accidents, labor disputes and other risks of the mining industry; delays in obtaining governmental approvals or financing or in the completion of development or construction activities; litigation risks; and risks related to indebtedness and the service of such indebtedness. Although Golden Star has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information and statements, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that future developments affecting the Company will be those anticipated by management. Please refer to the discussion of these and other factors in management's discussion and analysis of financial conditions and results of operations for the quarter ended June 30, 2021, and in our annual information form for the year ended December 31, 2020 as filed on SEDAR at [www.sedar.com](http://www.sedar.com). The forecasts contained in this presentation constitute management's current estimates, as of the date of this presentation, with respect to the matters covered therein. We expect that these estimates will change as new information is received and that actual results will vary from these estimates, possibly by material amounts. While we may elect to update these estimates at any time, we do not undertake to update any estimate at any particular time or in response to any particular event. Investors and others should not assume that any forecasts in this presentation represent management's estimate as of any date other than the date of this presentation.

In this presentation, we use the terms "cash operating cost per ounce", "All-In Sustaining Cost per ounce" and "AISC per ounce". These terms should be considered as Non-GAAP Financial Measures as defined in applicable Canadian and United States securities laws and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with International Financial Reporting Standards ("IFRS"). "Cash operating cost per ounce" for a period is equal to the cost of sales excluding depreciation and amortization for the period less royalties, the cash component of metals inventory net realizable value adjustments and severance charges divided by the number of ounces of gold sold (excluding pre-commercial production ounces) during the period. "All-In Sustaining Costs per ounce" commences with cash operating costs and then adds sustaining capital expenditures, corporate general and administrative costs, mine site exploratory drilling and greenfield evaluation costs and environmental rehabilitation costs, divided by the number of ounces of gold sold (excluding pre-commercial production ounces) during the period. This measure seeks to represent the total costs of producing gold from operations. These measures are not representative of all cash expenditures as they do not include income tax payments or interest costs. Changes in numerous factors including, but not limited to, mining rates, milling rates, gold grade, gold recovery, and the costs of labor, consumables and mine site general and administrative activities can cause these measures to increase or decrease. We believe that these measures are the same or similar to the measures of other gold mining companies but may not be comparable to similarly totaled measures in every instance. Please see our "Management's Discussion and Analysis of Financial Condition and Results of Operations for the quarter ended June 30, 2021" for a reconciliation of these Non-GAAP measures to the nearest IFRS measure.

**INFORMATION:** The information contained in this presentation has been obtained by Golden Star from its own records and from other sources deemed reliable, however no representation or warranty is made as to its accuracy or completeness. The mineral reserve and mineral resource estimates have been compiled by the Company's technical personnel in accordance with definitions and guidelines set out in the Definition Standards for Mineral Resources and Mineral Reserves adopted by the Canadian Institute of Mining, Metallurgy, and Petroleum and as required by Canada's National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101"). All mineral resources are reported inclusive of mineral reserves. Mineral resources which are not mineral reserves do not have demonstrated economic viability. Mineral reserve estimates reflect the Company's reasonable expectation that all necessary permits and approvals will be obtained and maintained. Mining dilution and mining recovery vary by deposit and have been applied in estimating the mineral reserves. Additional scientific and technical information relating to the mineral properties referenced in this news release are contained in the technical report dated March 1, 2021 titled "NI 43-101 Technical Report on the Wassa Gold Mine, Mineral Resource and Mineral Reserve Update and Preliminary Economic Assessment of the Southern Extension Zone, Western Region, Ghana" effective December 31, 2020, which is available at: [www.sedar.com](http://www.sedar.com);

The technical contents of this presentation have been reviewed and approved by S. Mitchel Wasel, BSc Geology, a Qualified Person pursuant to NI 43-101. Mr. Wasel is Vice President of Exploration for Golden Star and an active member and Registered Chartered Professional of the Australasian Institute of Mining and Metallurgy. The results for Wassa drilling stated herein are based on the analysis of saw-split HQ/NQ diamond half core or a three-kilogram single stage riffle split of a nominal 25 to 30 kg reverse circulation chip sample which has been sampled over nominal one metre intervals (adjusted where necessary for mineralized structures). Sample preparation and analyses have been carried out at Intertek Laboratories in Tarkwa, Ghana, which are independent from Golden Star, using a 1,000 gram slurry of sample and tap water which is prepared and subjected to an accelerated cyanide leach (LEACHWELL). The sample is then rolled for twelve hours before being allowed to settle. An aliquot of solution is then taken, gold extracted into Di-iso Butyl Keytone (DiBK), and determined by flame Atomic Absorption Spectrophotometry (AAS). Detection Limit is 0.01 ppm. All analytical work is subject to a systematic and rigorous Quality Assurance-Quality Control (QA-QC). At least 5% of samples are certified standards and the accuracy of the analysis is confirmed to be acceptable from comparison of the recommended and actual "standards" results. The remaining half core is stored on site for future inspection and detailed logging, to provide valuable information on mineralogy, structure, alteration patterns and the controls on gold mineralization.

**CAUTIONARY NOTE TO US INVESTORS:** This presentation uses the terms "measured mineral resources", "indicated mineral resources" and "inferred mineral resources." The Company advises US investors that while these terms are recognized and required by NI 43-101, the US Securities and Exchange Commission ("SEC") does not recognize them. Also, although disclosure of contained ounces is permitted under Canadian regulations, the SEC generally requires mineral resource information to be reported as in-place tonnage and grade. US Investors are cautioned not to assume that any part or all of the mineral deposits in the measured and indicated categories will ever be converted into mineral reserves. US investors should also note that "Inferred mineral resources" have a great amount of uncertainty as to their existence, and great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of inferred mineral resources will ever be upgraded to a higher category. In accordance with Canadian rules, estimates of inferred mineral resources cannot form the basis of feasibility or other economic studies. US investors are cautioned not to assume that any part or all of the inferred mineral resource exists or is economically or legally mineable.

**CURRENCY:** All monetary amounts refer to United States dollars unless otherwise indicated.



# PARTICIPATING MANAGEMENT



**Andrew Wray**

Chief Executive Officer



**Graham Crew**

Chief Operating Officer



**Paul Thomson**

Chief Financial Officer



**Mitch Wasel**

VP, Exploration



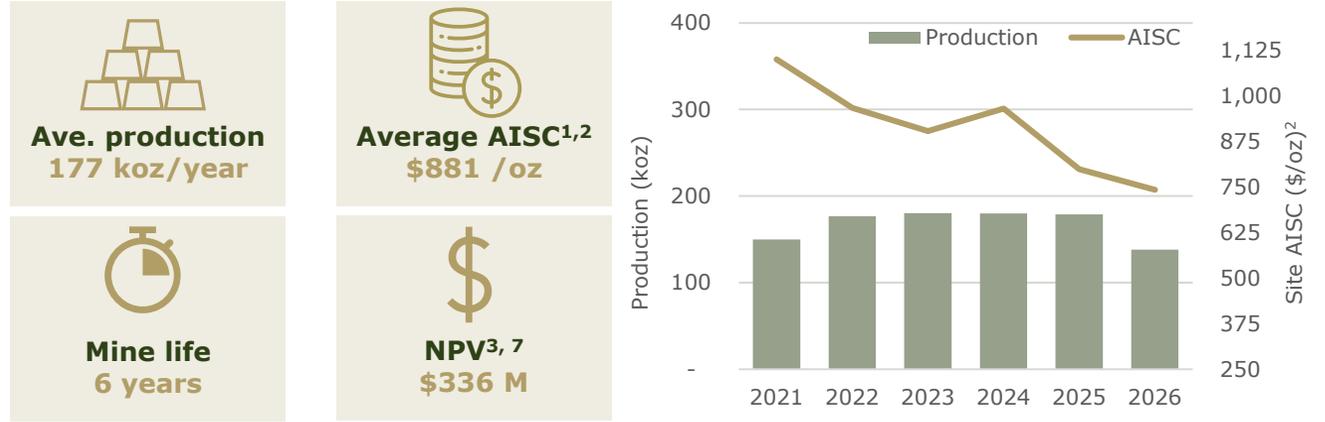
# GOLDEN STAR - Overview

## Wassa | Underground gold mine in Ghana



Wassa Growth Opportunity

### Reserve Mine Plan



### PEA Life of Mine Extension (excludes Reserve plan)



# Q2 2021 – Performance Summary & Key Events

## Production And Sales (Continuing operations)



### Production

Q2 2021 37.9koz  
Q1 2021 40.1koz

### Gold Sold

Q2 2021 37.7koz  
Q1 2021 38.9koz

## Unit Costs (Continuing operations)



### Cash opex/oz<sup>1</sup>

Q2 2021 \$752/oz  
Q1 2021 \$718/oz

### AISC/oz<sup>1</sup>

Q2 2021 \$1,182/oz  
Q1 2021 \$1,100/oz

## Financial Performance



### Adj. EBITDA<sup>1</sup>

Q2 2021 \$26.0m  
Q1 2021 \$27.2m

### Operating Cash Flow<sup>5</sup>

Q2 2021 \$23.2m  
Q1 2021 \$23.3m



### Cash

Q2 2021 \$72.7m  
Q1 2021 \$66.1m

### Net Debt

Q2 2021 \$31.0m  
Q1 2021 \$39.5m

## Q2 2021 Key Events

### Wassa

- The mining rate averaged 3,963tpd in Q2 2021, 12% lower than Q1 2021 due to lower than planned development rates
- Underground mined grade averaged 3.1g/t, in line with the underground reserve grade of 3.1g/t and 4% higher than the grade achieved in Q1 2021
- Processing of low-grade stockpiles continued during Q2 2021, generating 5koz of production
- Investment in infrastructure continued throughout Q2 2021 to provide additional mining flexibility with the objective of increasing mining rates. Capex totaled \$12m

