



**Building the largest  
pure-play silver  
producer globally**

**INVESTOR  
PRESENTATION**

**APRIL 2024**

TSX: AYA | OTCQX: AYASF

# Forward-Looking Statements

The Zgounder Expansion Feasibility Study (“FS”) is based on a technical report entitled “NI43-101 TECHNICAL REPORT – FEASIBILITY STUDY ZGOUNDER EXPANSION PROJECT”, originally dated March 31, 2022, and amended on June 16, 2022 with an effective date of December 13, 2021 (the “Zgounder Report”) which was prepared under the supervision of Daniel M. Gagnon, DRA, with the participation of William Stone, Antoine Yassa, Jarita Barry, Fred Brown, Eugene Puritch, Daniel Morrison, André-François Gravel, Claude Bisailon, Julie Gravel, Kathy Kalenchuk, Hugo Della Sbarba, Philippe Rio Roberge, Richard Barbeau & Stephen Coates all “qualified persons” for the purpose of the Zgounder Report. Scientific and technical information contained in this presentation has been reviewed and approved David Lalonde, B.Sc, Aya’s Head of Exploration and a QP as defined under NI 43-101. Mineral Resources are reported exclusive of Mineral Reserves and as such the Mineral Resources do not have demonstrated economic viability. Numbers may not add or multiply accurately due to rounding. Inferred Mineral Resources are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is therefore no certainty that the conclusions of the initial exploration drilling results will be realized. Additionally, where the Company discusses exploration/expansion potential, any potential quantity and grade is conceptual in nature and there has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the target being delineated as a Mineral Resource. Varying cut-off grades have been used depending on the mine, methods of extraction and type of ore contained in the reserves. Mineral resource metal grades and material densities have been estimated using industry-standard methods appropriate for each mineral project with support of various commercially available mining software packages. Additional details regarding Mineral Reserve and Mineral Resource estimation, classification, reporting parameters, key assumptions and associated risks for each of the Company’s mineral properties are provided in the respective NI 43-101 Technical Reports which are available at [www.sedar.com](http://www.sedar.com) and the Company’s website at [www.ayagoldsilver.com](http://www.ayagoldsilver.com).

Certain statements and information contained in this presentation are “forward-looking information” within the meaning of applicable securities laws. Such statements involve known and unknown risks, uncertainties and assumptions and accordingly actual results and events may differ materially from those implied or expressed therein. This includes statements such as “expected”, “anticipated”, “growth”, “demonstrate”, “high-potential”, “developing”, “lower”, “prospective”, “adding”, “continuous”, “will”, “timeline”, “favorable”, “opportunities”, “backstopped”, “expand”, “extend”, “expected”, “continue”, “potential”, “deliver”, “complete”, “achieve”, “growing”, “increasing”, as well as statements by the Corporation concerning expected timelines, including the expected timeline for the Corporation to produce new resources

estimates, and exploration results, including deposit size, quantities, grades and contained metals, which are generally made on the basis of estimations and extrapolations from a limited number of drill holes and assays. These estimations and extrapolations are subject to uncertainties, which include but are not limited to uncertainty in connection with evaluating a deposit until the deposit has been extensively drilled on closely spaced centers. Should one or more of these underlying estimations or extrapolations prove incorrect, actual results may vary materially from those described in forward-looking statements.

Forward-looking statements contained herein also include the Corporation’s plans for its mineral properties, which involve known and unknown risks, uncertainties and other factors which may cause the Corporation’s actual results, performance or achievements, or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking information. Forward-looking information is subject to a variety of risks and uncertainties, which could cause actual events or results to differ from those reflected in the forward-looking information, including, without limitation, the ability of the Corporation to continue to access capital markets for the funding necessary to acquire and maintain exploration properties and to carry out its desired exploration programs; difficulties in executing exploration programs according to the Corporation’s proposed schedules and within its cost estimates, whether due to weather conditions in the areas where it operates, increasingly stringent environmental regulations and other permitting restrictions, or the availability of essential supplies and services; and factors beyond the capacity of the Corporation to anticipate and control, such as the marketability of minerals, government regulations relating to health, safety and the environment, and the scale and scope of royalties and taxes on production and other risks described in the Corporation’s documents filed with Canadian securities regulatory authorities. You can find further information with respect to these and other risks in the Corporation’s 2023 Q4 MD&A, and other filings made with Canadian securities regulatory authorities and available at [www.sedarplus.ca](http://www.sedarplus.ca). Should one or more of these risks or uncertainties materialize, actual results may vary materially from those described in forward-looking statements.

Accordingly, readers are advised and cautioned not to place undue reliance on forward-looking information. Except as required under applicable securities legislation, the Corporation undertakes no obligation to publicly update or revise forward-looking information, whether as a result of new information, future events or otherwise.

# 1

## AYA

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1. Aya
2. Zgounder Silver Mine
3. Exploration
4. Catalysts



# Aya / Proven Management Team



**Benoit La Salle, FCPA, MBA**  
President & CEO, Director

Benoit has over 25 years of experience as a corporate executive in the mining industry. Benoit founded, developed and led SEMAFO into a 250,000 oz gold producer in West Africa, delivering more than a billion dollars of value to shareholders. Benoit holds a BCom from McGill University and an MBA from IMEDE, Switzerland.



**Mustapha Elouafi**  
President-Managing Director,  
Morocco

Mustapha is an established mining executive with almost 30 years in mining and senior management in Morocco and MENA. Previously, he was Managing Director of OCP S.A., the world's largest producer of phosphate and phosphate-based products, and served as president of affiliates of OCP Group. A graduate of the Mohammadia School of Engineering in Morocco, Mr. Elouafi holds an Executive MBA from École des Ponts Business School in Paris.



**Ugo Landry-Tolszczuk**  
Chief Financial Officer

Ugo's involvement with Africa spans 12 years of his 15-year professional experience and includes positions as President and COO of TSXV-listed SRG Mining and director of operations for Windiga Energy. A CFA charter holder, Ugo holds a bachelor's degree of applied science in computer engineering, management science option, from the University of Waterloo.



**Elias Elias**  
Chief Legal and  
Sustainability Officer

Elias brings with him over 15 years of legal experience, mainly focused on advising West African-focused mining and energy companies such as SRG Mining, Sama Resources, Windiga Energy and SEMAFO. Elias holds a civil law degree (summa cum laude), a common law degree (cum laude) from the University of Ottawa and has been a member of the Barreau du Québec since 2007.



**David Lalonde**  
Head of Exploration & Aya's  
Qualified Person

David is a geologist with over 20 years of experience in progressively senior exploration roles. His expertise has been acquired in Canada and internationally (Russia, West Africa, and Oman), primarily in precious metals exploration with SEMAFO Inc. and Kinross Gold. Prior to joining Aya, David was head of exploration for MDO, Oman's government-backed mining company. David earned his B.Sc. in geology at Université du Québec à Montréal.



**Alex Ball**  
Vice-President, Corporate  
Development & Investor Relations

During his more than 15-year corporate finance career, Alex managed \$5 billion in debt, equity financings and M&A transactions in mining with UBS Canada, CIBC World Markets, and BMO Capital Markets. Previously, he was Executive Vice-President, Finance & Corporate Development at Algold Resources. Alex has an MBA majoring in finance from University of Toronto's Rotman School of Management and a BA in Economics from McGill University.



**Meryem Baroudi**  
Dir, HR & General Affairs

Meryem Baroudi has over 20 years' experience in human resources management in the mining industry. Prior to Aya, Meryem worked as an independent HR expert consultant for large companies in different sectors. Before this, she held different HR mgmt. positions at OCP S.A., the world's largest producer of phosphate and phosphate-based products, where she began her career as an engineer in operations in 1997. Meryem earned a degree in civil engineering at "Ecole Hassania des Travaux Publics" in Morocco.



**Raphaël Beaudoin**  
Vice-President,  
Operations

Raphaël has over 10 years of mineral processing experience across various operations and projects in West Africa and Canada. Prior to Aya, Raphaël was Vice-President, Operations, Metallurgy and Process Design at SRG Mining and director of operations at Sama Resources, two resource companies focused on West African projects. Before this, he held positions of increasing responsibility at Canadian Royalties Inc. Raphaël earned a degree in materials engineering at McGill University.

# Aya / Experienced Board of Directors



**Benoit La Salle, FCPA, MBA**  
President & CEO, Director

Benoit has over 25 years of experience as a corporate executive in the mining industry. Benoit founded, developed and led SEMAFO into a 250,000 oz gold producer in West Africa, delivering more than a billion dollars of value to shareholders. Benoit holds a BCom from McGill University and an MBA from IMEDE, Switzerland.



**Robert Taub**  
Chair

Robert is an entrepreneur in life sciences and investor in several pharmaceutical and medical device companies. Mr. Taub is currently chairman of a NASDAQ-listed company. Robert holds a BA Languages from the University of Antwerp, Belgium and an MBA from INSEAD, France.



**Natacha Garoute, CPA, CA**  
Director

Natacha has more than 20 years of finance experience as a CPA, including with Champion Iron Limited, Roxgold Inc., and SEMAFO Inc. Currently, she is CFO of Patriot Battery Metals Inc. Ms. Garoute holds a BCom from the Université du Québec à Montréal and a law degree from the Université de Montréal.



**Yves Grou, CPA, CA**  
Director

A CPA CA, Yves holds a degree in Commerce (BCom) from McGill University. He is a member of the Québec Institute of Chartered Professional Accountants. Between 1980 and 2004, he was co-founder and partner of Grou La Salle & Associates. Mr. Grou coordinated and led reverse take-over processes related to several public companies.



**Dr. Jürgen Hambrecht**  
Lead Director

Dr. Jürgen Hambrecht served BASF in various capacities around the world for more than 40 years, lastly as CEO and Chairman of the Supervisory Board. He has served on a multitude of board including Daimler Truck AG, Mercedes Benz AG, Bosch, Lufthansa AG, and Fuchs SE. Currently, he is Chairman of Trumpf SE. Dr. Hambrecht earned his doctorate in Chemistry in 1975 from the University of Tübingen, Germany.



**Annie Torkia Lagacé**  
Director

Annie brings over 20 years of legal and financial experience, mainly within the mining and aerospace sectors. Until recently, Ms. Torkia Lagacé held the position of Senior-Vice President, Legal Affairs, General Counsel and Corporate Secretary of Bombardier Inc and served on its ESG steering committee. She holds a civil law degree and a common law degree from University of Ottawa as well as an EMBA from the Schulich School of Business in Toronto and the Kellogg School of Management in Chicago.



**Eloïse Martin**  
Director

Eloïse has over 10 years of experience in project finance, structured finance, and capital structuring advisory with a focus on the energy and natural resources sector. Currently, she is self-employed. Previously, she was an Executive Director with HCF International Advisers. Ms. Martin holds an MBA from ESSEC Graduate School of Management, Paris, a Master of International Business (Honours) from L'Institut d'Etudes Politiques (Paris), and a Master of Humanities from Sorbonne University.



