



# Building the Largest Pure-Play Silver Producer Globally

Investor Presentation  
November 2023



TSX: **AYA** | OTCQX: **AYASF**



# Forward-Looking Statement

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 Q3 MD&A, and other filings made with Canadian securities regulatory authorities and available at [www.sedar.com](http://www.sedar.com). 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.





# AYA

- 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 Mohammedia 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.



**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 – 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

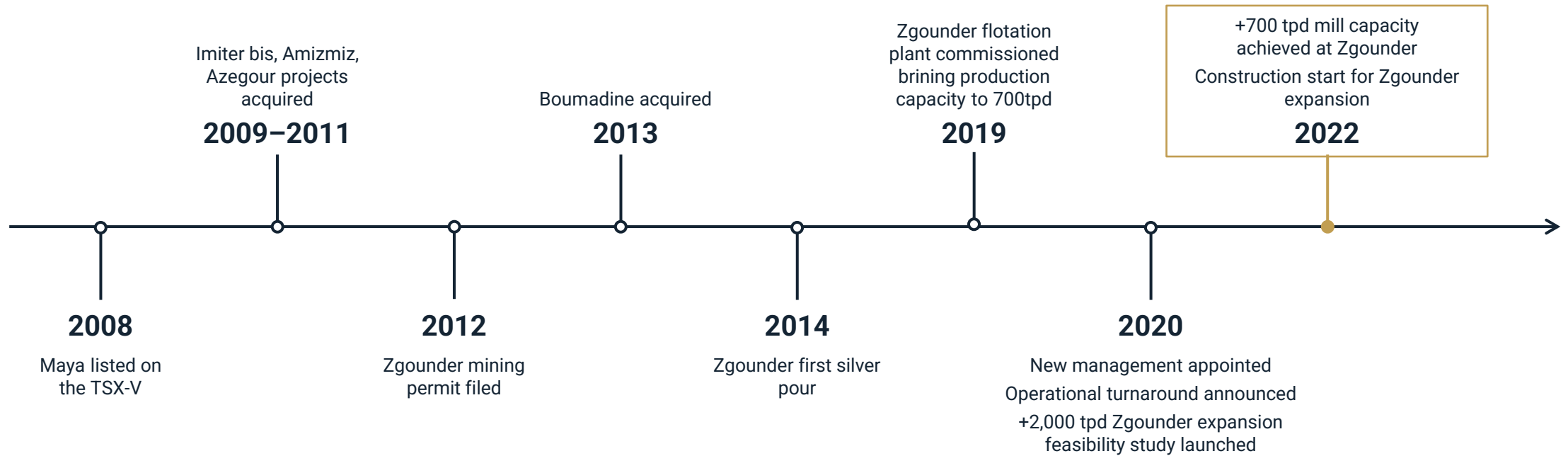
Eloïse has over 10 years of experience in project finance, structured finance, and capital structuring advisory with a focus on the energy and natural resources sector. Currently, she is self-employed. Previously, she was an Executive Director with HCF International Advisers. Ms. Martin holds an MBA 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

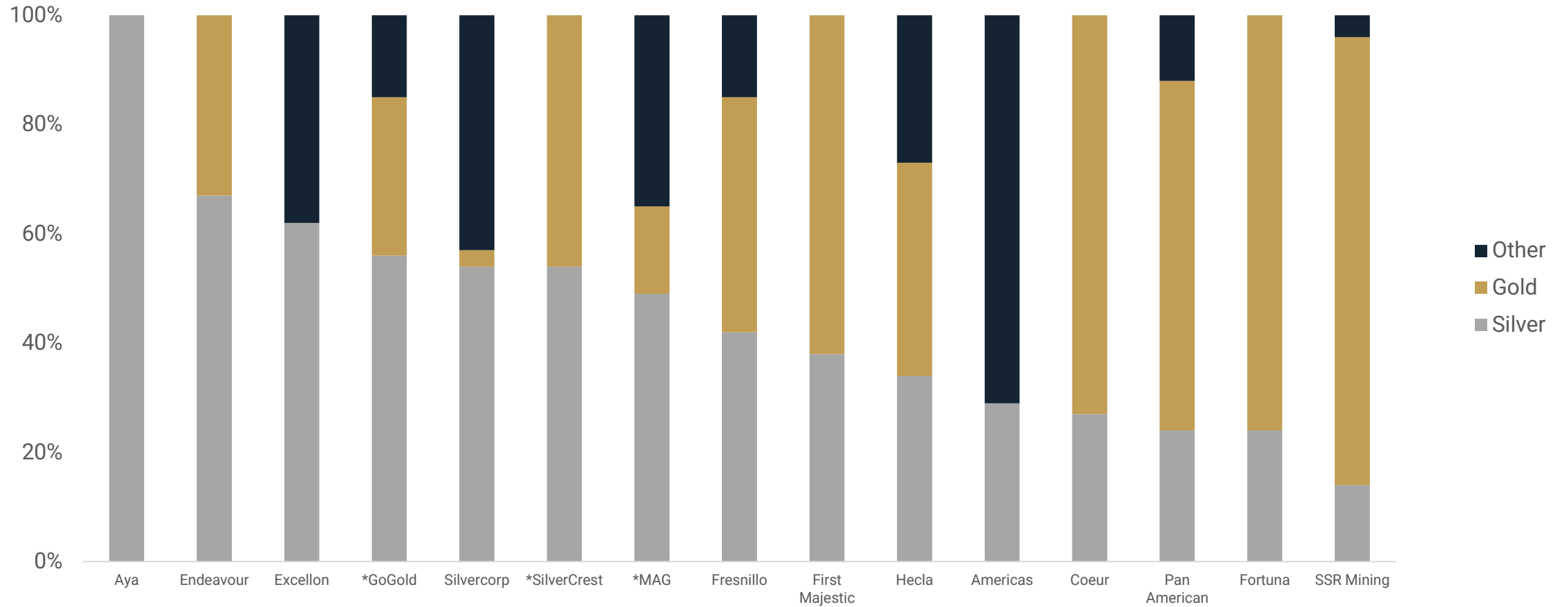
Nikolaos is founder of BS Family Office Assets Management S.A Geneva, specialized in private equity. He gained his over 16 years of experience in private banking within prestigious institutions in Luxembourg and Switzerland. He previously served as Chairman of a London-listed corporation. For the last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

# Aya – Our History



TSX: **AYA**; OTCQX: **AYASF**

# Aya – The Only TSX-Listed Pure Silver Producer



TSX: **AYA**; OTCQX: **AYASF**

Source: Desjardins Capital Markets, company reports.  
 \*Developer, for which 2022 metal prices and latest technical report were used

# Morocco – Top Mining Jurisdiction

## By the numbers



**37M**  
inhabitants



**1st**

silver producer in Africa; 15th worldwide  
2022 silver production (6 million oz)

**Phosphate** – 1st producer in Africa, 4th worldwide  
**Barite** – 1st producer in Africa, 3rd worldwide  
**Fluorite** – 2nd producer in Africa, 7th worldwide  
**Cobalt** – 3rd producer in Africa, 11th worldwide



**3**  
languages  
(Arabic, Amazigh & French)



**21%**

of Morocco's export value;  
80% in volume (mining sector)