### Balance Sheet

- The cash position increased by \$6.6m to \$72.7m in Q2 2021
- At-the-Market Program – Limited use, \$5.2m of net proceeds in April and May
- Macquarie senior secured credit facility was restructured and upsized to a three-year \$90m revolving credit facility
- Adequate liquidity available to settle convertible debenture on maturity in August

### Paste Fill Commissioning

- The commissioning was delayed by some quality assurance testing returning lower than expected fill strengths in the test stope in April 2021
- Recent results, particularly at a higher cement content of 7-10%, support progression of the commissioning process onto filling of a second test stope
- Anticipate re-commencement of the filling schedule in Q4 2021 allowing for production from secondary stopes as planned in 2022

# Safety and Health – Effective COVID-19 management



## Q2 2021 Performance



### All-injury frequency rate

<b>2.91</b>	<b>3.57</b>
Q2 2021	Q2 2020



### Total recordable injury frequency rate (12-month average)

<b>0.97</b>	<b>0.54</b>
Q2 2021	Q2 2020

## Rapid diagnosis and management response to COVID-19

- During Q2 2021, Wassa experienced 10 suspected COVID-19 cases with 6 confirmed cases and 2 pending results as at quarter end
- In-house PCR testing capability allows for rapid diagnosis and management response
- The number of people required to isolate as a result of contact tracing significantly reduced, supporting business continuity

## Operational Impact

- COVID-19 impacted on the availability of our expatriate Jumbo operators in H1 2021. This resulted in lower than planned development rates being achieved
- Investment in additional resources is being made alongside changes to operating structures to mitigate the ongoing impact of COVID-19 on development rates



# 2021 OUTLOOK – Investing for Continued Growth

2021 Focus	<b>Infill Drilling</b>	<b>Development</b>	<b>Exploration</b>
	Resource to reserve conversion drilling	Accelerating development rates to support future increases in mining rates	Increased budget (versus 2020) to enable systematic testing of exploration targets

## 2021 Guidance

### Production

- Delay to commissioning of paste plant impacts 21% of planned ore tonnes for 2021
- Investment in additional development resource is being made and changes to operating structures to mitigate the ongoing impact of COVID-19
- Wassa is expected to produce 145 - 155koz in 2021

### Costs

- AISC increased to \$1,150/oz - \$1,250/oz driven by lower production volumes and the increased allocation of the capex budget to sustaining capital

### Capital Expenditure

- Capital expenditure range is unchanged
- Sustaining capital guidance has been increased due to increased investment in development and the TSF project
- Expansion capital guidance has been reduced with some ventilation capital deferred for Q4 2021 to early 2022

		Updated Guidance 2021	2021 Guidance
<b>Production and cost highlights</b>			
<b>Production - Wassa</b>	<b>koz</b>	<b>145-155</b>	<b>165-175</b>
<b>Cash operating cost – Wassa<sup>1</sup></b>	<b>\$/oz</b>	<b>750-800</b>	<b>660-700</b>
<b>All-in sustaining cost – Wassa<sup>1</sup></b>	<b>\$/oz</b>	<b>1,150-1,250</b>	<b>1,000-1,075</b>
<b>Capital Expenditure</b>			
Sustaining capital – Wassa	\$m	32-25	26-28
Expansion capital – Wassa	\$m	13-15	19-22
<b>Total Capital – Wassa (excluding capitalized exploration)</b>	<b>\$m</b>	<b>45-50</b>	<b>45-50</b>
Capitalised exploration	\$m	8	4
Expensed exploration	\$m	6	11
<b>Exploration</b>	<b>\$m</b>	<b>14</b>	<b>15</b>
<b>Total capital and exploration</b>	<b>\$m</b>	<b>59-64</b>	<b>60-65</b>



# **WASSA MINE**

**Scaling Production to Gold Endowment**

# PASTE BACKFILL SYSTEM – Ongoing Commissioning



## Overview

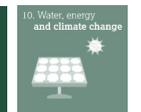
- The Paste fill plant commissioning process started in Q1 2021, following the completion of the plant construction in Q4 2020
- As previously announced the commissioning was delayed by some quality assurance testing returning lower than expected fill strengths in the test stope in April 2021

## Recent Test Work

- Test work program has been extended in collaboration with Minefill Services and the University of Mines and Technology in Tarkwa, Ghana
- Recent test results, particularly at a higher cement content of 7-10%, have shown results that support progression of the commissioning process onto filling of a second test stope

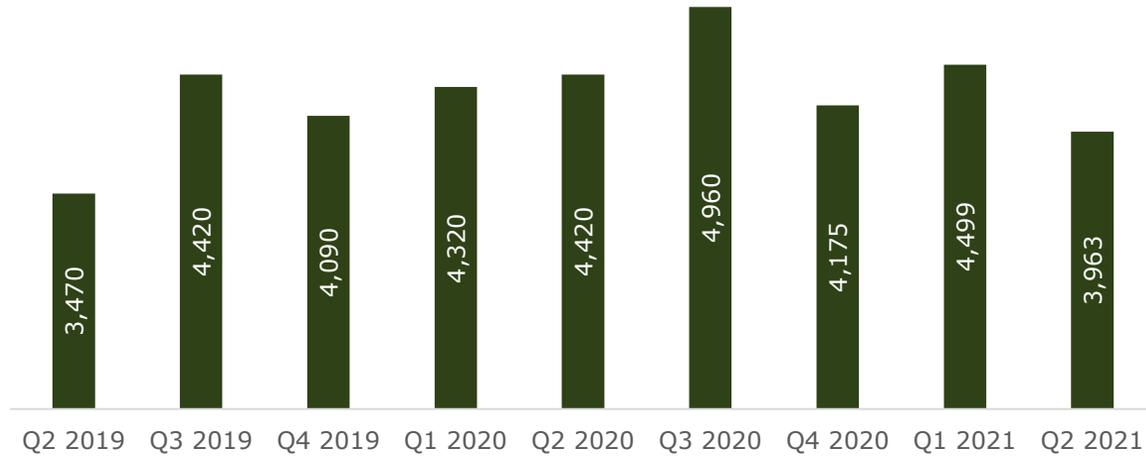
## Outlook

- The second test stope has been identified and is currently progressing through the production phase ahead of filling which is anticipated to occur during Q3 2021.
- The stope will be tested with a 10% cement blend for maximum fill strength, while off-site mix design optimization and test work continues.
- Should this test return satisfactory strength results, as expected, the Company anticipates re-commencement of the filling schedule in Q4 2021 allowing for production from secondary stopes as planned in 2022.