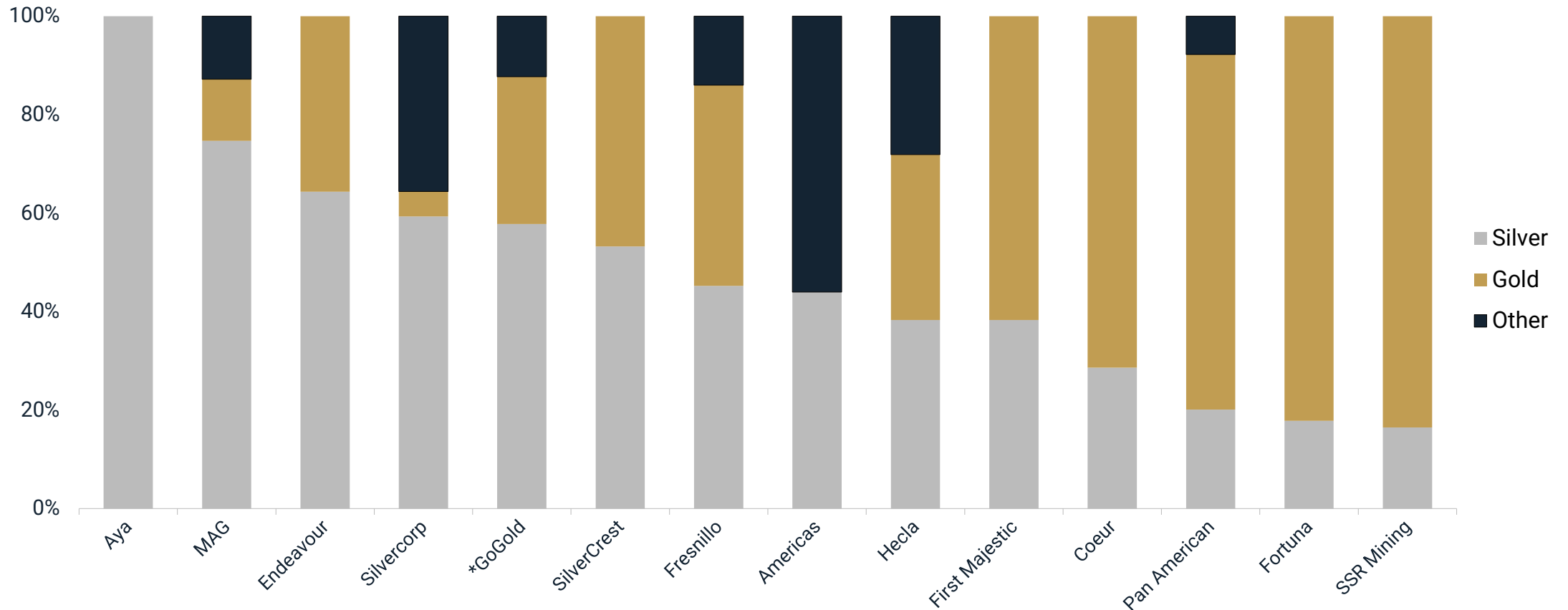
**Nikolaos Sofronis**  
Director

Nikolaos is founder of BS Family Office Assets Management S.A Geneva, specialized in private equity. He gained his over 16 years of experience in private banking within prestigious institutions in Luxembourg and Switzerland. He previously served as Chairman of a London-listed corporation. For the last 20 years, he has been actively involved in the mining sector.

# Aya / Our History



# Aya / The Only TSX-Listed Pure-Play Silver Producer



Source: Desjardins Capital Markets, company reports.

\*Denotes developer in 2023, for which 2023 metal prices and latest technical report were used

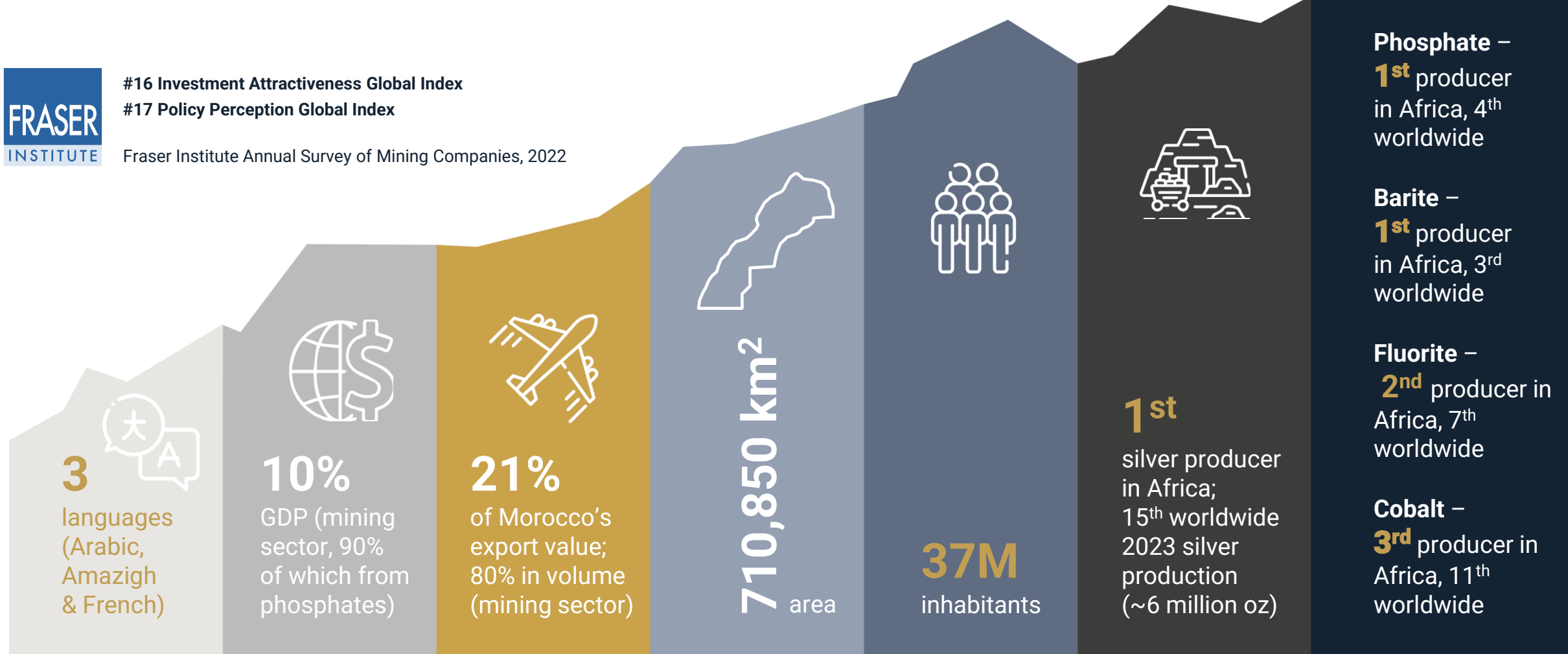
# Morocco / Top Mining Jurisdiction

## By the numbers



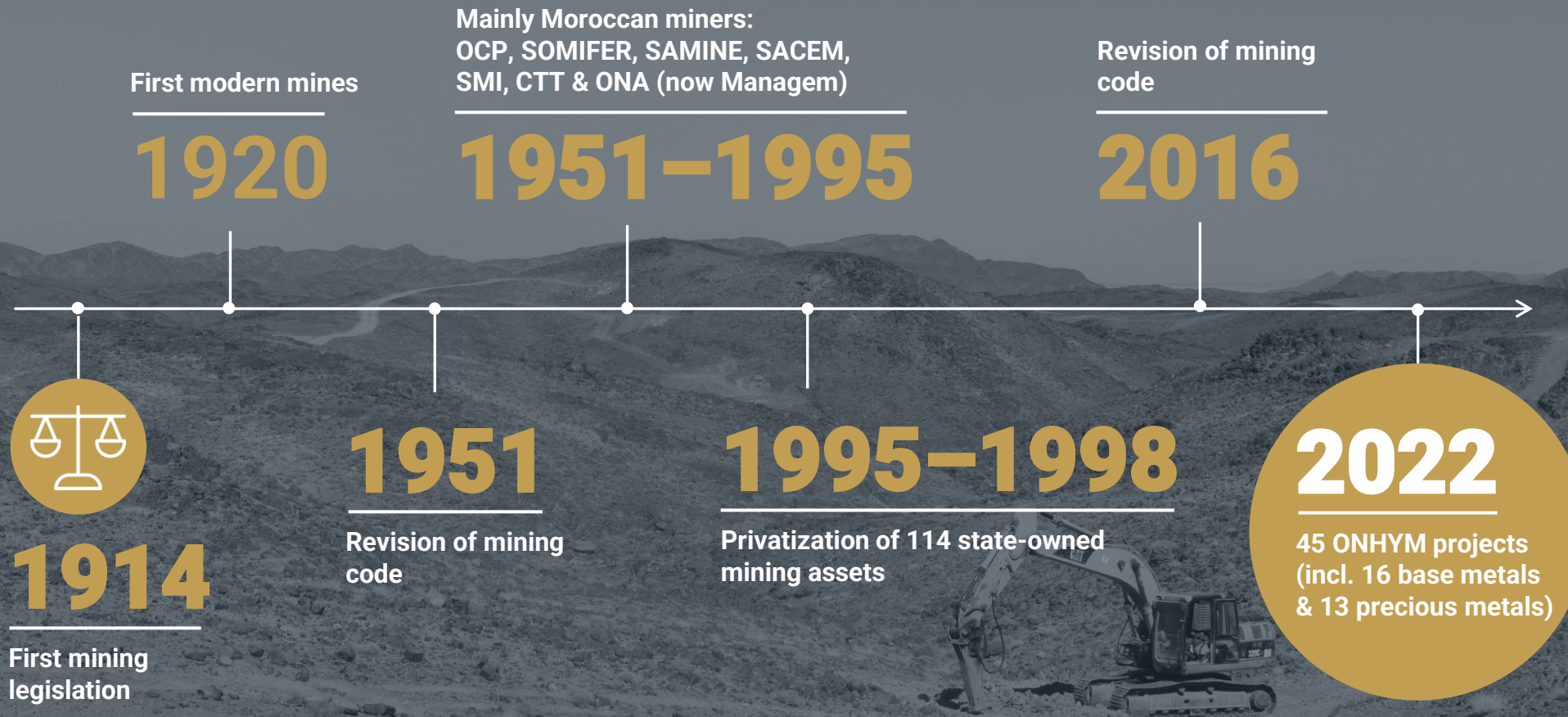
#16 Investment Attractiveness Global Index  
#17 Policy Perception Global Index

Fraser Institute Annual Survey of Mining Companies, 2022





# Morocco / Developing the Mining Sector



2016 Baseline Mining Code Zgounder	
Royalty	3% of sales
Tax rate*	25%
State free-carried interest	Nil
Foreign ownership permitted	Yes
Repatriation of profits	Yes
Mining permit (renewable)	10 years

# Our Assets / Morocco-Focused, Quality Growth Portfolio

## Zgounder Silver Mine – Cornerstone of Aya’s Growth Story

- 2023 production of **1.97M oz**
- 2024 guidance of **2.6M – 3.2M oz Ag**
- Increase in 2024 production due to partial expanded capacity
- **96M** oz M&I resources at 306 g/t Ag\*

