



CORPORATE PRESENTATION 2023

# FAST TRACKING THE DEVELOPMENT OF THE BANIO POTASH PROJECT

TSX-V: **MLP** | OTCQB: **MLPNF** | FRANKFURT: **X0D**





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The technical information contained in this presentation has been reviewed and approved by Peter J. MacLean, Ph.D., P.Geo, Director of the Company and a Qualified Person as that term is defined in National Instrument 43-101.



## OUR VISION AND STRATEGY



MARKET  
VIEW

Potash – Food security,  
traditional supply source  
constrained



VISION

Develop quality potash  
assets with low-cost  
structure and good  
infrastructure



STRATEGY  
EXECUTION

Strong team to build the  
project: right industry, right  
country, right project



# FAST TRACKING THE DEVELOPMENT OF SOLUTION MINING POTASH PROJECT – KEY SUCCESS FACTORS

## 100% Ownership Acquisition

- Millennial Potash is acquiring up to 100% of the Banio Potash Project in Gabon through staged payments and exploration work

## Development Plan - Major Milestones

- Initial drill program, seismic data compilation, resampling historic drillholes, ESG startup – H1 2023
- Initial drill program, and resource estimate - H2 2023
- Preliminary Economic Assessment – H2 2023
- Additional drilling, ESIA, Feasibility Study start - H1 2024
- Trial solution mining cavern and preliminary engineering - H2 2024

## Positive Dynamic in the Potash Sector

- Significant supply constraints due to geopolitical risks
- Solid demand for fertilizers including potash



## Large Potash – Bearing Basin with Drilling

- Significant historic drilling intersected significant potash-rich horizons from 230m to 520m depths
- Continuous carnallite and sylvinite seams – 1.7m to 28.8m thick
- Significant upside potential

## Strategically Located with Good Infrastructure

- Project located in the well-known potash-bearing basin in business-friendly Gabon
- Proximity to largest potash importing nations
- Exploration Camp, drill rigs, drill core on site
- New port facility planned for Mayumba

## Solid Track Record of Management & Board

- Experienced in potash and other large mining projects, with a track record of multiple M&A exits
- Developed and exited two large potash projects in Africa and North America



# RIGHT MANAGEMENT TEAM – REPLICATING PAST SUCCESS

## **Farhad Abasov, MBA** Chairman, Director

- Mr. Abasov has built and sold multiple resource companies: President and CEO, Millennial Lithium sold to Lithium Americas for \$490M;
- President and CEO, Allana Potash Corp. sold to Israel Chemicals Ltd. for \$170M
- A co-founder of Potash One sold to K+S for \$430M
- Senior VP of Energy Metals sold to Uranium One for \$1.8B.
- Raised over \$500 million for public and private companies in energy and mining sectors

## **Jason Wilkinson M.Sc.** Chief Executive Officer

- Mining and exploration professional with 25 years' experience across a range of commodities
- Mr. Wilkinson was the past Chief Operating Officer for South Harz Potash directing efforts at their German potash project.
- Previously in-country MD for Allana Potash Corp based in Ethiopia responsible for the exploration drill-out and feasibility study work and facilitated transfer to Israel Chemicals Ltd.

## **Paul Matysek, M.Sc.** Senior Strategic Advisor

- Has built and sold multiple mining companies in the last 40 years including as the CEO of Energy Metals sold for \$1.8B to Uranium One
- Extensive experience in potash sector, as CEO of Potash One led the development of its flagship Legacy Potash Project in Saskatchewan. Potash One was acquired by K+S Ag for \$434 million in 2011.
- Recently active in the lithium space as Executive Chairman of Lithium X Energy Corp., sold to Nextview New Energy Lion Hong Kong Limited for \$265 million.

## **Rick Lacroix, B.Sc.** Director

- Mr. Lacroix SVP of Potash Corp of Saskatchewan (now Nutrien) and as a Director of Canpotex, the overseas marketing arm for Canadian potash producers.
- Mr. Lacroix served as a Director for Allana Potash Corp. and was involved in the Company's feasibility study on its Danakhil Potash Project.
- Mr. Lacroix also served on the Board of Millennial Lithium Corp. and assisted in the acquisition of Millennial by Lithium Americas for \$490M in 2022. Mr. Lacroix has a B.Sc. in electrical engineering from the University of Saskatchewan.

## **Graham Harris, B.A.** Senior VP, Capital Markets, Director

- Founder, Chair and Director of Millennial Lithium Corp. recently acquired by Lithium Americas for \$490M
- Has over 40 years' experience, directly raised over \$400 million in development and venture capital for public and private companies

## **Dr. Mark Stauffer Ph.D. , P.Ag.** Director

- Former President of the Potash and Phosphate Institute of Canada ("PPIC")..
- Also, past Director of Migao Corporation, a past Chairman of Allana Potash Corp. and past Director of Gensource Potash Corp.

