



A FREE CASH FLOW FOCUSED GOLD PRODUCER



Q3 2021 Conference Call

November 2021

Cautionary Notes



Cautionary Note Regarding Forward-Looking Statements

Except for statements of historical fact relating to the Company, certain statements contained in this presentation constitute forward-looking information, future oriented financial information, or financial outlooks (collectively "forward-looking information") within the meaning of Canadian securities laws. Forward-looking information may be contained in this document and the Company's other public filings. Forward-looking information relates to statements concerning the Company's outlook and anticipated events or results and in some cases, can be identified by terminology such as "may", "will", "could", "should", "expect", "plan", "anticipate", "believe", "intend", "estimate", "projects", "predict", "potential", "continue" or other similar expressions concerning matters that are not historical facts.

Forward-looking information and statements in this presentation are based on certain key expectations and assumptions made by the Company. Although the Company believes that the expectations and assumptions on which such forward-looking information and statements are based are reasonable, undue reliance should not be placed on the forward-looking information and statements because the Company can give no assurance that they will prove to be correct. Forward-looking information and statements are subject to various risks and uncertainties which could cause actual results and experience to differ materially from the anticipated results or expectations expressed in this presentation. The key risks and uncertainties include, but are not limited to: local and global political and economic conditions; governmental and regulatory requirements and actions by governmental authorities, including changes in government policy, government ownership requirements, changes in environmental, tax and other laws or regulations and the interpretation thereof; developments with respect to COVID-19 pandemic, including the duration, severity and scope of the pandemic and potential impacts on mining operations; and other risk factors detailed from time to time in the Company's reports filed with the Canadian securities regulatory authorities.

Forward-looking information and statements in this presentation include statements concerning, among other things: forecasts; outlook; timing of production; production, cost, operating and capital expenditure guidance; the Company's intention to return excess attributable free cash flow to shareholders; the timing and implementation of the Company's dividend policy; the implementation of any share buyback program and the amount thereof; statements regarding plans or expectations for the declaration of future dividends and the amount thereof; future cash costs and all in sustaining costs ("AISC") per ounce of gold, silver and other metals sold; the prices of gold, silver and other metals; Mineral Resources, Mineral Reserves, realization of Mineral Reserves, and the existence or realization of Mineral Resource estimates; the Company's ability to discover new areas of mineralization; the timing and extent of capital investment at the Company's operations; the timing and extent of capitalized stripping at the Company's operations; the timing of production and production levels and the results of the Company's exploration and development programs; current financial resources being sufficient to carry out plans, commitments and business requirements for the next twelve months; movements in commodity prices not impacting the value of any financial instruments; estimated production rates for gold, silver and other metals produced by the Company; the estimated cost of sustaining capital; availability of sufficient financing; receipt of regulatory approvals; the timing of studies, announcements, and analysis; the timing of construction and development of proposed mines and process facilities; ongoing or future development plans and capital replacement; estimates of expected or anticipated economic returns from the Company's mining projects, including future sales of metals, concentrate or other products produced by the Company and the timing thereof; the Company's plans and expectations for its properties and operations; and all other timing, exploration, development, operational, financial, budgetary, economic, legal, social, environmental, regulatory, and political matters that may influence or be influenced by future events or conditions.

Such forward-looking information and statements are based on a number of material factors and assumptions, including, but not limited in any manner to, those disclosed in any other of the Company's filings, and include: the inherent speculative nature of exploration results; the ability to explore; communications with local stakeholders; maintaining community and governmental relations; status of negotiations and potential transactions, including joint ventures; weather conditions at the Company's operations; commodity prices; the ultimate determination of and realization of Mineral Reserves; existence or realization of Mineral Resources; the development approach; availability and receipt of required approvals, titles, licenses and permits; sufficient working capital to develop and operate the mines and implement development plans; access to adequate services and supplies; foreign currency exchange rates; interest rates; access to capital markets and associated cost of funds; availability of a qualified work force; ability to negotiate, finalize, and execute relevant agreements; lack of social opposition to the Company's mines or facilities; lack of legal challenges with respect to the Company's properties; the timing and amount of future production; the ability to meet production, cost, and capital expenditure targets; timing and ability to produce studies and analyses; capital and operating expenditures; economic conditions; availability of sufficient financing; the ultimate ability to mine, process, and sell mineral products on economically favorable terms; and any and all other timing, exploration, development, operational, financial, budgetary, economic, legal, social, geopolitical, regulatory and political factors that may influence future events or conditions. While the Company consider these factors and assumptions to be reasonable based on information currently available to the Company, they may prove to be incorrect.

The above list is not exhaustive of the factors that may affect any of the Company's forward-looking statements and information. You should not place undue reliance on forward-looking information and statements. Forward-looking information and statements are only predictions based on the Company's current expectations and the Company's projections about future events. Actual results may vary from such forward-looking information for a variety of reasons including, but not limited to, risks and uncertainties disclosed in the Company's filings on the Company's website at www.ssrmining.com, on SEDAR at www.sedar.com, on EDGAR at www.sec.gov and on the ASX at www.asx.com.au and other unforeseen events or circumstances. Other than as required by law, the Company does not intend, and undertake no obligation to update any forward-looking information to reflect, among other things, new information or future events.

All references to "\$" in this presentation are to U.S. dollars unless otherwise stated.

Qualified Persons

Except as otherwise set out herein, the scientific and technical information contained in this presentation relating to Çöpler has been reviewed and approved by Robert L. Clifford, BS (Mine Eng), SME Registered Member, and Dr. Cengiz Y. Demirci, AIPG (CPG), each of whom is a qualified person under NI 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101"). Mr. Clifford is the Company's Director, Mine Planning (Turkey, Argentina), and Dr. Demirci is the Company's Vice President, Exploration. The scientific and technical information contained in this presentation relating to Marigold has been reviewed and approved by Greg Gibson and James N. Carver, each of whom is a SME Registered Member and a qualified person under NI 43-101. Mr. Gibson is the Company's Vice President of Operations – Americas and Mr. Carver is the Company's Resource Development Manager, USA. The scientific and technical information contained in this presentation relating to Seabee has been reviewed and approved by Graeme Baker, B. Eng. (Mining), FAusIMM (200051), and Jeffrey Kulas, P.Geo., each of whom is a qualified person under NI 43-101. Mr. Baker is employed by OreWin Pty Ltd as Principal Mining Consultant, and Mr. Kulas is the Company's Resource Development Manager, Canada. The scientific and technical information contained in this presentation relating to Puna has been reviewed and approved by Greg Gibson and Karthik Rathnam, MAusIMM (CP), each of whom is a qualified person under NI 43-101. Mr. Gibson is the Company's Vice President of Operations – Americas, and Mr. Rathnam is the Company's Resource Manager, Corporate.

Cautionary Note Regarding Mineral Reserves and Mineral Resources Estimates

This presentation includes Mineral Reserves and Mineral Resources classification terms that comply with reporting standards in Canada and the Mineral Reserves and the Mineral Resources estimates are made in accordance with NI 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101"). NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. These standards differ significantly from the requirements of the SEC set out in the SEC rules that are applicable to domestic United States reporting companies. Consequently, Mineral Reserves and Mineral Resources information included in this presentation may not be comparable to similar information that would generally be disclosed by domestic U.S. reporting companies subject to the reporting and disclosure requirements of the SEC. Accordingly, information concerning mineral deposits set forth herein may not be comparable with information made public by companies that report in accordance with U.S. standards.

Cautionary Note Regarding Non-GAAP Measures

This presentation includes certain terms or performance measures commonly used in the mining industry that are not defined under International Financial Reporting Standards ("IFRS"), including free cash flow, cash costs and AISC per payable ounce of gold and silver sold, realized metal prices, earnings before interest, taxes, depreciation and amortization ("EBITDA"), adjusted attributable net income, adjusted basic attributable earnings per share, consolidated cash and consolidated net cash. Non-GAAP measures do not have any standardized meaning prescribed under IFRS and, therefore, they may not be comparable to similar measures employed by other companies. The Company believe that, in addition to conventional measures prepared in accordance with IFRS, certain investors use this information to evaluate the Company's performance. The data presented is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. Readers should refer to the endnotes in this presentation for further information regarding how the Company calculates certain of these measures. Readers should also refer to the Company's management's discussion and analysis, available under the Company's corporate profile at www.sedar.com or on the Company's website at www.ssrmining.com, under the heading "Non-GAAP Financial Measures" for a more detailed discussion of how the Company calculates such measures and a reconciliation of certain measures to GAAP terms.

Diversified Portfolio of High Quality, Long-Life Assets

Operations and Projects Across Six Jurisdictions



High Quality Diversified Portfolio

- '21 production guidance: 720 – 800 koz AuEq ⁽¹⁾
- '21 AISC guidance reduced to \$1,000 –\$1,040/oz ⁽¹⁾
- 9+ Moz AuEq Mineral Reserves ⁽²⁾
- 21+ year cornerstone asset life ⁽³⁾

Balance Sheet Strength

- **Consolidated Cash: \$900M** ⁽⁸⁾
- Consolidated Debt: \$389M ⁽⁸⁾
- Ability to fund organic growth

Free Cash Flow Leader

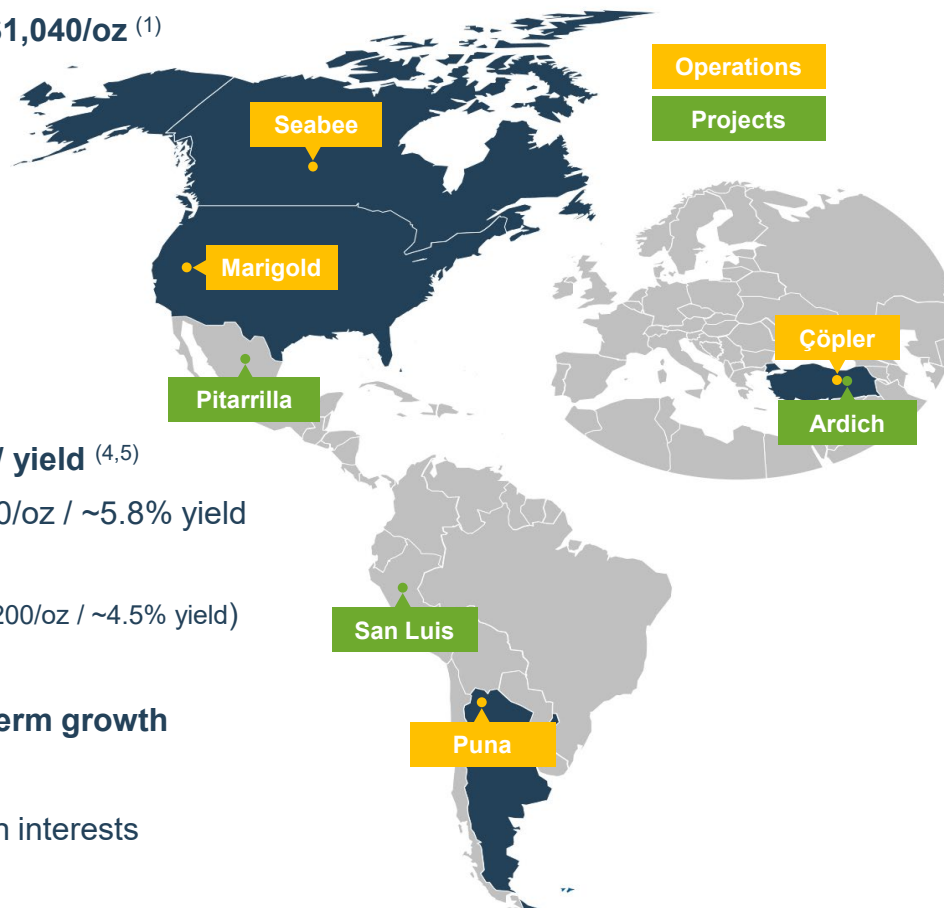
- **Peer leading free cash flow generation / yield** ^(4,5)
- Two-tiered capital return policy up to ~\$260/oz / ~5.8% yield
 - Base dividend: US\$44M (~\$60/oz / ~1.3% yield)
 - Share buyback program of up to ~US\$150M (~\$200/oz / ~4.5% yield)

