

PRESENTATION // SEPTEMBER 2025



PAN AMERICAN
— SILVER —

THE WORLD'S PREMIER SILVER MINING COMPANY

NYSE | TSX
PAAS

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", "free cash flow", "total availability liquidity", and "capital". These measures do not have any standardized meaning prescribed by IFRS and are therefore unlikely to be comparable to similar measures presented by other companies. Pan American's silver segment AISC are calculated net of credits for realized revenues from all metals other than silver and are calculated per ounce of silver sold. Pan American's gold segment AISC are calculated net of credits for realized revenues from all metals other than gold and are calculated per ounce of gold sold.

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, 2025 available at www.sedarplus.ca.

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, including any information relating to Pan American's future oriented financial information, 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: the benefits expected to be derived from Pan American's acquisition of MAG Silver Corp. ("MAG"); Juanicipio's forecasted production in 2025; Juanicipio's expected free cash flow; estimated mineral reserve and mineral resource information; expectations regarding the ILO 169 consultation process with respect to

Escobal; Pan American's future growth and exploration success; Pan American's future return of capital to shareholders; Pan American's liquidity; Pan American's forecasted silver production in 2025; Pan American's free cash flow in 2025; expectations regarding mineral reserve replacement; and Pan American's planned sale of its interest in La Pepa; expectations regarding the Jacobina optimization study and any benefits expected to be derived therefrom; and Pan American's plans and expectations for its properties and operations.

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; future anticipated prices for gold, silver and other metals and assumed foreign exchange rates; the timing and impact of planned capital expenditure projects, including anticipated sustaining, project, and exploration expenditures; the ongoing impact and timing of the court-mandated ILO 169 consultation process in Guatemala; risks related to increased barriers to trade, including tariffs and duties; ore grades and recoveries; capital, decommissioning and reclamation estimates; our mineral reserve and mineral 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 mineral properties and the surface rights necessary for our operations, including contractual rights from third parties and adjacent property owners; 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 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: the duration and effect of local and world-wide inflationary pressures, tariffs and the potential for economic recessions; 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; 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, 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; those factors identified under the caption "Risks Related to Our Business" in Pan American'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.

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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C O N T I N U E D

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

All mineral reserves and mineral resources have been estimated in accordance with the *CIM Definition Standards on Mineral Resources and Mineral Reserves*, adopted by the CIM Council, as amended (the “CIM Standards”) and reported in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects* (“NI 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 resources 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 these 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. Quantities and grades of contained metal are shown before metallurgical recoveries.

For further information on the Company’s pre-MAG transaction material mineral properties, including detailed information concerning associated

QA/QC and data verification matters, the key assumptions, parameters and methods used by the Company 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 Company’s business and the potential development of the Company’s mineral reserves and mineral resources, see the Company’s Annual Information Form dated February 19, 2025, available on the Company’s profile at www.sedarplus.ca.

Technical information contained in this presentation with respect to Pan American has been reviewed and approved by Christopher Emerson, FAusIMM., Senior Vice President of Exploration and Geology, Christopher Wright P.Geol. Vice President Mineral Resource Management and Martin Wafforn, P.Eng., Senior Vice President Technical Services and Process Optimization, who are all Qualified Persons for the purposes of 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.

Pan American completed the acquisition of MAG on September 4, 2025, which added a 44% joint venture interest in the large-scale, high-grade Juanicipio silver mine in Zacatecas, Mexico, operated by Fresnillo plc, along with MAG’s interests in the Deer Trail and Larder exploration projects (collectively, the “MAG Properties”). For information regarding the MAG Properties, please see MAG’s Annual Information Form dated March 24, 2025, filed at www.sedarplus.ca.