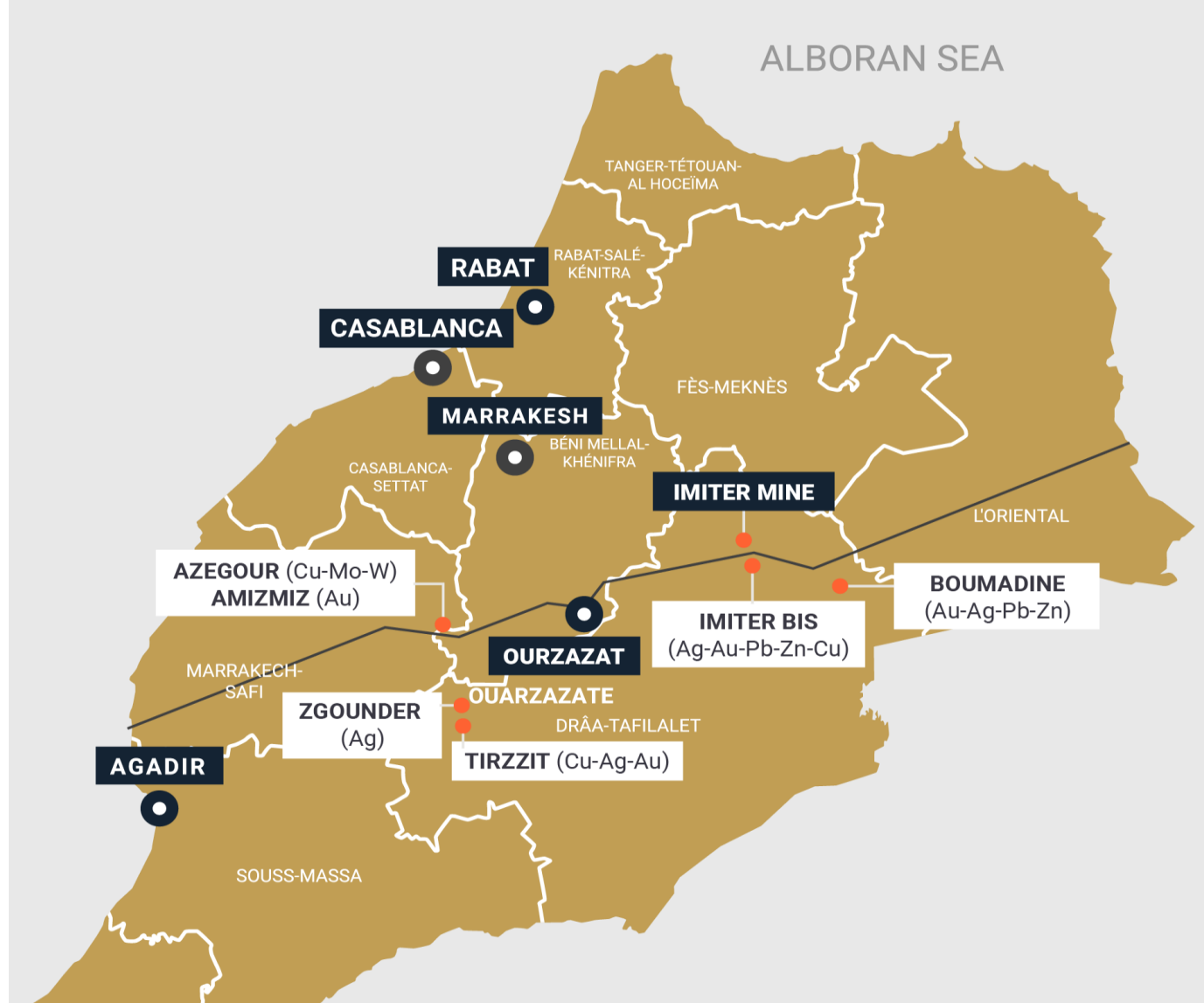
## Development Upside

- Boumadine – gold, silver, lead, zinc
- Tijirit – gold

## Exploration Upside

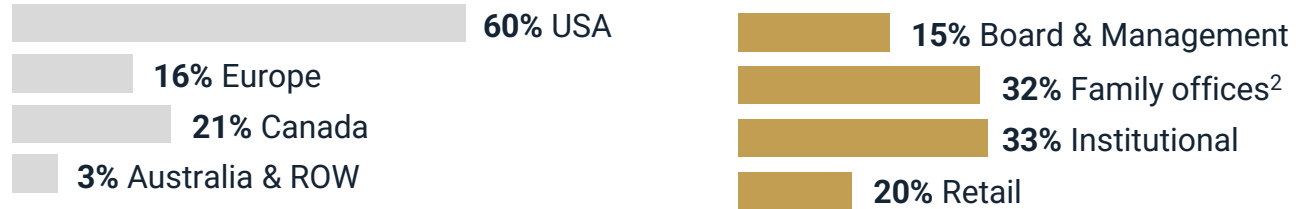
- Zgounder Regional & Tirzzit
- Amizmiz
- Imiter bis
- Azegour

\*NI 43-101 Technical Report and Updated Mineral Resource Estimate of the Zgounder Silver Project, Kingdom of Morocco (December 13, 2021)



# Capital Structure / Robust Balance Sheet

## Institutional Shareholder Breakdown<sup>1</sup>



<sup>1</sup> Based on 42.5M shares institutional ownership

<sup>2</sup> Affiliated with Aya Board and insiders

Exchanges – TSX: AYA   OTCQX: AYASF		
Shares – Basic		130.0M
Shares – F.D.*		136.8M
Share Price (April 15, 2024)	C\$	\$12.58
Market Cap (April 15, 2024)	C\$	\$1.6B
Cash (Dec. 31, 2023)**	US\$	\$125M
Debt***	US\$	\$100M
30-day average volume	'000	870



\* Includes 5.1M in options and 1.8M RSU/DSU.

\*\* Non-GAAP Measures, consisting of cash and cash equivalents of \$49.8M and restricted cash of \$20.5M and adjusted for \$53.8M bought deal financing (net of fees), which closed on February 14, 2024.

\*\*\* First three drawdowns (US\$85M) on project financing from EBRD



# Zgounder / Industry-Low Discovery Costs

- Resources as a unit of total shares outstanding up **>630%** to 96.1M oz since 2020
- Industry-low discovery cost of \$0.18 with only \$15.3M spent

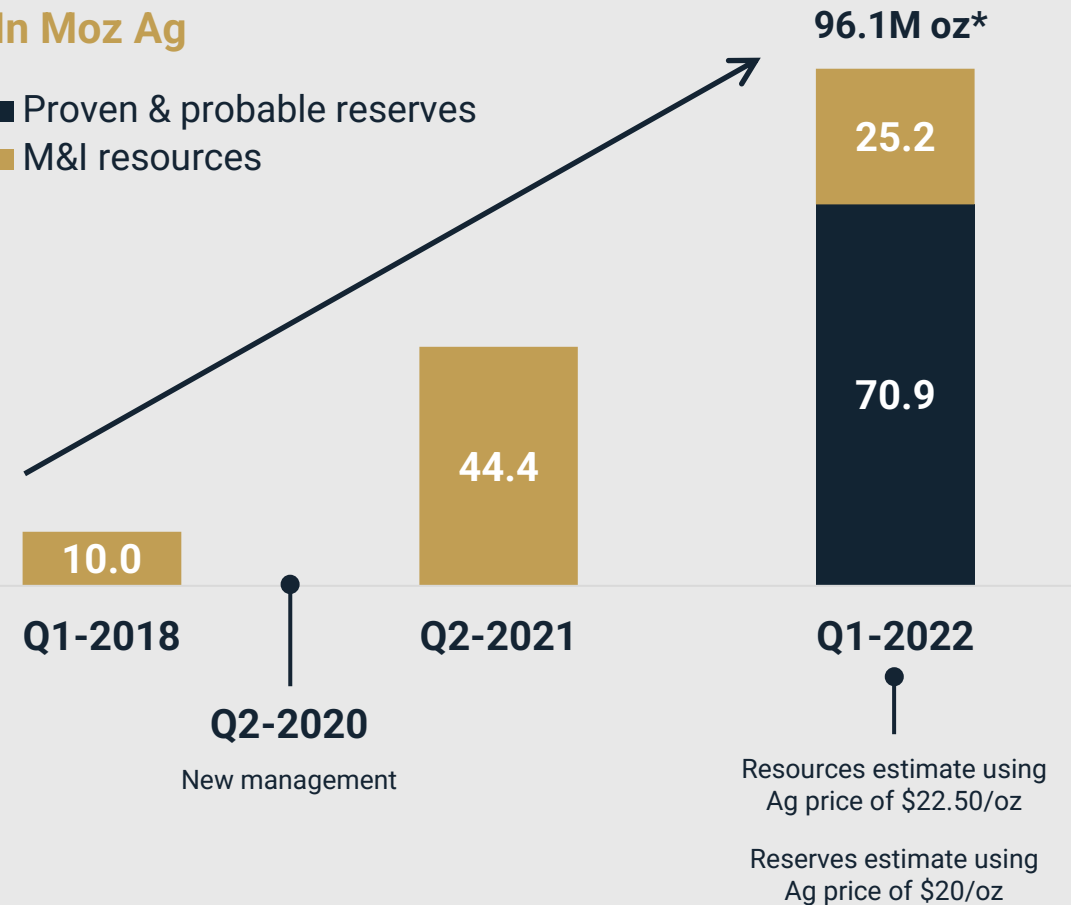
All mineral resources are exclusive of mineral reserves.



\*NI 43-101 Technical Report and Updated Mineral Resource Estimate of the Zgounder Silver Project, Kingdom of Morocco (December 13, 2021)