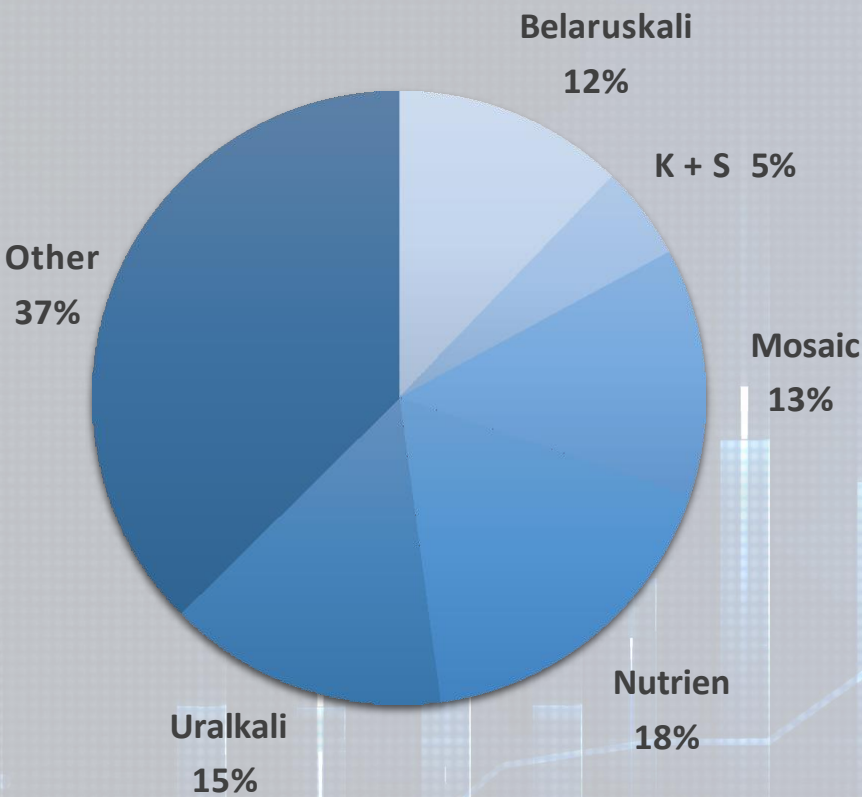
## **Peter J. MacLean, Ph.D., P. Geo** Director

- Over 30 years of exploration and development experience in North America, South America and Africa.
- Recently SVP, Technical Services for Millennial Lithium Corp. and SVP, Exploration, for Allana Potash Corp.
- Extensive experience on base metal and precious metal projects throughout the Americas and is a professional geoscientist (P. Geo)