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

Fraser Institute Annual Survey of  
Mining Companies, 2022



**710,850km<sup>2</sup>**  
area

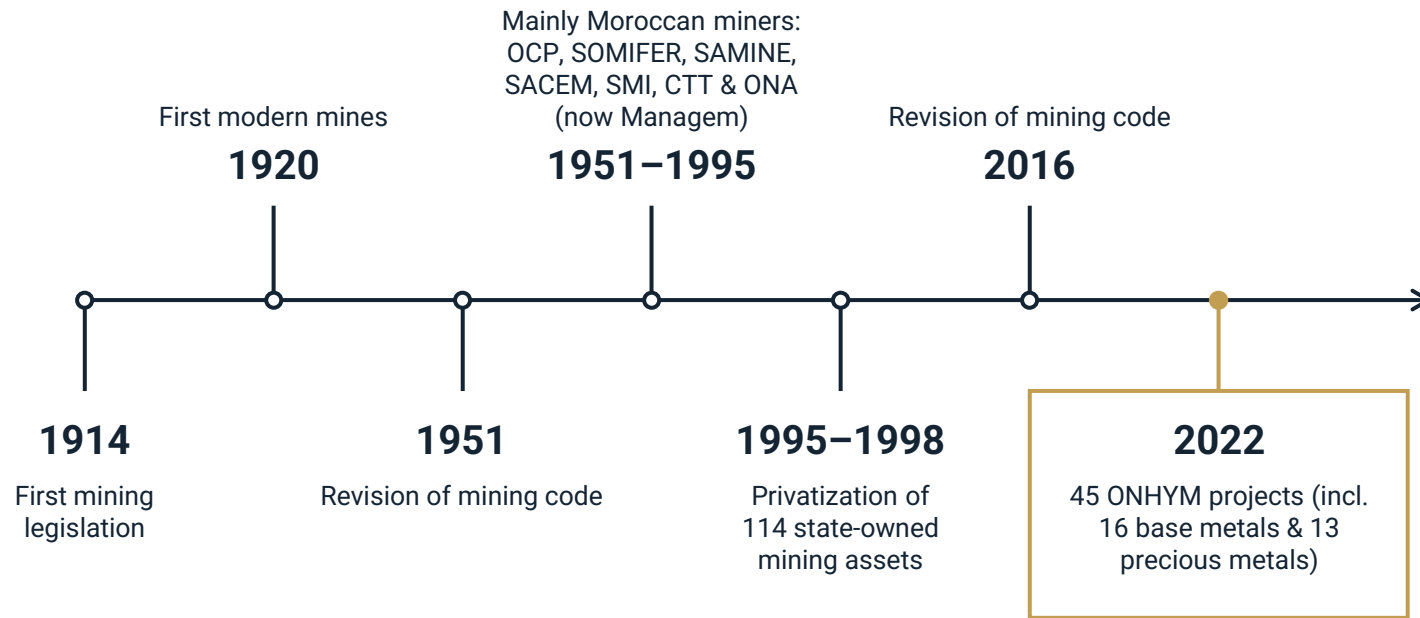


**10%**

GDP (mining sector, 90% of  
which from phosphates)



# Morocco – Developing the Mining Sector



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

Sources CIA World Factbook, October 2021, Silver Institute's World Silver Survey 2022, and ONHYM's Mining Overview 2020

\*2023



# Our Assets – Morocco-Focused, Quality Growth Portfolio

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

- 2022 production of **1.88M oz**
- 2023 guidance of **1.7M – 1.9M oz**
- Significant increase in 2024 production due to expansion
- **96M oz** M&I resources at 306 g/t Ag

## Development Upside

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

## Exploration Upside

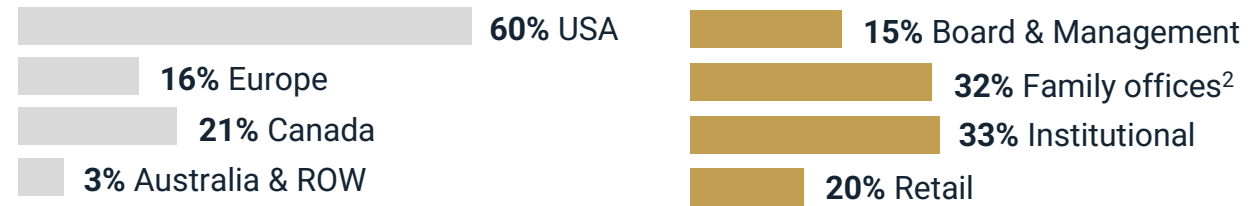
- Zgounder Regional
- Tirzzit
- Imiter bis
- Azegour
- Amizmiz





# 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 Board and insiders

| Exchanges – TSX: AYA   OTCQX: AYASF |      |         |
|-------------------------------------|------|---------|
| Shares – Basic                      |      | 122.3M  |
| Shares – F.D.*                      |      | 128.7M  |
| Share Price (Dec. 1, 2023)          | C\$  | \$10.33 |
| Market Cap (Dec. 1, 2023)           | C\$  | \$1.26B |
| Cash (Sept. 30, 2023)**             | US\$ | \$71M   |
| Debt***                             | US\$ | \$100M  |
| 30-day average volume               | '000 | 870     |

**TSX** 30  
2023™

\* Includes 5.1m in options and 1.3M RSU/DSU.

\*\* Non-GAAP Measures, consisting of cash and cash equivalents of \$50,609,505 and restricted cash of \$20,562,506.

\*\*\* First drawdown (US\$35M) on project financing from EBRD (August 29, 2023 press release)





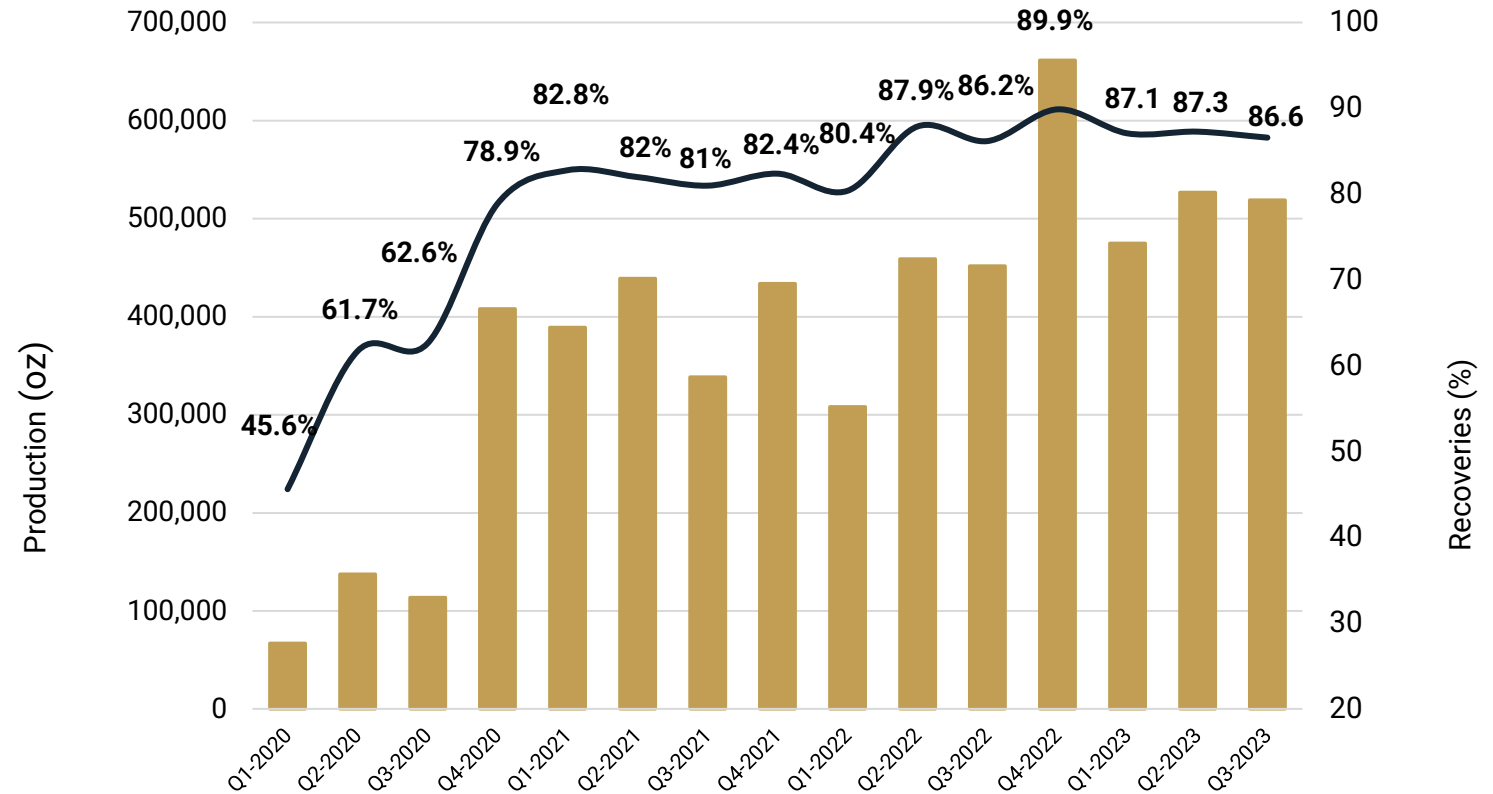
# Zgounder – Strong Execution and Operational Efficiencies