## In Moz Ag

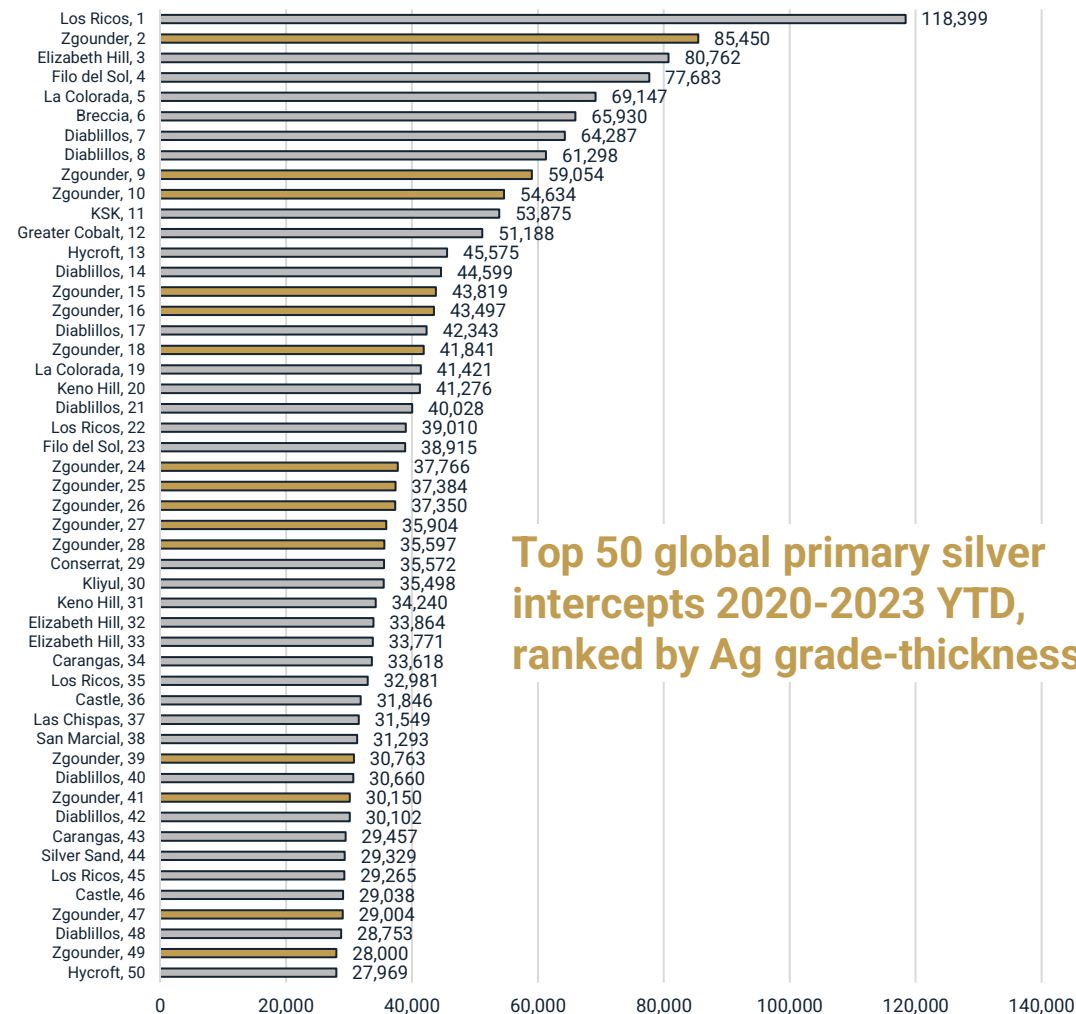
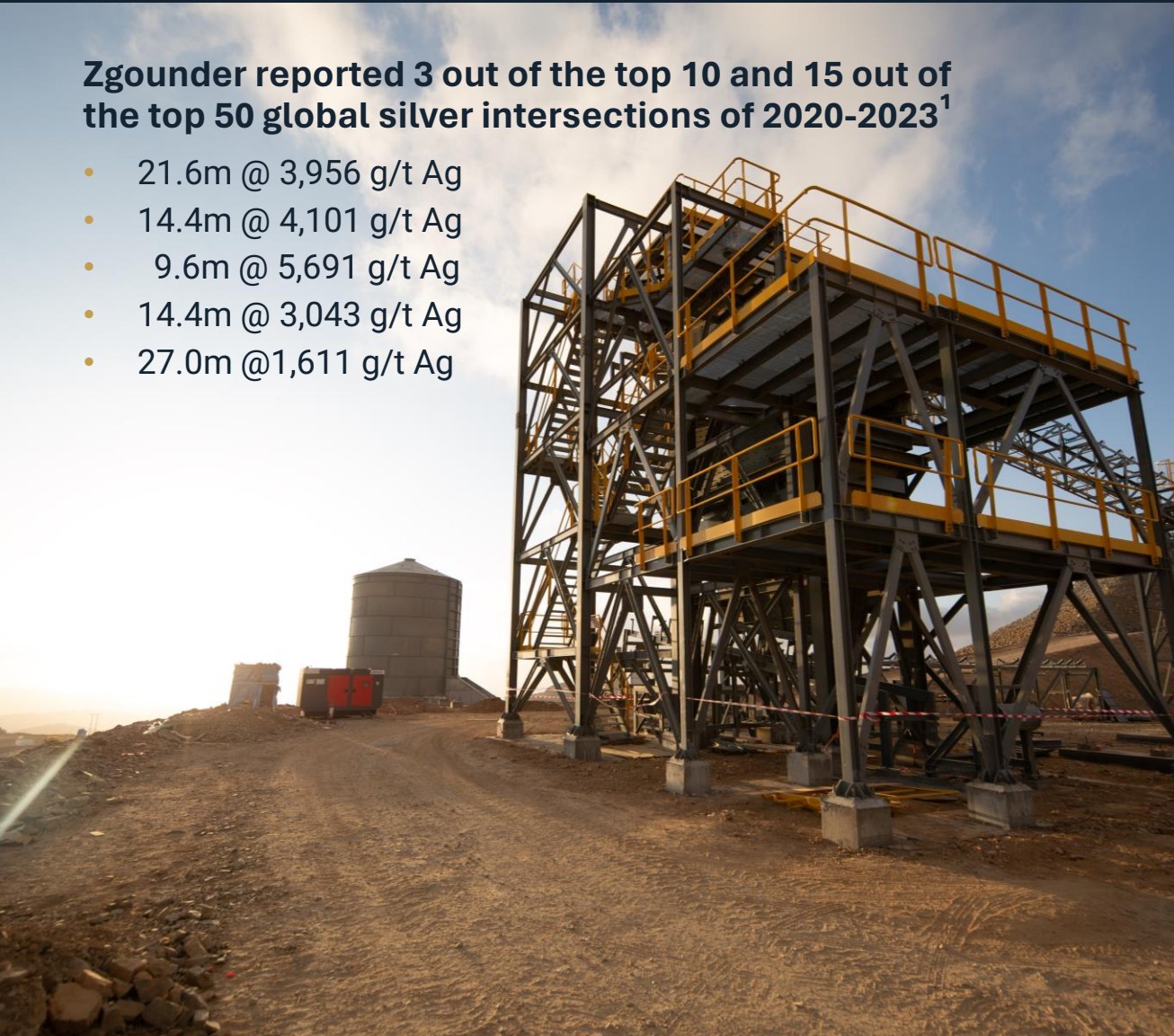
- Proven & probable reserves
- M&I resources



# Zgounder / Top Silver Intercepts Globally

Zgounder reported 3 out of the top 10 and 15 out of the top 50 global silver intersections of 2020-2023<sup>1</sup>

- 21.6m @ 3,956 g/t Ag
- 14.4m @ 4,101 g/t Ag
- 9.6m @ 5,691 g/t Ag
- 14.4m @ 3,043 g/t Ag
- 27.0m @ 1,611 g/t Ag



Top 50 global primary silver intercepts 2020-2023 YTD, ranked by Ag grade-thickness

Source: Desjardins Capital Markets, S&P Global Market Intelligence

# 2023 / Excellent Momentum Created for 2024

## Delivered a record year:

- Generated record revenue, earnings and operating cash flow
- Record production of 1.97M oz and **third consecutive** production guidance beat
- **240%** YoY increase in H&S training hours
- **86%** reduction in accident frequency rates compared with 2022

## On track to deliver Zgounder Mine expansion to plan:

- Zgounder expansion on time and budget for commissioning in **Q2-2024**
- 90% of lateral and 80% of vertical development completed
- Water storage facilities completed in time
- Combined mining rate of +2,300 tpd at YE, **85%** of expanded 2,700 tpd capacity
  - Stockpile of 250,114t of ore at year-end for commissioning of new mill



**+5%**

**Silver YoY production growth**



**3<sup>rd</sup>**

**Consecutive production  
guidance beat**



**+240%**

**Increase in H&S training hours**



**85%**

**Of expanded nameplate  
capacity reached at YE**

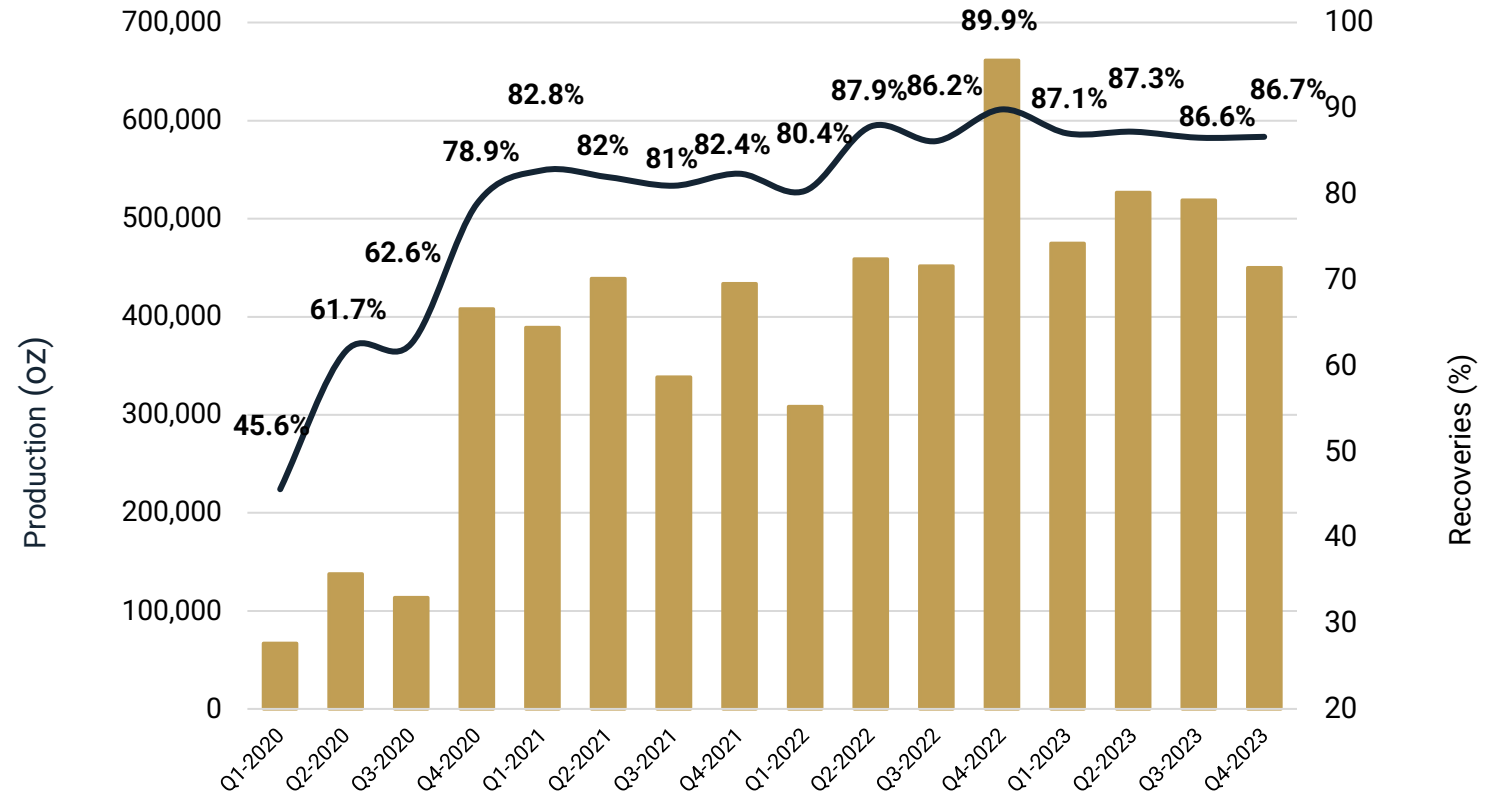
# Zgounder / Strong Execution and Operational Efficiencies

## Solid operational standard reached in 2021 by:

- Switch to cut-and-fill mining method
- Implementation of operating best practices
- Capital infrastructure & equipment upgrades
- Recruitment of key personnel

## Pre-expansion mechanization began in 2022

- Addition of cone crusher increased throughput; 700tpd+ nameplate capacity
- Commissioning of new equipment, such as jumbos, dumpers, scoops, crane & scissor lift platforms
- Improved operational standards
- Block model mining
- Grade control



## Silver Reserves

- The reserves include drilling carried out between January and September 2021
- Reserves include **29%** open-pit and **71%** underground ore
- **Well-positioned to extend the 11-year LOM**, given the 71% resource-to-reserve conversion ratio and that the deposit is open at depth to the granite

<sup>1</sup> Refer to the December 14, 2021, press release entitled "Aya Gold & Silver Grows Measured and Indicated Mineral Resources By 116% at Zgounder"

<sup>2</sup> Refer to the February 22, 2022, press release entitled "Aya Gold & Silver Announces Robust Expansion Feasibility Study for Zgounder"

<sup>3</sup> Refer to June 16, 2022, amended NI 43-101 Technical Report Feasibility Study, Zgounder Expansion Project.