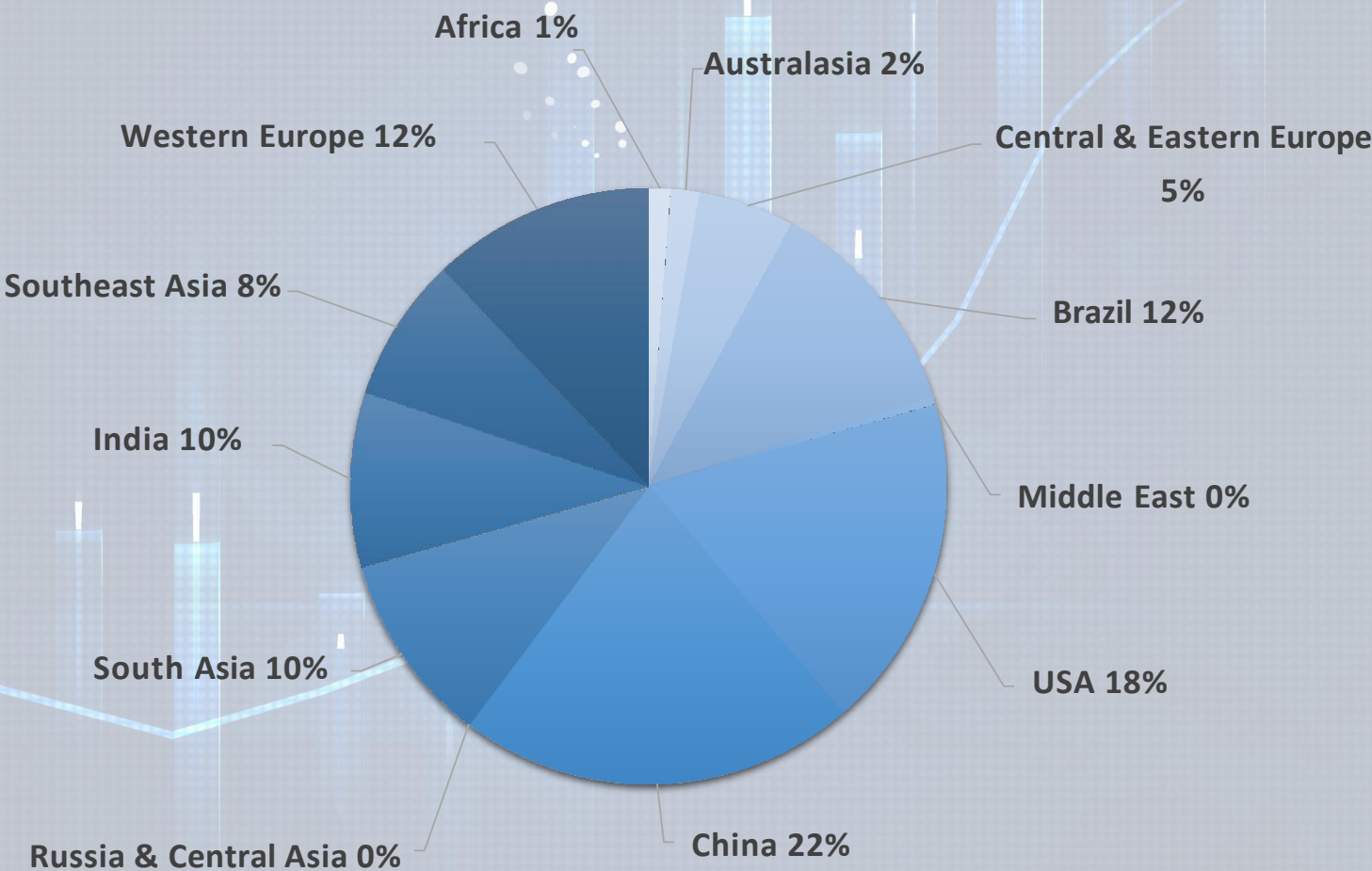


# POSITIVE INDUSTRY DYNAMICS – DEMAND TO CONTINUE

Market Share b/n Major Potash Producers



MOP Demand Breakdown



Sanctions against Russia and Belarus decreases global annual MOP capacity to approx. 55M tonnes while demand is approx. 73M tonnes

Demand is expected to increase to approx. 90M tonnes by 2030 due to population growth where the increase in affluence in developing nations will lead to higher quality food products



# MILLENNIAL POTASH — IN A PROVEN POTASH BASIN

The Millennial Potash Project 1,238 km<sup>2</sup> and is located approx. 450 km south of Libreville along the Atlantic coast of Gabon

Congo Basin is a proven potash basin with numerous project in the Republic of Congo (ROC)

Access via several roads to Mayumba and waterways provide alternative access to the project

Mayumba is a small port city approx. 50 km north of the main project area

Banio is located on the seaward side of a long lagoon which extends from Mayumba in the north to the border with ROC





# MILLENNIAL POTASH PROJECT – GABON, SOLID JURISDICTION

Stable country with low sovereign risk, 3rd highest per capita GDP in Africa; joined the British Commonwealth (June 2022)

Transparent mining jurisdiction, proactive in diversification from mainstay oil and gas industries

Recently revised investor-friendly mining law

Major global companies such as Fortescue, Eramet, Total, Shell developing projects in the country

Excellent sea transport links



# MILLENNIAL POTASH PROJECT – PAST EXPLORATION

Past oil and gas exploration in the Mayumba area - indicating the extension of the Congo Basin north into Gabon

Down hole geophysical surveys, seismic studies in the region indicated flat-lying stratigraphy and correlatability with potash-bearing units in ROC