## 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

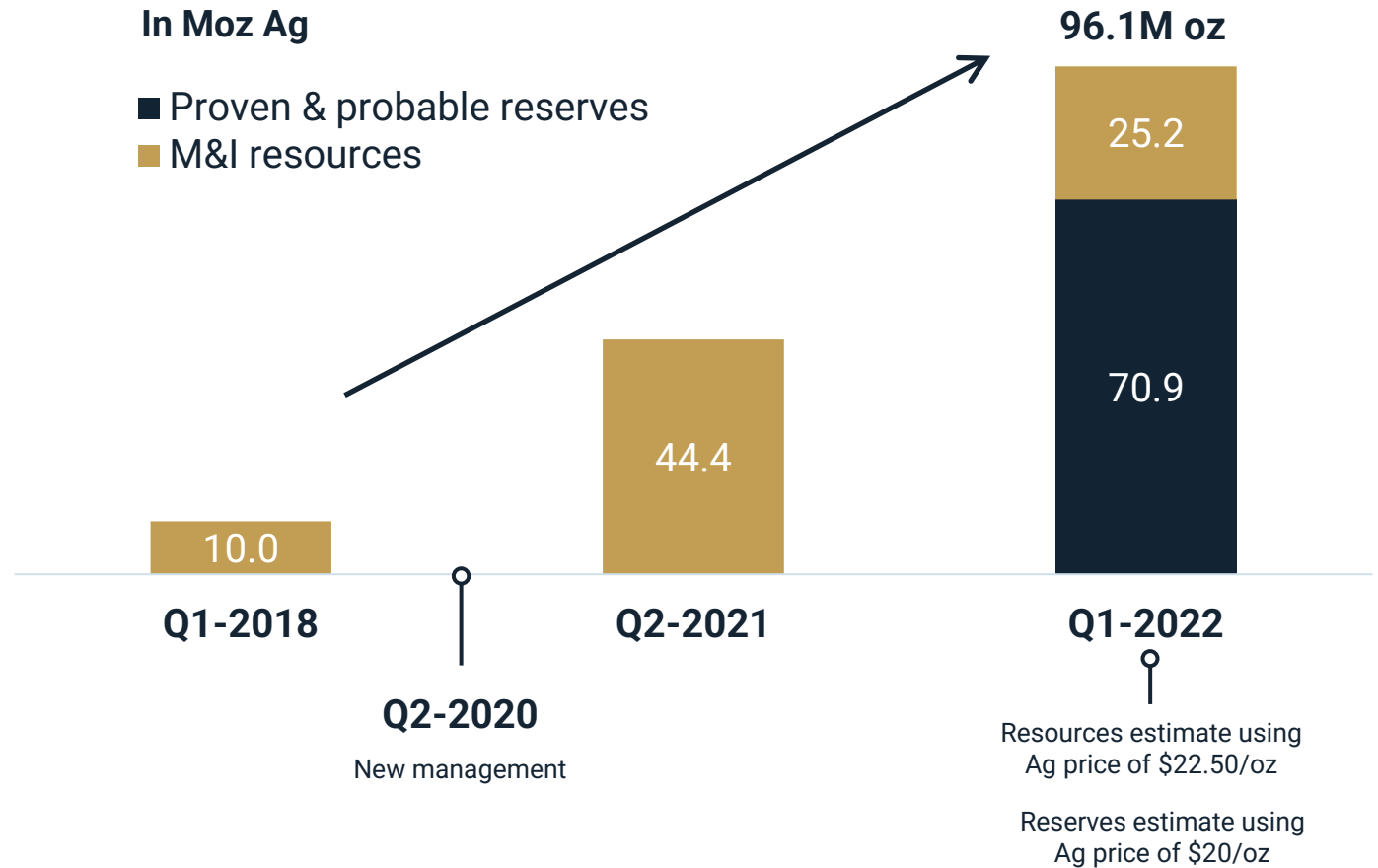
- Addition of cone crusher increased throughput; 700tpd+ nameplate capacity
- Commissioning of new equipment, such as jumbos, dumpers, scoops, crane & scissor lift platforms
- Improved operational standards
- Block model mining
- Grade control



# 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

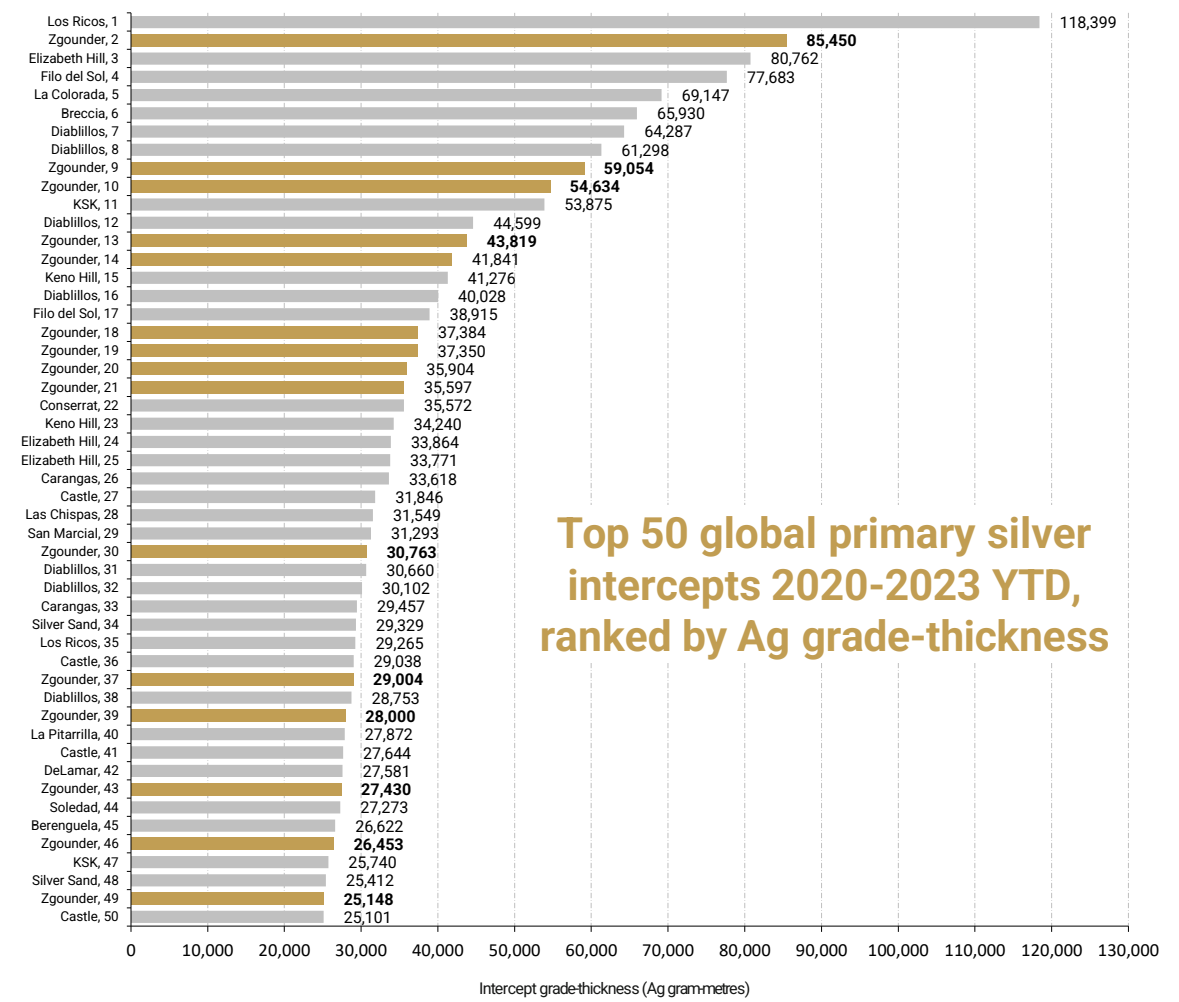
All mineral resources are exclusive of mineral reserves.