## On a 100% basis. M&I resources shown inclusive of reserves.<sup>1</sup>

	Tonnes (κ)	Ag (G/T)	Content (Ag K Oz)
Proven Reserves	2,100	288	28,748
Probable Reserves	5,490	239	42,128
<b>P&amp;P Reserves</b>	<b>8,590</b>	257	70,876
Measured Resources (Incl. Reserves)	3,511	347	39,183
Indicated Resources (Incl. Reserves)	6,254	283	56,874
<b>M&amp;I Resources (Incl. Reserves)</b>	<b>9,765</b>	306	96,057
Inferred Resources	196	367	6,400

<sup>1</sup> The mineral reserves were estimated based on a Ag price of \$20/oz and a corresponding COG of 47 g/t for open-pit reserves, 85 g/t for underground reserves, and 44 g/t for historical tailings.



# Zgounder / Expansion Feasibility Study Highlights



**71Moz**

P&P reserves



**\$373M**

Post-tax NAV<sub>5%</sub>  
(\$22/oz)



**\$139.4M**

Growth capex



**\$9.58**

AISC (LOM)



**11-year**

LOM



**48%**

Post-tax IRR  
(\$22/oz)



**1.7-year**

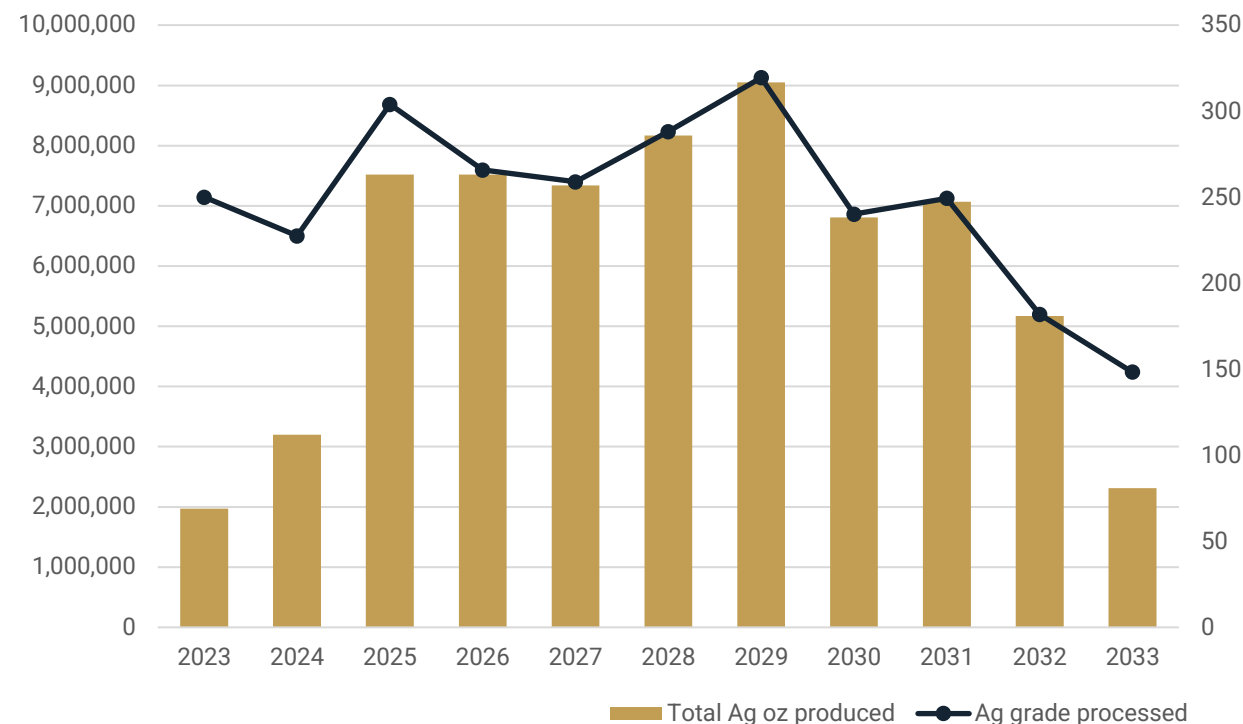
Payback  
(post-expansion)



**ESG**

Plan  
enhancements

## LOM Production Profile\*



\* Based on projections of 2022 Zgounder Expansion feasibility study. Projections include commencement of construction in Q2-2022. 2024 production has been adjusted to 2024 guidance.

# ZGOUNDER MINE | Open-pit production

Combined open-pit and UG production to average 6.8M oz silver per year, when in full production

## Expanded operations will combine:

- 2,000 tpd Merrill-Crowe plant and 700 tpd flotation-cyanidation plant
- Open-pit & UG operations

EXISTING TAILINGS STORAGE FACILITY

NEW PROCESS PLANT

OPEN PIT

HISTORICAL TAILINGS STORAGE FACILITY



2

**CONSTRUCTION  
OF ZGOUNDER NEW  
PROCESSING PLANT**

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**March 2024**



# Zgounder / Expansion Quarterly Spotlight at YE-2023

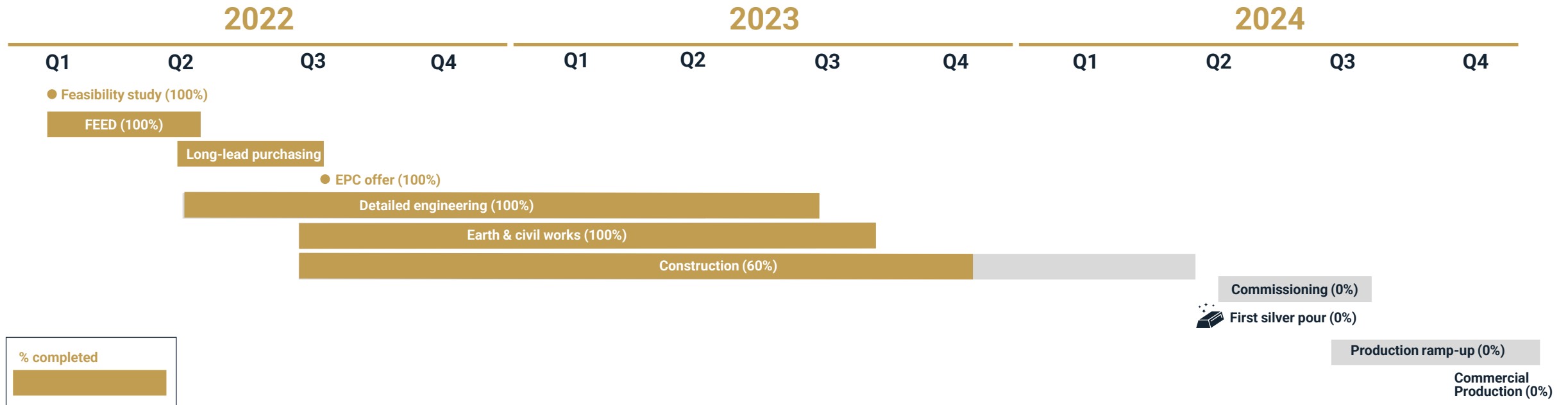


Water storage basins were completed before annual rainfall



90% of electrical pylons erected, and 30% of cabling installed at YE

# Zgounder / Expansion Quarterly Spotlight at YE-2023



# Aya / Achieving Sustainability Leadership



## Low-Carbon Strategy and Environmental Commitment

**Priorities:** water, tailings management and clean energy. Near-zero Scope 2 emissions in 2025.



**61%**  
Water recycled

**Ongoing**  
Global Industry Standard on Tailings Management



**20-year**  
green PPA signed

**88%<sup>1</sup>**  
Reduction in Scope 2 emissions in 2025



## Health and Safety

**2024 priorities:** consolidating management processes to further embed zero-incident safety culture. Operationalization of mine rescue teams.



**Ongoing**  
Best practices for risk management



**0 fatalities**  
Reported in 2023



**10,760 hours**  
of H&S training in 2023



## Corporate Social Responsibility

**Priorities:** national recruitment and procurement, combined with a four-pronged community program.



**46%**  
Local workforce



**99%**  
National workforce

**75%**  
National procurement

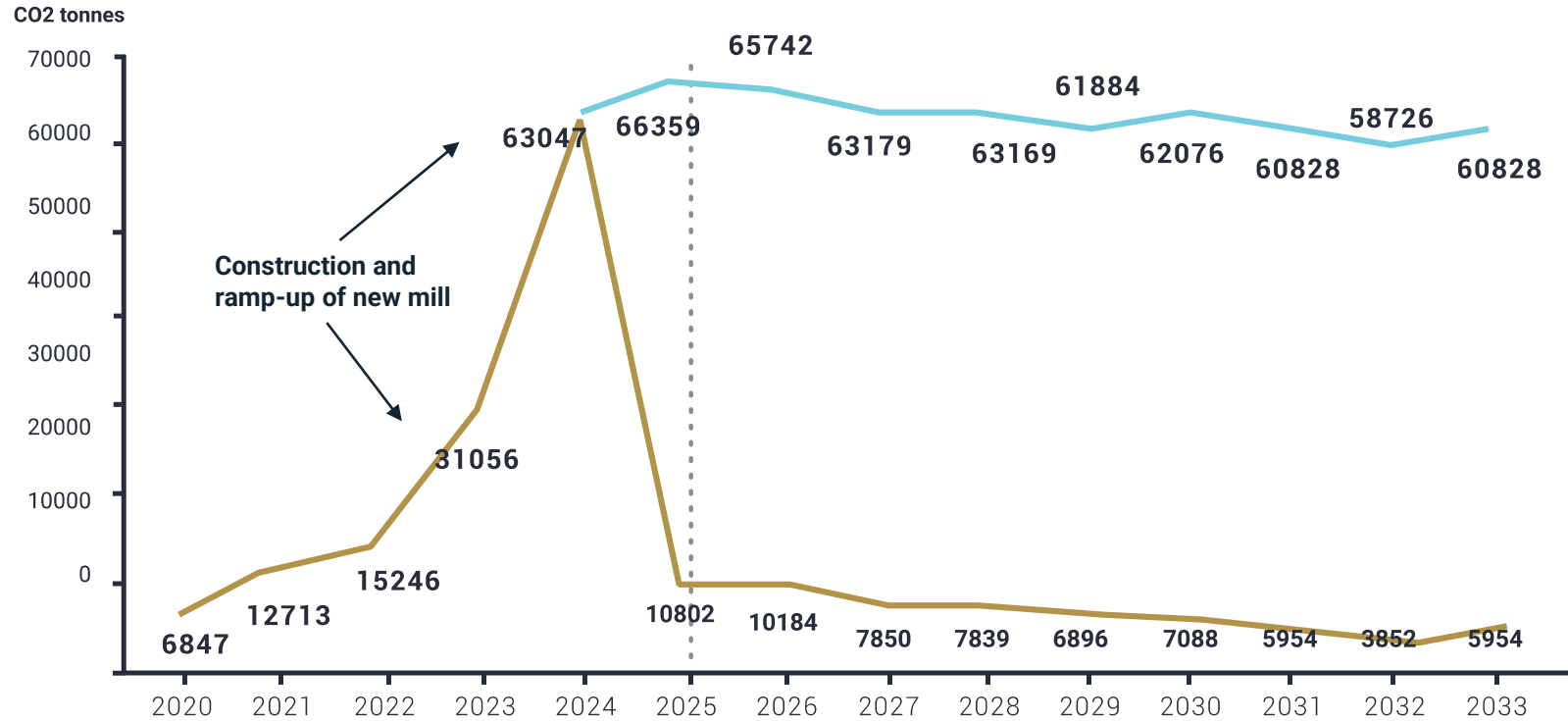


**13,000**  
villagers impacted by medical clinic support

<sup>1</sup> Reduction compared to same year, 2024, in the absence of a signed PPA with a renewable energy producer, as per the mining plan in the NI 43-101 FS study presented in 2022.

