

### **CAUTIONARY NOTE**

#### Non-GAAP Measures

This presentation of Pan American Silver Corp. and its subsidiaries (collectively, "Pan American", "Pan American Silver", the "Company", "we" or "our") refers to various non-GAAP measures, such as "AISC", "cash costs per ounce sold", "adjusted earnings" and "basic adjusted earnings per share", "total debt", "capital", "operating margin", "free cash flow" and "working capital". These measures do not have a standardized meaning prescribed by IFRS as an indicator of performance, and may differ from methods used by other companies. Silver segment Cash Costs and AISC are calculated net of credits for realized revenues from all metals other than silver, and are calculated net of credits for realized silver revenues, and are calculated per ounce of gold sold. Consolidated Cash Costs and AISC are based on total silver ounces sold and are net of by-product credits from all metals other than silver.

Readers should refer to the "Alternative Performance (Non-GAAP) Measures" section of the Company's Management's Discussion and Analysis ("MD&A") for the period ended June 30, 2023, available at www.sedarplus.com.

#### Reporting Currency and Financial Information

Unless we have specified otherwise, all references to dollar amounts or \$ are to United States dollars.

#### **Cautionary Note Regarding Forward Looking Statements and Information**

Certain of the statements and information in this presentation constitute "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995 and "forward-looking information" within the meaning of applicable Canadian provincial securities laws. All statements, other than statements of historical fact, are forward-looking statements or information. Forward-looking statements or information in this presentation relate to, among other things: future financial or operational performance, and estimates of current production levels that remain subject to verification and adjustment, including our estimated production of silver, gold and other metals forecasted for 2023, our estimated Cash Costs, AISC and

expenditures in 2023; future anticipated prices for gold, silver and other metals and assumed foreign exchange rates; estimated global silver inventories; estimated timing for publication of an updated technical report for La Colorada; estimated synergies following the acquisition of Yamana Gold Inc. ("Yamana"); whether Pan American will be able to complete the divestment of its interests in certain non-core assets, including MARA, Agua de la Falda, and Morococha, as well as the anticipated terms, economic returns, and timing for completion thereof; whether Pan American is able to maintain a strong financial condition and have sufficient capital, or have access to capital through our corporate credit facility or otherwise, to sustain our business and operations and complete any anticipate capital spending; the ability of Pan American to successfully complete any capital projects, including with respect to Jacobina and La Colorada and the expected economic or operational results derived from those projects, and the impacts of any such projects on Pan American; and the future results of exploration activities, including with respect to the Skarn exploration program at La Colorada.

These forward-looking statements and information reflect Pan American's current views with respect to future events and are necessarily based upon a number of assumptions that, while considered reasonable by Pan American, are inherently subject to significant operational, business, economic and regulatory uncertainties and contingencies. These assumptions include: tonnage of ore to be mined and processed; ore grades and recoveries; prices for silver, gold and base metals remaining as estimated: currency exchange rates remaining as estimated; capital, decommissioning and reclamation estimates; our mineral reserve and resource estimates and the assumptions upon which they are based; prices for energy inputs, labour, materials, supplies and services (including transportation); no labour-related disruptions at any of our operations; no unplanned delays or interruptions in scheduled production; all necessary permits, licenses and regulatory approvals for our operations are received in a timely manner; our ability to secure and maintain title and ownership to properties and the surface rights necessary for our operations; the ability to satisfy the closing conditions and, where necessary, receive regulatory approval, to complete the sale of the non-core assets; and our ability to comply with environmental, health and safety laws. The foregoing list of assumptions is not exhaustive.

Pan American cautions the reader that forward-looking statements and information involve known and unknown risks, uncertainties and other factors that may cause actual results and developments to differ materially from those expressed or implied by such forward-looking statements or information contained in this presentation and Pan American has made assumptions and estimates based on or related to many of these factors. Such factors include, without limitation: fluctuations in silver, gold and base metal prices; fluctuations

in prices for energy inputs, labour, materials, supplies and services (including transportation); fluctuations in currency markets (such as the PEN, MXN, ARS, BOB, GTQ, CAD, CLP, and BRL versus the USD); operational risks and hazards inherent with the business of mining (including environmental accidents and hazards, industrial accidents, equipment breakdown, unusual or unexpected geological or structural formations, cave-ins, flooding and severe weather); risks relating to the credit worthiness or financial condition of suppliers, refiners and other parties with whom Pan American does business; inadequate insurance, or inability to obtain insurance, to cover these risks and hazards; employee relations; relationships with, and claims by, local communities and indigenous populations; our ability to obtain all necessary permits, licenses and regulatory approvals in a timely manner; changes in laws, regulations and government practices in the jurisdictions where we operate, including environmental, export and import laws and regulations; changes in national and local government, legislation, taxation, controls or regulations and political, legal or economic developments in Canada, the United States, Mexico, Peru, Argentina, Bolivia, Guatemala, Chile, Brazil or other countries where Pan American may carry on business, including legal restrictions relating to mining, including in Chubut, Argentina, risks relating to expropriation, and risks relating to the constitutional court-mandated ILO 169 consultation process in Guatemala; diminishing quantities or grades of mineral reserves as properties are mined; increased competition in the mining industry for equipment and qualified personnel; and those factors identified under the caption "Risks Related to Pan American's Business" in Pan American's most recent form 40-F and Annual Information Form and those factors identified under the caption "Risks of the Business" in Yamana's most recent form 40-F and Annual Information Form filed with the United States Securities and Exchange Commission and Canadian provincial securities regulatory authorities, respectively." filed with the United States Securities and Exchange Commission and Canadian provincial securities regulatory authorities, respectively. Although Pan American has attempted to identify important factors that could cause actual results to differ materially, there may be other factors that cause results not to be as anticipated, estimated, described or intended. Investors are cautioned against undue reliance on forward-looking statements or information. Forward-looking statements and information are designed to help readers understand management's current views of our near- and longer-term prospects and may not be appropriate for other purposes. Pan American does not intend, nor does it assume any obligation to update or revise forward-looking statements or information, whether as a result of new information, changes in assumptions, future events or otherwise, except to the extent required by applicable law.

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#### CONTINUED

#### NOT AN OFFER OR A SOLICITATION

THIS PRESENTATION DOES NOT CONSTITUTE (AND MAY NOT BE CONSTRUED TO BE) A SOLICITATION OR OFFER BY PAN AMERICAN OR ANY OF OUR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, REPRESENTATIVES OR AGENTS TO BUY OR SELL ANY SECURITIES OF ANY PERSON IN ANY JURISDICTION, OR A SOLICITATION OF A PROXY OF ANY SECURITYHOLDER OF ANY PERSON IN ANY JURISDICTION, IN EACH CASE, WITHIN THE MEANING OF APPLICABLE LAWS.

#### Technical Information

Scientific and technical information contained in this presentation has been reviewed and approved by Sébastien Bernier P. Geo., Senior Director, Reserves and Resources, Christopher Emerson, FAusIMM., Vice President of Exploration and Geology, and Martin Wafforn, P.Eng., Senior Vice President Technical Services and Process Optimization, who are each Qualified Persons for the purposes of National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101").

For additional information regarding Pan American Silver's material mineral properties prior to the completion of the acquisition of Yamana (the "Yamana Transaction"), please refer to Pan American Silver's Annual Information Form dated February 22, 2023, filed at www.sedarplus.com, or Pan American Silver's most recent Form 40-F filed with the SEC. For further information about the material mineral projects acquired pursuant to the Yamana Transaction, please refer to Yamana's Annual Information Form dated March 29, 2023, filed at www.sedarplus.com or Yamana's most recent Form 40-F filed with the SEC.

#### Cautionary Note to U.S. Investors Concerning Estimates of Mineral Reserves and Resources

Unless otherwise indicated, all reserve and resource estimates included in this presentation have been prepared in accordance with Canadian National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101") and the Canadian Institute of Mining, Metallurgy and Petroleum (the "CIM") — CIM Definition Standards on Mineral Resources and Mineral Reserves, adopted by the CIM Council, as amended (the "CIM Standards"). 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. Canadian standards, including NI 43-101, differ significantly from the requirements of the SEC, and reserve and resource information included herein may not be comparable to similar information disclosed by U.S. companies. In particular, and without limiting the generality of the foregoing, this presentation uses the terms "measured resources," "indicated resources" and "inferred resources" as defined in accordance with NI 43-101 and the CIM Standards.

Further to recent amendments, mineral property disclosure requirements in

the United States (the "U.S. Rules") are governed by subpart 1300 of Regulation S-K of the U.S. Securities Act of 1933, as amended (the "U.S. Securities Act") which differ from the CIM Standards. As a foreign private issuer that is eligible to file reports with the SEC pursuant to the multi-jurisdictional disclosure system (the "MJDS"), Pan American is not required to provide disclosure on its mineral properties under the U.S. Rules and will continue to provide disclosure under NI 43-101 and the CIM Standards. If Pan American ceases to be a foreign private issuer or loses its eligibility to file its annual report on Form 40-F pursuant to the MJDS, then Pan American will be subject to the U.S. Rules, which differ from the requirements of NI 43-101 and the CIM Standards.

Pursuant to the new U.S. Rules, the SEC recognizes estimates of "measured mineral resources", "indicated mineral resources" and "inferred mineral resources." In addition, the definitions of "proven mineral reserves" and "probable mineral reserves" under the U.S. Rules are now "substantially similar" to the corresponding standards under NI 43-101. Mineralization described using these terms has a greater amount of uncertainty as to its existence and feasibility than mineralization that has been characterized as reserves. Accordingly, U.S. investors are cautioned not to assume that any measured mineral resources, indicated mineral resources, or inferred mineral resources that Pan American reports are or will be economically or legally mineable. Further, "inferred mineral resources" have a greater amount of uncertainty as to their existence and as to whether they can be mined legally or economically. Under Canadian securities laws, estimates of "inferred mineral resources" may not form the basis of feasibility or pre-feasibility studies, except in rare cases. While the above terms under the U.S. Rules are "substantially similar" to the standards under NI 43-101 and CIM Standards, there are differences in the definitions under the U.S. Rules and CIM Standards. Accordingly, there is no assurance any mineral reserves or mineral resources that Pan American may report as "proven mineral reserves", "probable mineral reserves", "measured mineral resources", "indicated mineral resources" and "inferred mineral resources" under NI 43-101 would be the same had Pan American prepared the reserve or resource estimates under the standards adopted under the U.S. Rules.





### TRANSFORMATIVE YAMANA TRANSACTION

// The acquisition of Yamana Gold Inc. enhanced the scale and quality of Pan American's portfolio in the Americas, where we have been operating for nearly 3 decades

 4 producing mines: Jacobina, El Peñon, Minera Florida & Cerro Moro, plus MARA¹ (56.25%) development project

Enhanced diversification with addition of Chile & Brazil

Peru

■ Mexico

Brazil

■ Bolivia

Adds significant proven and probable reserves

Extensive exploration portfolio

Pro Forma Revenue does not exceed 25% from any single jurisdiction

(For the three months ended June 30, 2023)





Pan American announced on July 31, 2023, that it has entered into binding agreements to divest MARA and Morococha.