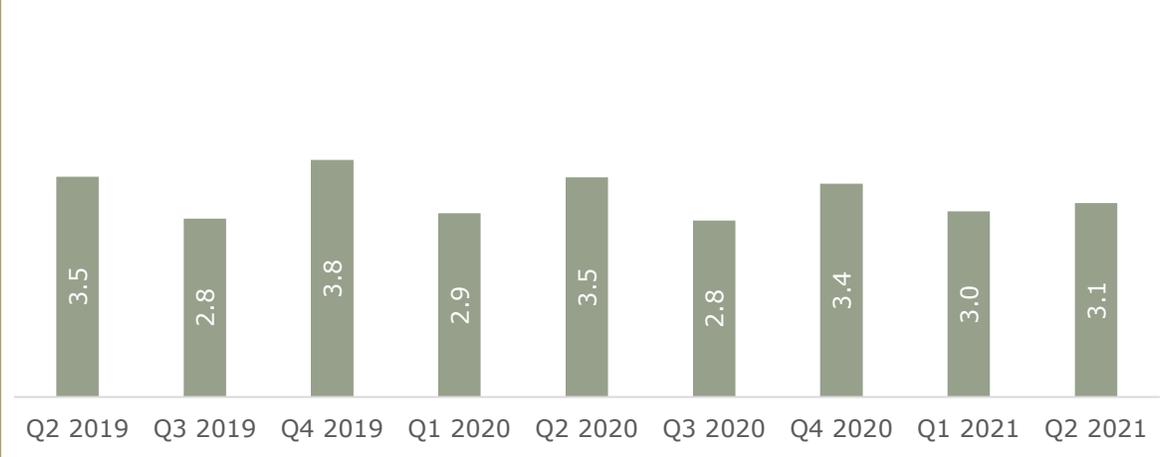


# WASSA PRODUCTION SCORECARD – Performance Tracking

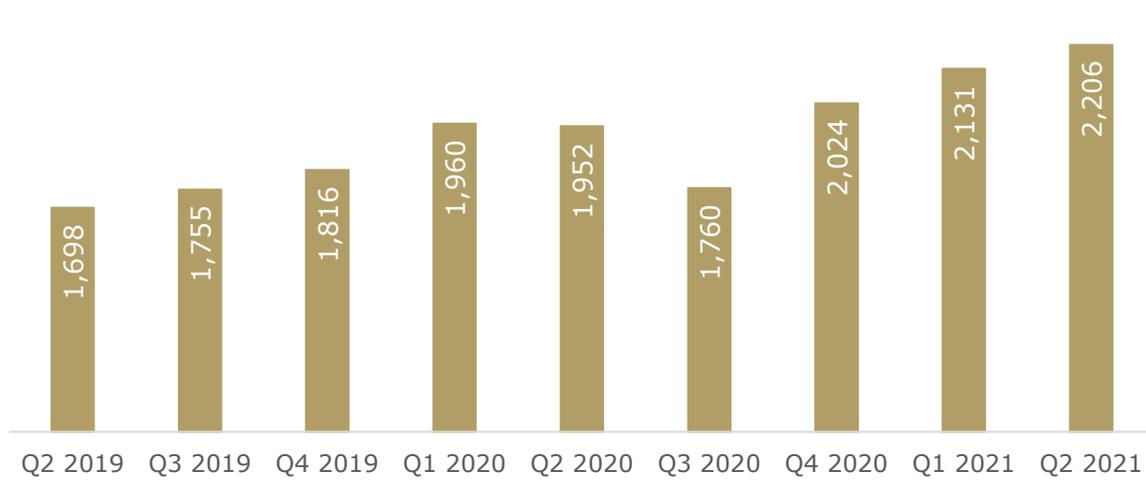
**Mining Rate (ore tpd)**



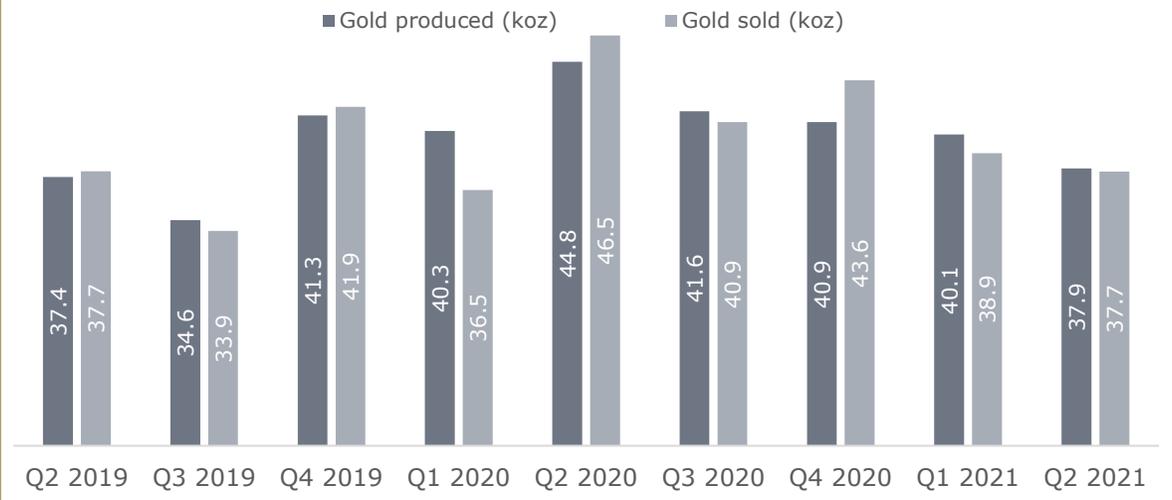
**Grade (g/t)**



**Total Development (m)**

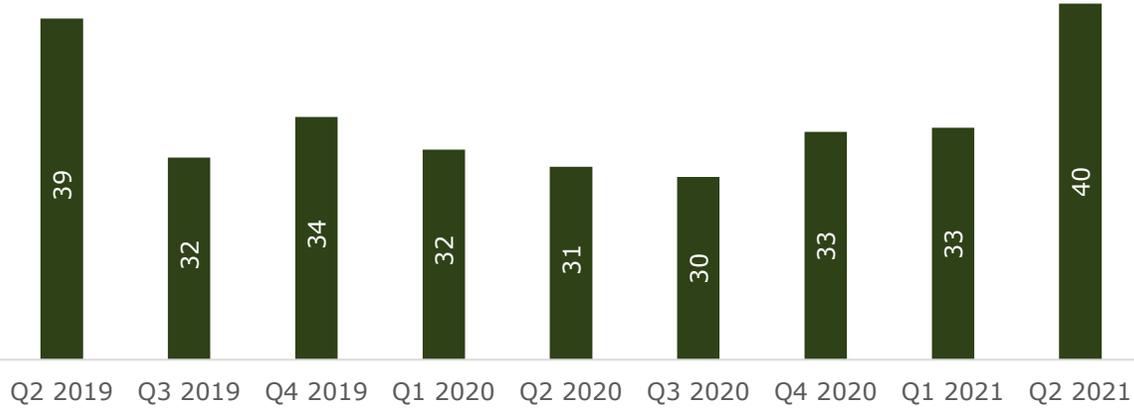


**Production (koz)**

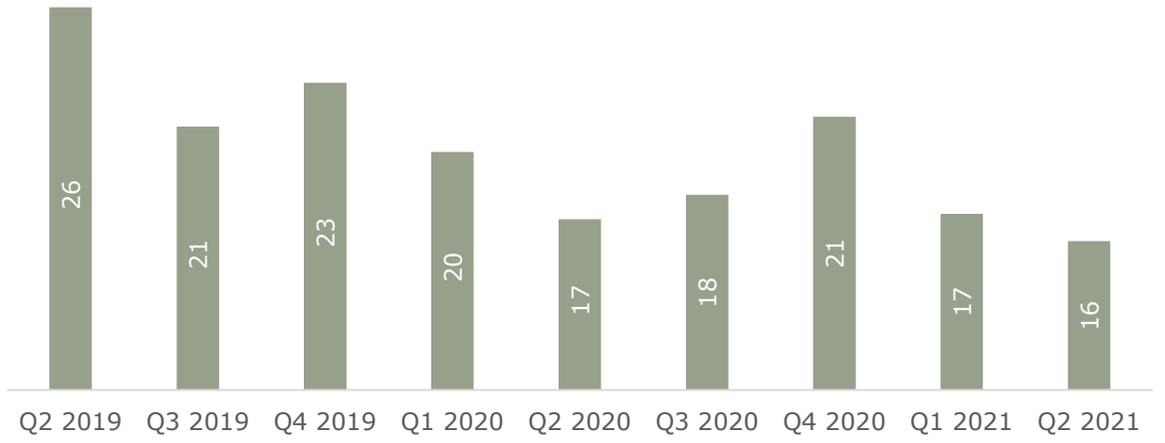


# WASSA COST SCORECARD – Performance Tracking

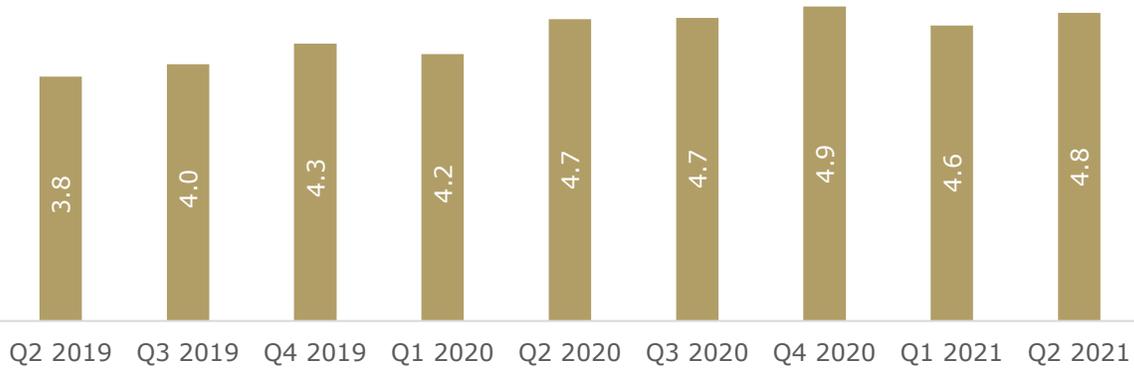
## UG Mining Costs (\$/t ore mined)