# 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
- 6.5m @ 6,437 g/t Ag



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

<sup>1</sup> Refer to Aya Gold & Silver Press Releases (<https://ayagoldsilver.com/press-releases/>)



# Zgounder – Mineral Reserves

## 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 (K)   | 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)



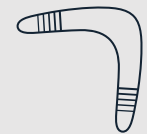
**11-year**

LOM



**48%**

Post-tax IRR  
(\$22/oz)



**1.7-year**

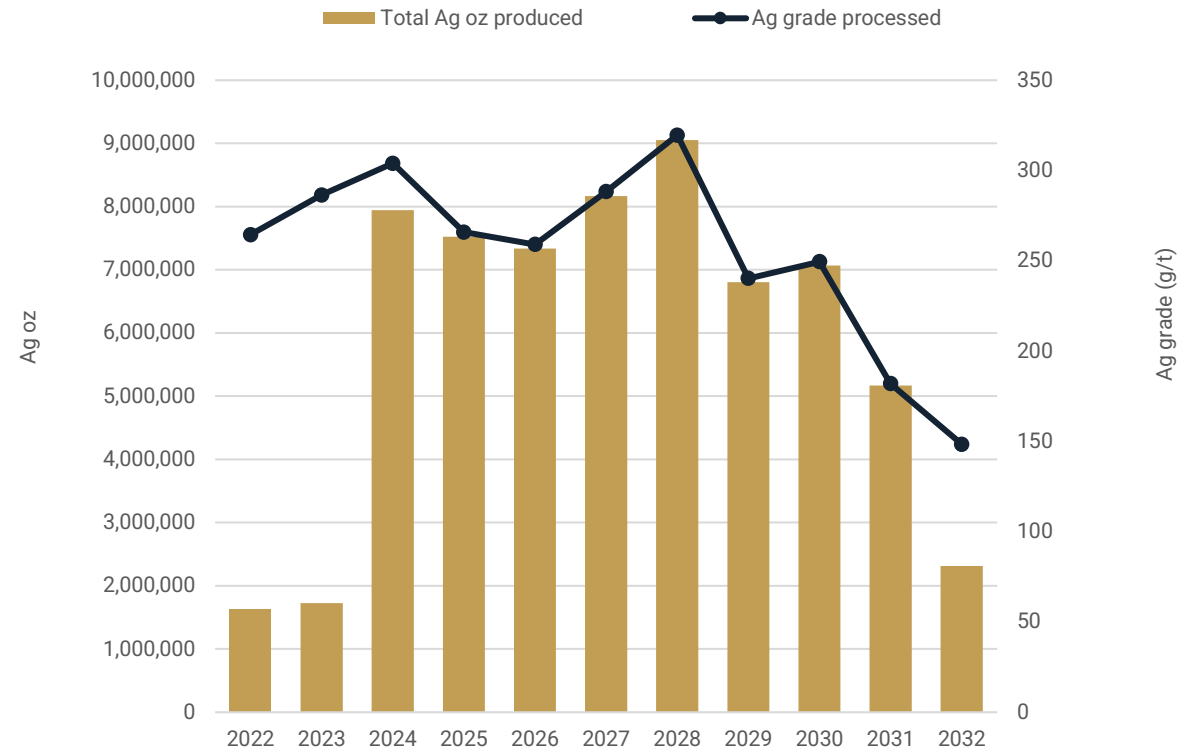
Payback  
(post-expansion)



**ESG**

Plan  
enhancements

## LOM Production Profile\*



\* Based on projections of 2022 Zgounder Expansion feasibility study



# ZGOUNDER MINE | Open-pit production

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

EXISTING TAILINGS  
STORAGE FACILITY

NEW PROCESS PLANT

## Expanded operations will combine:

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

OPEN PIT

HISTORICAL TAILINGS  
STORAGE FACILITY







Zgounder  
flotation plant

ROM pad

Emergency  
process water  
pond

Ore silo  
platform

Merrill-Crowe &  
silver room platforms

Crushing  
platforms

Milling  
platform

Leaching reactor  
platform

CCD platforms

Electrical  
substation

**CONSTRUCTION OF ZGOUNDER NEW  
PROCESSING PLANT | OCTOBER 2023**



# Zgounder – Q3-2023 Expansion Highlights

Tailings storage facility is near-complete

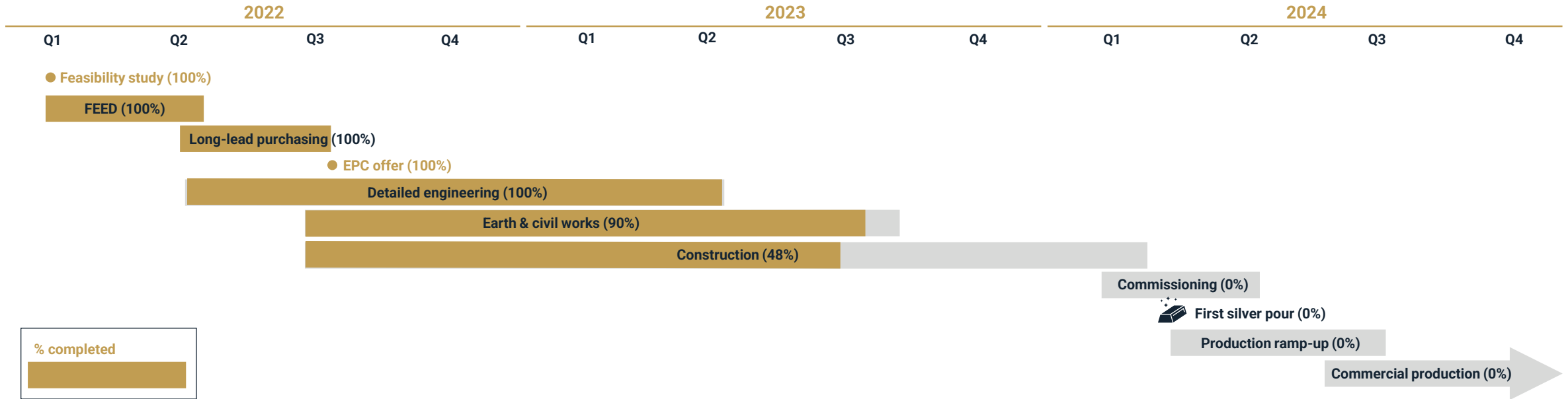


Erection of leach tank steelwork began in Q3





# Zgounder – Expansion 60% Complete at Quarter-End and on Budget





# 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

**2023 Priorities:** solidifying H&S processes, mine rescue, emergency readiness, and training.



**Ongoing**  
Best practices for risk management



**3,166 hours**  
of H&S training in 2022



**0 fatalities**  
Reported in 2022



## Corporate Social Responsibility

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



**46%**  
Local workforce

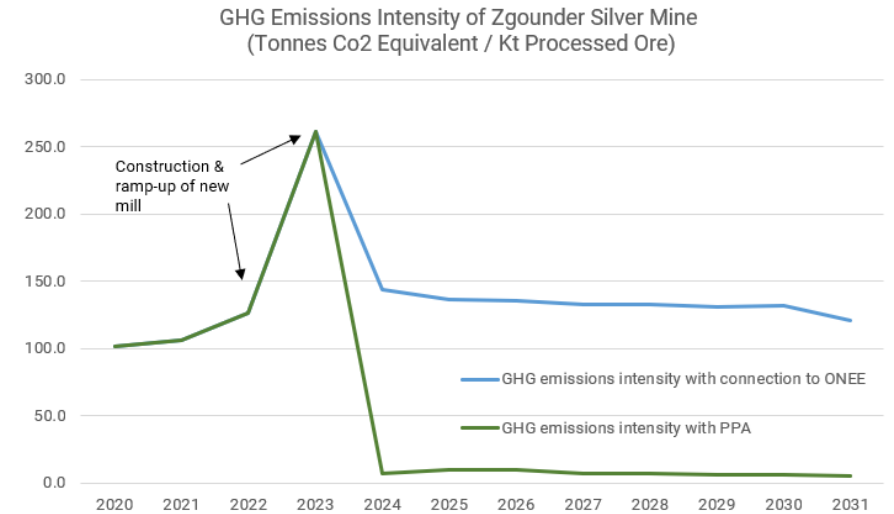


**99%**  
National workforce

**75%**  
National procurement



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



**Alignment of community program with Morocco's National Initiative for Human Development**

المبادرة الوطنية للتنمية البشرية  
Initiative Nationale pour le Développement Humain