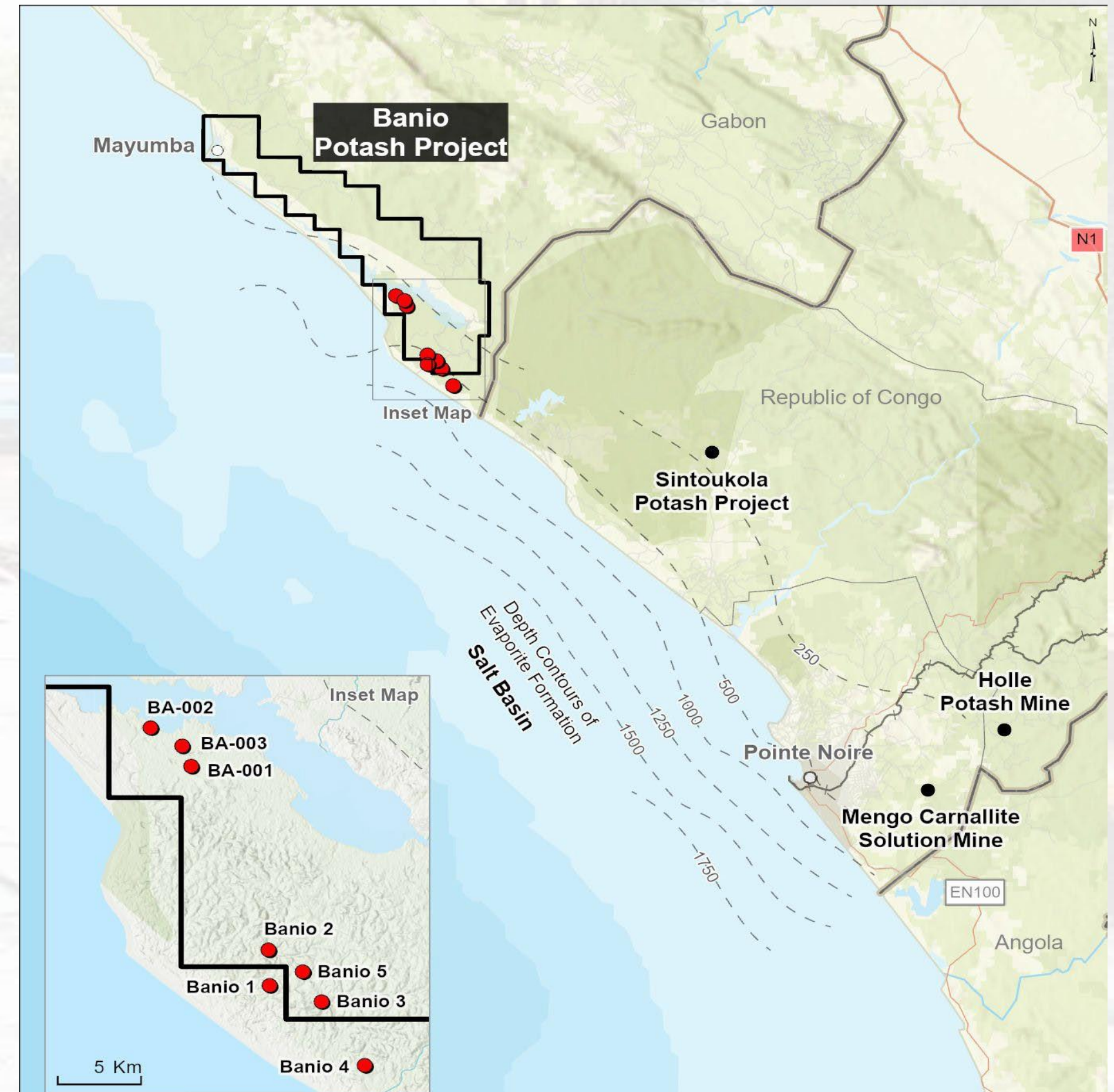


# MILLENNIAL POTASH PROJECT – PAST EXPLORATION

Previous operator completed 3 potash core drillholes in 2017 at the Alpha Target in the central part of the license

Potash at Alpha is fairly shallow, intersected from 230m to 520m depth

Drilling defined 5 potash cycles in the target evaporite stratigraphy comprised of thick carnallite and higher grade sylvinite beds





# MILLENNIAL POTASH PROJECT – PAST DRILL RESULTS\*

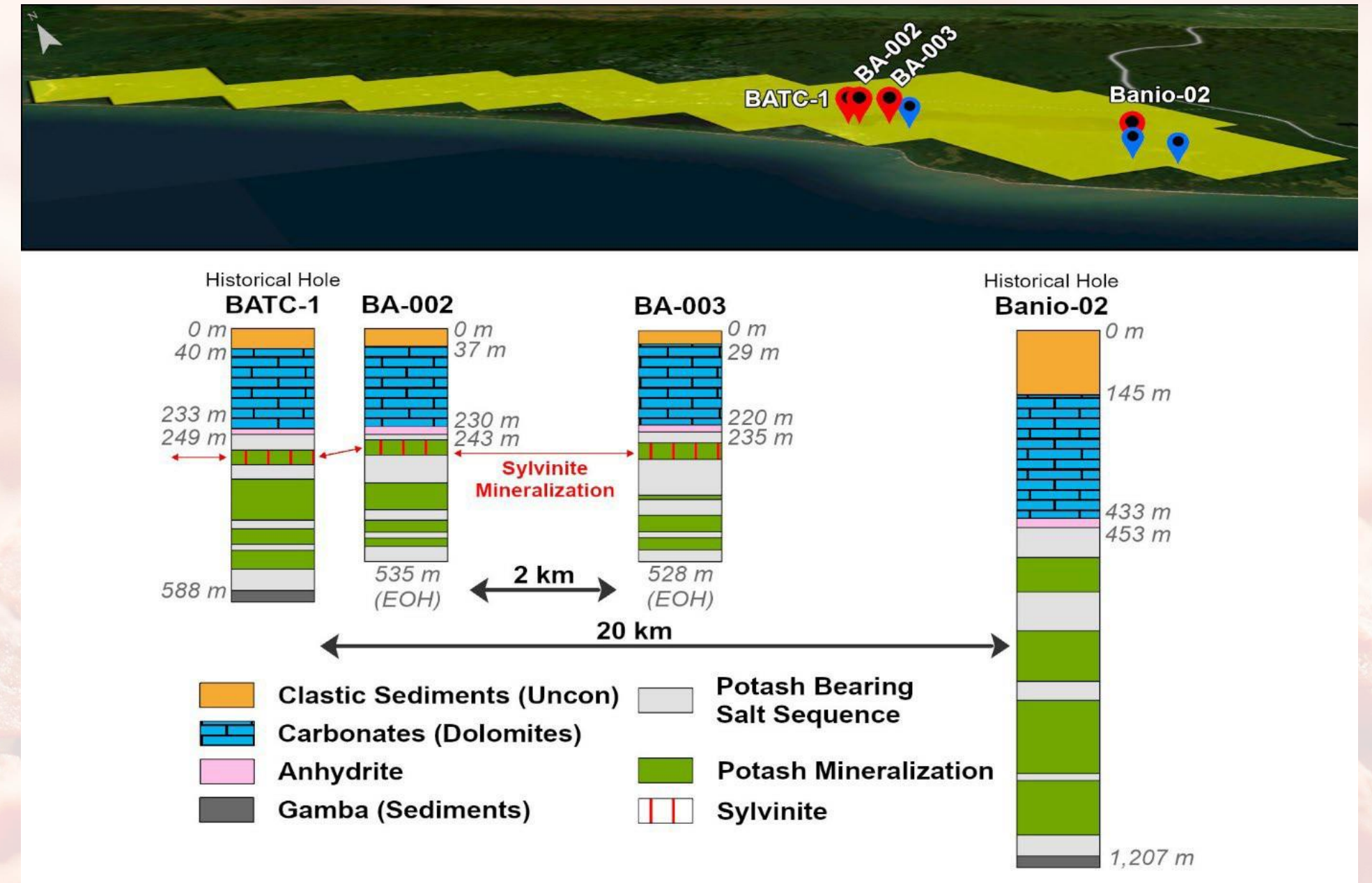
## \* BA-002 returned :

- 1.9m at 29.5% KCl from 284.4m sylvinite,
- 1.4m at 34.9% KCl from 281.0m sylvinite,
- 1.0m at 29.7% KCl from 263.9m sylvinite,
- 2.6m at 32.9% KCl from 324.6m sylvinite
- 7.2m at 18.8% KCl from 409.7m, incl. 4.4m at 21.4% KCl from 409.7m carnallite, and
- 28.8m at 16.1% KCl from 438.7m carnallite