Organic Growth Potential

- **High return, low capital intensity near-term growth**
- ~27 Moz AuEq M&I Mineral Resources ⁽²⁾
- 20+ near-mine and stand-alone exploration interests

Experienced Leadership

- **Continued operational delivery**
- Track record of value creation and building assets
- Diverse mining and processing skill set



- 3 Operating Gold Assets: Çöpler, Marigold & Seabee
- 1 Operating Silver Asset: Puna
- 3 Projects: Ardich, Pitarrilla & San Luis
- 20+ Near-Mine and Stand-Alone Exploration Properties
- 5 Public Company Equity Interests

Developing a Sustainable Legacy

Creating Value Through Responsible and Sustainable Operations ⁽⁹⁾



Establishing strong governance and transparency



Updated suite of sustainability policies adopted, aligned with **leading industry practices**

Amalgamation of best practices from across our business to develop an **Integrated Environment, Health, Safety and Sustainability ("EHSS")** management system

Creating positive legacies in communities



Focus on **Community Investments**

Maintained strong **local employment** at all operations

Strengthened community support during COVID-19

Lasting environmental stewardship



Building a science-based action plan to **net zero GHG emissions by 2050**

Independent tailings review board at all sites, reinforcing industry best practices

Zero
Significant environmental incidents

Safe, healthy and competent workforce



Zero
Fatalities

Improved
Total Recordable Injury Frequency Rate

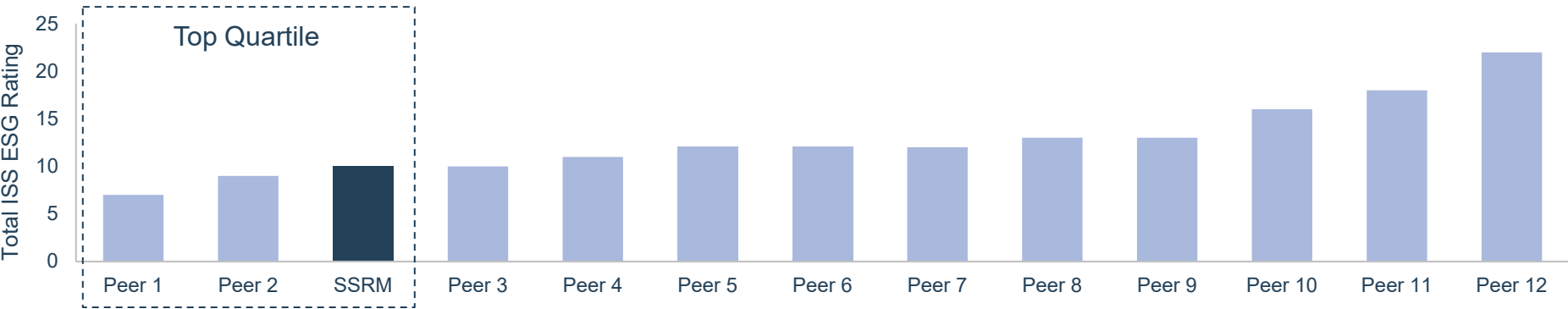
Commitment to culture with implementation of updated company **Values and Aspirations**

ESG: A Core Value

Continuous Improvement in ESG Practices

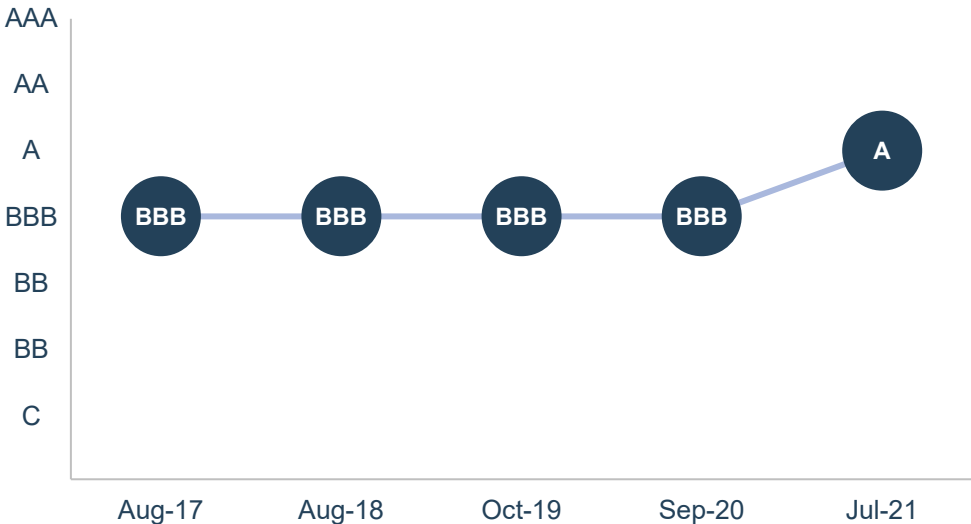


ISS Ranks SSR Mining in the Top Quartile of the Mid-Cap Peer Group on ESG Metrics

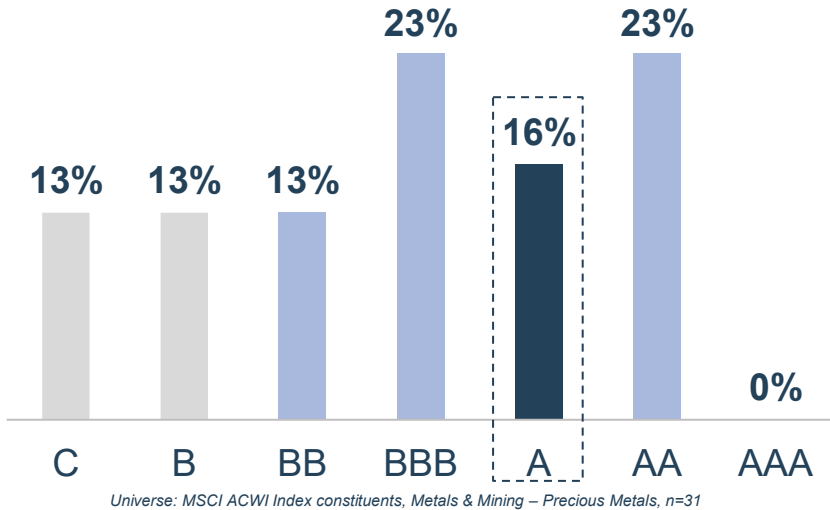


MSCI Upgrades SSR Mining ESG Ranking to an 'A' Rating

ESG Rating History



ESG Rating Distribution



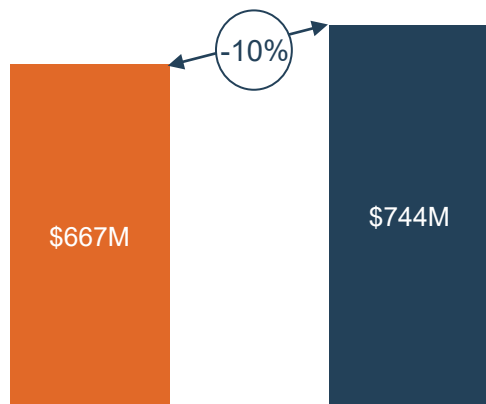
Continuing to Build on Proven History of Mine Building And M&A

Recent Sale of Royalty Portfolio for US\$100M Total Consideration



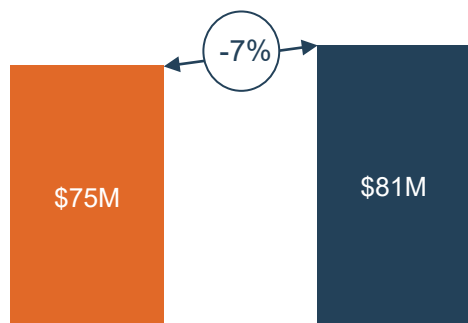
Delivering Projects On Time & Budget ⁽¹⁶⁾

POX Plant (Çöpler)



Final Capex Spend Initial Capex Budget

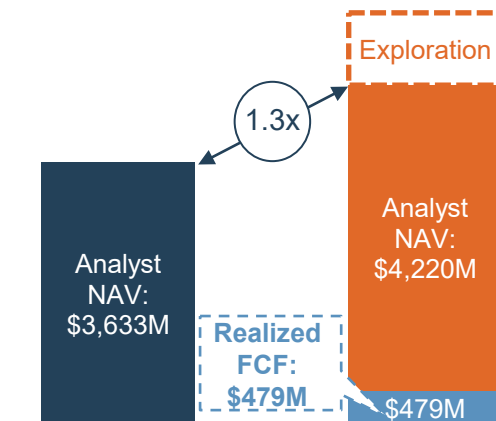
Chinchillas Project (Puna)



Final Capex Spend Initial Capex Budget

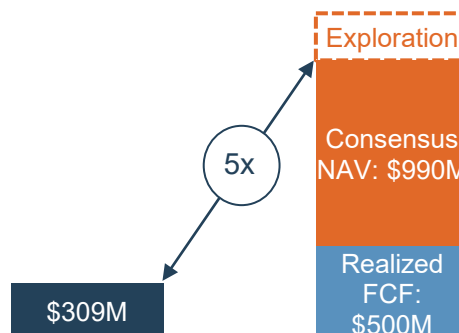
Building Value Through Disciplined M&A ⁽¹⁷⁾