<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 – High Governance Standards

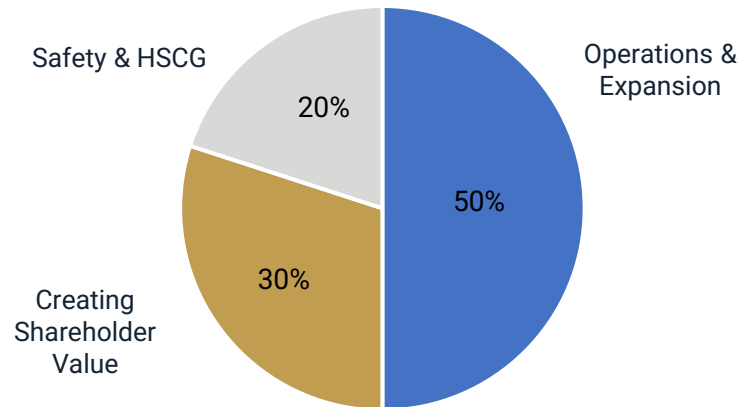
## Achieved in the last three years since arrival of new management team

**37%**  
Women  
board members

**87%**  
Director  
independence

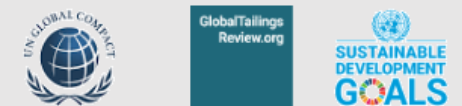
**15%**  
Board & management holdings  
(As of September 1, 2023)

## 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







# Exploration

- 1 Aya
- 2 Zgounder Silver Mine
- 3 **Exploration**
- 4 Catalysts



# Aya – 2023 Drilling Program Increased to 119,000m

## Growth Pipeline Includes **Five** Priority Projects

### Zgounder Silver Mine

- 9,066m completed of 29,000m budgeted
- Follow up early 2023 results east of deposit and RC results in the southern part of the open pit

### Boumadine (Development)

- 61,310m completed of 76,000m budgeted
- Infill drill & explore along strike, at depth, new targets

### Zgounder Regional (Exploration)

- 8,620m completed of 14,000m budgeted
- Build on 2022 results; test continuation of the Zgounder deposit; and new targets

### Tirzzit (Exploration)

- Initial stream sediment and mapping campaign
- High resolution hyperspectral survey

### Tijirit – Mauritania (Development)

- 25,000m program complete
- Convert resources into reserves



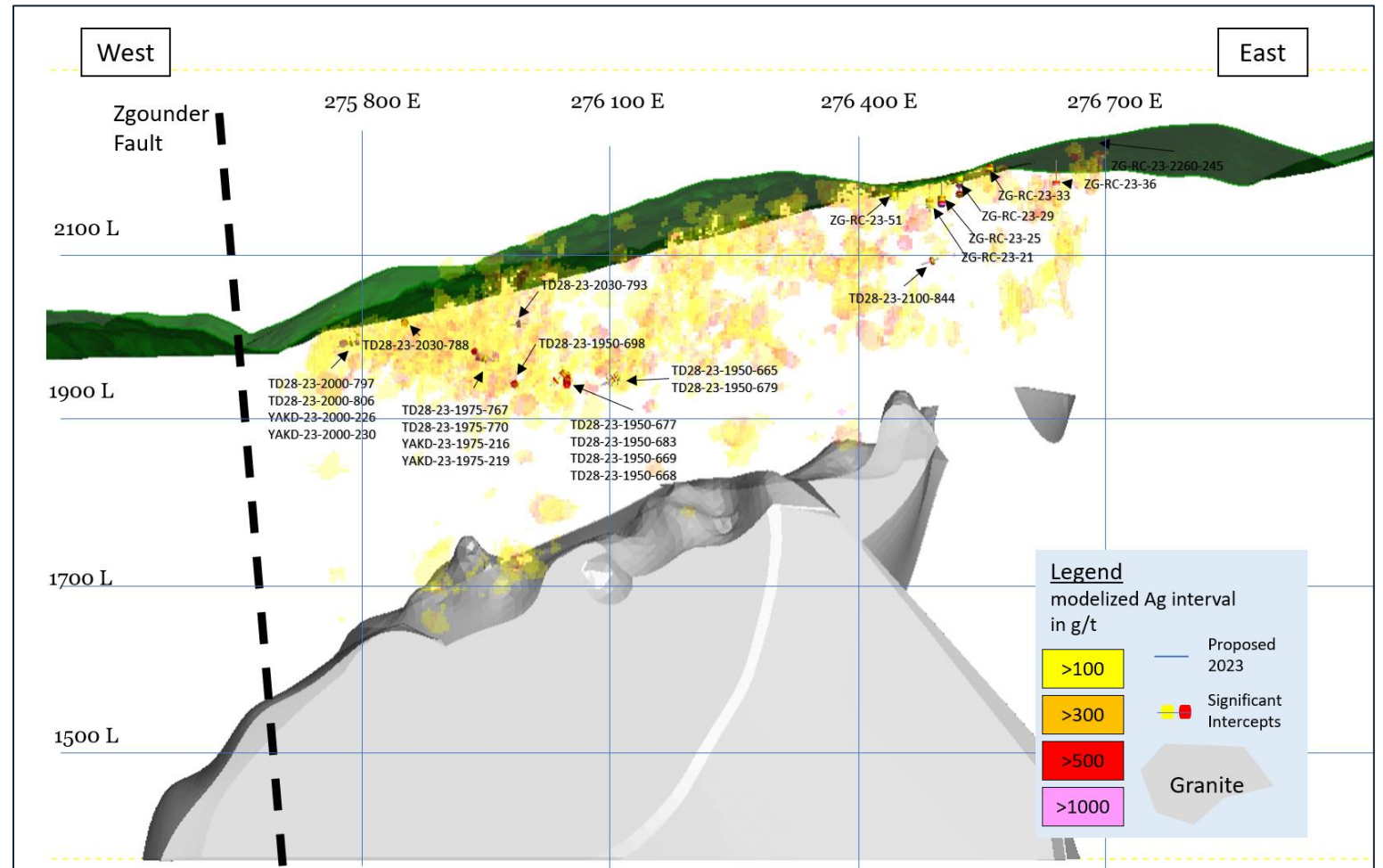


# Zgounder – Near-Mine Drill Program (Ag) One-Third Complete

**9,066m** completed of the **29,000m** budgeted for near-mine drilling

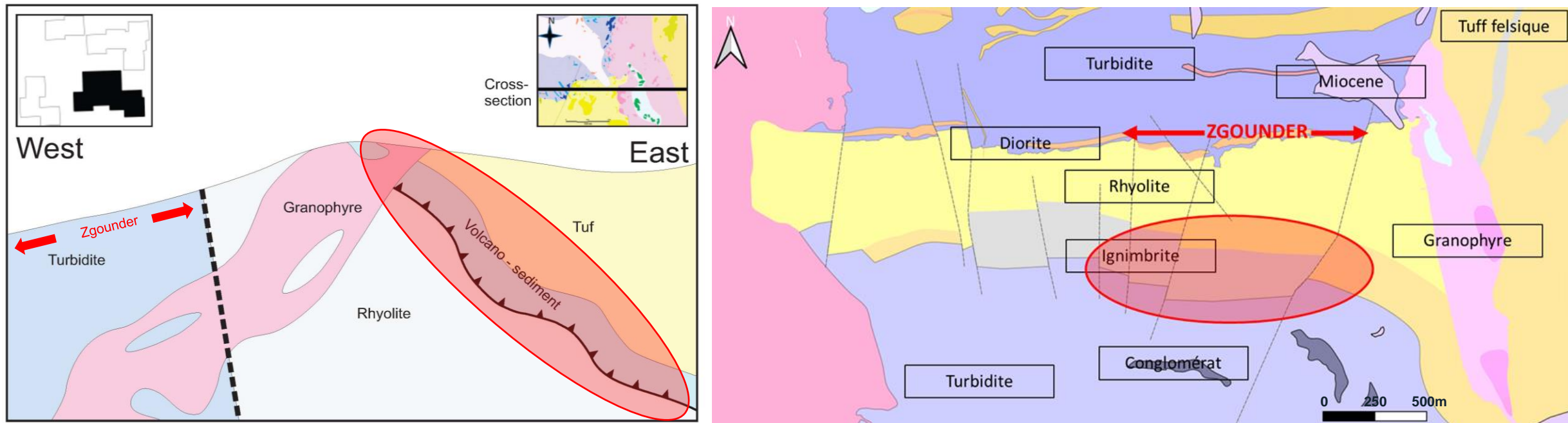
## Recent Drill Result Highlights<sup>1</sup>