## \* BA-003 returned :

- 1.7m at 30.0% KCl from 237.8m sylvinite,
- 1.0m at 29.7% KCl from 264.6m sylvinite,
- 3.9m at 21.2% KCl from 430.26m carnallite,
- 11.8m at 16.0% KCl from 456.98m carnallite,
- 13.3m at 18.2% KCl from 471.15m carnallite, and
- 6.4m at 16.0% KCl from 500.61m carnallite

\*Plymouth Minerals Ltd (previous operator). press release Aug. 15, 2017

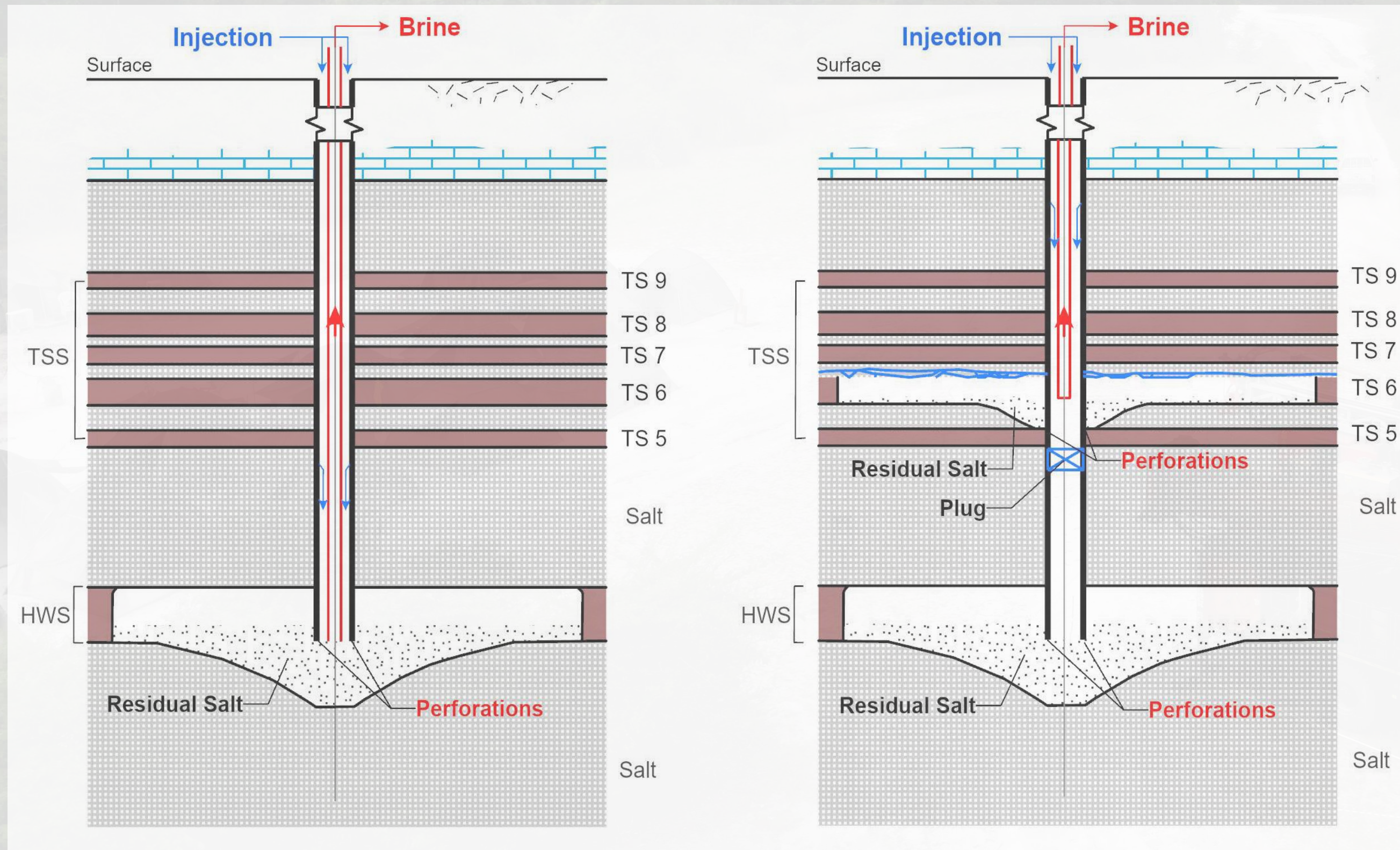


Previously drilled holes in red at Banio. Good correlation of potash cycles between holes BA002 and BA003 and with oil/gas holes BATC-1 and B02 located 20 km south within the licence.

No qualified person has verified for the Company data disclosed publicly by the previous operator



# GABON POTASH BASIN – TYPICAL SOLUTION MINING



Solution mining potential; several potash-bearing layers can be exploited using single well injection/extraction. Solution mining typically has lower CAPEX than conventional U/G mining and can be carried out in stages with a modular approach



## MILLENNIAL POTASH PROJECT – PROGRESS H1 2023



Progress in H1 2023 includes camp rehabilitation, refurbishing and maintenance on drill equipment, and clearing old drill roads to new drillhole BA-004

A new drill rig capable of drilling to +1,200m depths has been mobilized out of Europe and arrived in Gabon in mid-June to facilitate deeper drilling



Seismic reinterpretation completed outlining the potash-bearing Salt Sequence reaches 800m thick providing attractive exploration targets.