SSRM / Alacer Merger



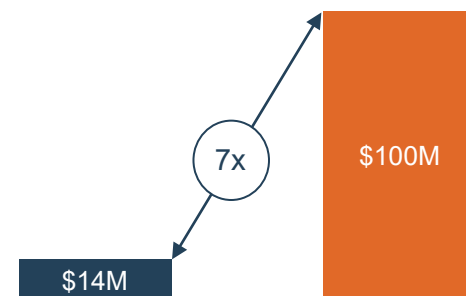
At Announcement Current

Marigold Acquisition



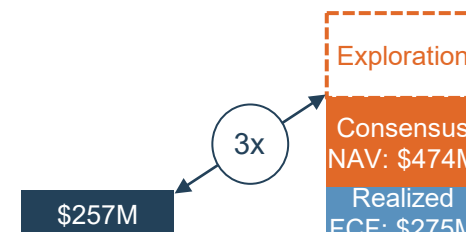
Announced Value Current

Royalty Portfolio Sale



Analyst NAV Announced Value

Seabee Acquisition



Announced Value Current

Strong Operational Performance Drives AISC Guidance Reduction

Operational Delivery, FCF Generation, Capital returns and Growth



Priorities

Corporate

- Operational excellence and free cash flow generation ✓
- Continued improvements in health & safety across the portfolio ✓
- Deliver peer-leading capital returns targeting +5% yield ✓
- Issue inaugural 3-year guidance

Çöpler

- Flotation circuit construction ✓
- Flotation circuit commissioning & ramp up
- Ardich drilling to support updated CDMF ✓
- C2 exploration and technical evaluation ✓

Marigold

- Ongoing cost reduction and continuous improvement initiatives ✓
- Oxide exploration targeting higher grades and conversion at Mackay, Valmy, New Millennium, Trenton Canyon and Buffalo Valley ✓
- Longer-term sulfide exploration and evaluation

Seabee

- Increase mining rates to exploit latent mill capacity ✓
- Resource & reserve conversion at both Gap HW and Santoy HW
- Additional exploration at Joker target and Fisher property ✓

Puna

- Targeting increased throughput of 4,500 tonnes per day ✓
- Integration of owner-operated ore transport fleet completed ✓

Assets

2021 Production Guidance ⁽¹⁾

| | | |
|---------------------|-----------------|------------------|
| Çöpler | Au koz | 310 – 340 |
| Marigold | Au koz | 235 – 265 |
| Seabee | Au koz | 95 – 105 |
| Puna | Ag Moz | 6.0 – 7.0 |
| Consolidated | AuEq koz | 720 – 800 |

2021 AISC Guidance ^(1,10)

| | | |
|----------------------------------|-------------------|--------------------------|
| Original Consolidated AISC | \$/AuEq oz | \$1,050 - \$1,110 |
| Revised Consolidated AISC | \$/AuEq oz | \$1,000 - \$1,040 |

✓ Achieved YTD

Q3 2021 Highlights

Cost Guidance Improved as Operational Outperformance Continues



Operational

Tracking Well Against 2021 Production Guidance, Cost Guidance Lowered

- Q3 consolidated production of 187 koz AuEq at AISC of \$1,006 / oz AuEq
- Year-to-date production of 583 koz AuEq at AISC of \$990 /oz AuEq
- AISC lowered to \$1,000 - \$1,040 /oz AuEq while 2021 production guidance remains unchanged
- Record operational milestones at Çöpler, Marigold, Seabee and Puna

Financial

Peer-Leading Capital Returns Program with US\$181M* Returned Year-To-Date (~US\$240/oz)

- Q3 cash flow from operations of \$188M and free cash flow of \$129M ⁽⁵⁾
- Year-to-date free cash flow of \$306M, or ~\$400/oz (9% FCF yield) ⁽⁵⁾
- Consolidated cash of \$900M ⁽⁸⁾ and consolidated debt of \$389M ⁽⁸⁾

Growth

Continued Advancement of Development and Exploration Projects

- Ardich step-out / infill drilling continues to support resource expansion and conversion for 2022 update
- Near-mine drill campaigns at Seabee present potential for reserve and resource growth
- Updates expected at Marigold, Amisk, and Copper Hill by year-end

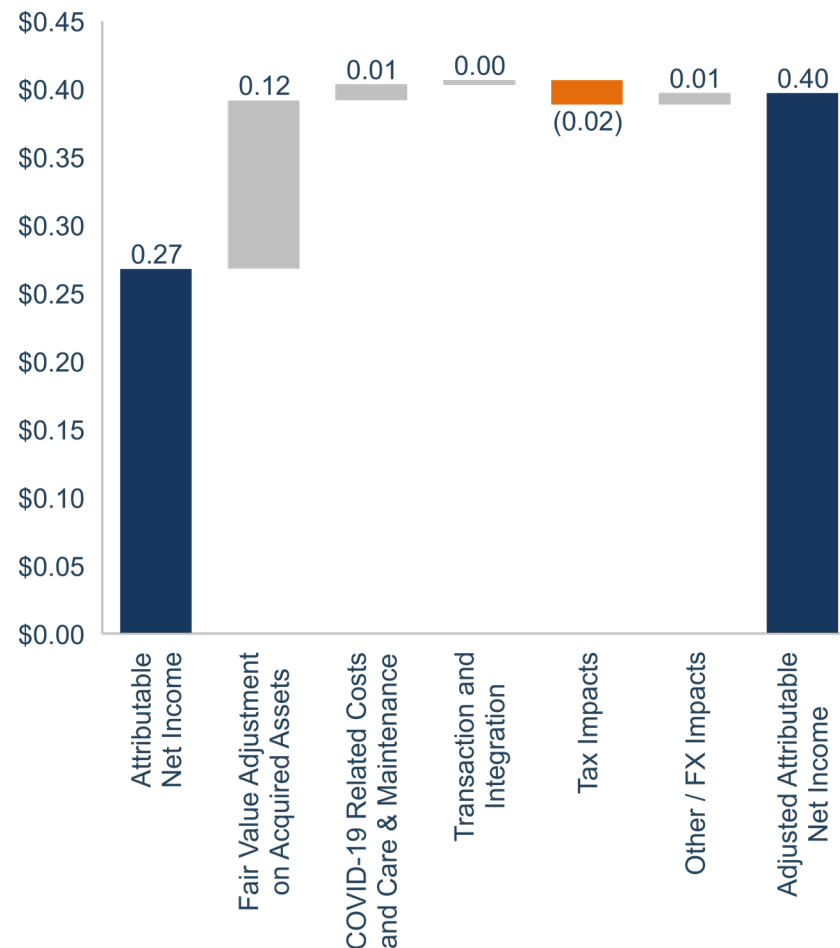
Continued Strong Quarterly Financial Results



Financial Highlights ⁽¹⁵⁾

| | Units | Q3 2021 | Q2 2021 |
|---|------------|----------------|----------------|
| Gold Equivalent Production | oz | 186,941 | 199,673 |
| Gold Sales | oz | 156,388 | 173,620 |
| Silver Sales | Moz | 1.6 | 2.0 |
| Total Gold Equivalent Sales | oz | 176,299 | 201,504 |
| Revenue | \$M | \$322.8 | \$377.0 |
| Income from Mine Operations | \$M | \$122.3 | \$154.9 |
| Net Income | \$M | \$62.5 | \$51.6 |
| Attributable Net Income | \$M | \$57.2 | \$54.0 |
| Basic Attributable Earnings per share | \$ | \$0.27 | \$0.25 |
| Adjusted Attributable Net Income ⁽¹⁴⁾ | \$M | \$84.8 | \$101.0 |
| Adjusted Basic Attributable Earnings per share ⁽¹⁴⁾ | \$ | \$0.40 | \$0.46 |
| Cash Generated by Operating Activities | \$M | \$187.9 | \$148.6 |
| Consolidated Cash ⁽⁸⁾ | \$M | \$899.7 | \$908.0 |
| Share Repurchases | \$M | \$77.8 | \$70.3 |

EPS Bridge



Significant Financial Strength

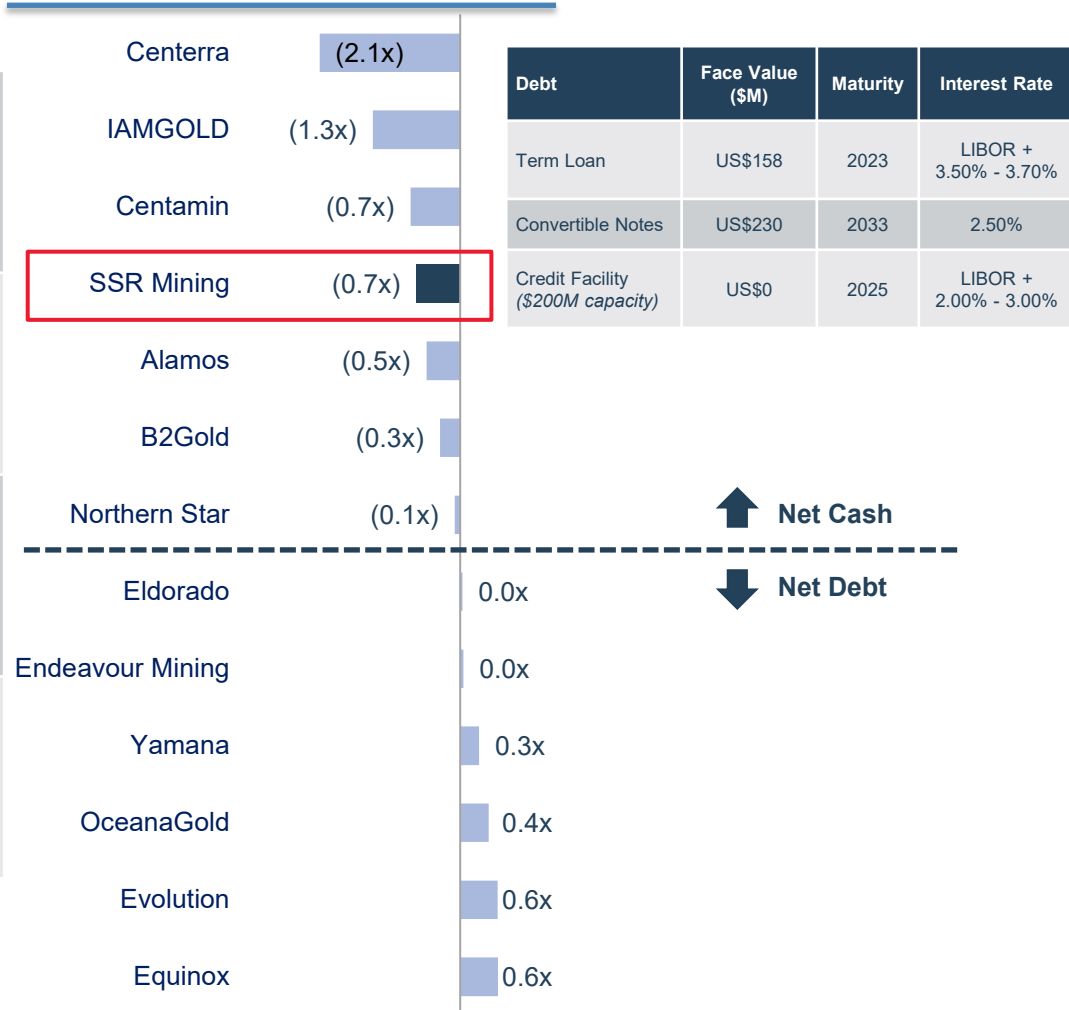
Robust Balance Sheet and Credit Metrics



~\$900M of Consolidated Cash, 95% Held in USD ⁽⁸⁾

Net Debt to 2021E EBITDA ⁽¹²⁾

| | |
|---|---------|
| Market Capitalization ⁽¹¹⁾ | ~\$3.3B |
| Consolidated Debt ⁽⁸⁾ | \$389M |
| Consolidated Cash ⁽⁸⁾ | \$900M |
| Net Debt to '21 Consensus EBITDA ⁽¹²⁾ | (0.7x) |