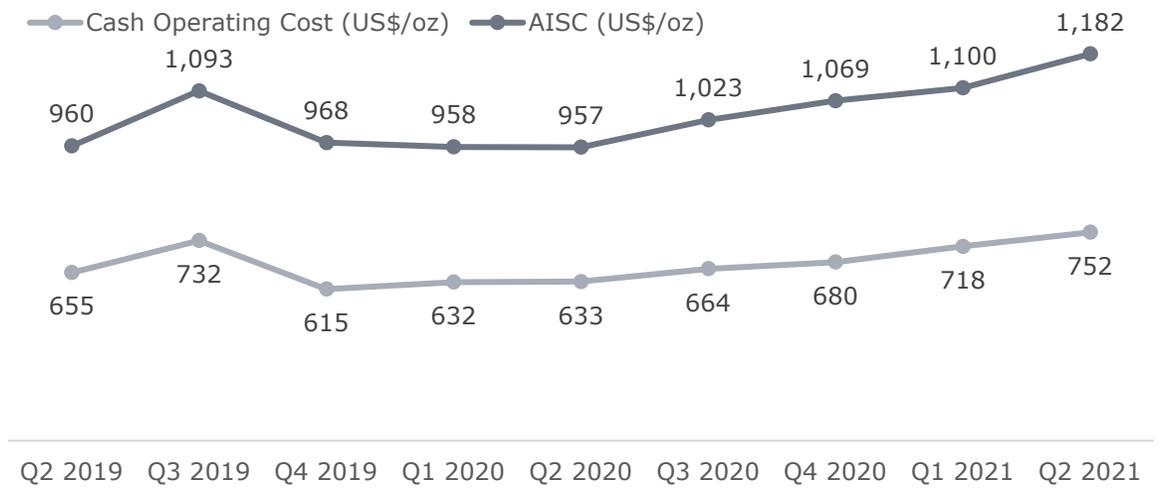
## Processing Costs (\$/t)



## Site G&A (\$m)



## Cash Opex & AISC<sup>1</sup> (\$/oz)



1. See note on slide 2 regarding Non-GAAP Financial Measures.

The background of the slide features a high-contrast industrial scene. A large, circular furnace or ladle is the central focus, filled with bright, glowing molten metal. The interior of the furnace is a brilliant yellow-orange, while the surrounding metal structure is dark and textured. To the right, a large, dark, gear-like or star-shaped structure is partially visible, with a smaller opening containing molten metal. The overall atmosphere is one of intense heat and industrial activity. The text is overlaid on a semi-transparent white rectangular area in the bottom-left corner.

**Q2 2021 RESULTS**  
**Creating Financial Flexibility**

# Q2 2021 CONSOLIDATED FINANCIAL RESULTS

Continuing operations		Q2 2021	Q2 2020	% change
Gold produced - Wassa	Koz	37.9	44.8	(15%)
Gold sold - Wassa	Koz	37.7	46.5	(19%)
Realized gold price – spot sales	\$/oz	1,807	1,713	5%
Realized gold price – Streaming agreement	\$/oz	792	836	(5%)
<b>Realized gold price - Consolidated</b>	<b>\$/oz</b>	<b>1,709</b>	<b>1,621</b>	<b>5%</b>
Gold revenues	\$m	64.4	75.4	(15%)
Cost of sales	\$m	31.9	33.6	(5%)
Depreciation and amortization	\$m	7.1	6.3	13%
<b>Mine operating profit</b>	<b>\$m</b>	<b>25.5</b>	<b>35.5</b>	<b>(28%)</b>
Corporate general and administrative expense	\$m	4.2	4.3	(2%)
Exploration expense	\$m	1.4	0.4	250%
Share based compensation expense	\$m	0.9	0.7	29%
Loss on fair value of derivative financial instruments, net	\$m	0.7	1.8	(61%)
Other expense/(income), Net	\$m	17.7	(0.6)	3050%
<b>Income before finance and tax</b>	<b>\$m</b>	<b>0.5</b>	<b>29.0</b>	<b>(98%)</b>
EDITDA <sup>1</sup>	\$m	7.6	35.2	(78%)
<b>Adj. EDITDA<sup>1</sup></b>	<b>\$m</b>	<b>26.0</b>	<b>36.4</b>	<b>(29%)</b>
Finance expense	\$m	1.0	3.3	(70%)
Tax expense	\$m	10.0	14.0	(29%)
Net (loss)/income from continuing operations attributable to shareholders	\$m	(12.1)	9.3	(230%)
Net (loss)/income per share from continuing operations	\$/share	(0.11)	0.08	(238%)
<b>Adj. income per share attributable to shareholders – basic<sup>1</sup></b>	<b>\$/share</b>	<b>0.05</b>	<b>0.10</b>	<b>(50%)</b>

## Mine Operating Profit – \$26m

- Strong realized gold price for spot sales of \$1,807/oz
- Including the impact of the Royal Gold stream the realized gold price averaged \$1,709/oz
- Q2 2020 was a strong comparative period for production
- Gold sold was in in-line with production but did not catch up the 1.2koz sales lag from Q1 2021
- Revenue totaled \$64.4m in Q2 2021, 15% lower than \$75.4m in Q2 2020 due to lower gold sales

## Adjusted EBITDA<sup>1</sup> - \$26m

- EBITDA \$7.6m
- Adjustments include:
  - non-cash loss recognized on the deferred consideration for the sale of Prestea of \$17.4 million
  - Gain on fair value of financial instruments \$0.7m (gold hedges and convertible debenture)
- Adjusted EBITDA \$26m, 29% lower than Q2 2020 due to lower production volumes, increased mine operating costs and increased exploration expenses

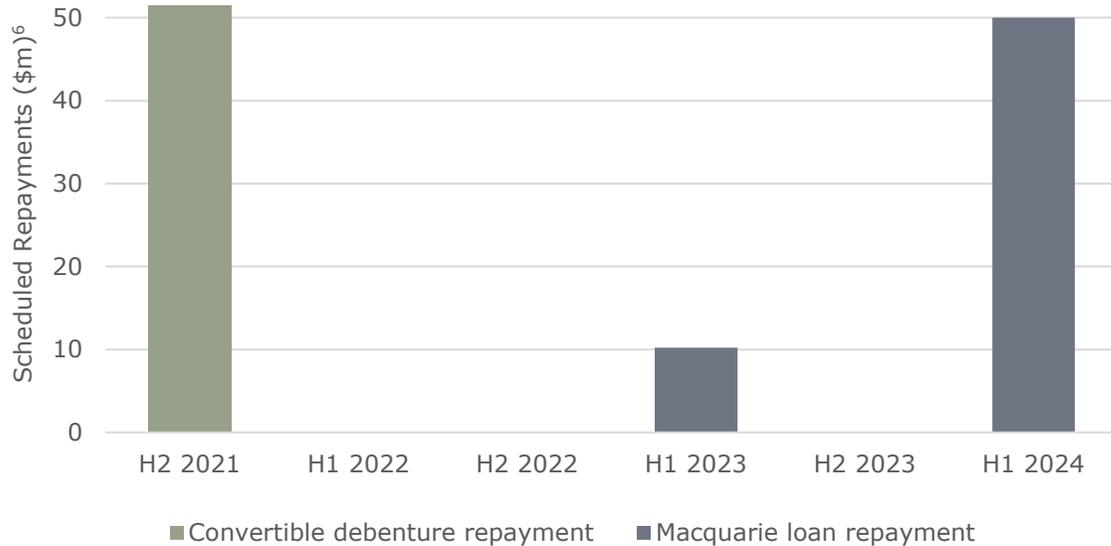
## Adjusted Earnings Per Share<sup>1</sup> - \$0.05