Pulps from the 2017 drilling have been located and have been submitted to two labs specializing in potash analysis, the results will provide support for a potential resource estimate along with further drill results.



## MILLENNIAL POTASH PROJECT – LOCAL INFRASTRUCTURE



Exploration camp for 50 people, power generation, and air-conditioned accommodations rehabbed and operational

All drill core at site in air-conditioned storage, rotary drill equipment, spares, core logging and sampling supplies



Road access to Mayumba and then easy boat/barge access to site

Grande Mayumba constructing new port at Mayumba with storage/industrial park to service forestry, mining and agriculture as well as offshore oil and gas

21MW power plant and gas pipeline build-up at Mayumba headed by Perenco Oil and Gas and Gabonese government



# INFRASTRUCTURE BUILD UP – PORT DEVELOPMENT PROGRESSING

## PORT DEVELOPMENT PHASES:

### • Phase 1

- 130m quay
- up to 10 ha logistics area
- will support barges and LCTs with draft of 3m

### • Phase 2

- 360m quay
- Loading platform/infrastructure for Ocean Going Vessels (OGV)
- Accommodate draft of 7m
- Port services expansion to 20 ha

### • Phase 3

- Vessels to 150,000 tonnes, > 16m draft
- Substantial mineral terminal
- Storage area with stacker, conveyor to feed at approx. 4,000 tph



Port facilities with storage, industrial site and loading facilities will be critical assets and will facilitate our strategy of a brine pipeline fed processing plant at the port and eliminate the need to truck or barge product.



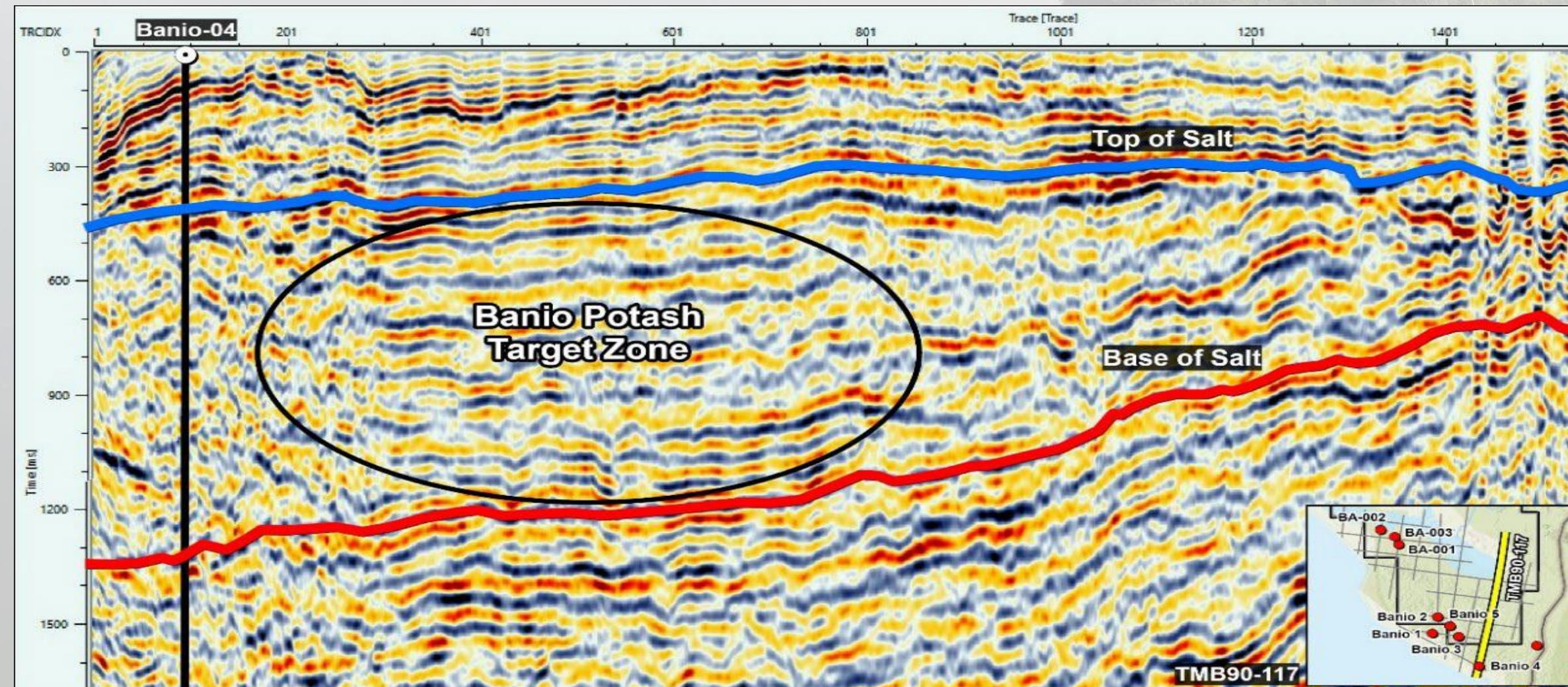
## INFRASTRUCTURE BUILD UP – POWER PLANT AND GAS PIPELINE

- Government of Gabon, Perenco Oil and Gas Gabon (POGO) and Gabon Power Company sign MOU to construct thermal power plant in Mayumba
- Thermal power plant to have an initial output of 21MW, expandable to 50MW
- A 20 KV distribution line and a transformer station as well as a 70km distribution line to the town of Tchibanga as government seeks to electrify the southern part of the country
- The power plant will be fed via a 32 km natural gas pipeline from POGO's offshore oil and gas infrastructure
- The power plant and gas pipeline are critical infrastructure for the Banio Potash Project. Accessible power will be essential for a potential potash processing plant and a local source of low emission natural gas is key for thermal evaporation of potash brines