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 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. U.S. investors are advised that, while such terms are recognized and required by Canadian securities laws, the SEC does not recognize them. The requirements of NI 43-101 for identification of “reserves” are not the same as those of the SEC and may not qualify as “reserves” under SEC standards. Under U.S. standards, mineralization may not be classified as a “reserve” unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time the reserve determination is made. U.S. investors are cautioned not to assume that any part of an “indicated resource” will ever be converted into a “reserve”. U.S. investors should also understand that “inferred mineral resources” have a great amount of uncertainty as to their existence and great uncertainty as to their economic and legal feasibility. It cannot be assumed that all or any part of “inferred resources” exist, are economically or legally mineable or will ever be upgraded to a higher category. Under Canadian securities laws, estimated “inferred mineral resources” may not form the basis of feasibility or pre-feasibility studies except in rare cases.



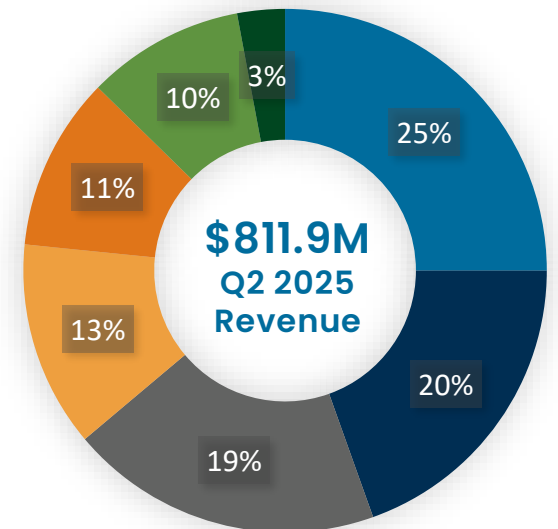
DIVERSIFIED ASSETS + GROWTH CATALYSTS

// Pan American's portfolio offers scale & quality in the Americas, where we have been operating for over 30 years

- 10 producing silver and gold operations¹
- Advancing an extensive mine optimization study at **Jacobina**
- Potential for silver growth: **La Colorada Skarn, Escobal & Navidad**
- Large silver & gold mineral reserves: 452 Moz Ag and 6.3 Moz Au²

Revenue by Jurisdiction³

For the period ended June 30, 2025

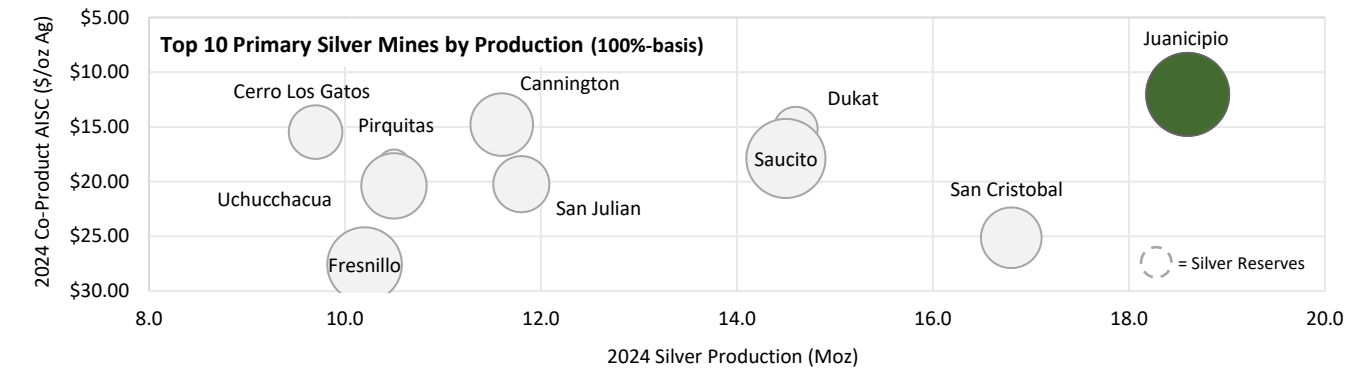


1. Excludes Dolores, which has entered the residual leaching phase.
2. Pan American estimated mineral reserves and mineral resources reported as of June 30, 2025. See slides 42 – 47 for more detailed information on the Company's reserves and resources. Pan American's mineral reserve estimates do not include the mineral reserves resulting from the Company's acquisition of MAG Silver Corp. ("MAG" or "MAG Silver") which was completed on September 4, 2025. Please refer to the news releases dated May 11, 2025 and September 4, 2025 for details.
3. Figures may not sum to 100% due to rounding.