- Adjusted net income attributable to Golden Star shareholders was \$6.1m or \$0.05 basic income per share
- This was impacted by the lower gold sales and a higher depreciation charge during the quarter

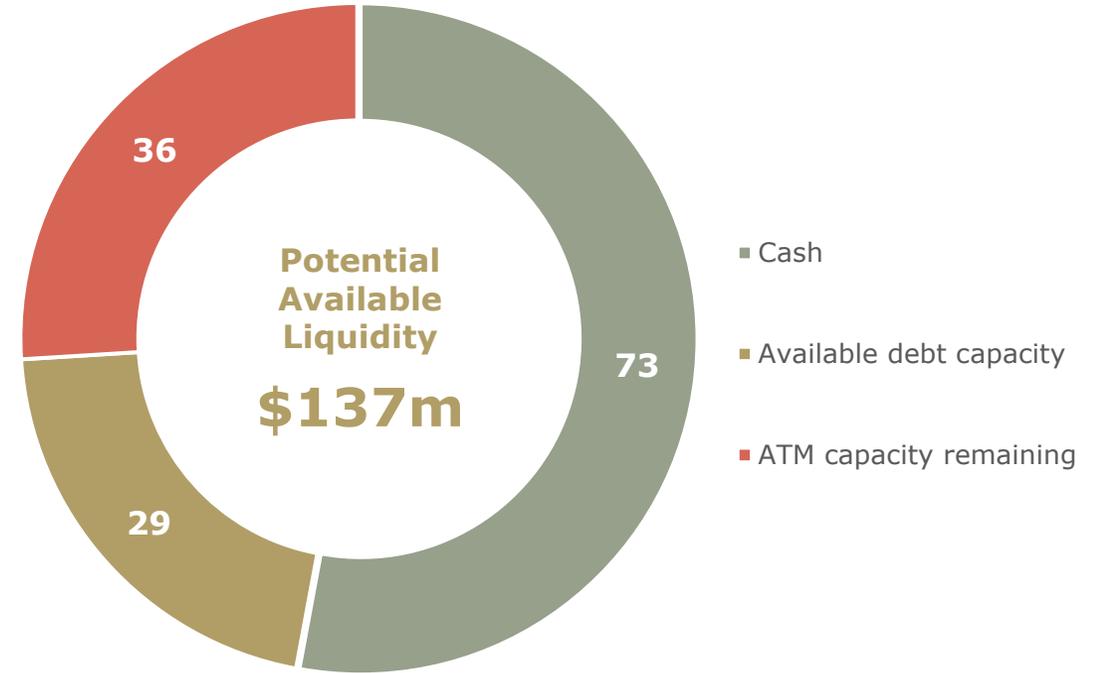
# BALANCE SHEET – Net Debt Reduction

## Debt Summary

Facility	Interest	Outstanding Balance	Undrawn capacity	Maturity	Repayment
Macquarie term loan	4.0-5.25% +3mth LIBOR	\$60.8m	\$29.2m	June 2024	Step down to \$50m June 2023
Convertible Debenture	7%	\$51.5m		August 2021	Single payment
<b>Total gross debt</b>		<b>112.3</b>			
<b>Accounting value of debt</b>		<b>103.7</b>			
<b>Net debt</b>		<b>31.0</b>			
<b>Net debt/EBITDA</b>		<b>0.3x</b>			



## Liquidity (\$m)



## Hedging – Zero Cost Collars

	Unit	H2 2021	2022	2023	H1 2024
<b>Total Ounces</b>	Koz	25,000	50,000	50,000	25,000
<b>Floor Price</b>	\$/oz	1,600	1,600	1,600	1,600
<b>Ceiling Price</b>	\$/oz	2,171	2,179	2,115	2,115
<b>Quarterly delivery obligation</b>	koz	12,500	12,500	12,500	12,500

# NET CASH FLOW BRIDGE – Q2 2021 Cash Movement



## \$6.6m increase in cash during Q2 2021

### Cash from continuing operations

- Strong Wassa operating cashflow of \$30.0m (before working capital movements and tax)
- Income tax payment of \$5.4m for Wassa, relating to Q1 2021
- Reduction in accounts payable resulted in a working capital outflow of \$3.2m

### Corporate and exploration activities

- Corporate general and administrative cash outflows of \$4.2m
- \$3.3m invested in exploration, of which \$1.4m was expensed and \$1.9m capitalized
- Interest payments of \$0.7m related to the quarterly interest for the Macquarie credit facility

### Cash from financing activities

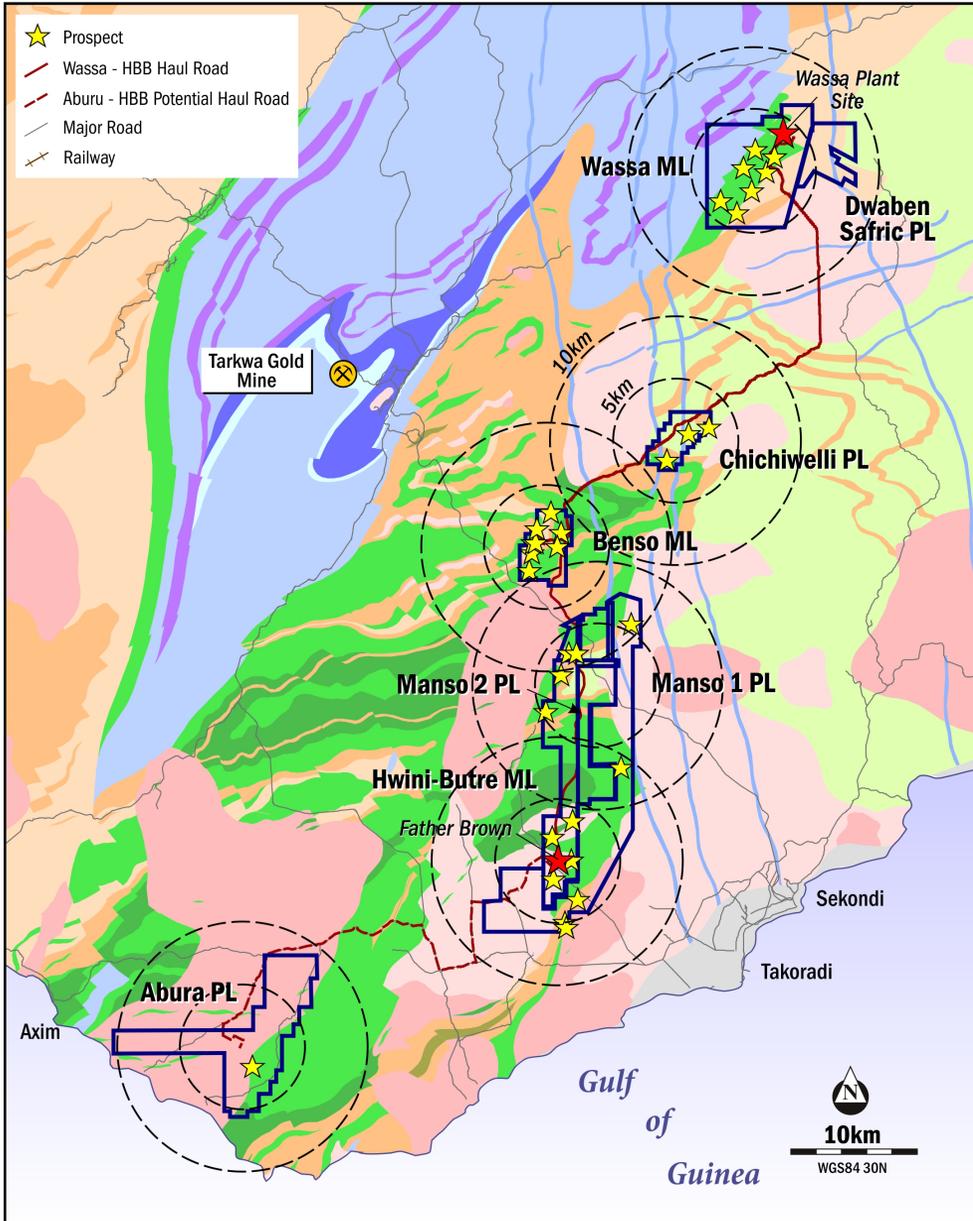
- Net proceeds from the ATM program of \$5.2m during the quarter
- Principal payments on leases totalled \$0.9m