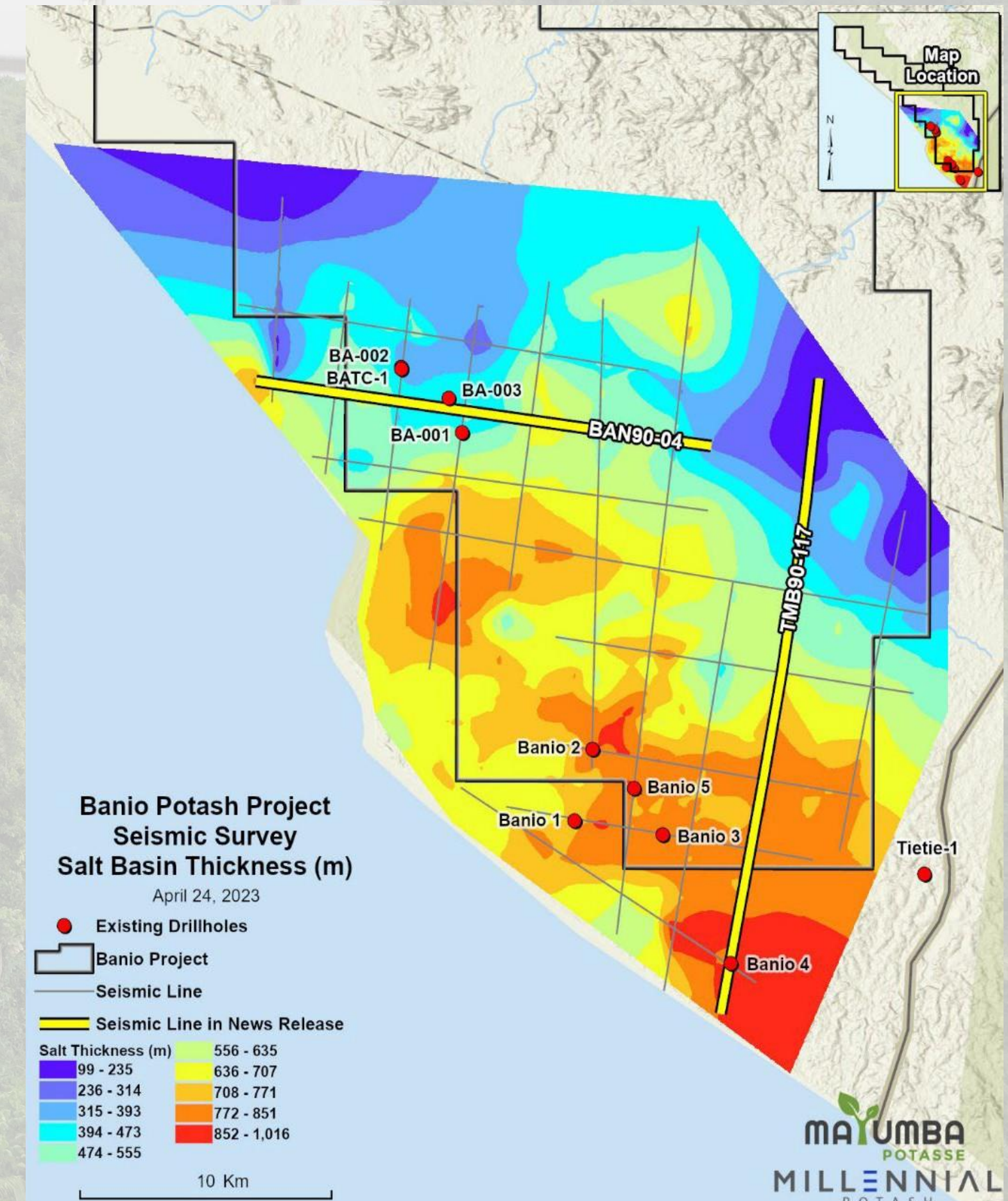


# MILLENNIAL POTASH PROJECT – H1 PROGRESS-SEISMIC



Reinterpretation of historic seismic data identifies potash bearing Salt Sequence up to 800m thick with potential to host multiple carnallite and sylvanite horizons.

This reinterpretation will target future drilling as the Salt Sequence has been identified over an extensive area.