Free Cash Flow Leader

Aligning Peer Leading Free Cash Flow Yield with Capital Returns Yield



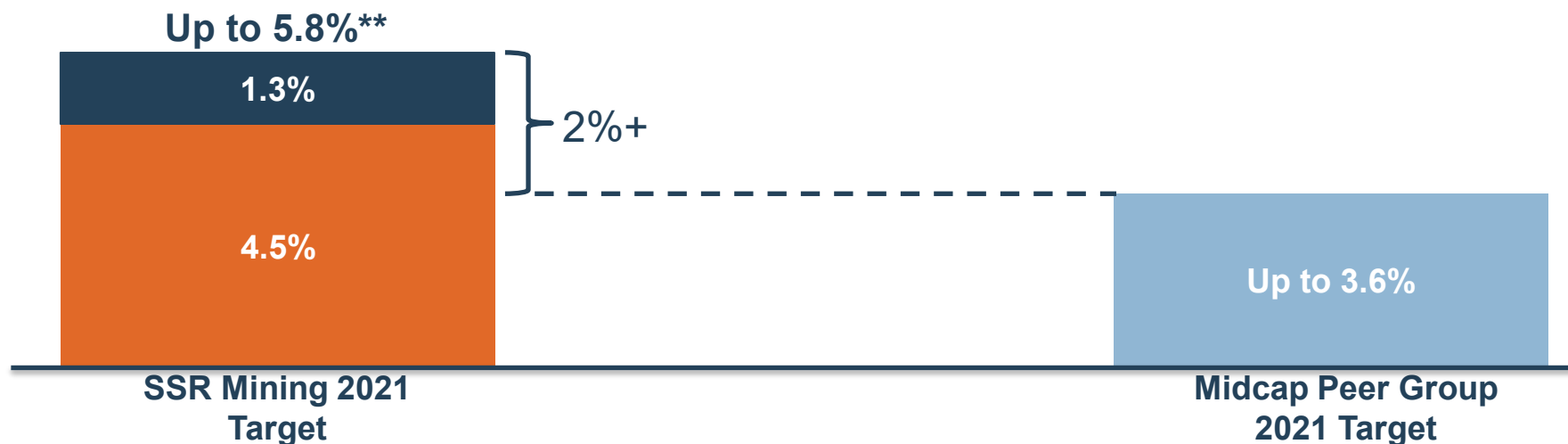
2021E Consensus Free Cash Flow Yield ^(4,5)

% | Consensus Free Cash Flow (100% basis) / Market Capitalization



2021E Capital Return Yield

% | Consensus Capital Returns (100% basis) / Market Capitalization



SSR Mining Transitioning to U.S. GAAP Reporting

Conversion to SEC Issuer Should Provide Additional Access to US Investors



Timing & Requirements

Changes Effective As Of January 1, 2022

- SSR Mining will report its full-year 2021 financial results under U.S. GAAP requirements
 - 10-K Annual Report will be filed within first 60 days of 2021, along with restated 2019 and 2020 financial results
- Technical reports will be under SK 1300 requirements, as opposed to current NI 43-101 reports
 - While SK 1300 reports at Marigold, Seabee & Puna will be released in Q1/22, updated “Master Plan” SK 1300 reports for each asset will be released later in 2022

Opportunities & Changes

Transition Expected To Improve Access To U.S. Capital Markets

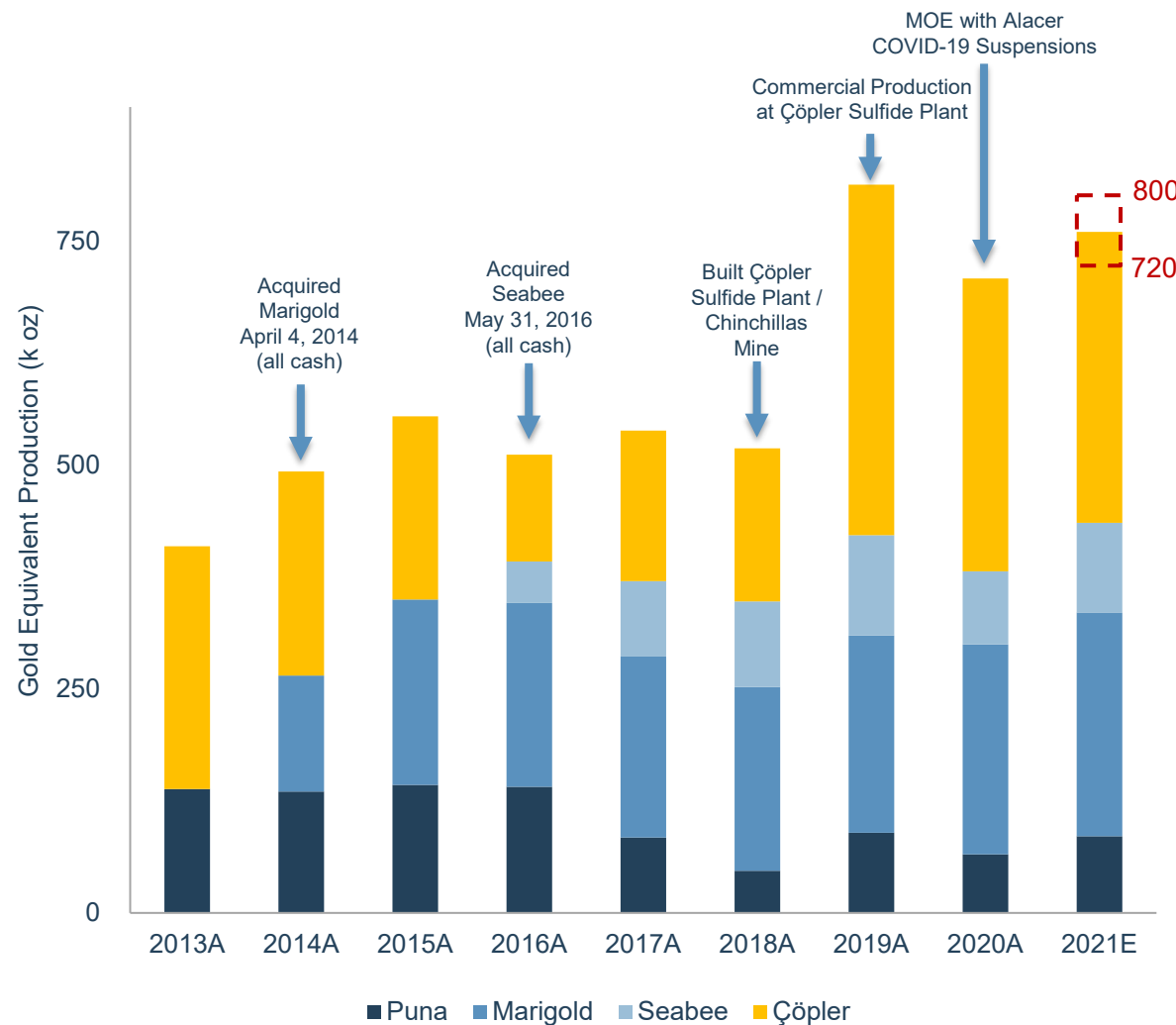
- Previous Foreign Private Issuer (FPI) status impacted some U.S. investors’ ability to own SSRM
- Changes between SK 1300 and NI 43-101 disclosures and reporting expected to be largely non-material and limited in scope
- U.S. GAAP requirements will require classification of capitalized stripping as a production cost rather than capital expense, among other accounting changes
- Full review and gap analysis underway and updates will be communicated to the market as required

Track Record of Delivery

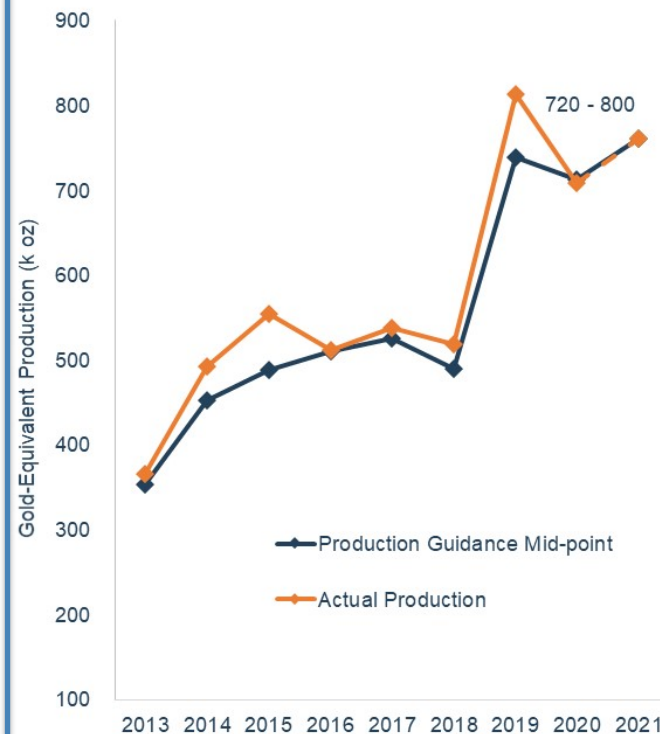
On-track to Meet Guidance, Three-year Guidance Expected In Early 2022



Production Growth ⁽⁶⁾



Continuing To Deliver Against Production Guidance ^(6,7)



Çöpler: Long Life, Low Cost Operation

| | | |
|-------------------------|------------------------------------|-------------------------|
| Location: Turkey | Stage: Production | Ownership: 80% |
| Mining: Open pit | Processing: Heap leach, POX | Land: ~27,000 ha |

Q3 2021 Highlights

- Gold production of 83 koz at \$714/oz AISC
- 67 koz from the sulfide plant and 16 koz from the oxide plant
- Record tonnes processed through sulfide plant in Q3
- Flotation plant construction completed; EIA Approved subsequent to quarter's end. Commissioning expected by end-2021 following receipt of operating permits at provincial level
- Ardich step-out / infill drilling continues to support resource expansion and conversion