# **EXPLORATION & GEOLOGY**

**Re-evaluating a Prospective Land Package**

# EXPLORATION – Redefining the Exploration Strategy



## History of Discovery through Exploration

In last 10 years, added 2.5 Moz M&I and 8 Moz inferred at c.\$7.30 /oz

## Exploration Focus – Accelerating Activity in 2021

### Exploration Guidance

\$

**\$14 M**

2021 Exploration budget

### Q2 2021

- \$3.3m invested in exploration at Wassa & the regional HBB licences
- Of which \$1.9m of Wassa in-mine exploration was capitalized & the balance was expensed

## Exploration Opportunities

### In-mine

Target extensions of mineralization around current mining areas

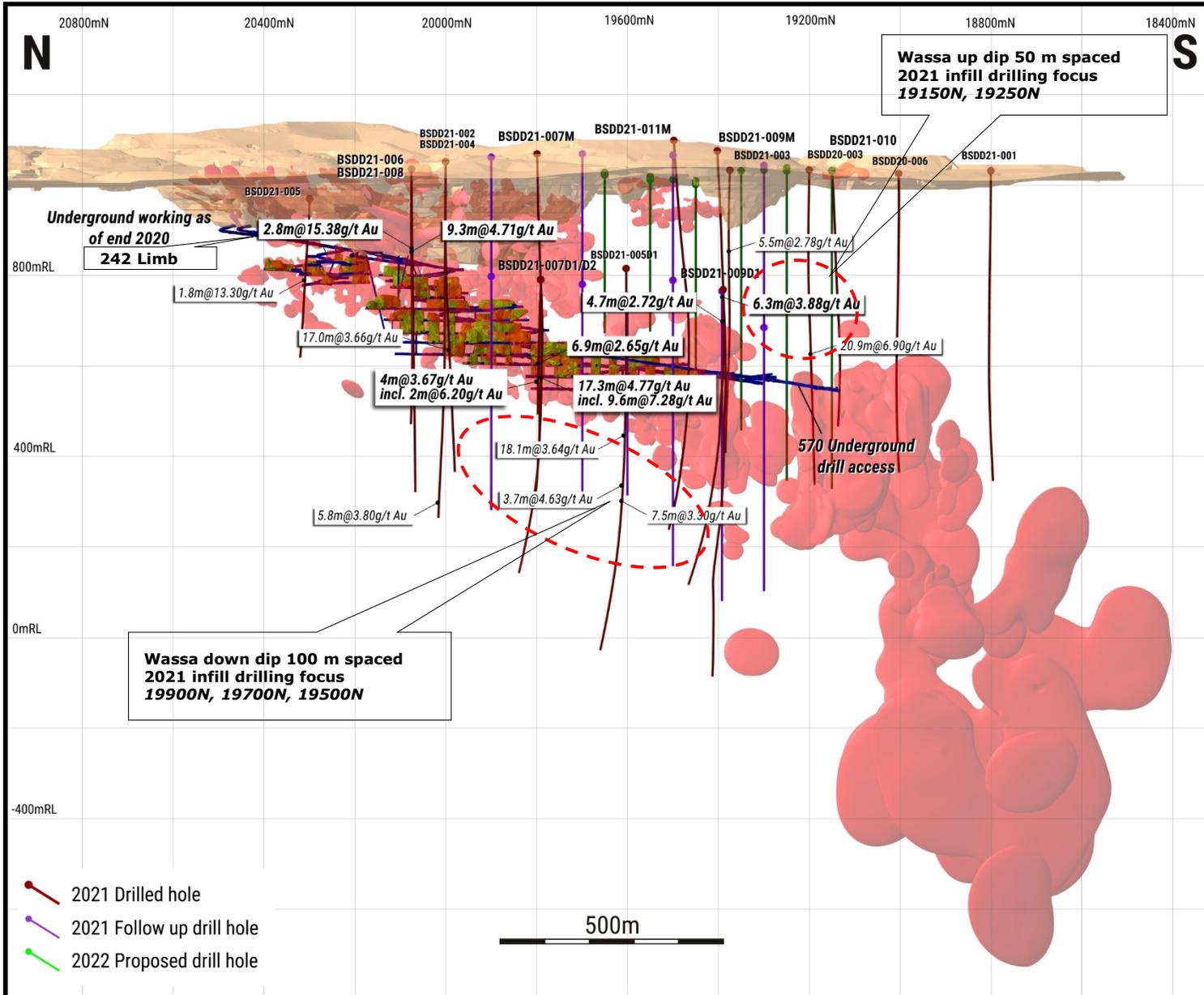
### Near-mine

Target below historical open pits outside of the Main Wassa trend

### Regional

Target below historical HBB pits and geochemical/geophysical anomalies

# EXPLORATION – In-mine Extension Opportunities



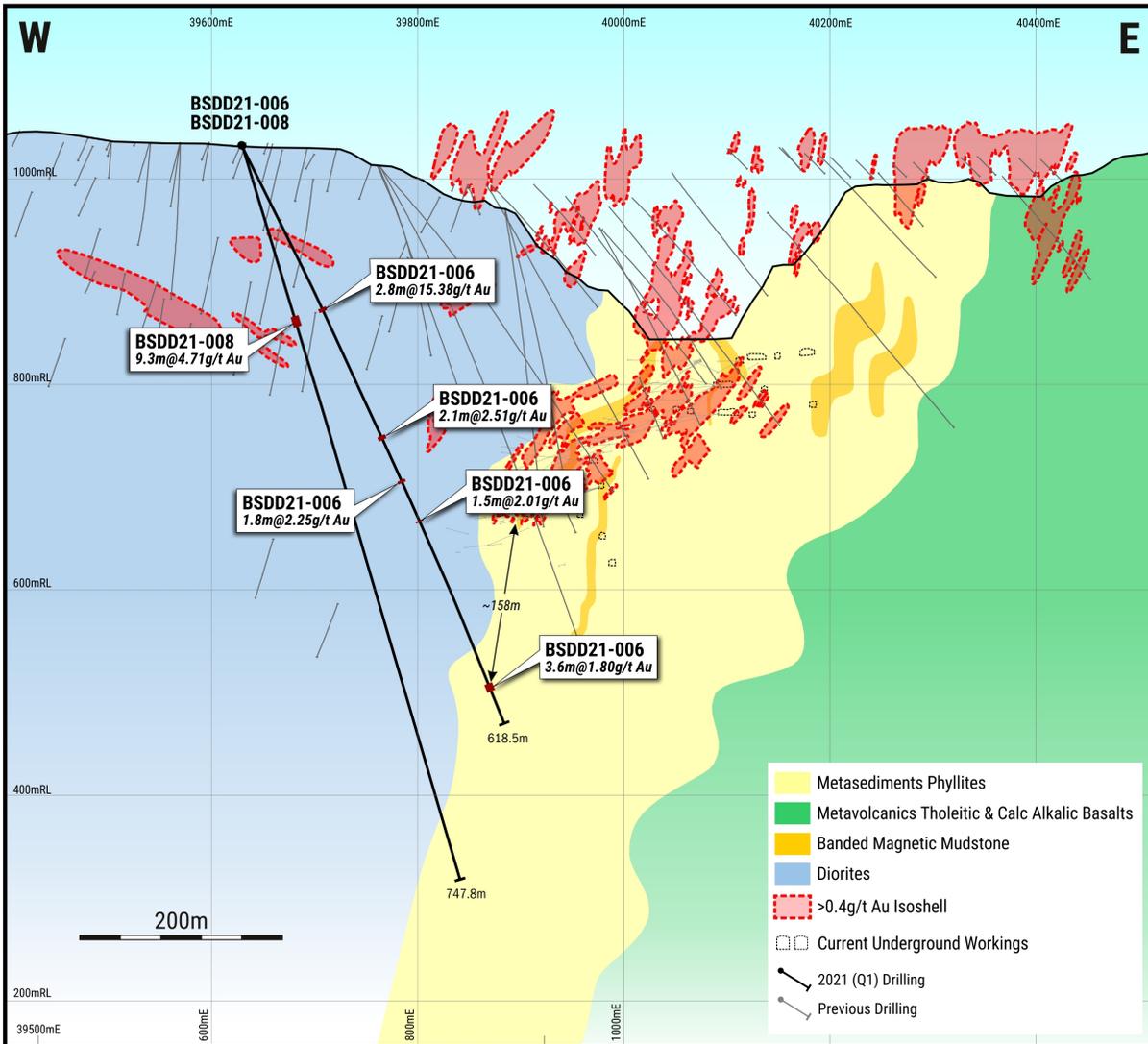
During the quarter 3 surface drill rigs continued the testing of targets down-dip of the existing reserve

A total of five holes were completed for 4,827m during Q2 2021

Phase One (200m spacing) up-dip & down-dip program was expected to total 10,000m in 2021  
Year to date drilling total 11,175m