# MILLENNIAL POTASH PROJECT – POTASH MARKETS



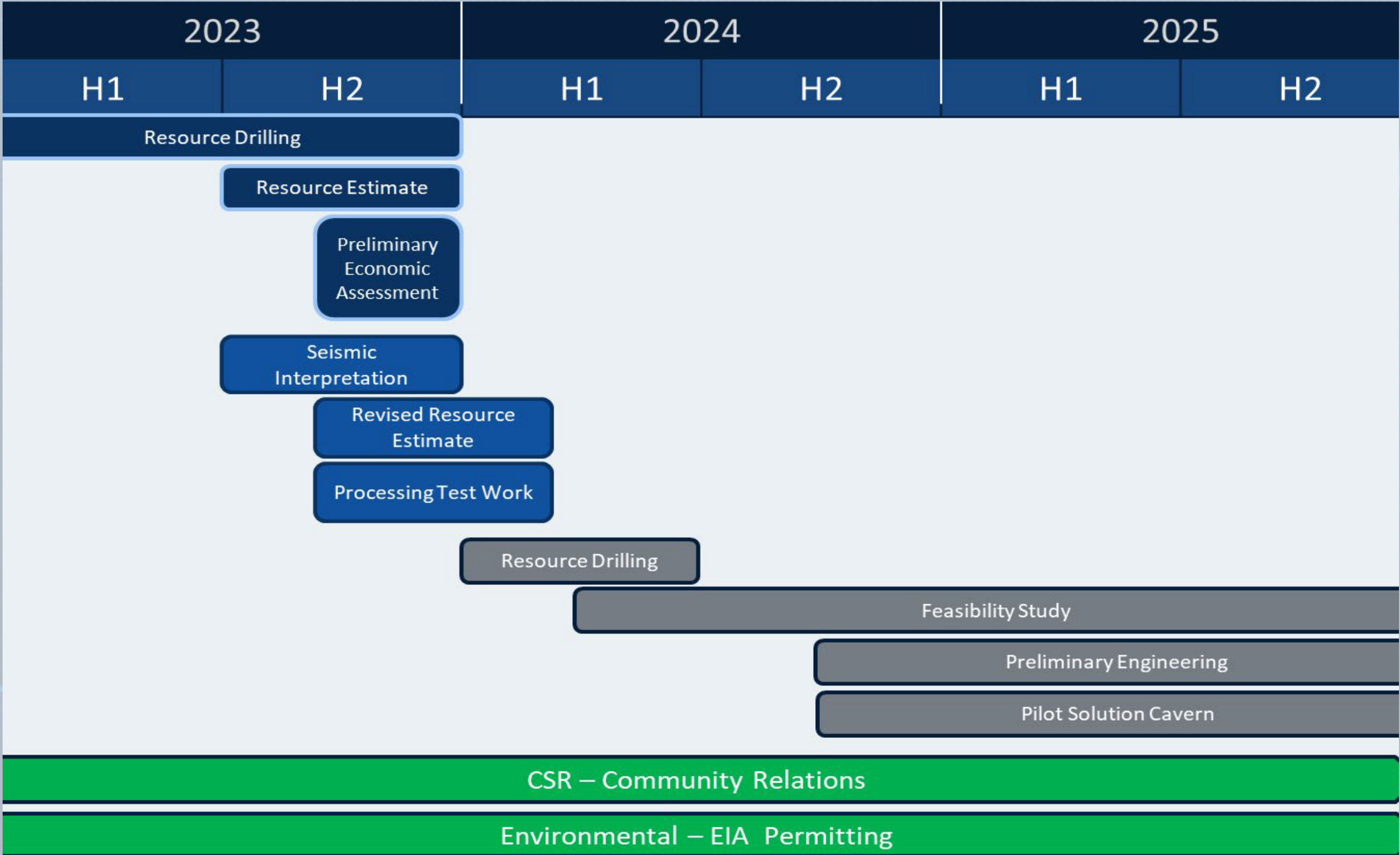
Traditional sources are Canada, Russia, and the Middle East all which involve significant transportation costs and time

Brazil remains a significant importer of MOP, approx. 12 M tonnes per year are imported

Millennial Potash has significant cost advantage over competitors due to proximity to major potash markets; shipping time particularly to Brazil and Asia Markets is also much less than other suppliers



# MILLENNIAL POTASH DEVELOPMENT PLAN



Initial Phase 1 exploration program to be expedited as drill equipment is on site and camp infrastructure in place for rapid start-up



Phase 2 drilling to be followed by updated mineral resource estimate and continued permitting



Upon completion of the MRE, Phase 3 exploration will follow and include a resource update, technical studies and initiation of a Feasibility Study in H1, 2024.



# MILLENNIAL POTASH CAPITAL STRUCTURE

TSX-V: MLP | OTCQB: MLPNF | Frankfurt: X0D

Millennial Potash Corp.		
Share Capital Structure - August 14 2023		
Board and Management Ownership	Approx. 30%	
	Price	Shares
Issued and Outstanding Common Shares		Cash
Warrants		
Warrants Expiring on Feb 28, 2025	\$0.75	3,591,500
Warrants Expiring on Aug 4, 2025	\$0.60	2,742,988
	Fully Diluted	61,837,488



# MILLENNIAL POTASH PROJECT – INVESTMENT OPPORTUNITY

**Solid early-stage potash project**  
with historic drilling and potential  
to expand

**Potential solution mining** method  
and amenable to modular  
expansion decreasing initial CAPEX

**Ideally located** closer to Brazil  
than current suppliers supporting  
cost and time savings

**Gabon** Situated in mining and  
development-friendly Gabon in  
the proven potash basin

**Ideal time** to invest in the  
potash sector as global supplies  
constrained due to the disruption  
of Russian and Belorussian potash  
supply to the global markets

**STRONG  
MANAGEMENT TEAM  
TO EXECUTE  
ON THE PROGRAM**



# HAVE QUESTIONS?

## GET IN TOUCH WITH MILLENIAL POTASH CORP.

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**Graham Harris – Senior VP, Capital Markets, Director**

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