# ACQUISITION CREATES CLEAR PATH TO UNLOCK VALUE

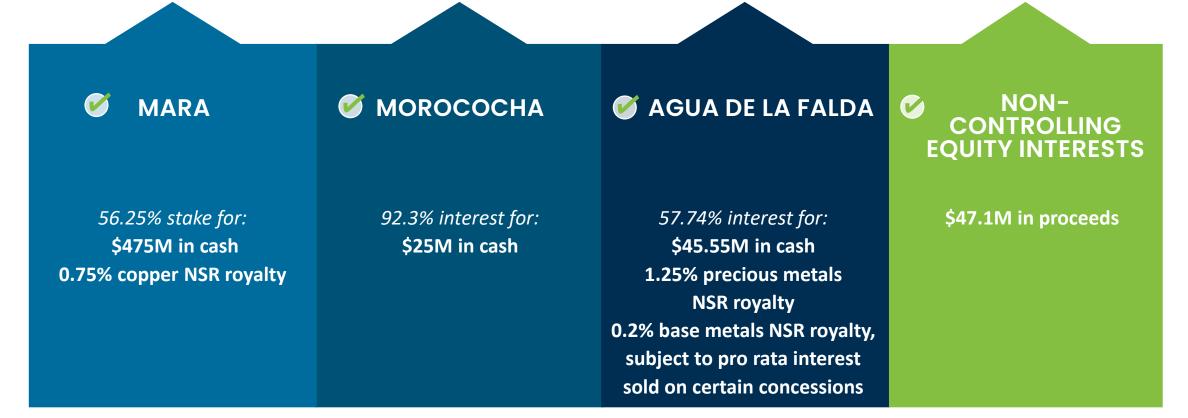
// Annual post-tax synergies of \$40-\$60 million

- Established presence and expertise in Latin America will enable Pan American to leverage operational efficiencies and the growth potential of the acquired Yamana assets in the region
- Synergies driven by streamlining corporate costs, cross-pollination of mining best practices and unification of regional mining hubs
- Transaction was accretive on a per share basis with respect to key financial and operating metrics, even before considering synergies



### ADVANCING PORTFOLIO OPTIMIZATION STRATEGY

// Sales of non-core assets focuses portfolio, improves the balance sheet and retains future upside



Total cash proceeds of \$593 million, plus significant Care & Maintenance savings to be realized upon closing, strengthening free cash flow generation for the advancement of strategic growth projects



### 2023 GUIDANCE MAINTAINED

// Q2 production and costs in line with annual guidance (9-months for Yamana acquired mines)

Ag

21.0 - 23.0 Moz

ANNUAL CONSOLIDATED PRODUCTION

\$10.00 - \$12.00 per oz

SILVER SEGMENT CASH COSTS (1)

\$14.00 - \$16.00 per oz

SILVER SEGMENT AISC (1)

Au

870 - 970 Koz

ANNUAL CONSOLIDATED PRODUCTION

\$975 - \$1,100 per oz

GOLD SEGMENT CASH COSTS (1)

\$1,275 - \$1,425 per oz

GOLD SEGMENT AISC (1)

Sustaining capital of \$305 - \$320 million

Project capital of \$95 - \$105 million

Reclamation expenditures of \$18 - \$20 million

Care & Maintenance costs of \$98 - \$109 million<sup>(2)</sup>

<sup>1.</sup> Cash Costs and AISC are non-GAAP measures. Please refer to the section "Alternative Performance (Non-GAAP) Measures" of the MD&A for the period ended June 30, 2023 for a detailed description of these measures and where appropriate a reconciliation of the measure to the Q2 2023 Financial Statements. The AISC forecast assumes metal prices of \$22.00/oz for silver, \$1,850/oz for gold, \$3,000/tonne (\$1.36/lb) for zinc, \$2,100/tonne (\$0.95/lb) for lead, and \$8,000/tonne (\$3.63/lb) for copper; and average annual exchange rates relative to 1 USD of 18.75 for the Mexican peso, 3.75 for the Peruvian sol, 270.00 for the Argentine peso, 7.00 for the Bolivian boliviano, \$1.33 for the Canadian dollar, \$800.00 for the Chilean peso and \$5.00 for the Brazilian real.





# 2023 MINERAL RESERVE AND MINERAL RESOURCES HIGHLIGHTS<sup>(1,2)</sup>

| Significant increase in reserves and resources with addition of assets from the Yamana transaction

576.6 Mozs of silver mineral reserves and 12.9 Mozs of gold mineral reserves

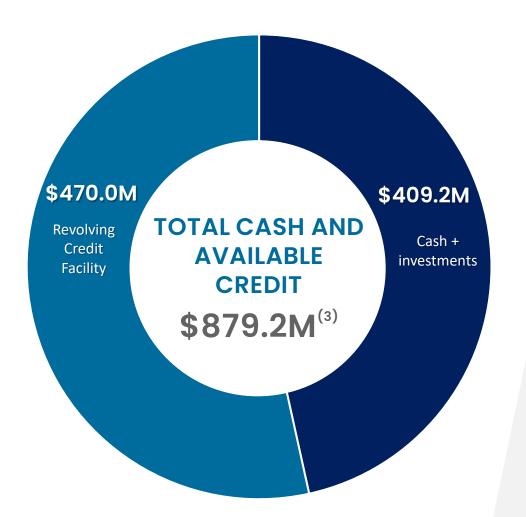
Measured & indicated mineral resources, exclusive of mineral reserves, of 959.1 million ounces for silver and 17.5 million ounces for gold

Inferred mineral resources of 479.4 million ounces for silver and 9.2 million ounces for gold



<sup>1.</sup> As at June 30, 2023.

<sup>2.</sup> See presentation Appendix for more detailed information on the Company's reserves and resources.



### STRONG FINANCIAL POSITION®

// Prudent balance sheet management reduces risk, improves long-term shareholder returns

#### **Balance sheet management**



**Total debt**<sup>(2)</sup> **of \$1,135.3M** related to senior notes (\$783M), the SL-Credit Facility (\$280M), and construction loans and leases



**Sustainability-Linked Revolving Credit Facility** aligns Pan American's ESG performance to its cost of capital



**Strong liquidity** – remain well positioned to fund planned capital expenditures and pay down debt



<sup>1.</sup> As at June 30, 2023; excludes pro forma impact of asset divestments announced on July 31, 2023

<sup>2.</sup> Total debt is a non-GAAP measure calculated as the total of amounts drawn on the SL-Credit Facility, finance lease liabilities and loans payable. See the "Non-GAAP Measures" section of our Cautionary Note on page 2 of this presentation.

<sup>3.</sup> Total Cash and Available Credit is a non-GAAP measure calculated as cash and cash equivalents plus investments, including \$192.9 million of cash held by the MARA Project, plus undrawn amounts under the SL-Credit Facility.



**ZACATECAS, MEXICO** 

### LA COLORADA SKARN PROJECT

// 100% owned, large, polymetallic deposit with potential for decades of production

- Completed over 254,000 metres of drilling; higher-grade mineralised zones continue to be encountered in the drill program
- Skarn footprint of 1,500 metres x 1,100 metres, open in all directions
- Metallurgical tests show positive polymetallic flotation recoveries
- Sub level caving mining method used to develop mining shapes that constrained the mineral resource volume, assuming a \$45/tonne mining, processing and administration operating cost
- Late 2023, aiming to provide an updated technical report for La Colorada, which will contain preliminary economics for the Skarn project

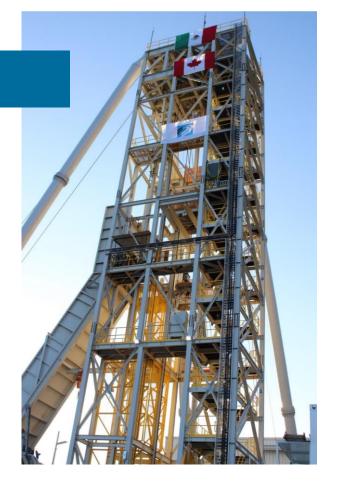


INFERRED MINERAL RESOURCE EST. // 147.8MT

### LA COLORADA

The fully concrete-lined 5.5-metre diameter ventilation shaft is expected to be completed in 2023 at a cost of ~\$47 million.

The shaft is strategically located to exhaust hot, moist air directly from the source, diverting the high heat load being sent throughout the mine.





Ventilation fans to be installed on shaft in 2024, reducing power requirements upon commissioning

Shaft sinking reached 495 metres of 590 metres total depth on September 13, 2023.



ZACATECAS, MEXICO

### LA COLORADA SKARN - MINERAL RESOURCE ESTIMATE

Mining Method	Cut-off Value (US\$/tonne)	Resource Classification	Tonnes (millions)	Zn (%)	Pb (%)	<b>Ag</b> (g/t)	Zn (Mt)	Pb (Mt)	Ag (Moz)
Sub-level	45	Indicated	95.9	2.77	1.28	31	2.66	1.23	94.4
Caving (SLC)	.0	Inferred	147.8	2.29	1.04	28	3.39	1.54	132.9

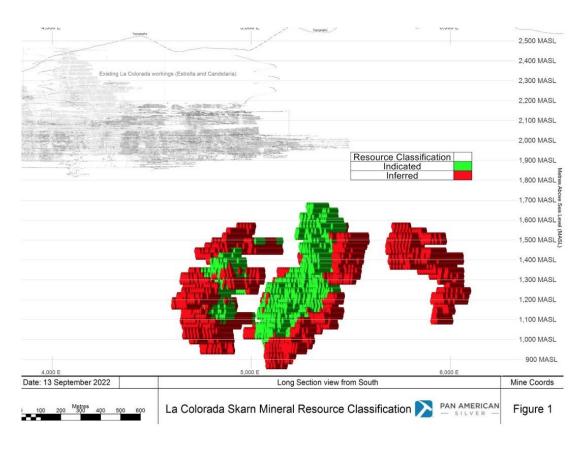
#### Notes:

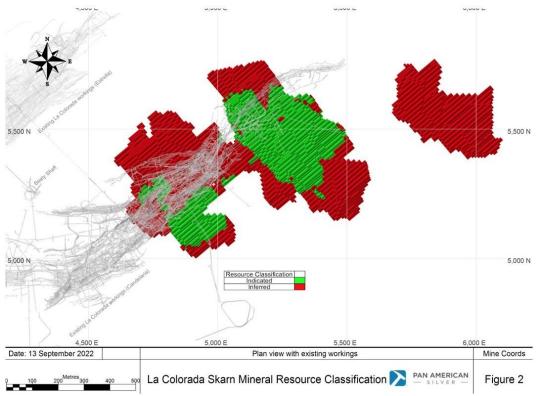
- Estimation and reporting of mineral resources were carried out in accordance with Canadian Institute of Mining, Metallurgy and Petroleum (CIM) guidelines.
- Mineral resources have reasonable prospects for eventual economic extraction demonstrating sufficient spatial continuity of mineralisation constrained within a potentially mineable shape. No mineral reserves are reported at this time.
- Prices used to report mineral resources were: U\$\$22 per ounce of silver, U\$\$2,800 per tonne of zinc and U\$\$2,200 per tonne of lead.
- 4. An estimate of mineral value per tonne was calculated using metallurgical recoveries of 87.4% Ag, 88% Pb and 93% Zn with mineral concentrate qualities of 67% Pb in lead concentrate and 60% Zn in zinc concentrate, obtained from metallurgical testing. Estimates for transport, payability and refining/selling costs, based on experience and long-term views of the marketing, treatment and refining of these types of mineral concentrates, were included.
- Reasonable prospects for eventual economic extraction were assessed by determining the total in-situ tonnes and grade constrained inside volumes that are based on a bulk style sub-level caving underground mining method. The tonnes and grades are inclusive of the must-take low grade material within the volume, as per CIM best practice guidelines. No other mining dilution or mineral losses have been accounted for. A US\$45 per tonne operating cost has been assumed, which includes estimates of mining, processing and G&A operating costs.
- This mineral resource estimate was prepared under the supervision of, or was reviewed by, Christopher Emerson, FAusIMM, Vice President Exploration and Geology, and Martin G. Wafforn, P.Eng., Senior Vice President Technical Services and Process Optimization, each of whom is a Qualified Person as that term is defined in National Instrument 43-101 ("NI 43-101").
- 7. The effective date of the mineral resources estimate is Sept. 13, 2022.



# LA COLORADA SKARN VIEW

// polymetallic skarn mineralisation is concentrated in 3 zones, covering an area of 1,500 metres by 1,100 metres laterally, and a depth of between 600 metres and 1,900 metres below surface







SANTA ROSA, GUATEMALA

## **ESCOBAL**

#### // One of the world's best silver mines

- High-quality, well-built operation with over US\$500 million invested<sup>(1)</sup>
- One of the world's largest primary silver deposits with reserves of 264 Moz
- 3 consecutive years of production at 20 Moz Ag/year at AISC consistently below US\$10/oz Ag prior to 2017
- Mine operations suspended pending completion of an ILO 169 consultation by the Guatemalan government
- 1. Based on development, expansion, and sustaining capital invested from 2011 to 2017.

#### **Historical Silver Production & AISC**



AISC is a non-GAAP measure; see the "Non-GAAP Measures" section of our Cautionary Note on page 2 of this presentation.

#### **Mineral Reserves** & Resources

			Gro	ıde		Con	taine	d Me	tal
	Tonnes	Ag	Au	Pb	Zn	Ag	Au	Pb	Zn
	(Mt)	(g/t)	(g/t)	(%)	(%)	(Moz)	(koz)	(kt)	(kt)
P&P Reserves	24.7	334	0.35	0.79	1.30	264.5	278	196	320
M&I Resources	16.5	208	0.21	0.37	0.65	110.1	110	61	106
Inferred Resources	1.9	180	0.90	0.22	0.42	10.7	54	4	8

(as of June 30, 2023)



# **ESCOBAL CONSULTATION PHASE UNDERWAY**

Escobal mining license suspended pending completion of an ILO 169 Consultation in Guatemala

For more information, please visit <a href="https://mem.gob.gt/derecho-minero-escobal/">https://mem.gob.gt/derecho-minero-escobal/</a>

### PRE-PHASE 1 REVIEW

PAS Guatemala shall work with 2011 Environmental Impact Study (EIS) consultant and experts at two Guatemalan Universities to review, define, and recommend area of influence (AOI) to Ministry of Environment and Natural Resources

#### PHASE 1

#### PRE-CONSULTATION

Ministry of Energy and Mines (MEM) leads the process

Define and agree to the terms, timeline and mechanisms under which the consultation (Phase 2) will take place

### PHASE 2 CONSULTATION

MEM leads the process

Formal dialogue process to achieve agreements amongst the main participants in the process: Xinka indigenous communities, MEM and PAS Guatemala (Pan American's subsidiary in Guatemala)

#### PHASE 3

### SUPREME COURT VERIFICATION

MEM to submit results of the consultation process to the Guatemalan Supreme Court (SC)

SC certifies with all three parties that the ILO 169 consultation process as outlined in the Constitutional Court's resolution has been followed



MARN (Environmental Ministry)
completed the area of influence
analysis and submitted to the MEM in
November 2018. On February 5,
2020, the Supreme Court ruled that
the MARN process for the
determination of the AOI was
completed properly.



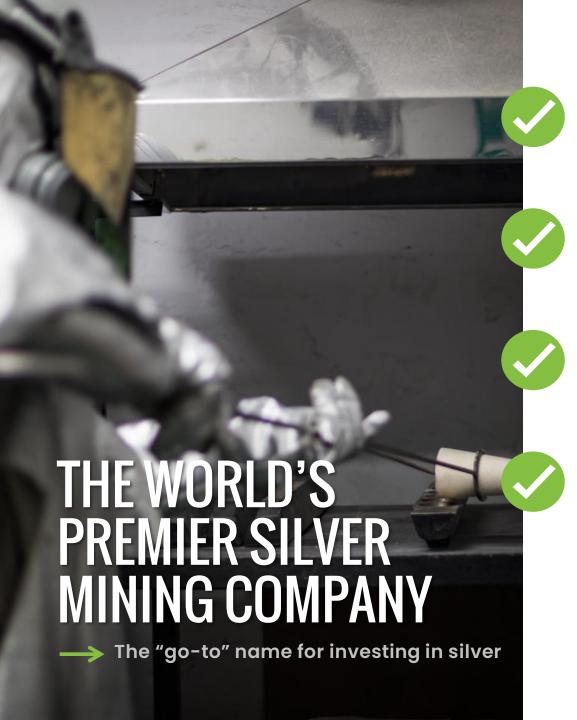
Pre-consultation completed in July 2022.



Underway.



Awaiting completion of Phase 2.



#### Large silver reserves<sup>(1)</sup>

Proven and probable mineral reserves of 576.6 Mozs plus measured and indicated mineral resources of 959.1 Mozs, as of June 30, 2023

**Escobal mine** has potential to add ~20 Moz of silver production annually following restart of operations

The mine is currently on care and maintenance pending completion of an ILO 169 Consultation by the government of Guatemala

**La Colorada Skarn** estimated to contain 94.4 Moz of silver indicated mineral resource and 132.9 Moz inferred mineral resource<sup>(3)</sup>

Pan American advancing the project through continued infill and exploration drilling and preparation of a preliminary economic assessment for release in late 2023

#### **Preferred investment for silver** mining investors

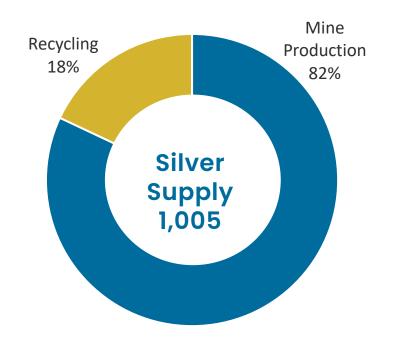
Transaction created the world's premier silver mining company with average daily trading liquidity of  $$67.5M^{(2)}$$  and a market capitalization of  $$6.0B^{(4)}$$ 

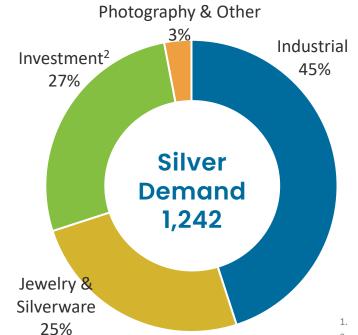
- Pan American estimated mineral reserves and resources reported as of June 30, 2023. See presentation Appendix for more detailed information on the Company's reserves and resources.
- 2. Based on FactSet 90-day average trading volume as of August 29, 2023.
- 3. The effective date of the mineral resource estimate is September 13, 2022; See presentation Appendix for more detailed information on the Company's reserves and resources and the metal price assumptions used for these estimates.
- 4. Based on the post-transaction shares outstanding of 364.4 million multiplied by the August 29, 2023 closing price of the Pan American Shares of \$16.57.



### **WORLD SILVER SUPPLY & DEMAND**

// 2022 actual<sup>(1)</sup>; in million ounces





- 1. Source: Silver Institute, April 2023.
- 2. Net physical investment in coins and bars.

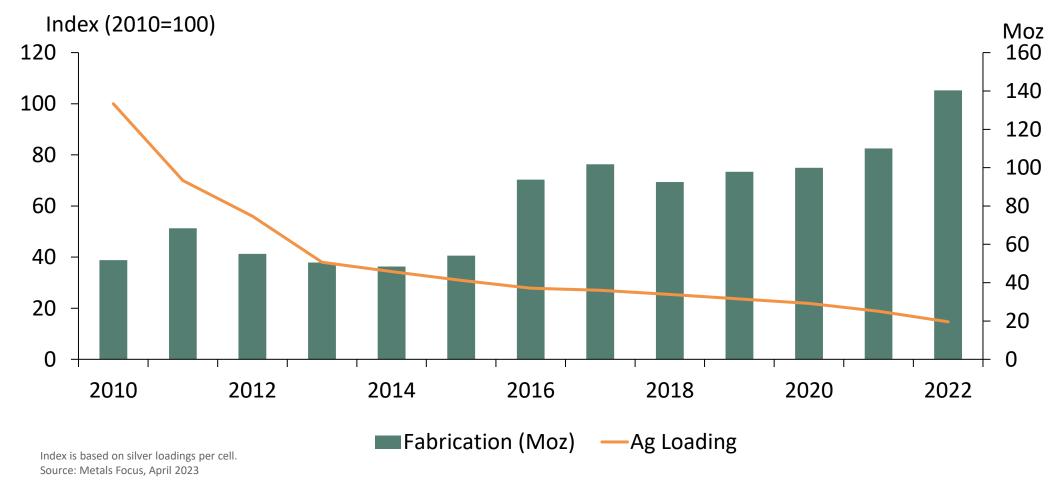
~ 142 Moz supply shortfall estimated for 2023

By YE 2023, global silver inventories estimated to have decreased by 430.9M ozs Since 2020



### PHOTOVOLTAIC DEMAND

// Silver demand for solar installations has grown, representing 140 Moz, or ~11% of total demand, in 2022 while thrifting has plateaued

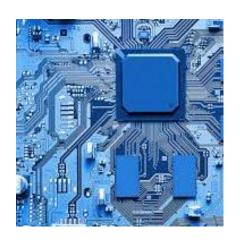




### SILVER: METAL OF THE FUTURE

### // Growing industrial demand from global transition to decarbonization and electrification

- Silver has the highest electrical and thermal conductivity of all metals, making it an important metal in the transition to a low carbon economy.
- ~11% of silver demand is for photovoltaics (solar panels).
- ~19% of silver demand is for electrical applications.
   Shift to a low carbon economy involves increase in electrical componentry, including electrical vehicles.
- Silver is an important component in the buildout of 5G networks, the next major evolution in communication technology.
- Silver has medical and sanitary applications because of its anti-bacterial properties.









