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The Cabaçal Gold-Copper Project NI 43-101 Technical Report and Preliminary Economic Assessment, Mato Grosso, Brazil, and dated March 30, 2023 (with an effective date of March 1, 2023) (the "2023 Cabaçal PEA") was prepared for the Meridian by Tommaso Roberto Raponi, P. Eng., of Ausenco Engineering Canada Inc., Scott Elfen, P. Eng., of Ausenco Engineering Canada Inc., Simon Tear, P. Geo., of H&S Consultants Pty Ltd, Marcelo Batelochi, MAuslMM (CP Geo), of MB Geologia Ltda. Joseph Keane, P. Eng., of SGS North America Inc. and Guilherme Gomides Ferreira (Mine Engineer MAIG), of GE21 Consultoria Mineral. All authors of the 2023 Cabaçal PEA are independent "qualified persons" as defined by NI 43-101. The 2023 Cabaçal PEA may be found on the Company's website at www.meridianmining.co or under the Company's profile on SEDAR at www.sedar.com Readers are encouraged to read the entire 2023 Cabaçal PEA.

Readers are cautioned that the 2023 Cabaçal PEA is preliminary in nature and is intended to provide an initial assessment of the Cabaçal's economic potential and development options. The 2023 Cabaçal PEA mine schedule and economic assessment includes numerous assumptions and is based on inferred mineral resources. Inferred 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 no certainty that the 2023 Cabaçal PEA results will be realized. Mineral resources are not mineral reserves and do not have demonstrated economic viability. Additional exploration will be required to potentially upgrade the classification of the inferred mineral resources to be considered in future advanced studies.

Dr Adrian McArthur, Chief Executive Officer of Meridian and director, a QP as defined in NI43-101, has reviewed the 2023 Cabaçal PEA on behalf of Meridian and is responsible for other technical information in this presentation (information not directly related to the 2023 Cabaçal PEA).

TSX: MNO / OTCQX: MRRDF / Frankfurt: 2MM



MERIDIAN'S PORTFOLIO OF COPPER / GOLD ASSETS





CABAÇAL:

Development Priority:

- Largest Cu-Au VMS project in Brazil
- On-going exploration of 50km VMS belt

Preliminary Economic Assessment (Base Case After-Tax):

NPV₅ USD 573 M & IRR 58.4%

PEA superior economics, driven by:

- High-grade starter pit
- Simple processing
- High metallurgical recoveries
- Low strip ratio
- Low-cost hydroelectric power
- Brazil's low-cost operating environment

ESPIGÃO:

Exploration Upside:

- Large IOCG exploration target
- Comparable to Carajás and Olympic Dam





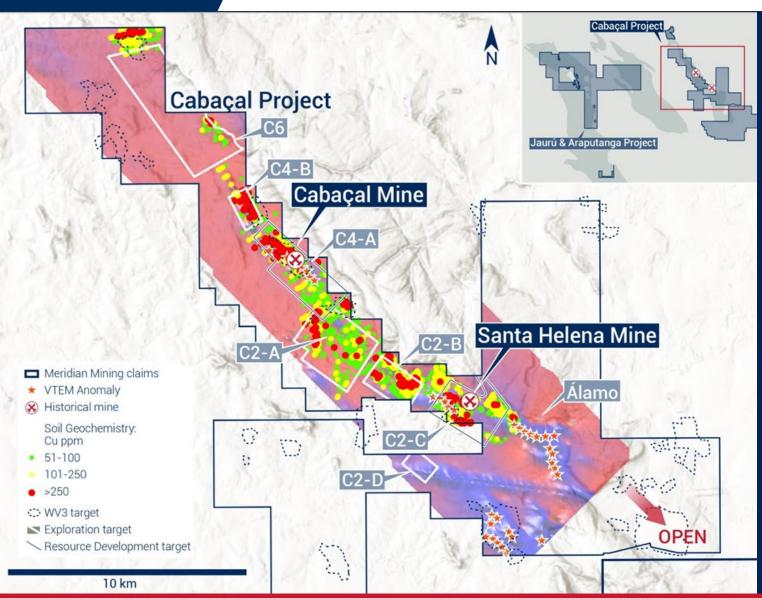






UNLOCKING THE BELT SCALE VMS POTENTIAL AT CABAÇAL





Cabaçal Discovered in 1980's

+50km Belt Scale Target Strike

Multiple Resource Development Projects

2 Historic High-Grade Underground Mines

PEA Defines
Standalone Potential
Mine at Cabaçal

Limited Historic Exploration

Newly Generated Open-Pit Targets

CABAÇAL PEA HIGHLIGHTS



PEA demonstrates an exceptional potential open-pit mining operation capable of supplying both base and precious metals to the global market