- 2,812 g/t Ag over 8.0m
- 1,242 g/t Ag over 9.0m, including 2,052 g/t Ag over 5.0m
- 2,227 g/t Ag over 7.0m, including 6,768 g/t Ag over 2.0m
- 812 g/t Ag over 13.5m, including 2,207 g/t Ag over 4.5m
- 4,980 g/t Ag over 7.5m, including 9,234 g/t Ag over 4.0m
- 846 g/t Ag over 9.5m
- 480 g/t Ag over 17m, including 1,156 g/t Ag over 5.0m
- 1,706 g/t Ag over 7.2m, including 4,688 g/t Ag over 2.4m



# Zgounder Regional – Testing Possible East Extension & South Mirror

- 3,000m drilling to test drill conceptual target under the Neocene cover (Tuffs) east of the granophyre
  - Potential continuation of the Zgounder deposit (volcano-sediments).
- 3,000m 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



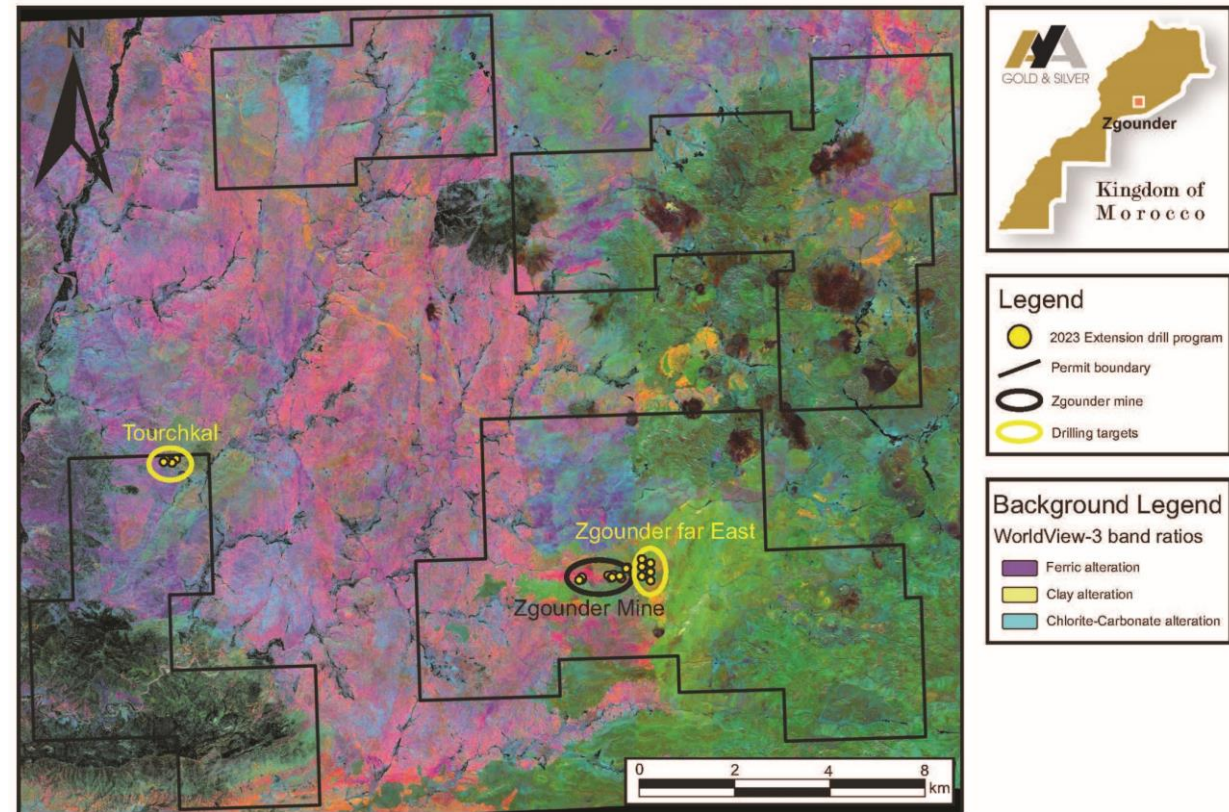
# Zgounder Regional – Expanded Drill Program and Land Package (Ag, Au, Cu)

## Expanded 2023 Drill Program of 14,000m

- 8,820m completed YTD of program including 830m on Tourcekal
- H2-2023 drilling is testing the potential continuation of the Zgounder deposit and a new target in Tourcekal
- Acquisition of 4 new permits, boosting Zgounder total surface footprint to 428 km<sup>2</sup>
- Prospective package for epithermal Ag, Au or Cu-Au vein mineralization

## Informed by comprehensive geophysical and mapping programs

- 1,061 grab samples taken to date across the exploration permits
- Airborne geophysics survey data (magnetic, VTEM and radiometric)
- Stream sediment campaign (954 samples)





# Boumadine – Accelerated Development (Au, Ag, Pb, Zn, Cu)

## Proving up Mineralization through Drilling<sup>1</sup>

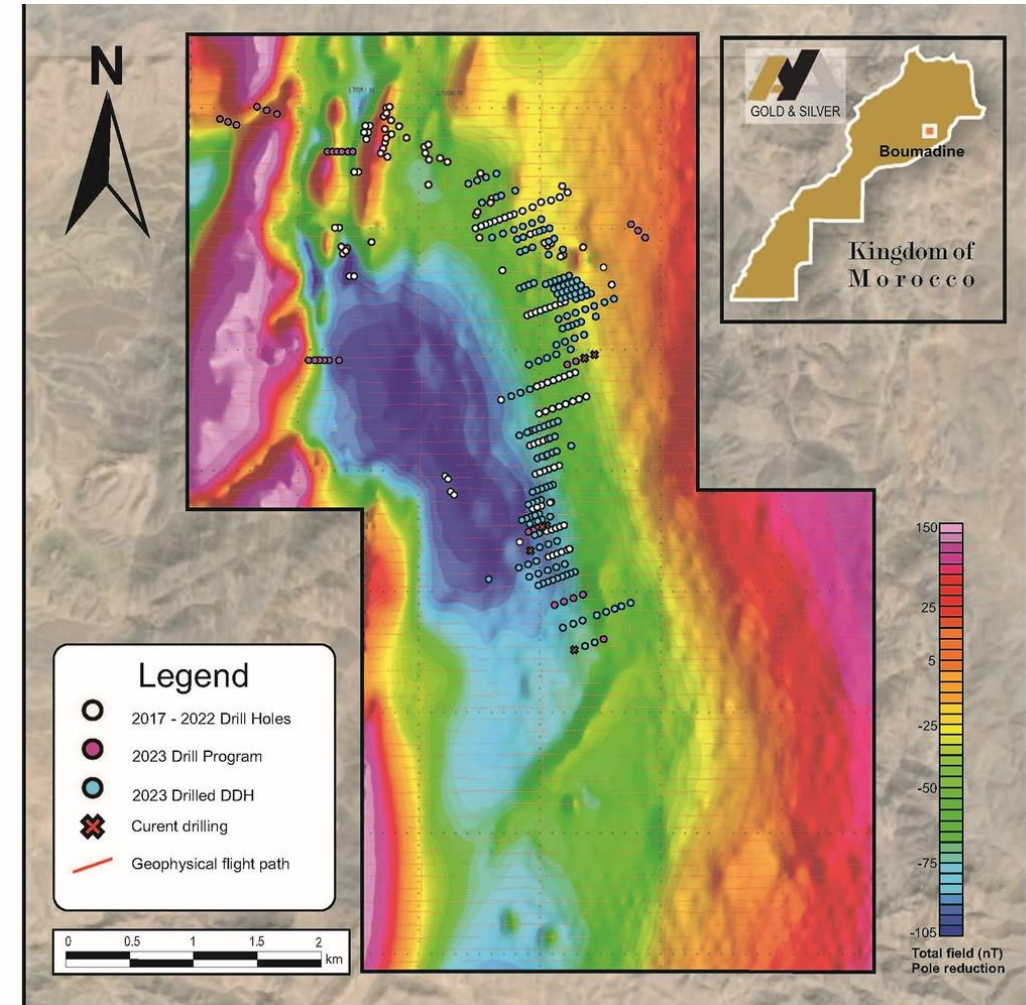
- Expanded **76,000m** drill program now ~80% complete
- **4.2km** strike length of Main Trend **open at both ends** (6km hydrothermal system)
- **Definition of a new high-grade mineralized stockwork area** that expands the South Zone along strike and at depth
- Confirmation of **high-grade mineralization** in the central and northern portions of the Main Trend
- **Discovery of a new at-surface northwest area** through mapping that extends more than 1.5km
- Addition of **4 new permits**, increasing Boumadine surface footprint to **78 km<sup>2</sup>**
- **NI 43-101-compliant** resource estimate expected in Q1-2024