# ESG DISCLOSURE & PERFORMANCE

REPORTING FRAMEWORKS & STANDARDS







#### MEMBERSHIPS & COMMITMENTS





















#### **RATINGS & RANKINGS**

#### **S&P Global**

68

Ranked top 7% in the Metals & Mining industry

Scale: 0 (worst) to 100 (best).

### MSCI ∰

#### BBB rating

Ranked in the top 45<sup>th</sup> percentile

Scale: CCC (worst) to AAA (best).

20



#### 27.9 (medium risk)

#8 out of 29 companies in Precious Metals Mining sector | Ranked top 25th percentile

Scale: 100 (worst) to 0 (best).

### ISS ESG **▷**

#### C+ rating

Upgraded from 'C' to 'C+' in March 2022 | Ranked top 20%

Scale: D- (worst) to A+ (best).

\$750 MILLION REVOLVING CREDIT FACILITY LINKED TO THIRD-PARTY ESG RATINGS (S&P GLOBAL AND MSCI)

(as of July 25, 2023)

# A LEADING PRODUCER OF SILVER AND GOLD IN THE AMERICAS

- Long-life silver reserves
- Medium and long-term growth projects
- Committed to best-in-class ESG performance
- Experienced management team
- Strong balance sheet

// PAAS SNAPSHOT <sup>1</sup>

NYSE: PAAS TSX: PAAS

\$5.6B

364.4M

SHARES OUTSTANDING

\$51.4M

AVERAGE DAILY TRADING VALUE(3)

\$0.10

QUARTERLY DIVIDEND<sup>2</sup>

2.6%
DIVIDEND YIELD

SELL SIDE ANALYSTS

MEMBER OF THE MSCI WORLD AND S&P/TSX COMPOSITE INDICES

- 1. FactSet market data as of September 21, 2023.
- Dividend paid September 1, 2023.
- 3. Based on 90-day average daily trading volume and value per FactSet



# INVESTMENT GRADE SENIOR NOTES

// Low-cost debt acquired as part of the Yamana transaction

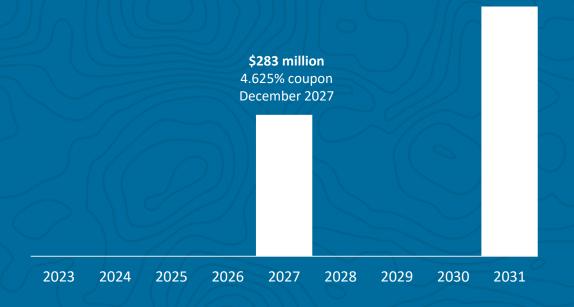
S&P long-term issuer rating of BBB-

Moody's rating of Baa3

Attractive coupon rates

Staggered maturity dates

Redeemable at Company's option





\$500 million

2.63% coupon August 2031

# 2023 OPERATING OUTLOOK

	Silver Production (million ounces)	Gold Production (thousand ounces)	Cash Costs (\$ per ounce) <sup>(1)</sup>	AISC (\$ per ounce) (1)
Silver Segment:				
La Colorada (Mexico)	5.5 - 5.9	3	14.00 - 15.50	17.00 - 18.50
Cerro Moro (Argentina) <sup>(2)</sup>	3.6 - 3.9	77 – 85	5.50 - 8.80	11.00 - 14.50
Huaron (Peru)	3.6 - 3.8	_	5.80 - 7.30	11.50 - 13.00
San Vicente (Bolivia) <sup>(3)</sup>	2.5 - 2.6	_	14.10 - 15.90	16.00 - 17.50
Manantial Espejo (Argentina) <sup>(4)</sup>	0.2	2	11.80 - 12.90	13.70 - 14.80
Silver Segment Consolidated	15.4 – 16.4	82 – 90	10.00 - 12.00	14.00 - 16.00
Gold Segment:				
Jacobina (Brazil) <sup>(2)</sup>	-	144 - 164	750 - 810	1,020 - 1,110
El Peñon (Chile) <sup>(2)</sup>	2.9 - 3.5	122 - 142	600 - 770	785 – 985
Timmins (Canada)	-	130 - 141	1,340 - 1,480	1,650 - 1,800
Shahuindo (Peru)	0.3	134 - 146	780 - 920	1,300 - 1,470
La Arena (Peru)	-	98 – 106	1,200 - 1,270	1,600 - 1,690
Minera Florida (Chile) <sup>(2)</sup>	0.2 - 0.3	62 - 74	1,340 - 1,430	1,700 - 1,850
Dolores (Mexico)	2.2 - 2.5	98 - 107	1,110 - 1,240	1,230 - 1,360
<b>Gold Segment Consolidated</b>	5.6 - 6.6	788 – 880	975 – 1,100	1,275 – 1,425
12-months Pan American Silver Original Assets Production <sup>(5)</sup>	14.3 – 15.3	465 – 505		
9-months Acquired Operations Production <sup>(6)</sup>	6.7 - 7.7	405 – 465		
<b>Total Consolidated Production</b>	21.0 – 23.0	870 – 970		

In addition to consolidated silver and gold production, **2023 consolidated base metal production is forecast to be:** 

Zinc (kt)	41 - 45
Lead (kt)	18 – 21
Copper (kt)	5

- 1. Cash Costs and AISC are non-GAAP measures. Please refer to the section "Alternative Performance (Non-GAAP) Measures" of the MD&A for the period ended March 31, 2023 for a detailed description of these measures and where appropriate a reconciliation of the measure to the Q1 2023 Financial Statements. The AISC forecast assumes metal prices of \$22.00/oz for silver, \$1,850/oz for gold, \$3,000/tonne (\$1.36/lb) for zinc, \$2,100/tonne (\$0.95/lb) for lead, and \$8,000/tonne (\$3.63/lb) for copper; and average annual exchange rates relative to 1 USD of 18.75 for the Mexican peso ("MXN"), 3.75 for the Peruvian sol ("PEN"), 270.00 for the Argentine peso ("ARS"), 7.00 for the Bolivian boliviano ("BOB"), \$1.33 for the Canadian dollar ("CAD"), \$800.00 for the Chilean peso ("CLP") and \$5.00 for the Brazilian real ("BRL").
- 2. 2023 production and AISC forecasts for Cerro Moro, Jacobina, El Peñon and Minera Florida reflects ownership for the nine- month period from March 31 to December 31, 2023.
- 3. San Vicente data represents Pan American's 95.0% interest in the mine's production.
- 4. Mining activities have been completed at Manantial Espejo at the end of 2022, with residual processing completed in January 2023.
- 5. Includes La Colorada, Huaron, San Vicente, Manantial Espejo, Timmins, Shahuindo, La Arena and Dolores mines.
- Reflects ownership of the Cerro Moro, Jacobina, El Peñon and Minera Florida mines for the nine-month period from March 31 to December 31, 2023.



### 2023 CAPITAL EXPENDITURE & OPERATING FORECAST

### Project capital invested to advance strategic goals:

- Continued exploration and infill drilling on the La Colorada
   Skarn project where
   engineering work is being
   advanced towards a H2 2023
   PEA and advancing construction
   of the concrete-lined
   ventilation shaft
- Upgrading plant facility infrastructure at Jacobina
- Huaron tailings pressure filtration plant / dry-stack tailings storage
- Bell Creek paste fill plant

	Expenditures (\$ millions)
Sustaining Capital	
La Colorada (Mexico)	15.0 – 16.0
Cerro Moro (Argentina)	20.0 – 21.0
Huaron (Peru)	17.0 – 18.0
San Vicente (Bolivia) <sup>(1)</sup>	3.5 – 4.5
Jacobina (Brazil)	42.0 – 44.0
El Peñon (Chile)	25.5 – 26.5
Timmins (Canada)	41.0 – 43.0
Shahuindo (Peru)	72.0 – 74.0
La Arena (Peru)	38.0 – 40.0
Minera Florida (Chile)	24.0 – 25.0
Dolores (Mexico)	7.0 – 8.0
Sustaining Capital Sub-total	305.0 – 320.0
Project Capital	
La Colorada Projects (Mexico)	36.0 – 38.0
Huaron Projects (Peru)	22.0 – 25.0
Timmins Projects (Canada)	11.0 – 13.0
Jacobina Projects (Brazil)	26.0 – 29.0
Project Capital Sub-total	95.0 – 105.0
Total Capital Expenditures	400.0 – 425.0
Total Reclamation Expenditures	18.0 – 20.0
General & Administration	75.0 – 80.0
Care & Maintenance	98.0 - 109.0
Exploration Expense <sup>(2)</sup>	14.0 – 16.0



<sup>1.</sup> Capital expenditures and reclamation expenditures at San Vicente are shown at a 100% ownership.

l. Includes regional greenfield exploration expenditures. Expenditures relating to near-mine exploration are included in the sustaining and project capital amounts.

# 2023 QUARTERLY OPERATING OUTLOOK

Q1 Actual	Q2 Actual	Q2 Guidance	Q3 Guidance <sup>(1)</sup>	Q4 Guidance <sup>(1)</sup>	FY 2023
2 90					Guidance <sup>(1)</sup>
3.03	6.02	5.40 - 6.00	5.70 - 6.40	6.00 - 6.70	21.00 - 23.00
122.7	248.2	225.0 - 255.0	248.0 - 283.0	274.0 - 309.0	870.0 - 970.0
12.19	9.29	11.00 - 13.10	8.50 - 10.60	9.20 - 11.30	10.00 - 12.00
14.13	15.70	16.10 - 18.20	11.70 - 13.80	12.10 - 14.20	14.00 - 16.00
1,120	1,045	1,070 - 1,200	975 - 1,110	860 - 975	975 - 1,100
1,196	1,342	1,430 - 1,580	1,290 - 1,440	1,070 - 1,200	1,275 - 1,425
	12.19 14.13 1,120	122.7       248.2         12.19       9.29         14.13       15.70         1,120       1,045	122.7       248.2       225.0 - 255.0         12.19       9.29       11.00 - 13.10         14.13       15.70       16.10 - 18.20         1,120       1,045       1,070 - 1,200	122.7       248.2       225.0 - 255.0       248.0 - 283.0         12.19       9.29       11.00 - 13.10       8.50 - 10.60         14.13       15.70       16.10 - 18.20       11.70 - 13.80         1,120       1,045       1,070 - 1,200       975 - 1,110	122.7       248.2       225.0 - 255.0       248.0 - 283.0       274.0 - 309.0         12.19       9.29       11.00 - 13.10       8.50 - 10.60       9.20 - 11.30         14.13       15.70       16.10 - 18.20       11.70 - 13.80       12.10 - 14.20         1,120       1,045       1,070 - 1,200       975 - 1,110       860 - 975

<sup>2.</sup> Cash Costs and AISC are non-GAAP measures. Please refer to the section "Alternative Performance (Non-GAAP) Measures" of the MD&A for the period ended June 30, 2023, for further information on this measure. The AISC forecast assumes metal prices of \$22.00/oz for silver, \$1,850/oz for gold, \$3,000/tonne (\$1.36/lb) for zinc, \$2,100/tonne (\$0.95/lb) for lead, and \$8,000/tonne (\$3.63/lb) for copper; and average annual exchange rates relative to 1 USD of 18.75 for the Mexican peso ("MXN"), 3.75 for the Peruvian sol ("PEN"), 270.00 for the Argentine peso ("ARS"), 7.00 for the Bolivian boliviano ("BOB"), \$1.33 for the Canadian dollar ("CAD"), \$800.00 for the Chilean peso ("CLP") and \$5.00 for the Brazilian real ("BRL").