# Aya / Near-term Decarbonization Objectives

## Estimated total GHG emissions for the Zgounder Silver Mine



**88%**  
Reduction in overall emissions in 2025<sup>1</sup>

<sup>1</sup> Compared to base year of 2021. Objective does not include Scope 3 emissions.

# Aya / Near-term Decarbonization Objectives

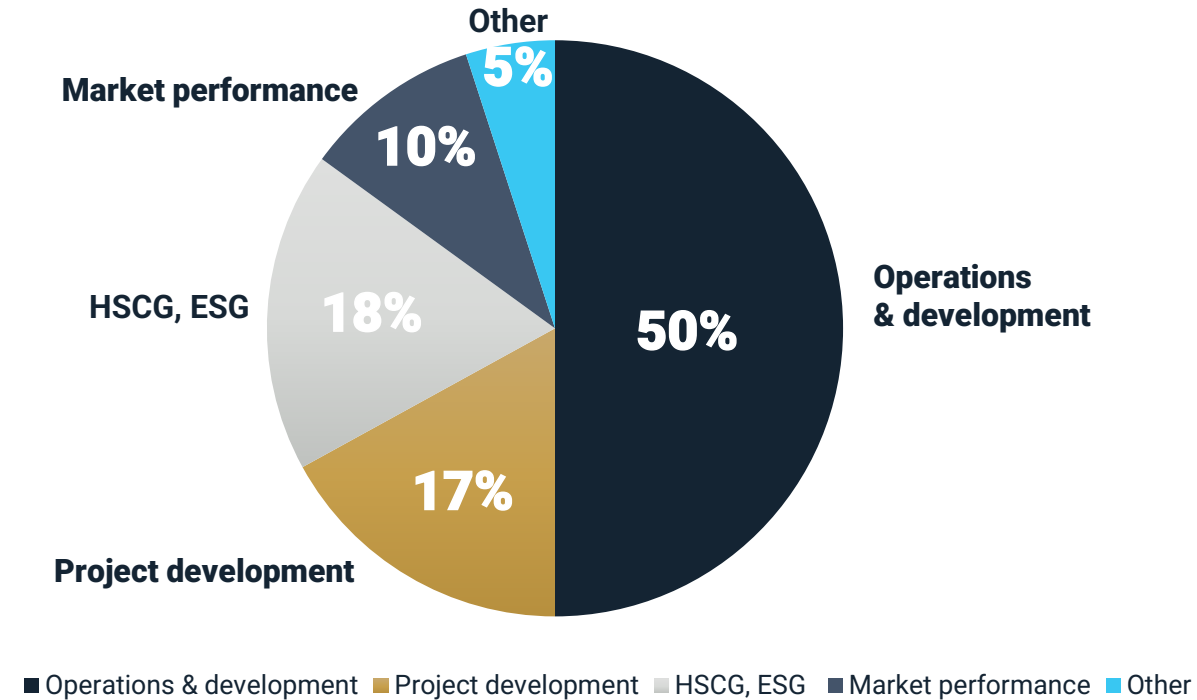
Achieved in the last three years since arrival of new management team

**37%** Women board members

**87%** Director independence

**15%** Board & management holdings  
(As of December 31, 2023)

## Alignment of executive pay to performance and shareholder interests



Implementation of high **governance standards** & alignment of executive remuneration with performance and shareholders

Increased transparency of ESG disclosure in support of the below frameworks:





# 3

## EXPLORATION

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1. Aya
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# Aya / 2024 Drill Program of 145,000m Focusing on Boumadine

## Zgounder Silver Mine

- Budget of **15,000m**
- Follow up underground targets generated by 2023 program

## Boumadine (Development)

- **11,332m** completed of **120,000m** budgeted
  - 60,000m: explore and expand 4.2 km strike
  - 60,000m: test new targets
- MobileMT survey expected to generate at-depth targets

## Zgounder Regional (Exploration)

- Budget of **10,000m**
- Find similar mineralization to Zgounder deposit; and test Cu-Ag mineralization at Tirzzit

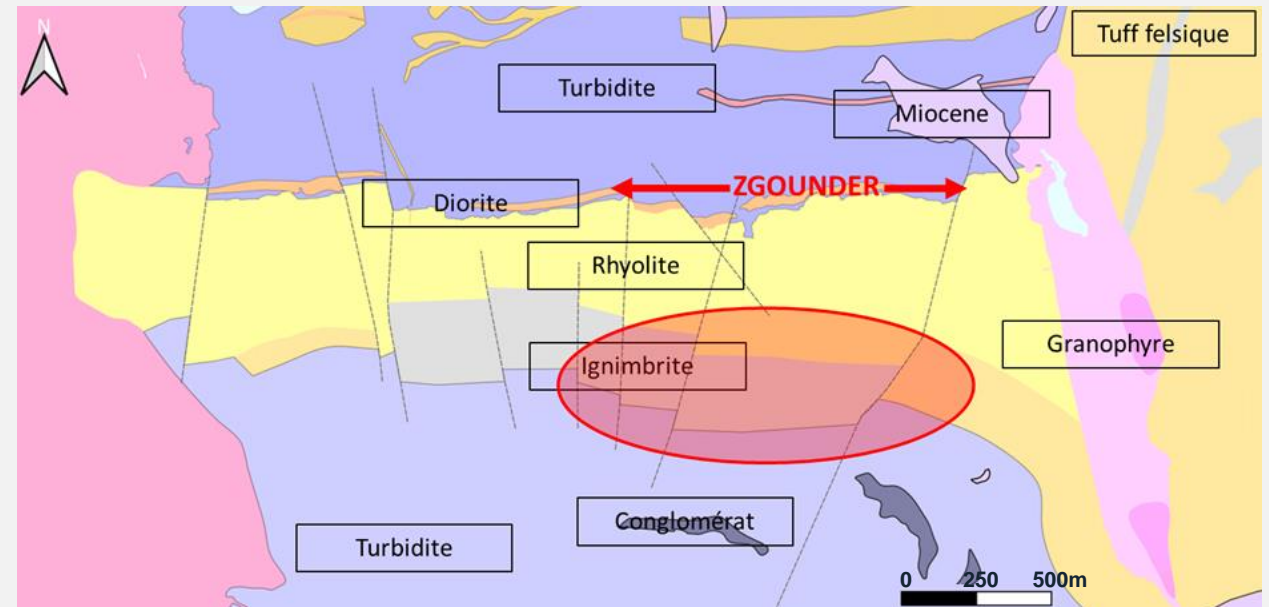
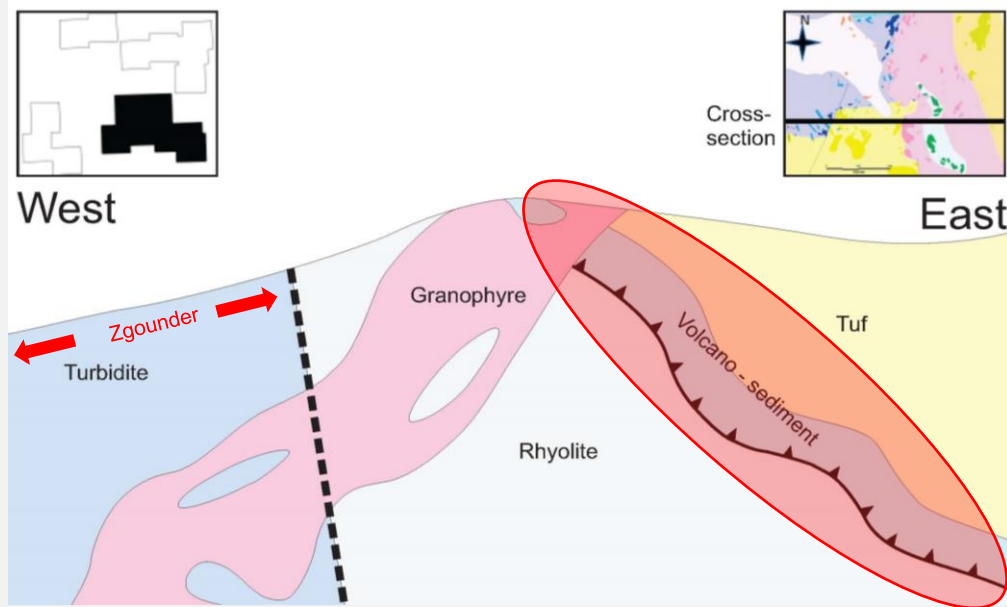
## Amizmiz (Exploration)

- Small drill and fieldwork program



# Zgounder Regional / Testing Possible East Extension & South Mirror in 2024

- **2,000m** drilling to test drill conceptual target under the Neocene cover (Tuffs) east of the granophyre
  - Potential continuation of the Zgounder deposit (volcano-sediments).
- **2,000m** to test drill southern contact of the rhyolite (never drill tested)
  - Sediments south of the rhyolite are slightly more conglomeratic than the “série-brune” (shale, siltstone and sandstone) of Zgounder; Imiter has found mineralization inside conglomeratic units