2021 Priorities

- Flotation plant ramp-up
- Ardich exploration and concurrent development towards 2023 production
- C2 exploration and advancement, focusing on expandable development plan
- Regional exploration initiatives across the Çöpler district

POX Plant



| | Q3 2021 Actual | YTD 2021 Actual |
|--|----------------|-----------------|
| Gold Production (koz) | 83 | 237 |
| Mine-site AISC (\$/oz) ⁽¹⁰⁾ | \$714 | \$759 |

Marigold: Large-Scale Open Pit in Nevada

Location: Nevada, USA **Stage:** Production **Ownership:** 100%
Mining: Open pit **Processing:** ROM, heap leach **Land:** ~20,000 ha

Q3 2021 Highlights

- Gold production of 52 koz at \$1,307/oz AISC
- Third consecutive quarterly record material movement of 25.4 million tonnes
- Increased material movement due to shorter haulage cycles, coupled with stronger haul truck utilization and increased loading fleet capacities
- Production impacted by unplanned maintenance in the stripping circuit, gold expected to be recovered in Q4 inventory
- Dewatering infrastructure progressing as planned

2021 Priorities

- Ongoing cost reduction and continuous improvement initiatives
- Oxide exploration targeting higher grade and conversion at Mackay, Valmy, New Millennium, Trenton Canyon and Buffalo Valley
- Exploration and development planning at Trenton Canyon and Buffalo Valley

Marigold Rope Shovel



| | Q3 2021 Actual | YTD 2021 Actual |
|--|-------------------|--------------------|
| Gold Production (koz) | 52 | 178 |
| Mine-site AISC (\$/oz) ⁽¹⁰⁾ | \$1,307 | \$1,251 |

Seabee: High-Grade Underground in Canada

Location: Saskatchewan, Canada **Stage:** Production **Ownership:** 100%
Mining: Underground **Processing:** Gravity concentration, cyanide leaching **Land:** ~60,000 ha (including joint venture)

Q3 2021 Highlights

- Quarterly gold production of 23 koz at \$898/oz AISC
- Mill feed grade of 7.7 g/t in line with budget
- Quarterly mill throughput averaged ~1,000 tpd despite scheduled maintenance in July, mill averaged a record ~1,400tpd in September
- Positive exploration results across Seabee and Fisher properties continue to point to longer-term mine life extension
- Development of underground infrastructure at GHW progressing
- Site upgrades continued through the quarter, including completion of truck shop expansion

2021 Priorities

- Increase mining rates to exploit latent mill capacity
- Gap HW Mineral Resource conversion
- Advance Santoy Hanging Wall near mine exploration target
- Accelerate Seabee and Fisher exploration and resource development
- TMF expansion

Seabee Mill



| | Q3 2021 Actual | YTD 2021 Actual |
|--|----------------|-----------------|
| Gold Production (koz) | 23 | 83 |
| Mine-site AISC (\$/oz) ⁽¹⁰⁾ | \$898 | \$823 |

Puna: Large Silver Producer

Location: Argentina

Stage: Production

Ownership: 100%

Mining: Open pit

Processing: Flotation

Land: ~10,000 ha

Q3 2021 Highlights

- Silver production of 2.2 Moz Ag at AISC of \$12.32/ oz
- No reportable safety incidents in the quarter
- Quarterly mill throughput averaged 4,585 tpd, demonstrating continued delivery of target throughputs at >4,500tpd
- Successfully managed COVID-19 risks and avoided any operational shutdowns during the quarter
- Faster than expected transition to owner/operator fleet continues to drive lower costs and improved equipment availability

2021 Priorities

- Continue steady state production with focus on increasing productivity
- Maintain mill throughput rates at or above 4,500 tonnes per day
- Focus on cost reduction
- Continue to manage COVID-19 risks

Chinchillas Mine



| | Q3 2021 Actual | YTD 2021 Actual |
|--|-------------------|--------------------|
| Silver Production (Moz) | 2.2 | 6.0 |
| Mine-site AISC (\$/oz) ⁽¹⁰⁾ | \$12.32 | \$13.38 |

Robust Exploration and Growth Pipeline

Releases From Marigold, Amisk & Copper Hill Expected in Q4



Near Mine Targets To Sustain And Grow From 700 – 800koz AuEq For At Least 10+ Years

Çöpler District (+325koz ¹³)

Ardich/Çakmaktepe

Cöpler In-Pit/Saddle

C2 Copper-Gold

Marigold (+250koz ¹³)

Mackay

Valmy

New Millennium

Seabee (+100koz ¹³)

Santoy Gap HW

Santoy HW

Santoy FW

Puna (+6.5Mozpa ¹³)

Chinchillas

Regional

Growth Targets Provide Step Change Upside

Turkish Exploration

Copper Hill

Cöpler District

Turkey Regional

Marigold

Trenton Canyon
Oxides

Trenton Canyon
Sulfides

Buffalo Valley

Seabee

Joker/Batman

Fisher

Regional/Amisk

Global

Pitarrilla

San Luis

Sunrise Lake

Appendix

Executive Team and Board of Directors

Depth of Experience and Track Record of Delivery



Executive Team



Rodney Antal
President, Chief
Executive Officer



Stewart Beckman
EVP, Chief
Operating Officer



F. Edward Farid
EVP, Chief Corporate
Development Officer



Michael Sparks
EVP, Chief Legal &
Administrative Officer



Alison White
EVP, Chief
Financial Officer

Board of Directors



Michael Anglin
Chairman



Rodney Antal
President, Chief
Executive Officer



Thomas Bates
Director



Brian Booth
Director



Edward Dowling
Director



Simon Fish
Director



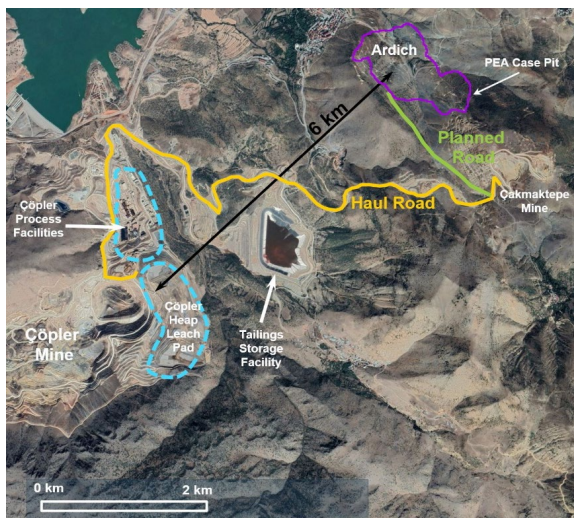
Alan Krusi
Director



Kay Priestly
Director

Focus On Near-mine Upside

Showcasing Longer-term Future Across Portfolio



Çöpler

- Updated Çöpler District Master Plan (CDMP22) Technical Report due H1/22
- New drilling & maiden Ardich Mineral Reserve Statement
- Benefits from the now-constructed flotation plant
- Potential PEA study for C2 Copper-Gold processing upgrade



Marigold

- New Marigold District Master Plan Technical Report expected 2022
- Incorporates expanded land position south of mine footprint (Buffalo Valley, Trenton Canyon, New Millennium)
- Review options for supplemental new processing facilities to reduce costs and enable Buffalo Valley and Trenton Canyon

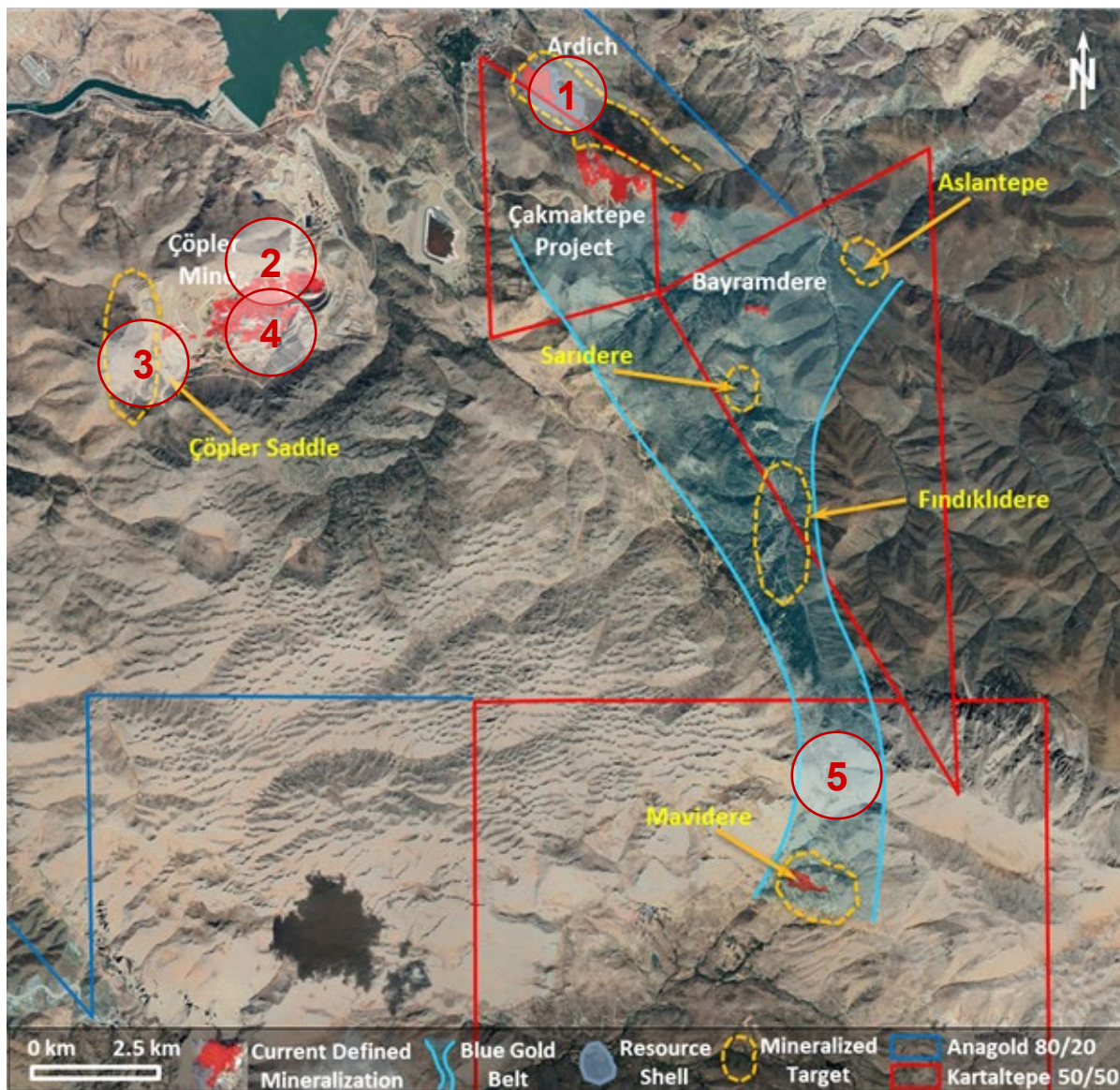


Seabee

- New Seabee District Master Plan Technical Report expected 2022
- Reserve status for Gap Hanging Wall and Resource for Santoy Hanging Wall
- Underutilized mill provides a low-cost expansion pathway
- Completion of TSF expansion provides capacity to 2031
- Productivity improvements lowering unit costs and cutoffs