<sup>1.</sup> The Q3, Q4 and FY 2023 Guidance are forward-looking; please see the "Cautionary Note Regarding Forward Looking Statements and Information" on slide 2 of this presentation.

### SUSTAINABILITY GOVERNANCE AND MANAGEMENT

#### // Structure and Accountability

#### **BOARD OF DIRECTORS**

- The Communities and Sustainable Development (CSD) Committee reviews the Company's sustainability and ESG performance.
- The Health, Safety, and Environment (HSE) Committee provides policy direction and oversight of the performance on safety and technical matters relating to the environment.
- The Nominating and Governance Committee reviews and provides direction on the Company's governance practices.
- The Human Resources and Compensation Committee assists the Board in fulfilling its responsibilities relating to human resources and compensation issues.

#### **CORPORATE MANAGEMENT TEAM**

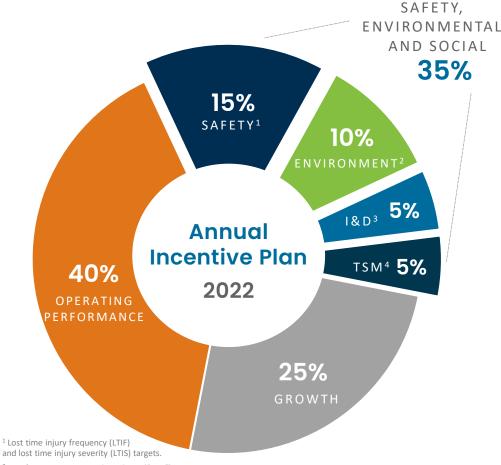
- Our CEO and senior leadership direct and oversee strategy, programs, initiatives, and performance related to communities, health and safety, environment and human resources. They also monitor sustainability indicator performance on a monthly basis.
- The ESG Management Committee supports the Company in fulfilling its ESG management responsibilities and enhancing its ESG performance.

#### **COUNTRY MANAGERS**

Oversee and manage sustainability in each of the countries where we operate.

#### MINE MANAGERS

• Implement sustainability programs and initiatives and supervise teams responsible for community relations, environment, safety, and human resources.



<sup>&</sup>lt;sup>2</sup> Significant Environmental Incidents ("SEIs").



 $<sup>^{\</sup>rm 3}$  Inclusion & Diversity by percentage of women employees in the total workforce.

<sup>&</sup>lt;sup>4</sup> Level of performance of Mining Association of Canada's TSM standard.

ONTARIO, CANADA

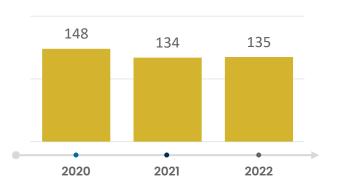
## **TIMMINS**



#### // Two producing mines in prolific Canadian mining camp

- 100% owned and operated
- · Comprises two underground gold mines, Timmins West and Bell Creek, which both feed the Bell Creek mill
- Throughput capacity of ~6,000 tpd producing doré
- Exploration success has extended mine life

#### **Gold Production** (Koz)



#### **Mineral Reserves & Resources**

		Grade	<b>Contained Metal</b>
	Tonnes	Au	Au
	(Mt)	(g/t)	(koz)
P&P Reserves	9.7	2.87	893
M&I Resources	4.9	2.63	418
Inferred Resources	3.8	3.11	384





# **DOLORES**

// Large gold / silver Mine

- 100% owned and operated
- Mining is by open pit and uses conventional cyanide heap leaching to produce gold and silver doré
- Average throughput capacity of 20,000 tpd

#### **Silver & Gold Production**





		Gr	Grade		ed Metal
	Tonnes	Ag	Au	Ag	Au
	(Mt)	(g/t)	(g/t)	(Moz)	(koz)
P&P Reserves	7.6	18	0.53	4.4	131
M&I Resources	6.2	28	0.44	5.5	86
Inferred Resources	1.3	40	1.18	1.7	50



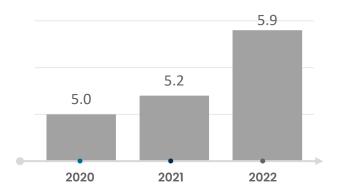
ZACATECAS, MEXICO

# LA COLORADA

#### // Pan American's largest silver producing mine

- 100% owned and operated underground mine
- Expansion completed in 2017 new mine shaft and sulphide processing plant
- Currently producing silver-gold doré bars from a conventional cyanide leach plant for the oxide ore, and silver-rich lead and zinc concentrates from a flotation plant treating sulphide ore

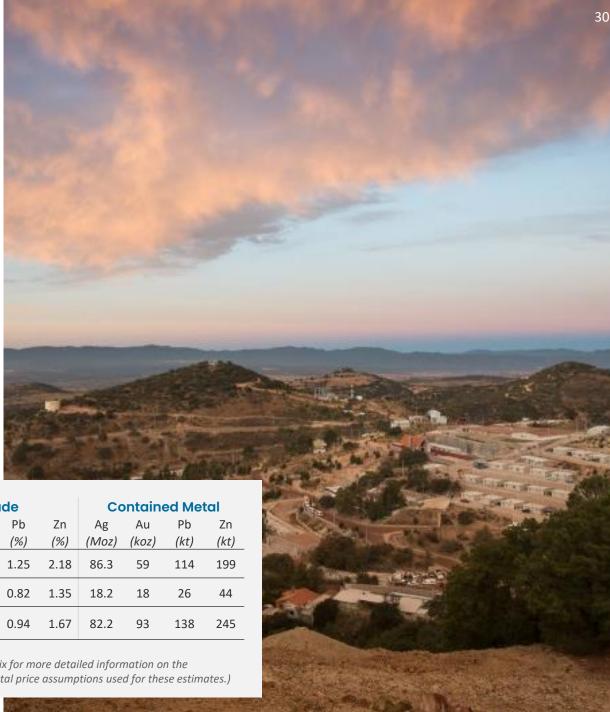
#### Silver Production (Moz)



#### **Mineral Reserves & Resources**

La Colorada

		Grade				Co	ntain	ed Met	tal
	Tonnes (Mt)	Ag (g/t)	Au (g/t)	Pb <i>(%)</i>	Zn <i>(%)</i>	Ag (Moz)	Au (koz)	Pb <i>(kt)</i>	Zn <i>(kt)</i>
P&P Reserves	9.2	294	0.20	1.25	2.18	86.3	59	114	199
M&I Resources	3.2	176	0.18	0.82	1.35	18.2	18	26	44
Inferred Resources	14.7	174	0.20	0.94	1.67	82.2	93	138	245



CAJAMARCA, PERU

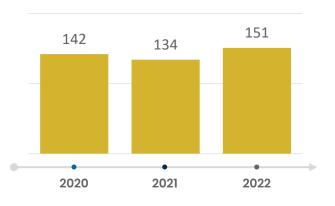


# **SHAHUINDO**

#### // Large gold mine with significant growth potential

- 100% owned and operated open pit gold mine producing silver by-products from doré
- Average throughput capacity of ~36,000 tpd with heap leach processing
- Commercial production began in 2016, significant exploration potential and ability to extend mine life

#### Gold Production (koz)



#### **Mineral Reserves & Resources**

		Gro	ade	Contain	ed Metal
	Tonnes	Au	Ag	Au	Ag
	(Mt)	(g/t)	(g/t)	(koz)	(Moz)
P&P Reserves	92.4	0.47	7	1,405	21.9
M&I Resources	12.5	0.32	5	129	2.3
Inferred Resources	10.1	0.38	8	124	2.4



LA LIBERTAD, PERU

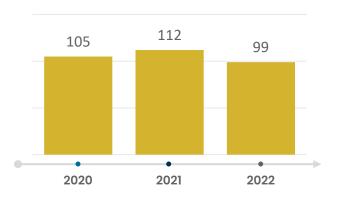
# LA ARENA



// Gold mine with sulphide expansion potential (La Arena II)

- 100% owned and operated open pit gold mine producing doré
- Run-of-mine heap leach currently processing ~36,000 tpd
- Exploration success has extended mine life

#### **Gold Production** (Koz)



#### **Mineral Reserves & Resources**

		Grade	<b>Contained Metal</b>
	Tonnes	Au	Au
	(Mt)	(g/t)	(koz)
P&P Reserves	32.6	0.33	343.1
M&I Resources	3.3	0.19	20.6
Inferred Resources	5.8	0.23	43.4



PASCO, PERU

# **HUARON**

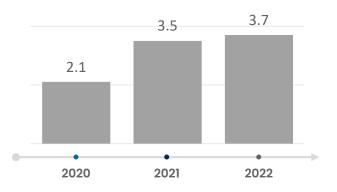
#### // Polymetallic silver mine



 Average throughput capacity of ~2,500 tpd using flotation technology to produce silver in copper, lead, and zinc concentrates