## De-risking through 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, and November 20, 2023 press releases

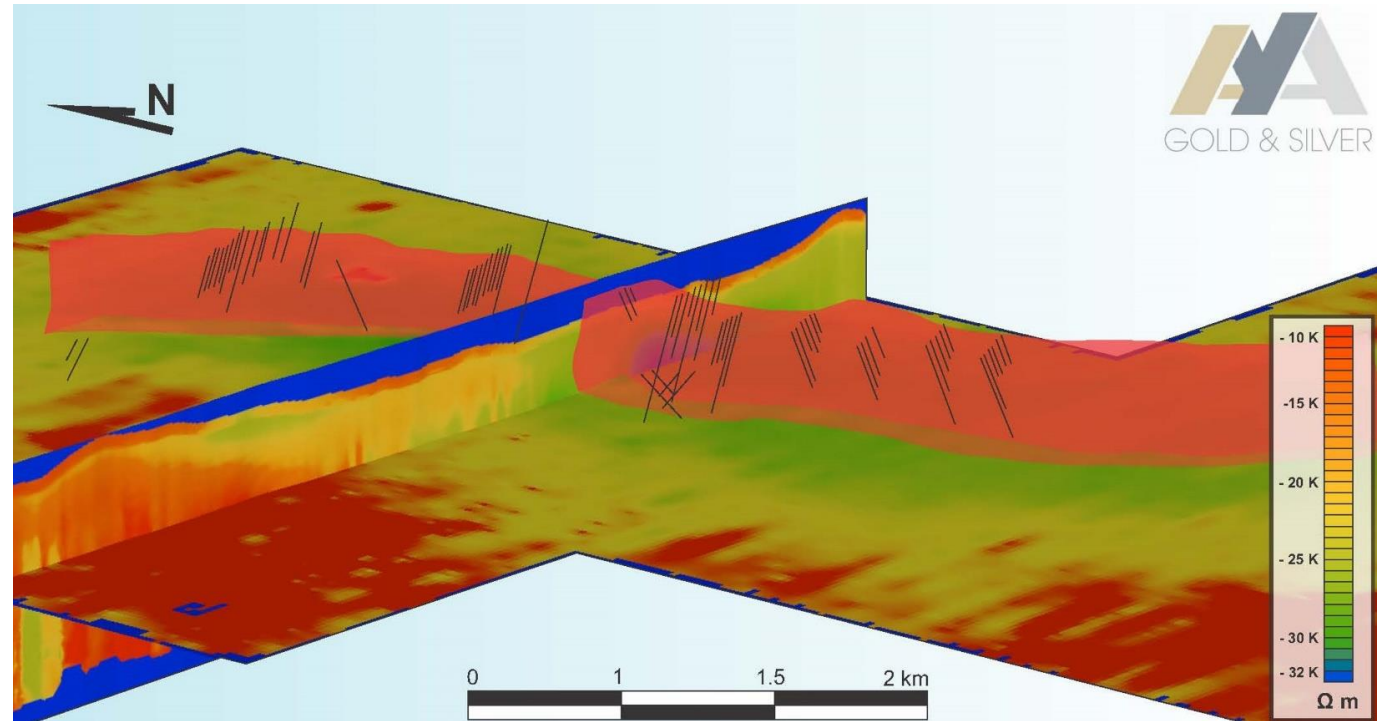
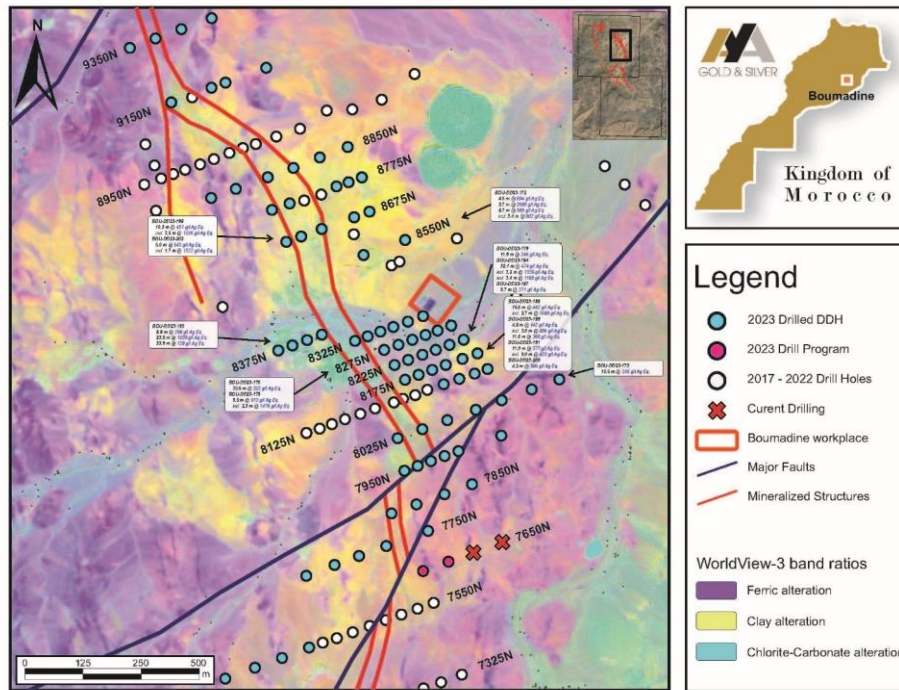
<sup>2</sup> Refer to Aya Gold & Silver's November 9, 2023 press release



# Boumadine – Main Zone Open in All Directions, Along Strike and At-Depth

## 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)
- 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)
- 664 g/t AgEq over 8.4m (4.72 g/t Au, 122 g/t Ag, 1.1% Zn, 0.2% Pb and 0.3% Cu)