Çöpler District Growth Pipeline

\$33M Budget Focused on Conversion, Additions and Discovery



- 1 Ardich
- 2 Çöpler In-Pit
- 3 Çöpler Saddle
- 4 C2 Copper-Gold
- 5 Mavialtin
- 6 Turkey Regional

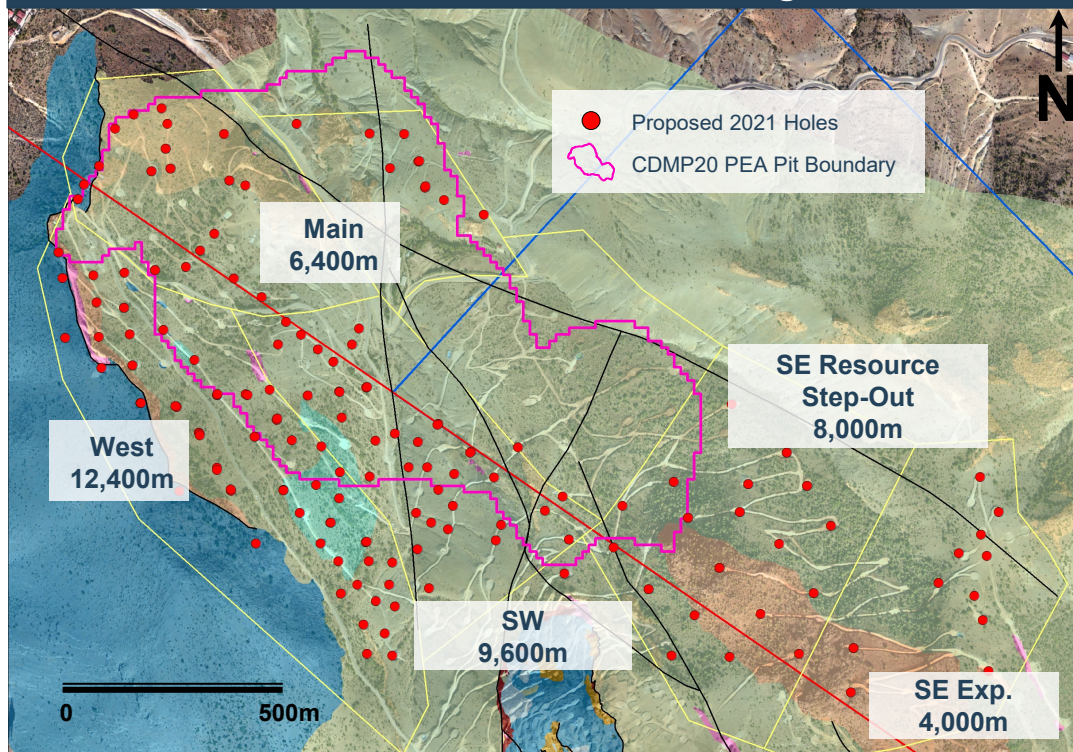
Ardich: Targeting Upside to PEA Case⁽¹⁸⁾

Strong Potential for Conversion and Resource Growth

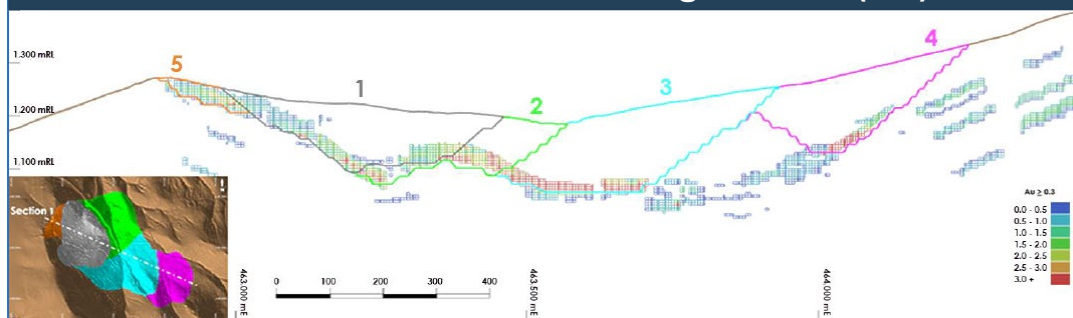
Overview

- Ardich located ~6 km from Çöpler
- 2020 Mineral Resource and PEA case included 314 holes as of February 2020
 - 0.9Moz M&I oxide Mineral Resources
 - 0.25Moz Inferred
 - 0.3Moz M&I sulfide Mineral Resources
 - 0.1Moz Inferred
- Exploration continuing to build on PEA results
 - 86,898m drilled to-date (+425 total holes)
- Highlight step-out intercepts (August 18, 2021) include:
 - 7.48 g/t Au over 40.7 m
 - 4.18 g/t Au over 24.5 m
 - 3.68 g/t Au over 54.0 m
- Aiming for maiden reserve statement and additional resource growth in 2022
- Forecast production of 1.1Moz over 11-years, beginning 2023, \$50M development capex in PEA

Ardich 2021 Planned Drilling



Ardich PEA Pit Phases – Long Section (NE)

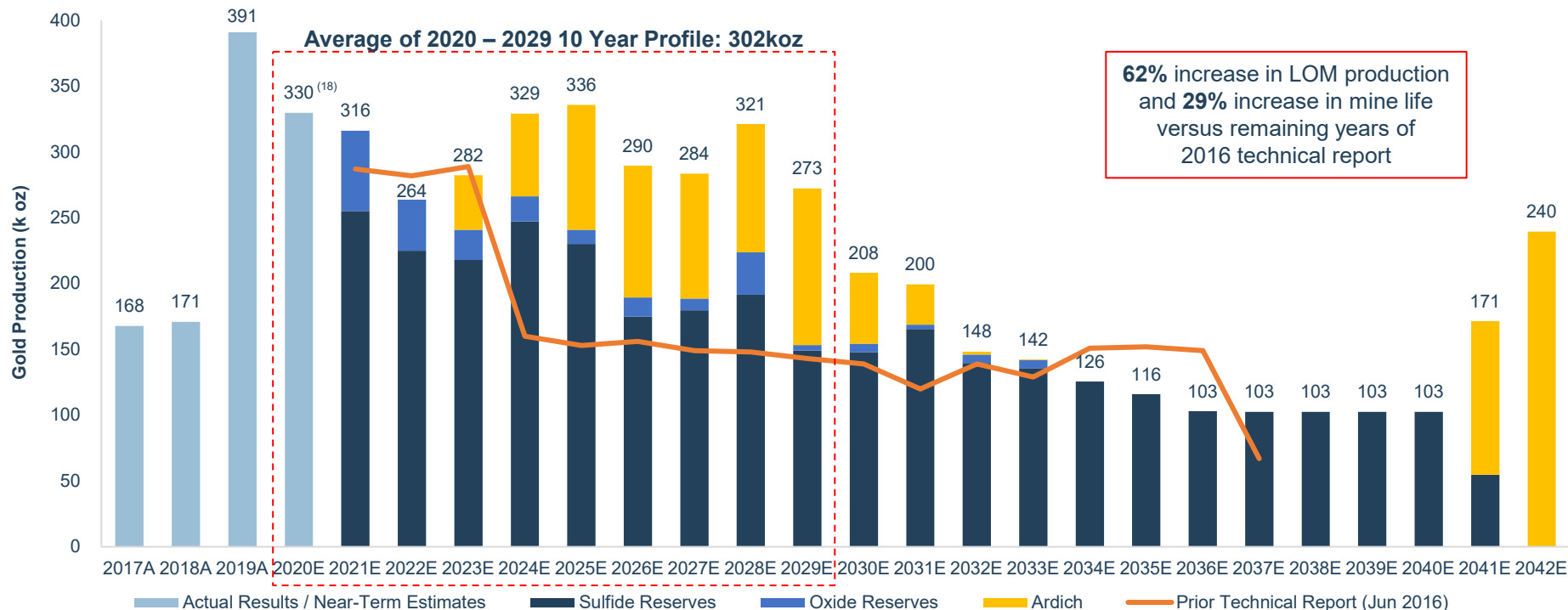


CDMP20: Alternate PEA Case Potential Increased Production

'Tier 1' Operation with Additional Upside



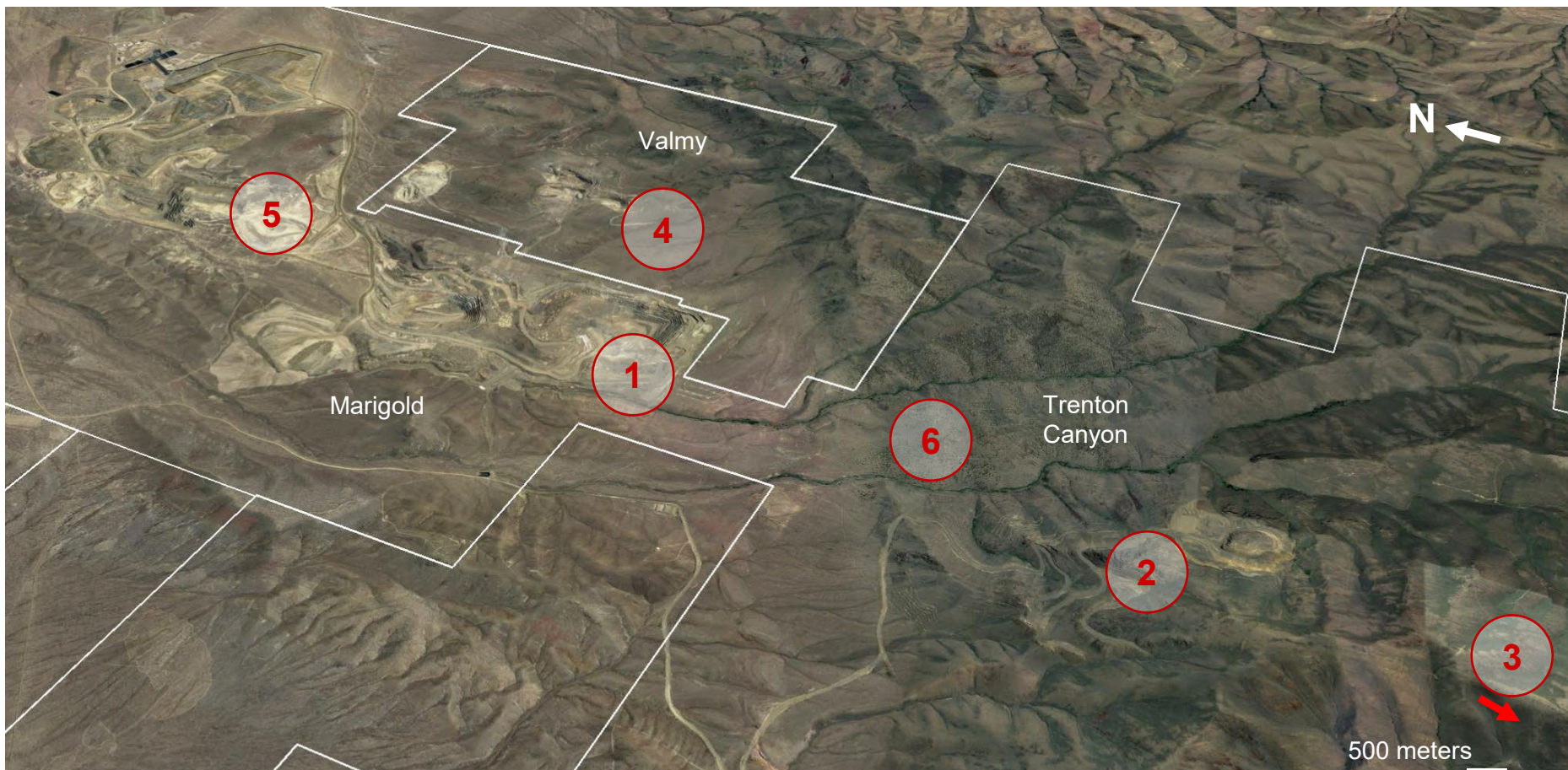
PEA Case Life of Mine Production Summary (3,18)