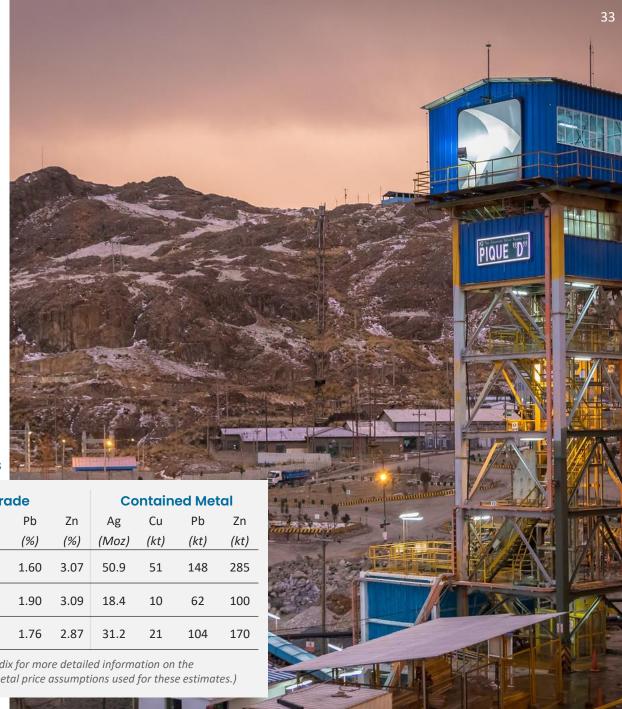
Huaron

#### **Silver Production** (Moz)





			Gro	ade		Co	ntain	ed Met	al
	Tonnes	Ag	Cu	Pb	Zn	Ag	Cu	Pb	Zn
	(Mt)	(g/t)	(%)	(%)	(%)	(Moz)	(kt)	(kt)	(kt)
P&P Reserves	9.3	171	0.56	1.60	3.07	50.9	51	148	285
M&I Resources	3.2	176	0.30	1.90	3.09	18.4	10	62	100
Inferred Resources	5.9	164	0.35	1.76	2.87	31.2	21	104	170



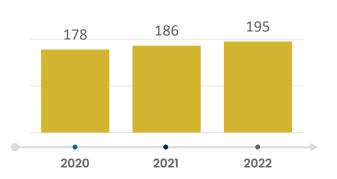
BAHIA, BRAZIL

# **JACOBINA**

// Large gold mine with significant growth potential<sup>(1)</sup>

- 100% owned and operated underground gold mine producing doré via a conventional leaching process
- Average throughput of ~8,289 tpd during 2022 with the phased expansion to 8,500 tpd completed mid-2022

#### Gold Production (koz)(1)



#### **Mineral Reserves & Resources**

		Grade	Contained Metal
	Tonnes	Au	Au
	(Mt)	(g/t)	(koz)
P&P Reserves	48.3	2.02	3,143
M&I Resources	94.4	1.55	4,704
Inferred Resources	40.1	1.56	2,015



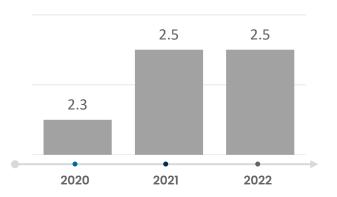


# **SAN VICENTE**

#### // Polymetallic silver mine

- 95% owned and operated underground mine
- Average throughput capacity of ~950 tpd utilizing a standard flotation process to produce silver-zinc and silver-lead concentrates
- Mechanization efforts, enhanced mine dilution controls and improvements in site infrastructure underway to lower production costs

#### **Silver Production** (Moz)



#### **Mineral Reserves & Resources**

			Gro	ade		Contained Metal				
	Tonnes	Ag	Cu	Pb	Zn	Ag	Cu	Pb	Zn	
	(Mt)	(g/t)	(%)	(%)	(%)	(Moz)	(kt)	(kt)	(kt)	
P&P Reserves	1.4	310	0.31	0.28	3.49	14.6	4	4	51	
M&I Resources	1.1	204	0.19	0.23	2.62	7.0	2	3	28	
Inferred Resources	1.5	188	0.22	0.27	2.63	9.2	3	4	40	



ANTOFAGASTA, CHILE

# **EL PEÑON**

#### // Large gold / silver Mine

- 100% owned and operated underground gold and silver mine producing gold and silver doré
- The mine has been in operation since 1999 and has consistently replaced ounces mined
- Average throughput of ~3,714 tpd in 2022

#### Silver & Gold Production(1)



#### Mineral Reserves & Resources

El Peñon

		Gro	ade	Contained Metal			
	Tonnes	Tonnes Au		Au	Ag		
	(Mt)	(g/t)	(g/t)	(koz)	(Moz)		
P&P Reserves	6.1	4.38	158	855	30.8		
M&I Resources	7.8	3.19	106	795	26.5		
Inferred Resources	18.5	1.36	51	805	30.0		



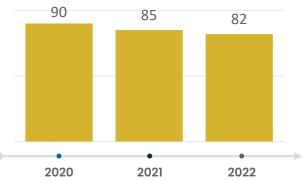
METROPOLITAN REGION, CHILE

# MINERA FLORIDA

// Polymetallic gold mine

- 100% owned and operated underground mine producing gold and silver doré bars and zinc concentrate
- Average throughput of ~2,649 tpd during 2022

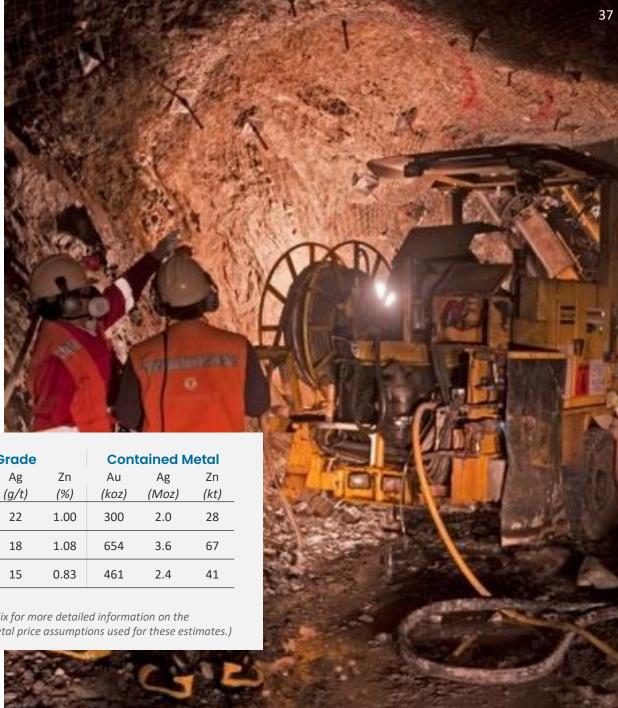
#### Gold Production (koz)(1)



#### Mineral Reserves & Resources

Minera Florida

			Grade		Cont	tained M	letal
	Tonnes	Au	Ag	Zn	Au	Ag	Zn
	(Mt)	(g/t)	(g/t)	(%)	(koz)	(Moz)	(kt)
P&P Reserves	2.9	3.27	22	1.00	300	2.0	28
M&I Resources	6.2	3.30	18	1.08	654	3.6	67
Inferred Resources	4.9	2.93	15	0.83	461	2.4	41



SANTA CRUZ, ARGENTINA

## **CERRO MORO**

// Integrated gold & silver mining complex

- 100% owned and operated open pit and underground gold and silver complex feeding a single processing plant producing gold and silver doré
- Average throughput of ~1,074 tpd in 2022

#### Silver & Gold Production(1)



#### **Mineral Reserves & Resources**

Cerro Moro

		Gro	ade	Contained Metal			
	Tonnes	Ag	Au	Ag	Au		
	(Mt)	(g/t)	(g/t)	(Moz)	(koz)		
P&P Reserves	1.2	276	7.41	11.3	302		
M&I Resources	0.7	340	4.93	8.2	120		
Inferred Resources	0.7	220	8.66	4.9	192		



LA LIBERTAD, PERU

# La Arena II

## LA ARENA II

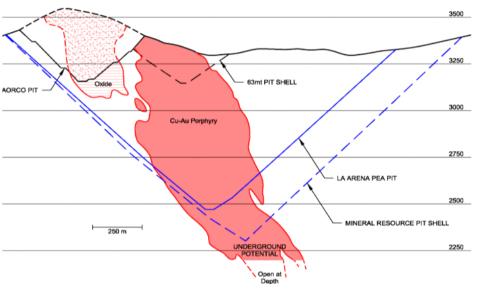
// 100% owned, undeveloped copper porphyry

#### Mineral Resources<sup>2</sup>

(as of June 30, 2023)		Gı	rade	Contair	ned Metal
	Tonnes	Au	Cu	Au	Cu
	(Mt)	(g/t)	(%)	(koz)	(kt)
M&I Resources	708.7	0.23	0.37	5,300	2,633
Inferred Resources	68.2	0.21	0.29	455	159

#### Based on Tahoe PEA February 2018<sup>1</sup>

Mine Type	PEA study projects large Open Pit
Processing	Flotation Processing Plant to be constructed
Products	Copper Concentrate (Doré from smaller oxide resource)
Capacity	Projected to be 80,000 tpd
Modeled Mine Life	21 Year Production Life
Deposit Type	Porphyry



#### **Model Highlights & Key Assumptions**

LT Gold Price	1,300 US\$/oz	Ave. Au Sulphide Grade	0.24 g/t
LT Copper Price	3.30 US\$/lb	LOM Average Cu Mill Recovery Sulphide	87%
LOM Average Milled	28.8 Mtpa	LOM Average Au Mill Recovery Sulphide	60%
Initial Capital	1,346 US\$M	LOM Metal Production – Copper Concentrate	4,465 Mlbs
Sustaining Capital	1,093 US\$M	LOM Metal Production – Gold in Copper Concentrate	2,790 Koz
Avg. Annual Operating Costs	395 US\$M	LOM Gold Doré Production	575 Koz
Ave. Cost Per Tonne Processed	12.87 US\$/mt	NPV At 8%	823.8 US\$M
Sulphide Milled	616.4 Mt	IRR	14.7%
Ave. Cu Sulphide Grade	0.38%	Ave. Annual After Tax Cash Flow	273 US\$M

1. Reference is made to the Technical Report on the La Arena Project, Peru dated February 20, 2018 prepared for Tahoe Resources Inc., a copy of which is filed under the company profile of Tahoe Resources Inc. on SEDAR at <a href="https://www.sedar.com">www.sedar.com</a>. This technical report contains a preliminary economic assessment of the La Arena II copper-gold porphyry project. Preliminary economic assessment is preliminary in nature, and includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves. There is no certainty that the preliminary economic assessment will be realized. As of the date of this presentation, the Qualified Persons named in this presentation are not aware that there is any new material scientific or technical information that would make this disclosure relating to the preliminary economic assessment to be inaccurate or misleading.

2. The expansion of the current La Arena pit has resulted in the removal of a small portion of the La Arena II resources from those reported in the Tahoe 2018 PEA.