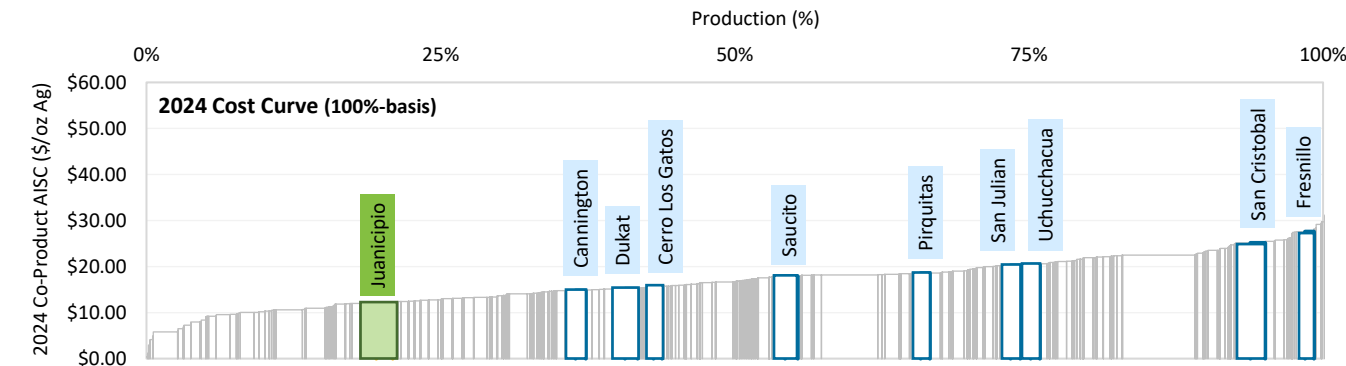
JUANICIO: ONE OF THE BEST SILVER MINES GLOBALLY

// Juanicipio is a large-scale, high-grade, low-cost silver mine located in Zacatecas, Mexico