| | Units | 2021 - 2025 | 2021 - 2030 | Life of Mine |
|----------------------------------|------------|-------------|-------------|--------------|
| Average Annual Production | Au koz | 306 | 290 | 211 |
| Total Production | Au koz | 1,528 | 2,903 | 4,646 |
| Production Costs ⁽¹⁹⁾ | \$ / Au oz | \$701 | \$745 | \$726 |
| AISC ⁽²⁰⁾ | \$ / Au oz | \$886 | \$917 | \$893 |
| Average Annual Free Cash Flow | \$M | \$249 | \$207 | \$138 |
| Total Free Cash Flow | \$M | \$1,244 | \$2,069 | \$3,033 |

Marigold Growth Pipeline

+70,000 Meters of Drilling Planned in 2021



1 New Millennium

2 Trenton Canyon

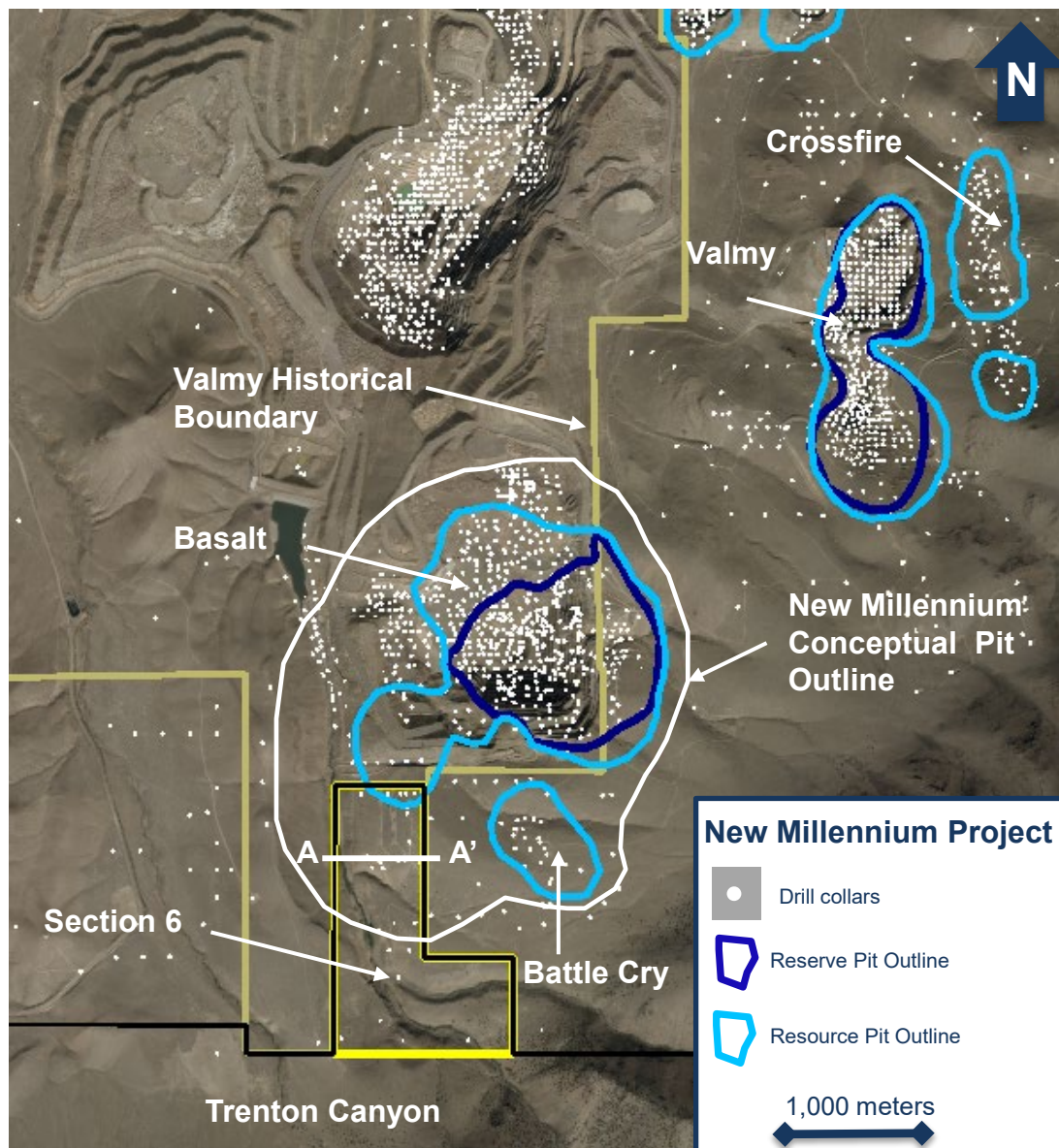
3 Buffalo Valley

4 Valmy

5 Mackay Pit

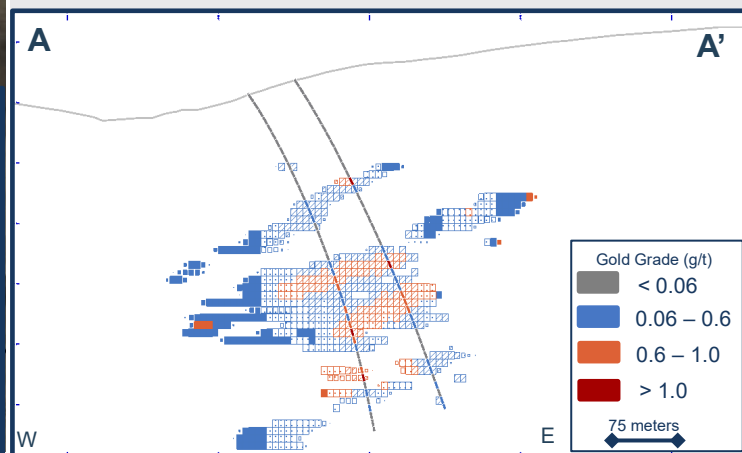
6 Deep Sulfide

Marigold: Barriers Removed, New Millennium Concept Provides Resource Upside with Higher Grade Potential



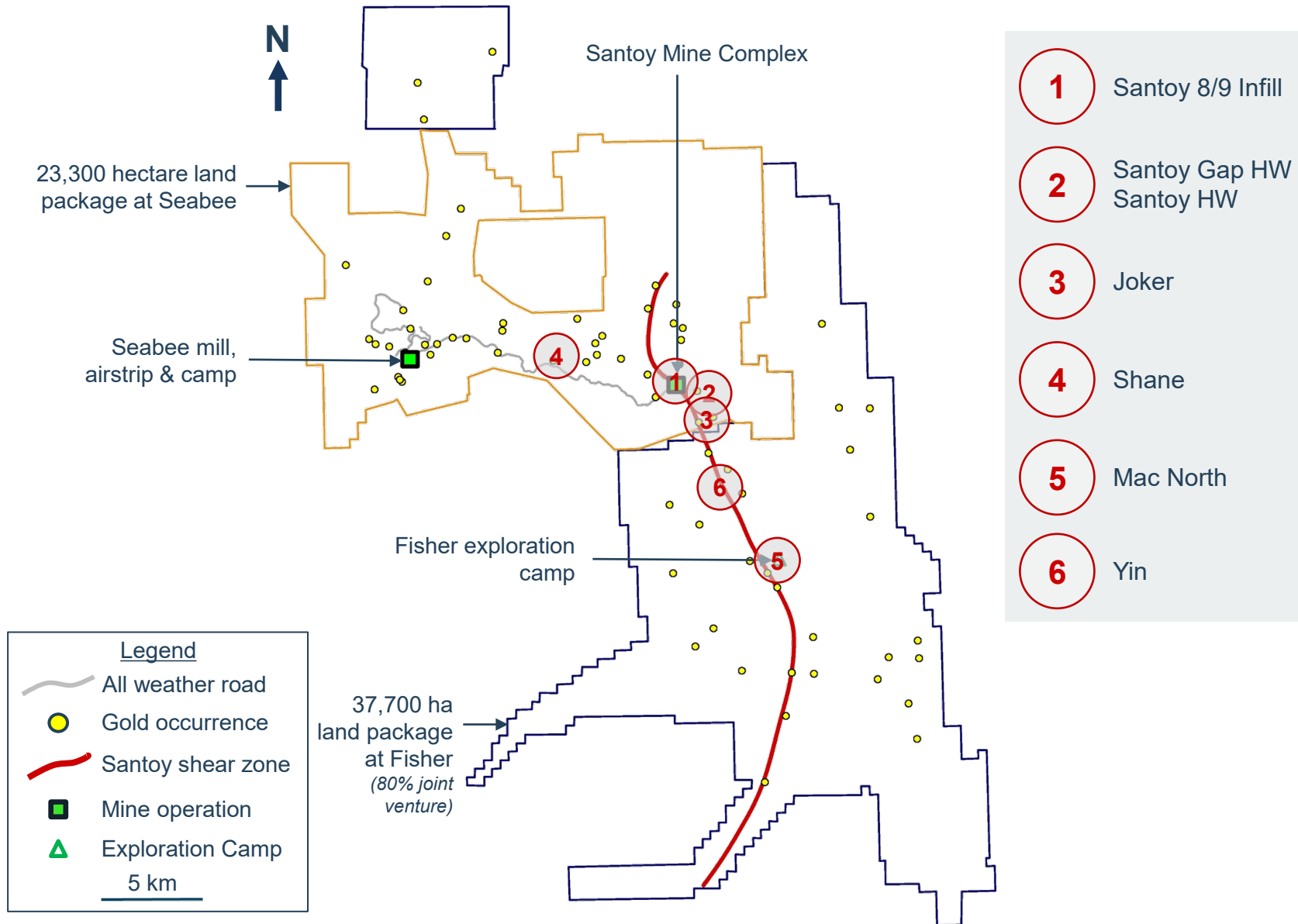
New Millennium

- Concept uncovered with recent property purchases Valmy and Section 6
- Basalt and Antler pits historically mined ~1Moz at 0.75 g/t Au
- Basalt current Mineral Resources 0.5Moz at 0.67 g/t Au (EOY 2019)
- Basalt pit historically constrained to the east by Valmy boundary
- ~30,000 meters drilling planned for 2021
- Potential for synergies with Trenton Canyon oxides