#### CHUBUT, ARGENTINA

# **NAVIDAD**

### // One of the largest undeveloped primary silver deposits

- 100% owned silver project
- Project comprises 8 individual mineral deposits in 3 separate mineralized trends
- Scalable production profile with high-grade mineralization at surface
- Development contingent on provincial mining law change

#### **Mineral Resources**

			Grade		Contained Metal			
	Tonnes	Ag	Cu	Pb	Ag	Cu	Pb	
	(Mt)	(g/t)	(%)	(%)	(Moz)	(kt)	(kt)	
M&I Resources	155.2	127	0.06	0.86	632.4	71	1,326	
Inferred Resources	45.9	81	0.02	0.57	119.4	9	262	



ZACATECAS, MEXICO

### LA COLORADA SKARN PROJECT

#### // Mineral Resource Estimate at Different Cut-off Values and Mining Methods

Mining Method	Cut-off Value (US\$/tonne)	Classification	Tonnes (millions)	Zn (%)	Pb (%)	<b>Ag</b> (g/t)	Zn (Mt)	Pb (Mt)	Ag (Moz)
Sub-level Caving	45	Indicated	95.9	2.77	1.28	31	2.66	1.23	94.4
(SLC)	45	Inferred	147.8	2.29	1.04	28	3.39	1.54	132.9
	45	Indicated	101.5	2.66	1.22	30	2.70	1.24	96.3
Sub-level	45	Inferred	153.2	2.03	0.88	25	3.12	1.34	125.1
Shrinkage (SLS)	65	Indicated	67.3	3.08	1.46	33	2.07	0.98	72.1
	05	Inferred	60.8	2.59	1.13	30	1.60	0.68	59.8
	60	Indicated	65.4	3.39	1.62	36	2.22	1.06	75.6
Long-hole Open	60	Inferred	113.8	2.91	1.32	34	3.31	1.50	124.6
Stoping (LHOS)	70	Indicated	56.3	3.62	1.76	38	2.03	0.99	68.0
	70	Inferred	88.5	3.17	1.46	37	2.80	1.29	104.5

- Prices used to report mineral resources were: U\$\$22
  per ounce of silver, U\$\$2,800 per tonne of zinc and
  U\$\$2,200 per tonne of lead.
- 2. An estimate of mineral value per tonne was calculated using metallurgical recoveries of 87.4% Ag, 88% Pb and 93% Zn with mineral concentrate qualities of 67% Pb in lead concentrate and 60% Zn in zinc concentrate, obtained from metallurgical testing. Estimates for transport, payability and refining/selling costs, based on experience and long-term views of the marketing, treating and refining of these types of mineral concentrates, were included.
- This table has been included to reflect the sensitivity of the mineral resource to mining method, potential mineable shapes and costs rather than applying variable cut-off values within a non-selective mining shape.
- The inventories in the table are for sensitivity comparisons to the SLC mineral resource estimate stated above; they do not represent mineral resource estimates in themselves.
- 5. All inventories are in-situ tonnes and metal contents.
- The effective date of the mineral resources estimate is Sept.13, 2022. See our news release dated Sept. 14, 2022 for further information.



### PAN AMERICAN SILVER MINERAL RESERVES As of June 30, 2023 (1)

Property	Location	Classification	Tonnes (Mt)	Ag (g/t)	Contained Ag (Moz)	Au (g/t)	Contained Au (Koz)	Cu (%)	Contained Cu (Kt)	Pb (%)	Contained Pb (Kt)	Zn (%)	Contained Zn (Kt)
Silver Segment													
Huaron	Peru	Proven Probable	6.0 3.3	174 166	33.4 17.5	-	-	0.62 0.45	36.7 14.7	1.53 1.74	91.3 57.1	3.06 3.11	182.5 102.1
La Colorada	Mexico	Proven Probable	5.0 4.2	296 292	47.2 39.1	0.21 0.19	33.8 25.3	-	-	1.25 1.26	61.9 52.5	2.15 2.22	106.6 92.7
Morococha (92.3%) <sup>(2,3)</sup>	Mexico	Proven Probable	3.3 3.3	156 158	16.6 16.6	-	-	0.44 0.32	14.7 10.6	1.31 1.43	43.3 46.5	3.95 3.78	130.7 123.1
San Vicente (95%) <sup>(2)</sup>	Bolivia	Proven Probable	0.7 0.7	341 278	8.2 6.4	-	-	0.34 0.27	2.5 1.9	0.35 0.21	2.6 1.5	3.67 3.30	27.5 23.6
Escobal	Guatemala	Proven Probable	2.5 22.1	486 316	39.5 225.0	0.42 0.34	34.2 243.8	-	-	1.02 0.77	25.7 169.9	1.75 1.25	44.4 275.7
Cerro Moro		Proven Probable	0.5 0.7	330 237	5.7 5.6	6.33 8.18	109.7 192.2	-	-	-	-	-	-
Total Silver Segment <sup>(3)</sup>			52.3	274	460.8	0.57	639.1	0.47	81.0	1.08	552.4	2.17	1,108.8
Gold Segment													
La Arena	Peru	Proven Probable	15.1 17.5	- -	-	0.38 0.28	183.4 159.7	- -	-	- -	-	-	-
Dolores	Mexico	Proven Probable	6.3 1.3	17 24	3.4 1.0	0.53 0.53	108.6 22.1	-	-	-	-	-	-
Shahuindo	Peru	Proven Probable	58.8 33.6	8 6	15.1 6.8	0.51 0.40	967.8 436.8	-	- -	-	-	-	-
Timmins	Canada	Proven Probable	5.0 4.7	-	-	2.93 2.80	473.5 419.4	-	-	-	-	-	-
Jacobina	Brazil	Proven Probable	27.0 21.3	-	-	2.00 2.06	1,737.8 1,404.8	-	-	-	-	-	-
El Peñon	Chile	Proven Probable	0.9 5.2	213 148	6.2 24.6	5.35 4.21	155.6 699.5	-	-	-	-	-	-
Minera Florida	Chile	Proven Probable	0.9 2.0	26 20	0.7 1.3	3.25 3.28	89.6 210.6	-	-	-	-	1.15 0.93	9.8 18.6
MARA (56.25%) <sup>(3)</sup>	Argentina	Proven Probable	330.3 291.2	3 3	32.1 24.6	0.25 0.16	2,654.8 1,497.7	0.57 0.39	1,882.7 1,135.5	-	-	-	-
Jeronimo (57%) <sup>(3)</sup>	Argentina	Proven Probable	6.4 2.3	-	-	3.91 3.79	798.3 284.1	-	-	-	-	-	-
Total Gold Segment <sup>(4)</sup>			829.6	5	115.8	0.46	12,304.2	0.49	3,018.2	-	-	0.99	28.4
Total Gold and Silver Segments <sup>(4)</sup>		Proven + Probable	881.9	23	576.6	0.47	12,943.3	0.49	3,099.2	1.08	552.4	2.11	1,137.2

- (1) See table below entitled "Metal price assumptions used to estimate mineral reserves and mineral resources as at June 30, 2023".
- (2) This information represents the portion of mineral reserves attributable to Pan American based on its ownership interest in the operating entity as indicated.
- (3) As announced on July 31, 2023, and subsequent to the effective date of the mineral reserve and mineral resource update as at June 30, 2023, Pan American divested Morococha, MARA and Jeronimo. The corresponding mineral reserves and mineral resources will be removed on completion of those transactions.
- (4) Totals may not add up due to rounding. Total average grades of each metal are with respect to those mines that produce the metal.



### PAN AMERICAN SILVER MEASURED +INDICATED RESOURCES

as of June 30, 2023 (1,2)

- (1) See table below entitled "Metal price assumptions used to estimate mineral reserves and mineral resources as at June 30, 2023".
- (2) Mineral resources are reported exclusive of mineral reserves.
- (3) This information represents the portion of mineral resources attributable to Pan American based on its ownership interest in the operating entity as indicated.
- (4) As announced on July 31, 2023, and subsequent to the effective date of the mineral reserve and mineral resource update as at June 30, 2023, Pan American divested Morococha, MARA and Jeronimo. The corresponding mineral reserves and mineral resources will be removed on completion of those transactions.
- (5) Totals may not add up due to rounding. Total average grades of each metal are with respect to those mines that produce the metal.



Property	Location	Classification	Tonnes (Mt)	Ag (g/t)	Contained Ag (Moz	) Au (g/t)	Contained Au (Koz)	Cu (%)	Pb (%)	Zn (%)
Silver Segment										
Huaron	Peru	Measured Indicated	1.4 1.8	180 173	8.2 10.2	-	-	0.30 0.30	1.95 1.86	3.15 3.06
La Colorada	Mexico	Measured Indicated	0.7 2.5	153 182	3.6 14.6	0.13 0.19	3.0 15.0	-	0.64 0.87	1.18 1.41
Morococha (92.3%) <sup>(3,4)</sup>	Peru	Measured Indicated	0.6 0.7	130 124	2.7 3.0	-	-	0.64 0.61	0.79 0.74	2.59
La Colorada Skarn	Mexico	Indicated	95.9	31	94.4	-	-	-	1.28	2.77
Manantial Espejo	Argentina	Measured	0.3 1.0	164 149	1.7	2.40 2.79	24.7 91.5	-	-	-
Joaquin	Argentina	Indicated Measured	0.1	360	4.9 1.5	0.28	1.2	-	-	-
San Vicente (95%) <sup>(3,4)</sup>	Bolivia	Indicated Measured	0.4 0.8	351 200	4.2 5.1	0.28	3.4	0.19	0.23	2.57
Navidad	Argentina	Indicated Measured	0.3 15.4	213 137	1.9 67.8	-	-	0.20 0.10	0.24 1.44	2.78
	Ü	Indicated	139.8	126	564.5	-	-	0.04	0.79	-
Escobal	Guatemala	Measured	2.3	251	18.6	0.23	16.7	-	0.31	0.59
Cours Mana	A	Indicated	14.2	201	91.6	0.20	93.0	-	0.38	0.66
Cerro Moro	Argentina	Measured Indicated	0.1 0.6	287 349	1.1 7.1	7.09 4.57	26.5 93.0	-	-	-
Total Silver Segment <sup>(5)</sup>			279.1	101	906.6	0.51	368.0	0.06	0.98	2.45
Gold Segment										
Dolores	Mexico	Measured	5.5	23	4.0	0.33	57.7	-	-	-
La Bolsa	Mexico	Indicated Measured	0.7 10.8	70 10	1.5 3.5	1.35 0.70	28.7 242.8	-	-	-
Pico Machay	Peru	Indicated Measured	10.6 4.7	8	2.7	0.54 0.91	184.3 137.5	-	-	-
Tico Machay	reru	Indicated	5.9	-	-	0.67	127.1	-	-	-
La Arena	Peru	Measured Indicated	1.2 2.1	-	-	0.25 0.16	9.5 11.1	-	-	-
Shahuindo	Peru	Measured	5.4	6	1.1	0.31	53.6	-	-	-
Timmins	Canada	Indicated Measured	7.1 2.6	5	1.2	0.33 2.77	75.8 233.0	-	-	-
		Indicated	2.3	-	-	2.48	185.4	-	-	-
Jacobina	Brazil	Measured Indicated	49.1 45.3	-	<del>-</del> -	1.61 1.48	2541.3 2162.4	-	-	-
El Peñon	Chile	Measured Indicated	1.1 6.7	146 99	5.2 21.3	4.10 3.04	145.2 650.2	-	-	-
Minera Florida	Chile	Measured	1.7	18	1.0	3.21	172.6	-	-	1.23
La Arena II	Peru	Indicated Measured	4.5 154.1	18	2.6 -	3.32 0.25	481.3 1255.4	0.38	-	1.03
		Indicated	554.6	-	-	0.23	4044.9	0.37	-	-
MARA (56.25%)-Agua Rica <sup>(4)</sup>	Argentina	Measured Indicated	30.2 116.0	1.6 1.9	1.5 6.9	0.13 0.11	126.0 410.4	0.22 0.30	-	-
MARA (56.25%)-Alumbrera <sup>(4)</sup>	Argentina	Measured	65.3	-	-	0.31	650.8	0.31	-	-
Jeronimo (57%) <sup>(4)</sup>	Chile	Indicated Measured	5.2 0.8	-	-	0.29 3.77	48.1 93.6	0.21	-	-
La Dana (200/)		Indicated	0.4	-	-	3.69	45.7	-	-	-
La Pepa (80%)	Chile	Measured Indicated	47.1 52.3	-	-	0.61 0.49	922.8 824.3	-	-	-
Lavra Velha	Brazil	Indicated	4.5	-	-	1.96	282.1	-	-	-
Whitney(82.8%) <sup>(3)</sup>	Canada	Measured Indicated	0.8 1.9	-	- -	7.02 6.77	180.7 406.3	-	-	-
Gold River	Canada	Indicated	0.7	-	-	5.29	117.4	-	-	-
Marlhill	Canada	Indicated	0.4	-	-	4.52	57.4	-	-	-
Vogel	Canada	Indicated	2.2	-	-	1.75	125.0	-	-	-
Total Gold Segment <sup>(5)</sup>			1203.6	8	52.6	0.44	17090.1	0.35	-	1.09
Total Gold and Silver		Measured +	1482.7	62	959.1	0.44	17458.1	0.31	0.98	2.39
Segments <sup>(5)</sup>		Indicated								