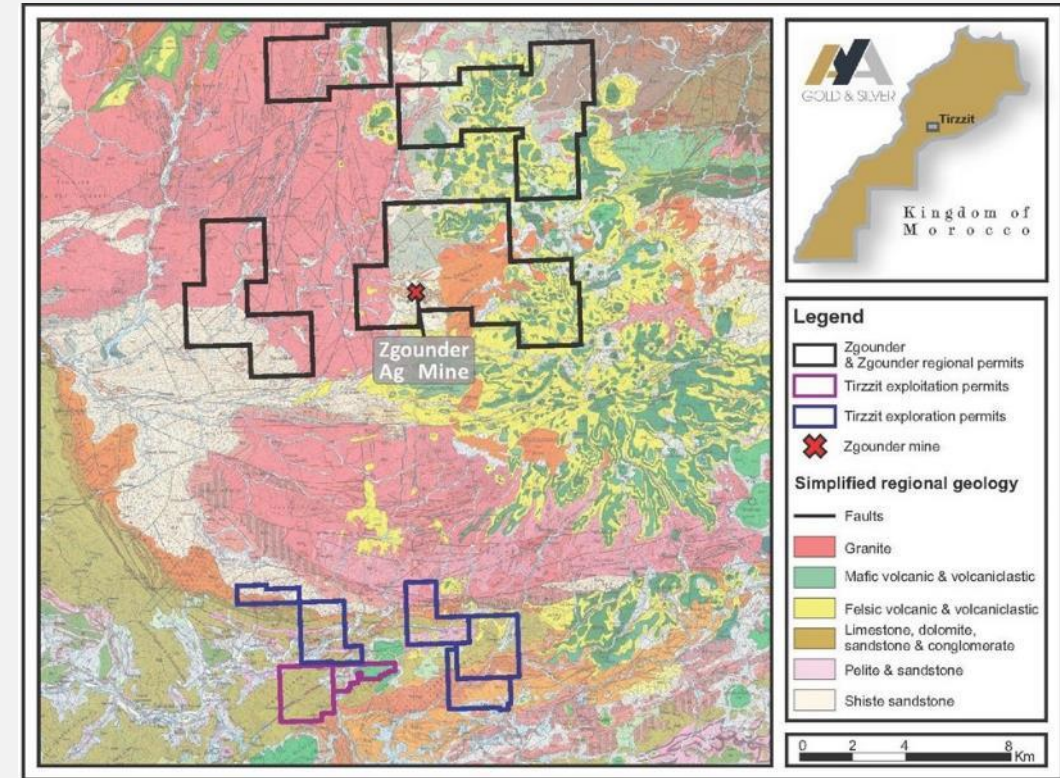
# Tirzzit / Test Drilling Cu-Ag Mineralization in 2024 (Cu, Ag)

## Historical copper mine offering near-surface silver and copper mineralization potential, with historical drilling intercepts of up to 3.5% Cu

- 3,000m drill program to test Cu-Ag mineralization in 2024
- 2024 program informed by 2023 fieldwork including stream sediment and mapping campaign and high-resolution hyperspectral survey
- Historical data includes drilling
- Collection of 7 permits (67.7km<sup>2</sup>) including the historical Tirzzit Copper Mine on Morocco's Anti-Atlas range, 25 km south of Zgounder

## Potential

- Mineralization of historical deposit remains open in three directions
- No systematic exploration program using modern methods
- Easy road access and proximity to infrastructure



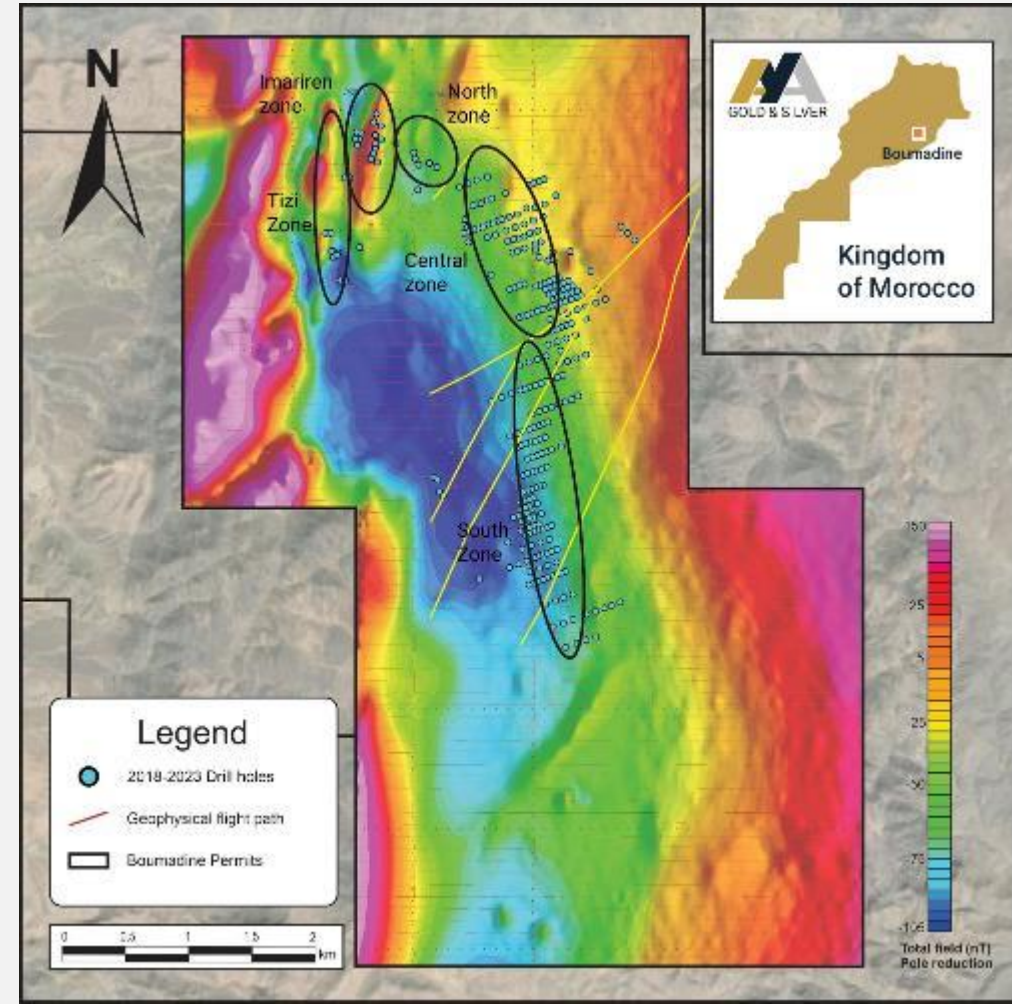
<sup>1</sup> Refer to Aya Gold & Silver's June 29, 2023 and August 17, 2023 press releases

# Boumadine / 2024 Resource Highlights (AgEq, AuEq, Cu, Pb, Zn)

## Highlights<sup>1</sup>

- **Indicated** resources of 2.0Mt at 113 g/t Ag, 2.51 g/t Au, 4.32% Zn and 1.07% Pb containing an estimated **7.4 Moz** of Ag, 165 koz of Au, 88 kt of Zn and 22 kt of Pb
- **Inferred** resources of 23.6Mt at 85g/t Ag, 2.62 g/t Au, 2.32% Zn and 0.84% Pb containing an estimated **64.7 Moz** of Ag, 1.98 Moz of Au, 546 kt of Zn and 198 kt of Pb
- 41% of the inferred mineral resource is pit-constrained, and 59% is deemed underground
- Rapid resource delineation with **+94 km** drilled in under 2 years
- Potential to **expand the deposit in all directions** – 120,000m program drilling ongoing and less than 10% of the land package has been drilled

<sup>1</sup> Refer to Aya Gold & Silver's April 16, 2024 press release.



# Boumadine / Robust Mineral Resource Estimate<sup>1 2 3</sup> (AuEq, AgEq, Cu, Pb, Zn)

## Potential to increase deposit in **all** directions

	Cutoff	Tonnes	Average Grade <sup>2</sup>						Contained Metal <sup>2</sup>							
			Ag	Au	Cu	Pb	Zn	AgEq	AuEq	Ag	Au	Cu	Pb	Zn	AgEq	AuEq
	NSR US\$/t	(kt)	(g/t)	(g/t)	(%)	(%)	(%)	(g/t)	(g/t)	(koz)	(koz)	(kt)	(kt)	(kt)	(koz)	(koz)
<b>Pit-constrained Indicated</b>	95	995	145	2.71	0.17	1.58	5.92	<b>634</b>	7.40	4,647	87	2	16	59	<b>20,299</b>	237
<b>Pit-constrained Inferred</b>	95	8,474	103	2.97	0.10	0.79	2.54	<b>475</b>	5.54	28,087	808	8	67	215	<b>129,478</b>	1,510
<b>Out-of-pit Indicated</b>	125	1,046	82	2.33	0.11	0.58	2.79	<b>402</b>	4.69	2,751	78	1	6	29	<b>13,533</b>	158
<b>Out-of-pit Inferred</b>	125	15,096	76	2.42	0.07	0.87	2.19	<b>389</b>	4.53	36,653	1,175	11	131	330	<b>188,663</b>	2,198
<b>Total Indicated</b>	95/125	2,042	113	2.51	0.14	1.07	4.32	<b>515</b>	6.01	7,398	165	3	22	88	<b>33,832</b>	395
<b>Total Inferred</b>	95/125	23,569	85	2.62	0.08	0.84	2.32	<b>420</b>	4.89	64,740	1,983	19	198	546	<b>318,141</b>	3,708

<sup>1</sup>As at April 15, 2024

<sup>2</sup>Refer to Aya Gold & Silver's April 16, 2024 press release.

<sup>3</sup> The mineral resource has been estimated based on a Ag price of US\$21/oz with a process recovery of 89%, a Au price of US\$1,900/oz with a process recovery of 85%, a Zn price of US\$1.20/lb with a process recovery of 72%, a Pb price of US\$1.00/lb with a process recovery of 85%, and a Cu price of US\$4.00/lb with a process recovery of 75%.

# Boumadine / 2024 Accelerated Development (Au, Ag, Pb, Zn)

## Through drilling<sup>1</sup>

- 11,332m of **120,000m** budgeted drill program completed
  - **60,000m** – expand 4.2km open-ended strike and infill
  - **60,000m** – test hypotheses and generate new drill targets
- **NI 43-101-compliant** resource estimate expected in H1-2024
- Fieldwork (hyperspectral, mapping and prospecting) ongoing on **4 new permits**
- High resolution MobileMT geophysical airborne survey expected to generate at-depth targets