Phase one in-mine drilling was completed during the quarter  
Funds now reallocated to infill drilling aimed at identifying mineral resources by the year end

# EXPLORATION – Wassa Q2 2021 In-mine Drilling

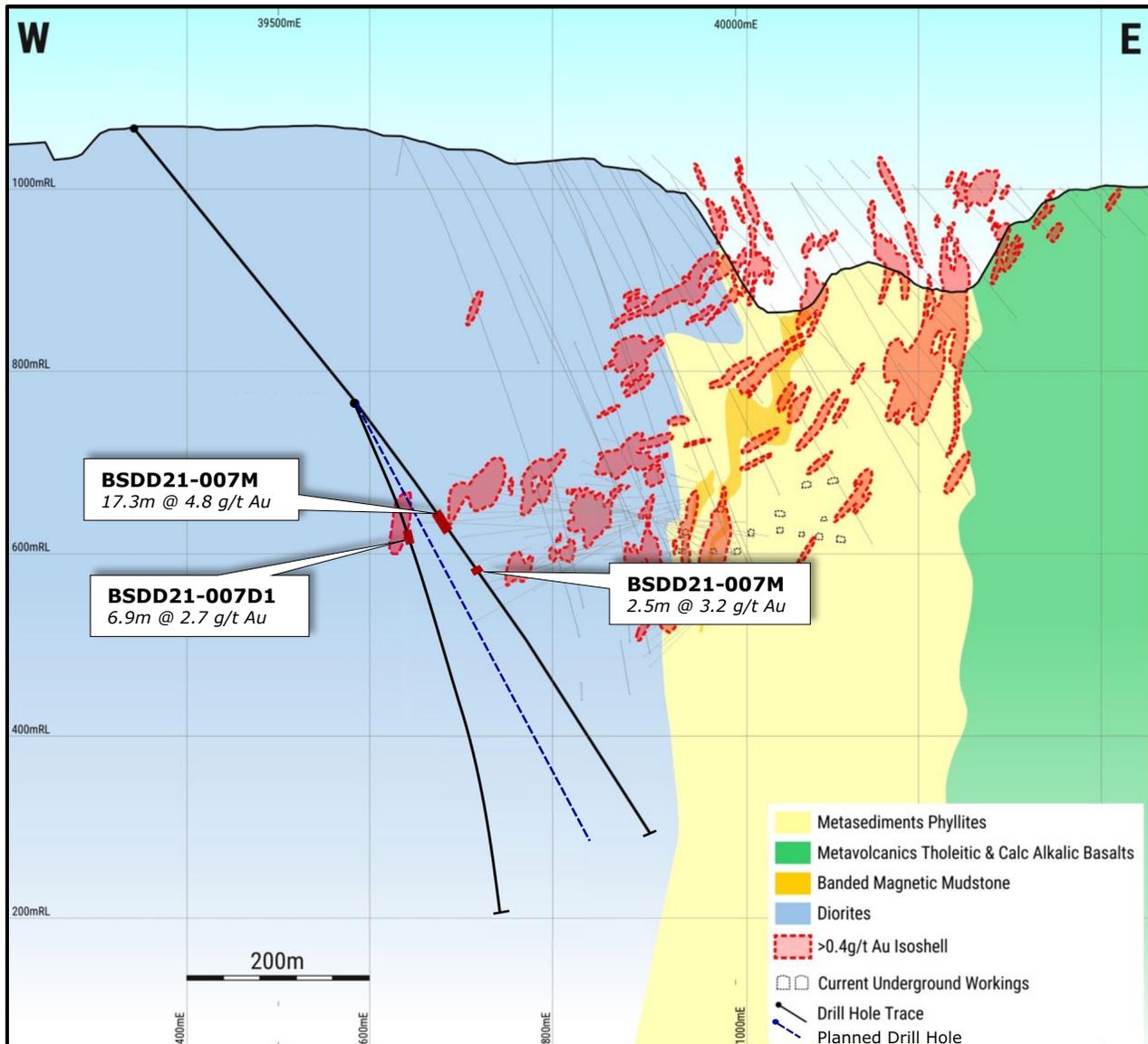


Hole ID	From (m)	To (m)	Drilled Width (m)	Estimated True Width (m)	Grade Au (g/t)	Drilling target
BSDD20-006	101.7	104.7	3	3	6.3	Down-dip
BSDD20-006	176.0	179.0	3	2.8	15.4	Down-dip
BSDD20-006	215.8	319.8	4	2.1	2.5	Down-dip
BSDD20-006	364.5	368.0	3.5	1.8	2.3	Down-dip
BSDD20-006	406.1	409.0	2.9	1.5	2.0	Down-dip
BSDD20-007M	535.0	553.0	18	17.3	4.8	Down-dip
including	536.0	546.0	10	9.6	7.3	Down-dip
BSDD21-007M	629.0	631.5	2.5	2.4	3.2	Down-dip
BSDD21-008	176.3	185.7	9.4	9.3	4.7	Down-dip
BSDD21-007D1	183.0	190.0	7	6.9	2.7	Down-dip
BSDD21-009	299.0	307.0	8	6.8	1.5	Down-dip
BSDD21-009	374.0	383.0	9	4.7	2.7	Down-dip
BSDD21-009	741.0	746.0	5	3.8	1.2	Down-dip
BSDD21-009	786.0	788.0	2	1.5	2.0	Down-dip
BSDD21-009	833.8	838.8	5	3.7	2.0	Down-dip

## BSDD21-008 – 242 (upper mine) target

- Intercepting 9.3m at 4.7g/t
- This is in line with the western limb extension of the 242 zone which forms part of the Upper Mine target

# EXPLORATION – Wassa Q2 2021 In-mine Drilling



## BSDD21-007M – Down-dip target

- Intersected 17.3m at 4.8g/t

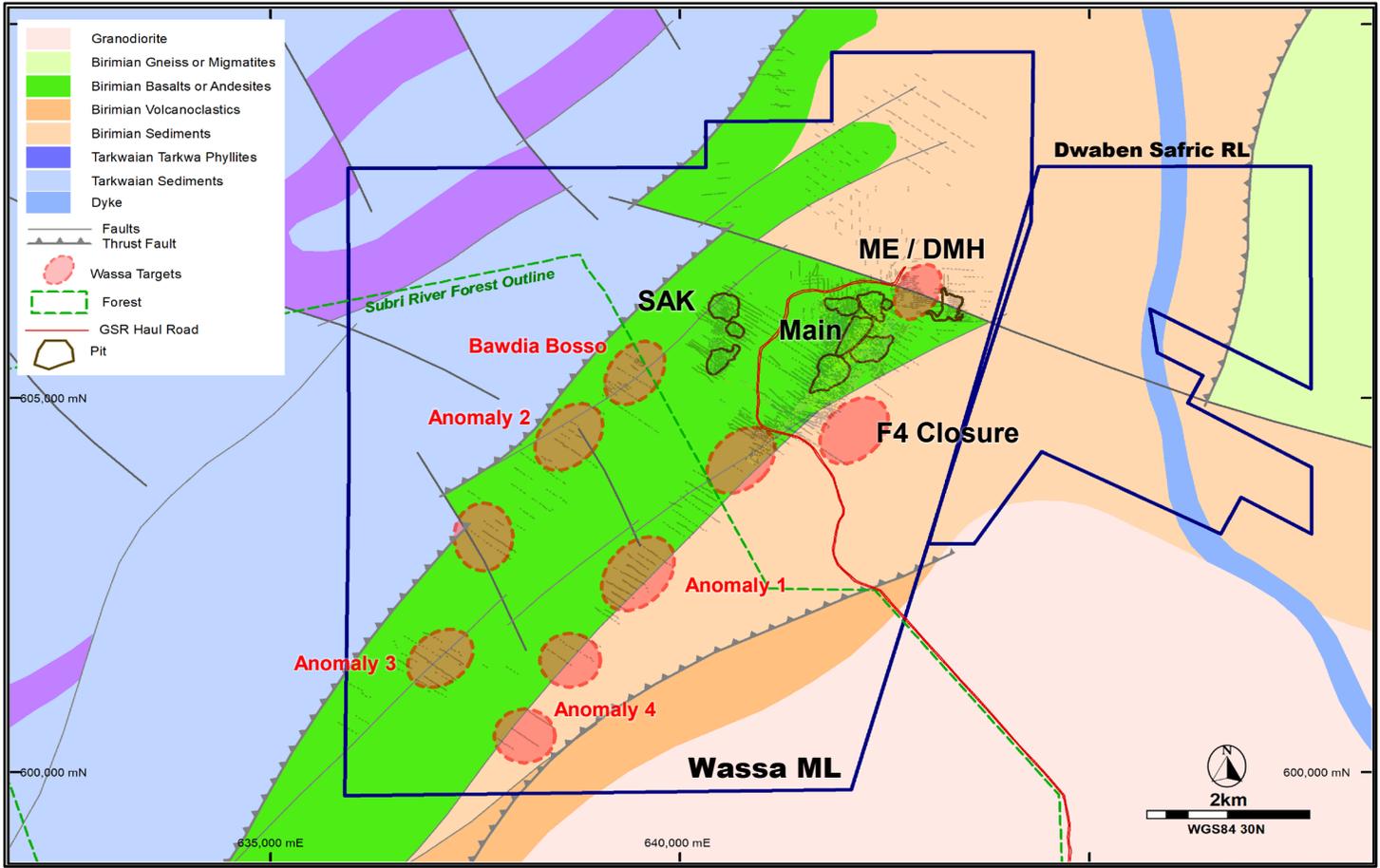
## BSDD21-007D1 – Down-dip target

- Intersected 6.9m at 2.7g/t
- C.50m down-dip of hole DSDD21-007M (see above)
- This hole represents further confirmation that the B-Shoot hanging wall zone extends below the current reserve, warranting further down-dip drilling to the west