Seabee Growth Pipeline

Testing +30km of Shear Zone Strike Length



- 1 Santoy 8/9 Infill
- 2 Santoy Gap HW
Santoy HW
- 3 Joker
- 4 Shane
- 5 Mac North
- 6 Yin

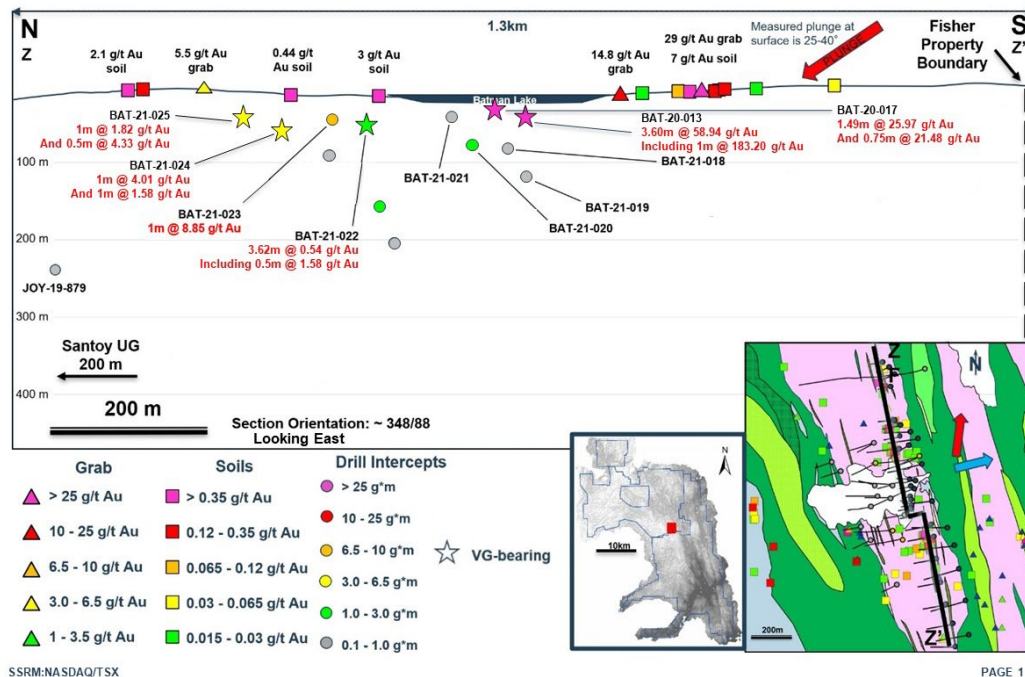
Exploration Program Yielding Positive Results

Gap Hanging Wall Reserves Expected in 2022

Overview

- 2021 drilling focused on brownfields development targets across Seabee and Fisher properties
- Gap Hanging Wall (GHW)** hosts potential as Seabee's next extension
 - Drilling aiming to delineate Mineral Reserves at GHW in early 2022
 - Highlight intercepts include:
 - 19.16 g/t over 6.98 m**
 - 12.14 g/t over 9.47 m**
- Santoy Hanging Wall (SHW)** presents another potential future development
 - Current drilling targeting first Mineral Resources in 2022
 - Highlight intercepts include:
 - 12.75 g/t over 2.83 m**
 - 16.31 g/t over 3.56 m**
- The **Joker** target offers potential to extend the Santoy mine beyond GHW and SHW mineralization by up to 1km
 - Highlight intercept of **25.97 g/t over 1.49 m**
- Exploration also continuing at **Fisher**, located immediately south of the Seabee property
 - Mac North target returned **22.99 g/t over 1.46 m**

Highlight Intercepts At Seabee's Joker Target



Selected Intercepts From Fisher Gold Property

| Hole ID | From (m) | To (m) | Gold (g/t) | Interval (m) | EOH Depth (m) | Zone |
|------------|----------|--------|------------|--------------|---------------|----------|
| FIS-20-051 | 170.09 | 170.59 | 18.70 | 0.50 | 225.00 | Mac N HW |
| FIS-20-053 | 253.63 | 255.55 | 10.26 | 1.92 | 462.00 | Mac N |
| Including | 255.05 | 255.55 | 31.82 | 0.50 | 462.00 | Mac N |
| FIS-20-061 | 613.00 | 614.00 | 10.37 | 1.00 | 761.00 | Mac N |
| FIS-21-065 | 348.47 | 349.93 | 22.99 | 1.46 | 412.97 | Mac N |
| YIN-20-002 | 87.00 | 89.50 | 10.03 | 2.50 | 159.00 | Yin |

1. Please see our news release dated January 19, 2021, and subsequent guidance update in the press release dated November 3, 2021. Gold equivalent production and AISC are based on a 76:1 gold to silver ratio. AISC is a non-GAAP financial measure. See "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
2. Mineral Reserves and Mineral Resources for Çöpler, Marigold, Seabee, Puna, San Luis, Pitarrilla, and Amisk as at December 31, 2020. Mineral Reserves and Mineral Resources are shown on a 100% basis. Mineral Resources are stated inclusive of Mineral Reserves. For details see our news release dated March 30, 2021.
3. These statements and estimates are extracted from, or based on, the Çöpler District Master Plan 2020 Technical Report, dated November 30, 2020.
4. Based on the aggregate of the "street" consolidated consensus estimates for 2021 for SSR Mining sourced from Capital IQ research estimates as at October 29, 2021. Peer group estimates sourced from Capital IQ. Estimates are intended to provide an "order of magnitude" indication for illustrative and comparison purposes only, and are not intended to be, and should not be treated as, a forecast, estimate or guidance made, adopted, confirmed or endorsed by SSR Mining.
5. Free cash flow is a non-GAAP financial measure. Free cash flow per gold equivalent ounce is defined as operating cash flow less capex divided by gold equivalent production. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
6. Production is reported on a consolidated basis and is a combination of historical SSR Mining and Alacer Gold production figures. Gold equivalent ounces have been established using realized metals prices from 2013-2020 in the respective years. Realized metal prices is a non GAAP financial measure. Please see "Cautionary Note Regarding Non GAAP Measures" in this presentation
7. Compares actual reported gold-equivalent production against the mid-point of annual guidance. 2020 guidance reflects the revised guidance issued September 18, 2020. Projected production is based on the mid-point of 2021 guidance.
8. Consolidated cash balance, a non-GAAP financial measure, as at September 30, 2021. SSR Mining's consolidated cash included attributable cash held by joint ventures of \$1.6 million and restricted cash of \$35 million as at September 30, 2021. Consolidated debt is the sum of the short term and long-term portion of finance facility totaling \$158 million, the face value of 2019 convertible notes of \$230 million, and \$1.7 million in Other Debt, as disclosed in SSR Mining's unaudited condensed consolidated financial statements as at September 30, 2021. See "Cautionary Note Regarding Non-GAAP Measures" in this presentation. The 2019 convertible notes bear interest at 2.50% payable semi-annually and are convertible by holders into the Company's common shares, based on an initial conversion rate of 54.1082 common shares per \$1,000 principal amount. On or after April 1, 2023 the Company may redeem all or part of the notes for cash, but only if the last reported sale price of the Company's common shares exceeds 130% of the conversion price. On or after April 1, 2026, the Company may redeem the 2019 Notes, in whole or in part, for cash equal to 100% of the 2019 Notes to be redeemed, plus accrued and unpaid interest, if any, to, but excluding, the redemption date. Holders may require the Company to purchase all or a portion of their 2019 Notes on each of April 1, 2026, April 1, 2029, and April 1, 2034 for cash at a purchase price equal to 100% of the principal amount of the 2019 Notes to be purchased, plus accrued and unpaid interest, if any, to, but excluding, the purchase date.
9. Based on the SSR Mining 2020 sustainability report.
10. AISC per payable ounce of gold and silver sold are non-GAAP financial measures. See "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
11. Market capitalization as of October 29, 2021.
12. Based on the aggregate of the "street" consensus estimates; Capital IQ as at October 29, 2021. Consensus estimates are intended to provide an "order of magnitude" indication for illustrative and comparison purposes only, and are not intended to be, and should not be treated as, a forecast, estimate or guidance made, adopted, confirmed or endorsed by SSR Mining. EBITDA is a non-GAAP financial measure. See "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
13. Based on the mid-point of 2021 guidance. See our news release dated January 19, 2021.
14. Adjusted basic attributable net income and earnings per share are non-GAAP financial measures. See "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
15. Gold sales, silver sales and gold equivalent sales are on a 100% basis. Gold equivalent sales are based on total gold and silver sales and the realized silver and gold prices for each corresponding period. Realized metal prices, adjusted attributable net income, adjusted basic attributable earnings per share, and consolidated cash are non-GAAP financial measures. Please see "Cautionary Note Regarding Non-GAAP Measures" in this presentation.
16. Initial capex spend for the Çöpler POX plant based on original estimate in the 2016 Çöpler technical report. Final capital spend based on actual reported capex by Alacer Gold. Initial capex for the Chinchillas project based on 2017 PFS study. Final capital based on actual reported capital spend by SSR Mining in Q4/19 MD&A.
17. Realized FCF is calculated as the free cash flow generated by each asset/company following the identified transaction's closing date to the end of Q3/21. Analyst NAV's as of October 29th, 2021.
18. The PEA Case is preliminary in nature and includes an economic analysis that is based, in part, on Inferred Mineral Resources. Inferred Mineral Resources are considered too speculative geologically for the application of economic considerations that would allow them to be categorized as Mineral Reserves, and there is no certainty that the results will be realized. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
19. Production costs are determined on a per ounce produced basis and do not consider the application of inventory movements or deferred stripping. Production costs do not equate to cash costs prepared under SSR Mining non-GAAP measures.
20. All in Sustaining Cost (AISC) are determined on a per ounce produced basis and do not consider the application of inventory movements or deferred stripping. AISC do not equate to AISC prepared under SSR Mining non-GAAP measures.



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