## Through consolidation

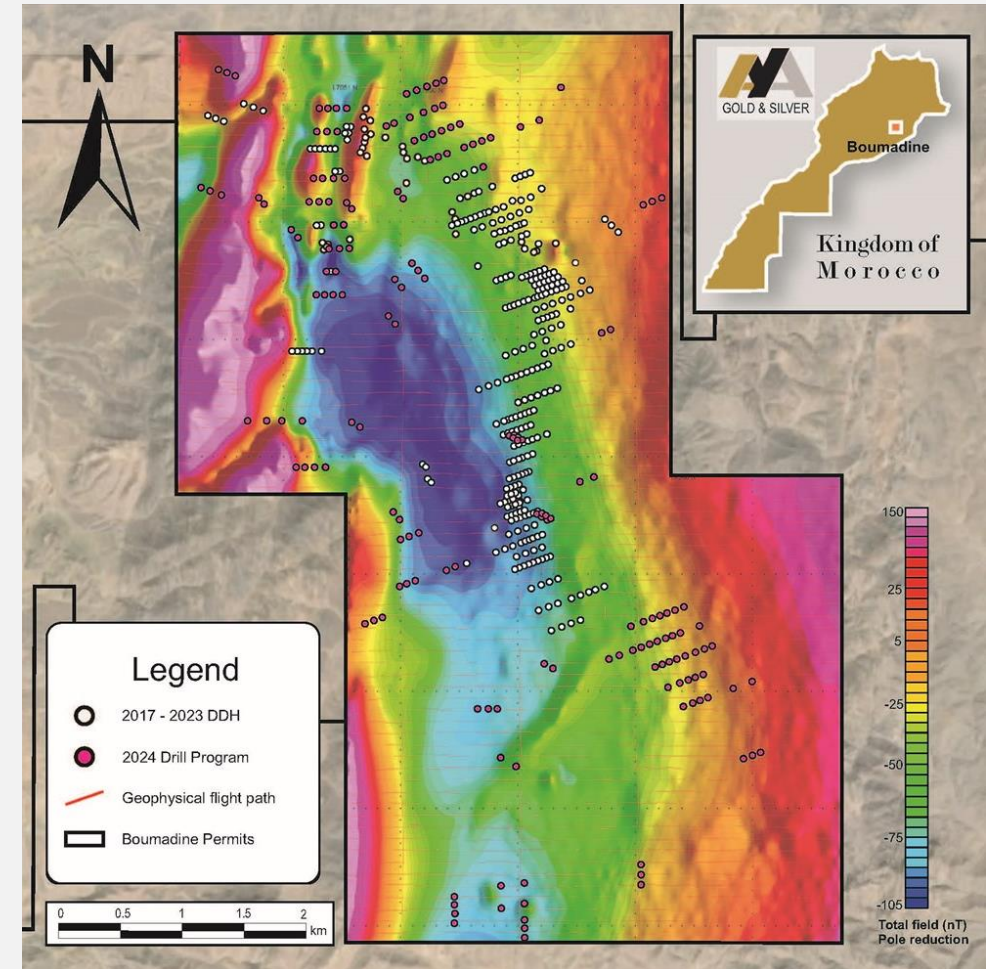
- Land position of **141.4km<sup>2</sup>** – up **346%** since 2023

## Through Initial Metallurgical Test Work<sup>2</sup>

- Initial recoveries of **89% Ag**, **85% Au**, **85% Pb** and **72% Zn** obtained
- A two-step process is envisaged that combines flotation with oxidation (Albion Process™) and leaching

<sup>1</sup> Refer to Aya Gold & Silver's April 19, 2023, July 5, 2023, September 19, 2023, October 12, 2023, November 20, 2023, January 18, 2024, March 19, 2024 and March 28, 24 press releases

<sup>2</sup> Refer to Aya Gold & Silver's November 9, 2023 press release.

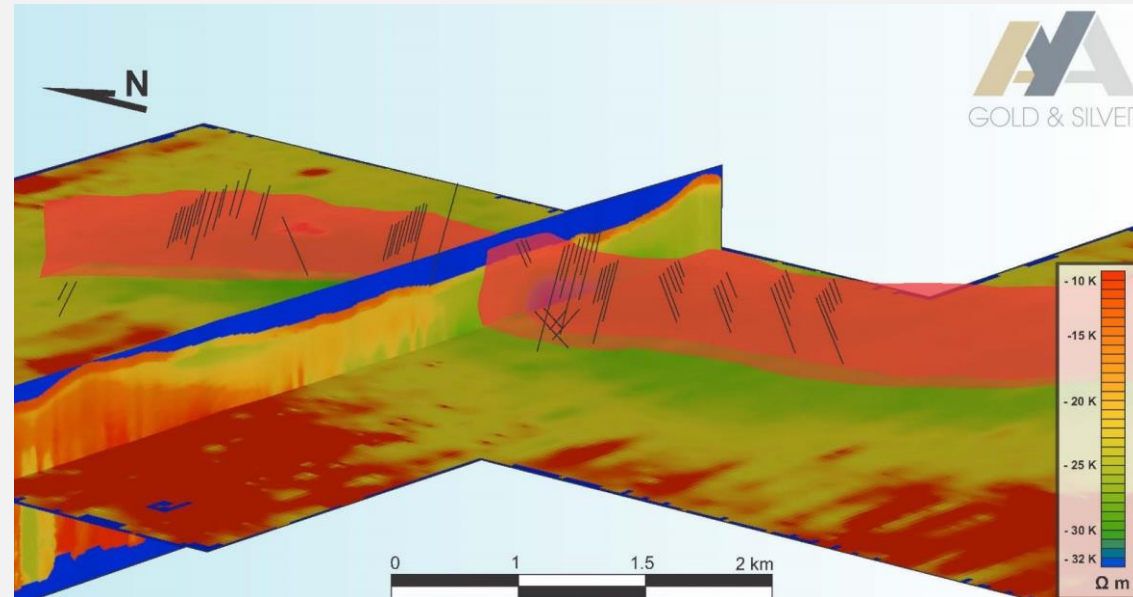
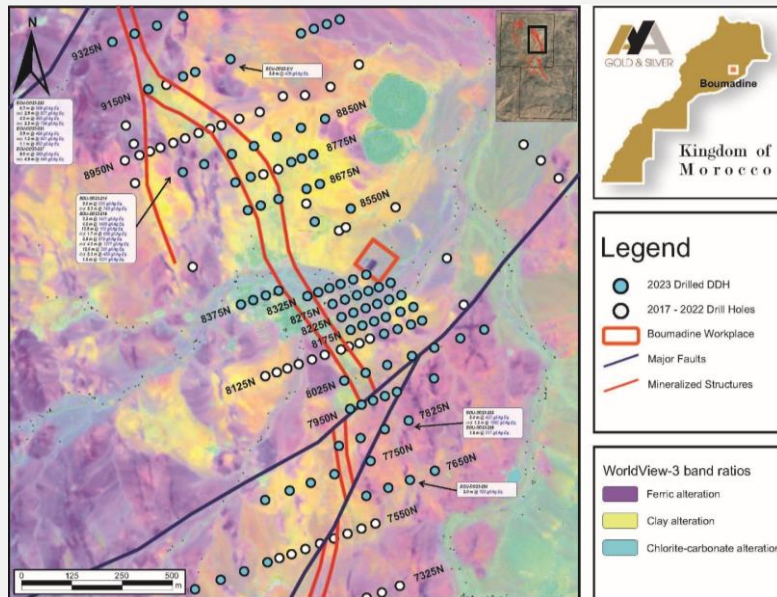


# Boumadine / Expand Main Zone Strike, Which is Open in All Directions

## Drilling Highlights<sup>1</sup>

- **1,039 g/t AgEq over 23.5m** (6.41 g/t Au, 116 g/t Ag, 4.7% Zn, 0.6% Pb and 0.4% Cu)
- **763 g/t AgEq over 38.3 m** (1.53 g/t Au, 311 g/t Ag, 4.4% Zn, 1.8% Pb and 0.04% Cu)
- **474 g/t AgEq over 30.1m** (2.57 g/t Au, 85 g/t Ag, 2.2% Zn, 0.6% Pb and 0.1% Cu)
- **1,410 g/t AgEq over 9.3m** (12.34 g/t Au, 94 g/t Ag, 2.5% Zn, 0.4% Pb and 0.1% Cu)

<sup>1</sup>All intersections are in core lengths; Ag equivalent is based on a 100% recovery with the following ratios: 1g/t Au: 93.4 g/t Ag; 1% Cu: 130.4 g/t Ag; 1% Pb: 31.8 g/t Ag; 1% Zn: 54.1 g/t Ag.





# Amizmiz / Expand and Test Historical Work (Au)

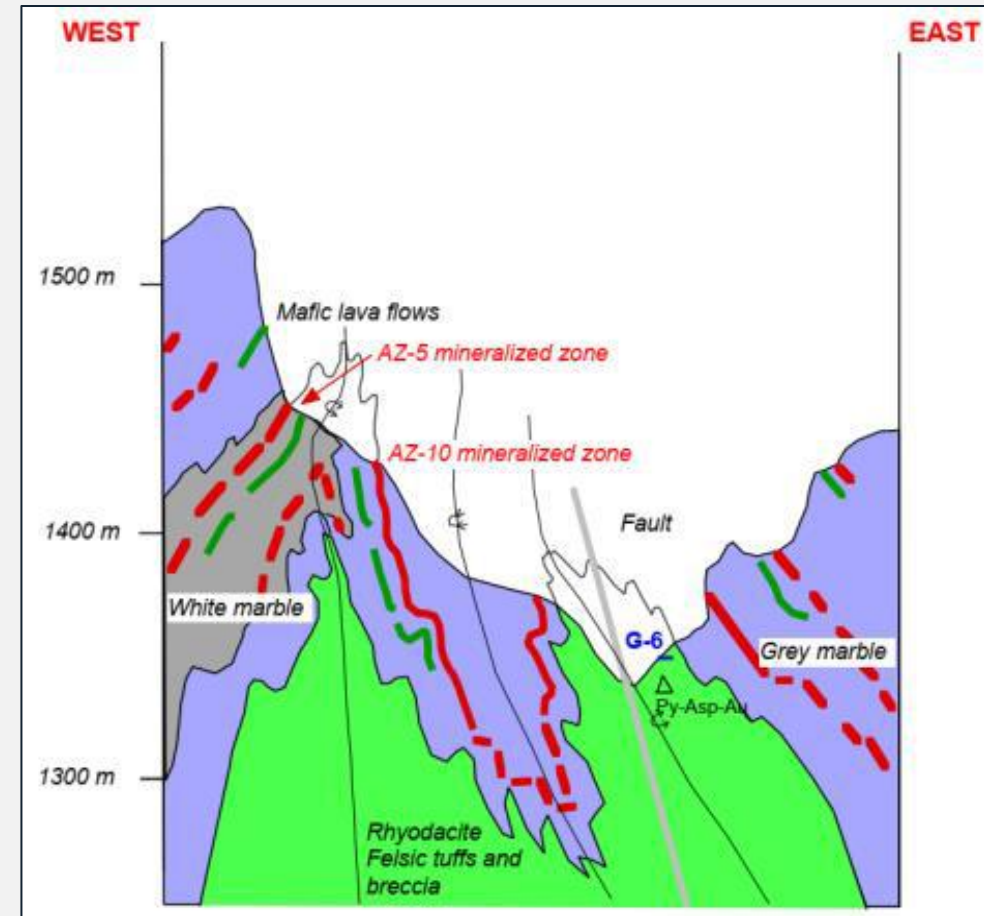
## Expand understanding of Amizmiz mineralization:

- Mining permit located 55km SSW of Marrakech and 12km from historical Azegour Mine.
- Follow up on detailed geological and structural mapping that identified mineralized zones consisting of **oxidized, high-grade gold-bearing veins**
- Fieldwork (detail mapping and grab sampling) to begin **mid-2024**, followed by **2,800m** of core drilling

## Historical work (1999-2011):

- Mapping, trenching and channel sampling identified **57** mineralized sites with Au values up to **127.2 g/t**
- Magnetic and IP/resistivity surveys conducted in 2009
- **6,000m** of core drilling conducted on targets identified from IP and magnetic geophysical surveys

## Schematic cross section of Amizmiz



# Aya / Catalysts

- Boumadine resource estimate
- Zgounder & Boumadine drill program results
- Zgounder Silver Mine expansion
- Achieve 2024 **silver production and cost guidance**
- Achieve 2024 **ESG** milestones of **EBRD-CTF loan agreement**





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