## Q3 2021 Exploration Program

- Follow-up drilling of the up-dip and down-dip extensions to mineralization
- Aimed at reducing the initial 200m spacing to 100m for the down-dip program and 50m for the up-dip program

# EXPLORATION – Wassa Near-Mine Exploration



Hole ID	From (m)	To (m)	Drilled Width (m)	Estimated True Width (m)	Grade Au (g/t)
SAKDD21-001	318.0	321.0	3.0	2.1	2.64
SAKDD21-002	250.0	253.0	3.0	2.1	1.64
SAKDD21-002	256.7	257.4	0.7	0.5	5.26
SAKDD21-002	266.0	268.0	2.0	2.0	2.52
MEDD21-001	57.0	60.0	3.0	2.9	2.76
MEDD21-001	198.0	204.0	6.0	5.9	2.37
MEDD21-001	210.4	218.4	8.0	7.8	2.07
MEDD21-002	110.0	112.0	2.0	2.0	2.40
MEDD21-002	258.3	260.5	2.2	1.9	1.45
MEDD21-002	267.0	270.0	3.0	2.6	1.26
MEDD21-002	272.4	275.4	3.0	2.6	2.78

**Program focussed on the drill testing of mineralization beneath mined and back-filled open pits at SAK, Mid East and Dead Man Hill**

**A total of seven RC and diamond drilling holes were completed for 2,394m during Q2 2021**

**Air core drilling of a soil anomaly south east of the Wassa trend was completed with 59 holes totalling 2,365m**

**The planned first phase of drilling at Mid East and Dead Man Hill has been completed**  
**Drilling ongoing at SAK**

# EXPLORATION – Wassa Regional Exploration

## **Subriso West Zone**

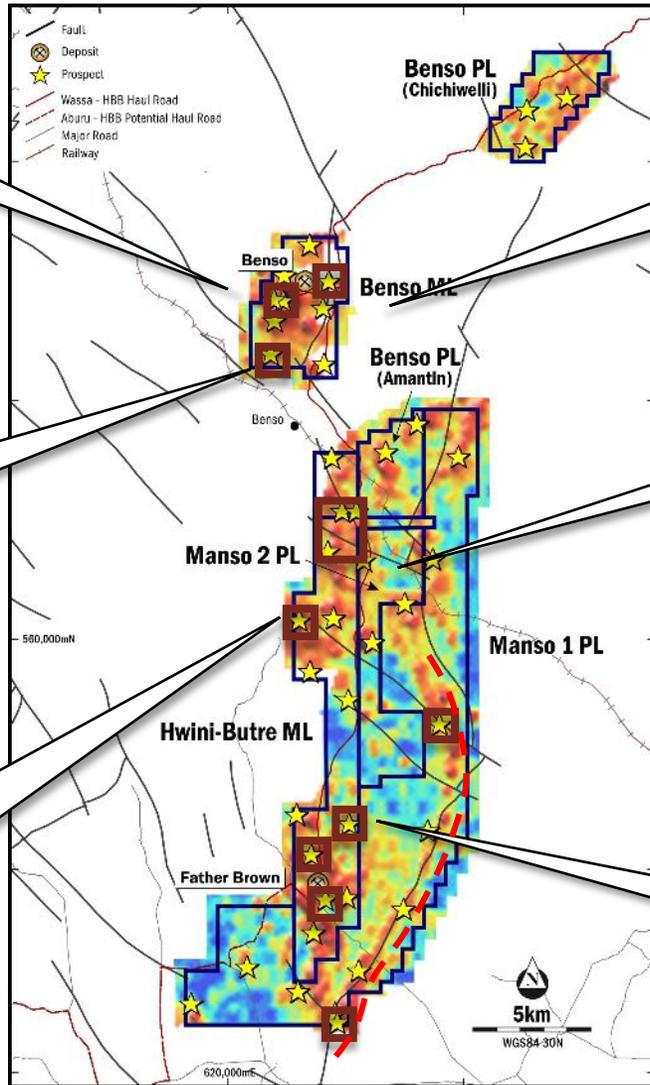
8 RCDD Holes for 3,250 metres

## **Kwahu Hill**

40 AC Holes for 1,725 metres

## **Abada Area**

108 AC Holes for 5,025 metres  
200 Line km IP Survey



## **Subriso East Zone**

6 RCDD Holes for 1,550 metres

## **Manso 2**

103 AC Holes for 5,150 metres

## **Seikrom**

38 AC Holes for 1,900 metres

## **Seikrom AC Program**

100/200 metre spaced fences, 23 out of 38 holes completed.

## **Abada Area AC Program**

Drilling partly completed. Positive AC result from Abada-Guadium and Abada South to be evaluated with IP and Mag survey data.

## **Benso-Subriso RC/DD drilling**

Drill testing beneath the previously mined pits (GZ deferred to 2022) SE drilling to South of Pit testing plunge of HG shoot, defined in OP GC commenced in July, two holes completed. SW drilling of HG shoot to commence in August

## **IP and Magnetic survey**

133km line cutting completed at Abada. Program expected to run through Q4 2021.

# SUMMARY – PEA Indicates Significant Growth of Production and Mine Life

<b>Wassa Growth Opportunity</b>	Reserve Mine Plan			
	 <b>Ave. Production</b> 177koz/year	 <b>Average AISC<sup>1,2</sup></b> \$881/oz	 <b>Mine life</b> 6 years	 <b>NPV<sup>3,7</sup></b> \$336m
	PEA Life of Mine Extension (excludes Reserve plan)			
	 <b>Ave. Production</b> 294koz/year	 <b>Average AISC<sup>1,2</sup></b> \$778/oz	 <b>Mine life</b> 11 years	 <b>NPV<sup>4,7</sup></b> \$783m
<b>Exploration</b>	2021 - The first extensive investment in systematic exploration			
	Delineate extensions of underground mineralization	Delineate surface targets within 5-10km of Wassa mill	Test 90km gold belt for standalone targets	
<b>Balance Sheet</b>	<b>Address 7% convertible debentures</b> Maturity August 2021		<b>Current available liquidity</b> \$138m	

Catalysts - Next 12 months	
<b>Balance Sheet</b>	
Repayment of the 7% convertible debentures on maturity in August 2021	
—————	
<b>Infrastructure</b>	
Paste fill plant - Production from secondary stopes planned for 2022	
—————	
<b>Definition Drilling</b>	
Increased investment in infill drilling at Wassa Underground aimed at resource to reserve conversion	
—————	
<b>Exploration</b>	
Exploration spend accelerating in 2021	
Systematic program testing of in mine, near mine and regional targets	

# THANK YOU – Q&A

## CONTACT US

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### VALUES



Respect



Caring



Collaboration



Fairness



Honesty

# FOOTNOTES & ASSUMPTIONS

## Footnotes

1. See note on slide 2 regarding Non-GAAP Financial Measures
2. Mine site only - excludes corporate G&A
3. Based on analyst consensus short term forecasts (January 2021)
4. Based on analyst consensus long term forecast \$1,585/oz (January 2021)
5. Operating cash flow before working capital changes and taxes (including discontinued operations).
6. Repayment profile based on the drawn amount at June 30, 2021
7. After tax, 100% basis
8. AISC in pre-production years not included

## Gold Price Assumptions

	2021	2022	2023	2024	Flat Long Term
Gold Price - Analyst Consensus	1,944	1,880	1,773	1,716	1,585
Gold Price - Base Case					1,300