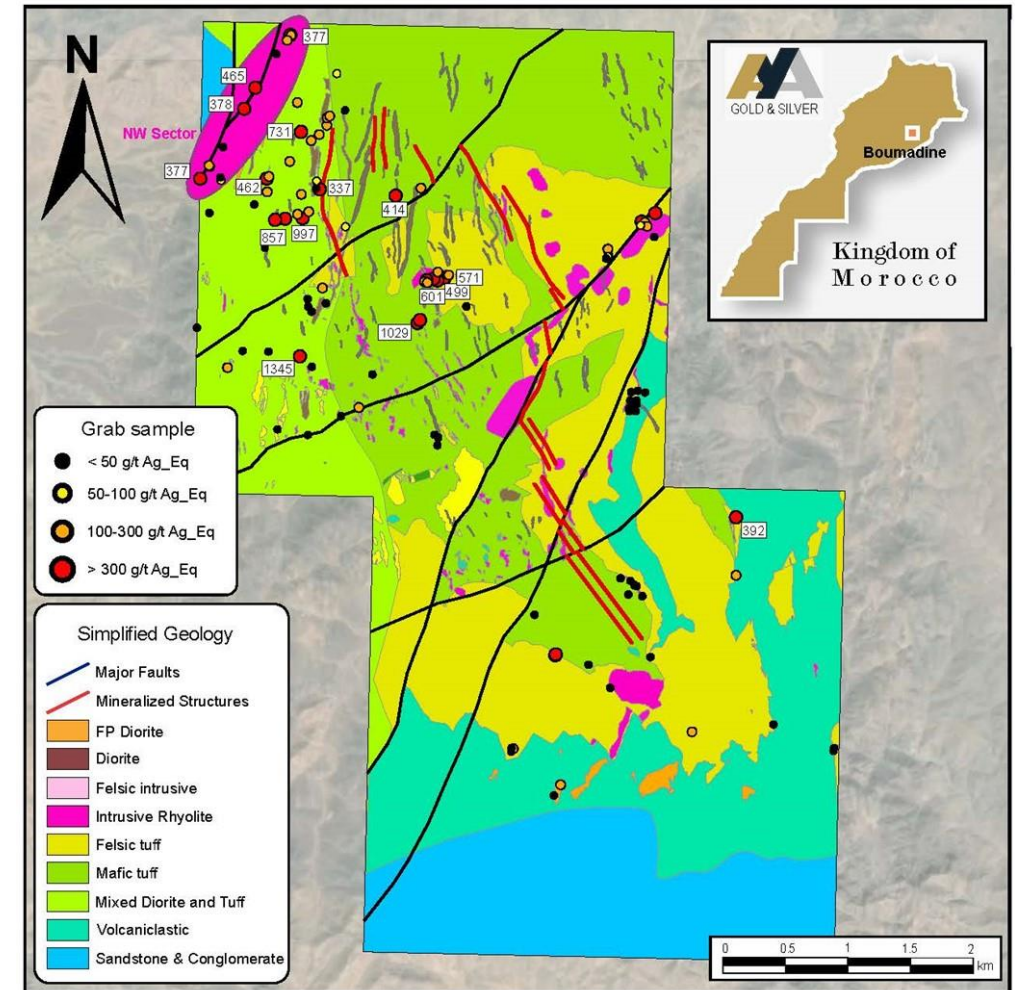
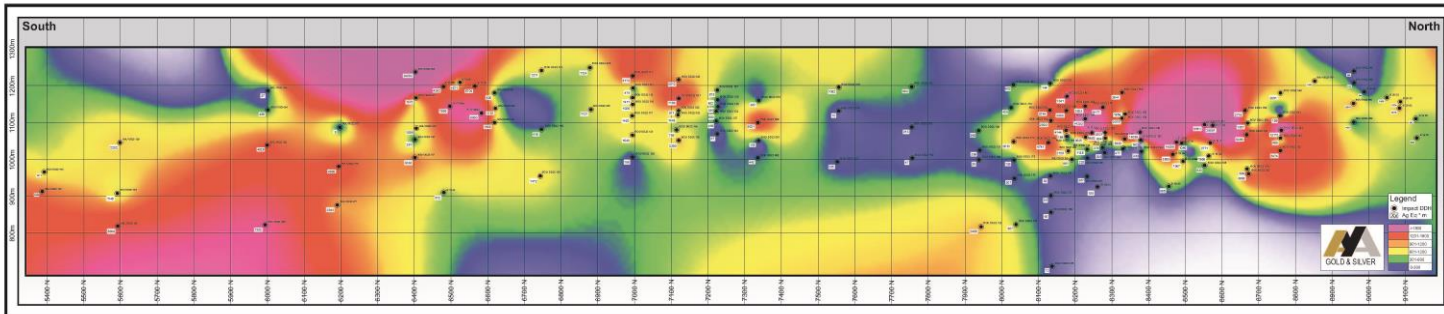
<sup>1</sup> Refer to Aya Gold & Silver's April 19, 2023, July 5, 2023, September 19, 2023, October 12, 2023, and November 20, 2023 press releases



# Boumadine – Longitudinal View of Main Zone and Simplified Geology

## Longitudinal Section

- The longitudinal section shows the results of the Boumadine Main Zone along the deposit, defining ore shoots shallowly dipping toward south, in both the Central and South Zones.





# Tirzzit – Historical Copper Mine & Potential New District (Cu, Ag)

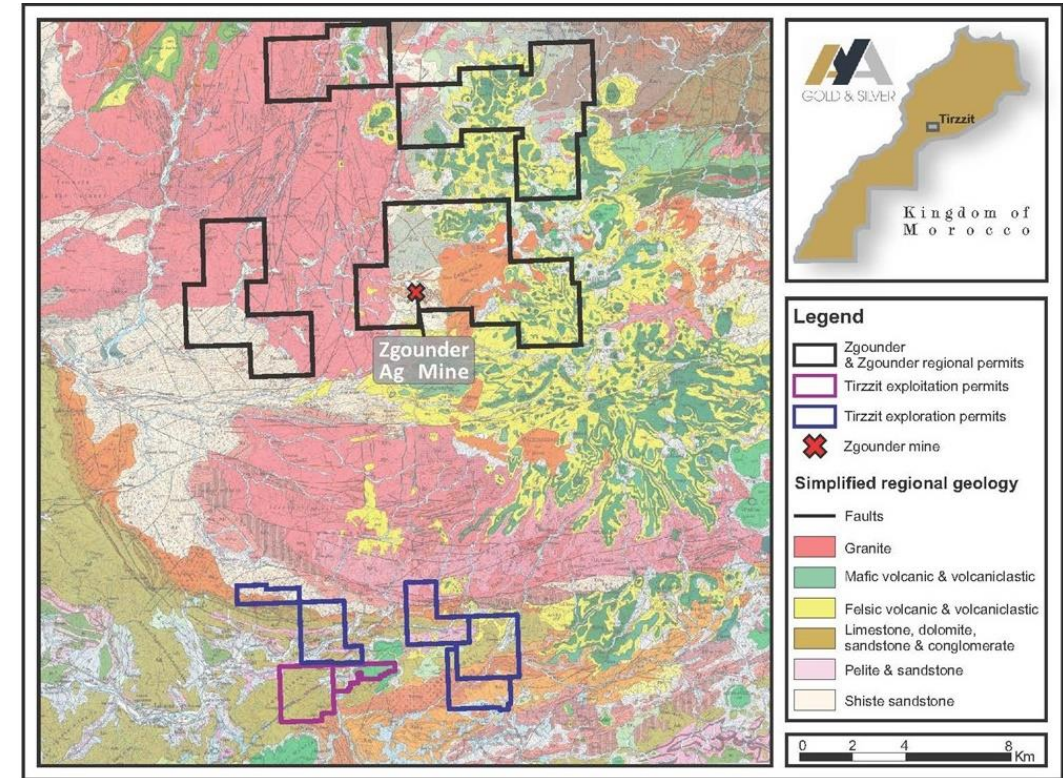
**Collection of 7 permits including the historical Tirzzit Copper Mine on Morocco’s Anti-Atlas range, 25 km south of Zgounder**

**Through the June 2023 transaction, Aya acquires:**

- Historical copper mine offering near-surface silver and copper mineralization potential, with historical drilling intercepts of up to **3.5% Cu**
- Historical data including drill results and geophysics, which will be used to launch fieldwork
- Land holdings totaling 67.7km
- 2023 exploration work to include initial stream sediment and mapping campaign and high-resolution hyperspectral survey

## Potential

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



# Aya – Catalysts

- Zgounder & Boumadine drill program results
- Boumadine resource estimate
- Zgounder Silver Mine expansion
- Achieve 2023 silver production and cost guidance
- Achieve 2023 ESG milestones of EBRD-CTF loan agreement







1320 Graham, suite 132  
Ville Mont-Royal, QC H3P 3C8

**Benoit La Salle** : [Benoit.Lasalle@ayagoldsilver.com](mailto:Benoit.Lasalle@ayagoldsilver.com)

**Alex Ball** : [Alex.Ball@ayagoldsilver.com](mailto:Alex.Ball@ayagoldsilver.com)

[www.ayagoldsilver.com](http://www.ayagoldsilver.com) | [info@ayagoldsilver.com](mailto:info@ayagoldsilver.com)

**TSX: AYA | OTCQX: AYASF**