Juanicipio is the Largest-Scale and Lowest-Cost Primary Silver Mine Globally¹

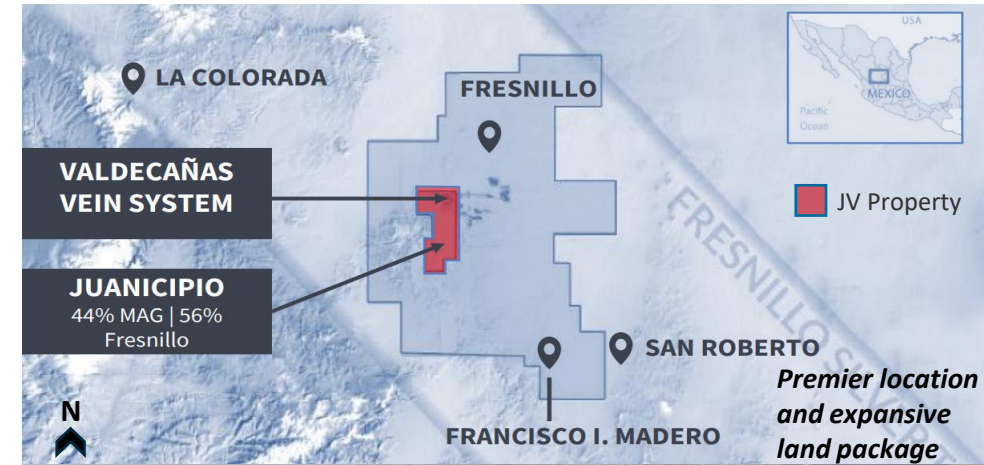


Rare Opportunity to Acquire 1st Quartile Silver Asset¹



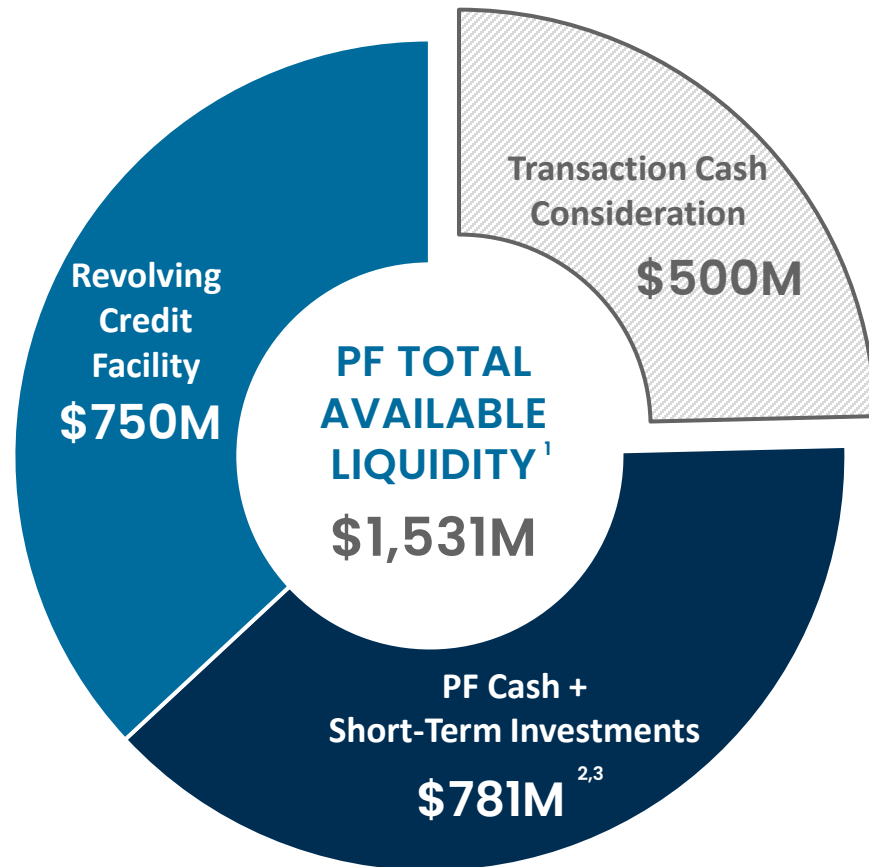
Source: The Silver Institute, S&P Global, company filings.

1. Figures are 2024 figures as per S&P Global, except Uchucchacua and Cerro Los Gatos based on 2025 forecasts given limited data availability. AISC is a non-GAAP measure; figures are displayed on a co-product basis and is calculated by S&P Global. As a result, figures may not tie with what is provided in each company's respective public disclosure.



STRONG FINANCIAL POSITION

// Deploys portion of cash balance in a measured and strategic manner to invest in silver growth



At June 30, 2025:

- **Cash + short-term investments of \$1,109M**
- **Total debt⁴ of \$821M**
primarily related to senior notes:
\$283M with 4.625% coupon maturing in December 2027
\$500M with 2.63% coupon maturing in August 2031

Note: As at June 30, 2025, unless otherwise specified.

1. Total Available Liquidity is a non-GAAP measure calculated as cash and cash equivalents *plus* short-term investments, *plus* undrawn amounts under the revolving credit facility. See the "Non-GAAP Measures" section of our Cautionary Note on slide 2 of this presentation.
2. Includes MAG's cash (\$172M) as at June 30, 2025 *plus* Pan American's cash and short-term investments (\$1,109M) as at June 30, 2025 *less* cash consideration (\$500M).
3. Excludes transaction costs and attributable cash held in the Juanicipio joint venture.
4. Total debt is a non-GAAP measure calculated as the total current and non-current portions of: debt, including senior notes and amounts drawn on the Revolving Credit Facility, and lease obligations. The senior notes are carried at \$701.6 million as at June 30, 2025 and accreted to the face value over their respective terms using an effective interest rate of 5.52%.