### PAN AMERICAN SILVER INFERRED MINERAL RESOURCES as of June 30, 2023 (1,2)

Property	Location	Classification	Tonnes (Mt)	Ag (g/t)	Contained Ag (Moz)	Au (g/t)	Contained Au (koz)	Cu (%)	Pb (%)	Zn (%)
Silver Segment										
Huaron	Peru	Inferred	5.9	164	31.2	-	-	0.35	1.76	2.87
La Colorada	Mexico	Inferred	14.7	174	82.2	0.20	93.0		0.94	1.67
Morococha (92.3%)(3,4)	Mexico	Inferred	5.2	143	24.0	-	-	0.35	1.28	3.74
La Colorada Skarn	Mexico	Inferred	147.8	28	132.9	-	-	-	1.04	2.29
Manantial Espejo	Argentina	Inferred	0.5	106	1.8	1.49	25.2	-	-	-
San Vicente (95%) (3)	Bolivia	Inferred	1.5	188	9.2	-	-	0.22	0.27	2.63
Cerro Moro	Argentina	Inferred	0.7	220	4.9	8.66	191.6	-	-	-
Navidad	Argentina	Inferred	45.9	81	119.4	-	-	0.02	0.57	-
Joaquin	Argentina	Inferred	0.2	280	1.4	0.25	1.2	-	-	-
Escobal	Guatemala	Inferred	1.9	180	10.7	0.90	53.7	-	0.22	0.42
Total Silver Segment <sup>(5)</sup>			224.3	58	417.7	0.63	364.8	0.09	0.95	2.29
Gold Segment										
Dolores	Mexico	Inferred	1.3	40	1.7	1.18	50.3	-	-	-
La Bolsa	Mexico	Inferred	13.7	8	3.3	0.51	224.6	-	-	-
Pico Machay	Peru	Inferred	23.9	-	-	0.58	445.7	-	-	-
La Arena	Peru	Inferred	5.8	-	-	0.23	43.4	-	-	-
Shahuindo	Peru	Inferred	10.1	8	2.4	0.38	124.4	-	-	-
Timmins	Canada	Inferred	3.8	-	-	3.11	383.5	-	-	-
Jacobina	Brazil	Inferred	40.1	-	-	1.56	2,014.7	-	-	-
El Peñon	Chile	Inferred	18.5	51	30.0	1.36	804.5	-	-	-
Minera Florida	Chile	Inferred	4.9	15	2.4	2.93	461.1	-	-	0.83
La Arena II	Peru	Inferred	68.2	-	-	0.21	454.6	0.24	-	-
Whitney (82.8%) <sup>(3)</sup>	Canada	Inferred	0.8	-	-	5.34	141.4		-	-
MARA (56.25%)-Agua Rica <sup>(4)</sup>	Argentina	Inferred	417.9	2	21.8	0.09	1,209.2	0.23	-	-
MARA (56.25%)-Alumbrera <sup>(4)</sup>	Argentina	Inferred	1.7	-	-	0.23	12.6	0.17	-	-
Jeronimo(57%) <sup>(4)</sup>	Chile	Inferred	1.1	-	-	4.49	161.4	-	-	-
Arco Sul	Brazil	Inferred	6.2	-	-	3.08	614.2	-	-	-
La Pepa (80%)	Chile	Inferred	20.0	-	-	0.46	296.1	-	-	-
Lavra Velha	Brazil	Inferred	4.7	-	-	1.56	238.0	-	-	-
Gold River	Canada	Inferred	5.3	-	-	6.06	1,027.4	-	-	-
Vogel	Canada	Inferred	1.5	-	-	3.60	168.8	-	-	-
Dolores	Mexico	Inferred	1.3	40	1.7	1.18	50.3	-	-	-
Total Gold Segment <sup>(5)</sup>			649.6	4	61.6	0.42	8,875.9	0.23		0.83
Total Gold + Silver Segments (5)		Inferred	873.9	22	479.4	0.43	9,240.7	0.22	0.95	2.25

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- (5) Totals may not add up due to rounding. Total average grades of each metal are with respect to those mines that produce the metal.



### METAL PRICE ASSUMPTIONS USED TO ESTIMATE MINERAL RESERVES AND RESOURCES

as of June 30, 2023

Mine	Category	Ag US\$/oz	Au US\$/oz	Cu US\$/t	Pb US\$/t	Zn US\$/t
Huaron	All categories	19.00	1,300	7,000	2,000	2,600
Morococha	All categories	19.00	1,300	7,000	2,000	2,600
La Colorada	All categories	19.00	1,300	7,000	2,000	2,600
La Colorada Skarn	Resource	22.00			2,200	2,800
Dolores	Reserves	19.00	1,600			
	Resources	22.00	1,700			
La Bolsa	All categories	14.00	825			
Manantial Espejo	Resources	22.00	1,700			
San Vicente	All categories	19.00	1,300	7,000	2,000	2,600
Navidad	All categories	12.52			1,100	
Pico Machay	All categories		700			
Joaquin	Resources	22.00	1,700			
Escobal	All categories	20.00	1,300		2,204	2,424
Shahuindo	Reserves	19.00	1,500			
	Resources	22.00	1,700			
La Arena	Reserves	19.00	1,500			
	Resources	22.00	1,700			
La Arena II	All categories		1,500	8,816		
Bell Creek	All categories	19.00	1,500			
Timmins	All categories	19.00	1,500			
Whitney	Resources		1,200			
Gold River	Resources		1,200			
Marlhill	Resources		1,125			
Vogel	Inside pit		1,150			
	Below pit		1,150			
Jacobina	Reserves		1,500			
	Resources		1,700			
Cerro Moro	Reserves	19.00	1,600			
	Resources	22.00	1,700			
El Peñon	Reserves	18.00	1,250			
	Resources	18.00	1,250			
Minera Florida	Reserves	19.00	1,500			2,600
	Resources	22.00	1,700			2,800
Jeronimo	Reserves		900			
	Resources		900			
MARA Agus Biss	Reserves	18.00	1,250	6,613		
MARA Agua Rica	Resources	24.00	1600	8,818		
MARA Alumbrera	Resources		1,300	6,239		
Arco Sul	Resources		1,250			
La Pepa	Resources		1,650			
Lavra Velha	Resources		1,650			
			*			



### GENERAL NOTES APPLICABLE TO THE FOREGOING TABLES:

All mineral reserves and mineral resources have been estimated in accordance with the standards of the Canadian Institute of Mining, Metallurgy and Petroleum and National Instrument 43-101. Mineral resources are reported exclusives of mineral reserves.

Pan American does not expect these mineral reserve and mineral resource estimates to be materially affected by metallurgical, environmental, permitting, legal, taxation, socio-economic, political, and marketing or other relevant issues.

The Company has undertaken a verification process with respect to the data disclosed in this presentation. The mineral resource and mineral reserves databases comprising drilling and, in some cases, surface and underground sampling, have been compiled at each of the Pan American mine sites by the qualified staff. All the assay data used in the resource evaluation provided by each of the mines has been subjected to the industry standard quality assurance and quality control ("QA/QC") program including the submission of certified standards, blanks, and duplicate samples. The results are reviewed monthly by management. The results of the QA/QC samples submitted for the resource databases demonstrate acceptable accuracy and precision. The Qualified Person is of the opinion that the sample preparation, analytical, and security procedures followed for the samples are sufficient and reliable for the purpose of this mineral resource and mineral reserve estimates. Pan American is not aware of any drilling, sampling, recovery or other factors that could materially affect the accuracy or reliability of the data reported herein.

For additional information regarding Pan American's material mineral properties prior to the completion of the acquisition of Yamana, including detailed information concerning associated QA/QC and data verification matters, the key assumptions, parameters and methods used by Pan American to estimate mineral reserves and mineral resources, and for a detailed description of known legal, political, environmental, and other risks that could materially affect the Pan American's business and the potential development of the Pan American's mineral reserves and mineral resources, please refer to Pan American's Annual Information Form dated February 22, 2023, filed at www.sedarplus.ca, or Pan American's most recent Form 40-F filed with the United States Securities and Exchange Commission (the "SEC").

For further information about the material mineral projects acquired pursuant to the acquisition of Yamana, please refer to Yamana's Annual Information Form dated March 29, 2023, filed at www.sedarplus.ca or Yamana's most recent Form 40-F filed with the SEC.

Quantities and grades of contained metal are shown before metallurgical recoveries.

Technical information contained in this presentation with respect to Pan American has been reviewed and approved by Sébastien Bernier P. Geo., Senior Director, Reserves and Resources, Christopher Emerson, FAusIMM., Vice President of Exploration and Geology, and Martin Wafforn, P.Eng., Senior Vice President Technical Services and Process Optimization, who are each Qualified Persons for the purposes of National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101").

Pan American Silver Corp. is authorized by The Association of Professional Engineers and Geoscientists of the Province of British Columbia to engage in Reserved Practice under Permit to Practice number 1001470.

Please refer to the cautionary information on mineral reserves and mineral resources on page 3 of this presentation.





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