BASE CASE

Au \$1,650 / Cu \$3.59 / Ag \$21.35

USD 573 M
After-Tax NPV₅

10.6 monthsPayback After-Tax

58.4 % After-Tax IRR

USD 671 / oz AISC (Y1-5) USD 180 M Low Initial Capex

3.2 XNPV₅ to Capex Ratio



CABAÇAL VALUATION METRICS



∨ Po	Post Tax NPV ₅ (USDm) & IRR Sensitivity to Metals Prices													
				Copper Price										
Downside Base Spot							Ups	side						
			3.	50	3.	59	4.	00	4.	13	4.	50	5.0	00
			NPV	IRR	NPV	IRR	NPV	IRR	NPV	IRR	NPV	IRR	NPV	IRR
		1,550	\$510 m	53.5%	\$523 m	54.2%	\$582 m	57.0%	\$600 m	57.9%	\$654 m	60.3%	\$726 m	63.5%
S	Base	1,650	\$560 m	57.8%	\$573 m	58.4%	\$632 m	61.1%	\$650 m	62.0%	\$704 m	64.4%	\$776 m	67.4%
Pri		1,750	\$609 m	62.0%	\$622 m	62.6%	\$681 m	65.2%	\$700 m	66.0%	\$753 m	68.3%	\$825 m	71.3%
Gold	Spot	1,841	\$655 m	65.7%	\$668 m	66.3%	\$727 m	68.9%	\$745 m	69.7%	\$799 m	71.9%	\$871 m	74.8%
ပြ		1,850	\$659 m	66.1%	\$672 m	66.7%	\$731 m	69.2%	\$750 m	70.0%	\$803 m	72.2%	\$875 m	75.1%
	Upside	1,950	\$709 m	70.1%	\$722 m	70.7%	\$781 m	73.1%	\$799 m	73.9%	\$853 m	76.0%	\$925 m	78.9%

BASE CASE

USD 204 M Year 1 Free Cash Flow

> USD 2.9 Bn LOM Revenue

3.2 X NPV₅ to Capex Ratio

SPOT CASE

USD 234 M Year 1 Free Cash Flow

> USD 3.3 Bn LOM Revenue

4.1 X NPV₅ to Capex Ratio

PROJECT COSTS

USD 21.25/t Milled
Total Operating Costs

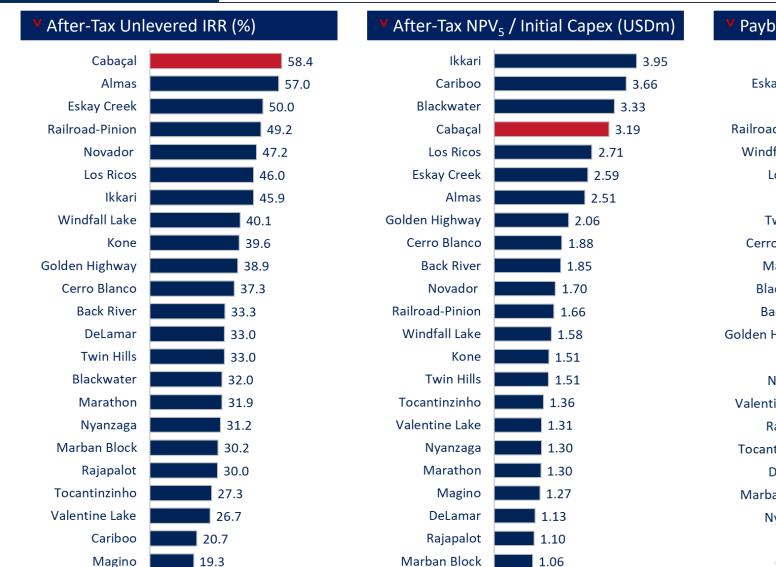
USD 180 M Initial Capex

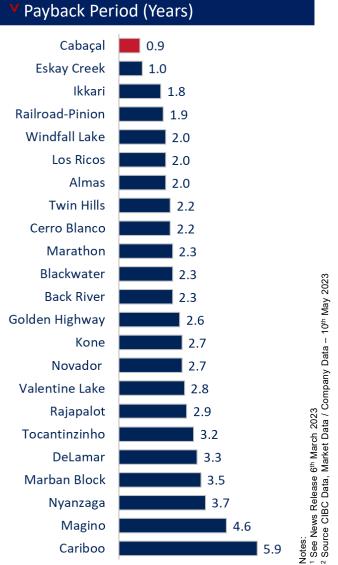
USD 108 M LOM Sustaining Capex

MERIDIAN

CABAÇAL VS RECENT GOLD PROJECT ECONOMIC STUDIES^{1,2}

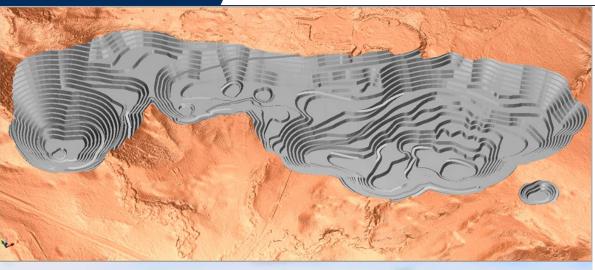






PRODUCTION METRICS







1.8 Moz AuEq

Total Production

22.3 Year

Life of Mine

55.6 Mt

Total Milled

2.1x

Strip Ratio

2.5 Mtpa

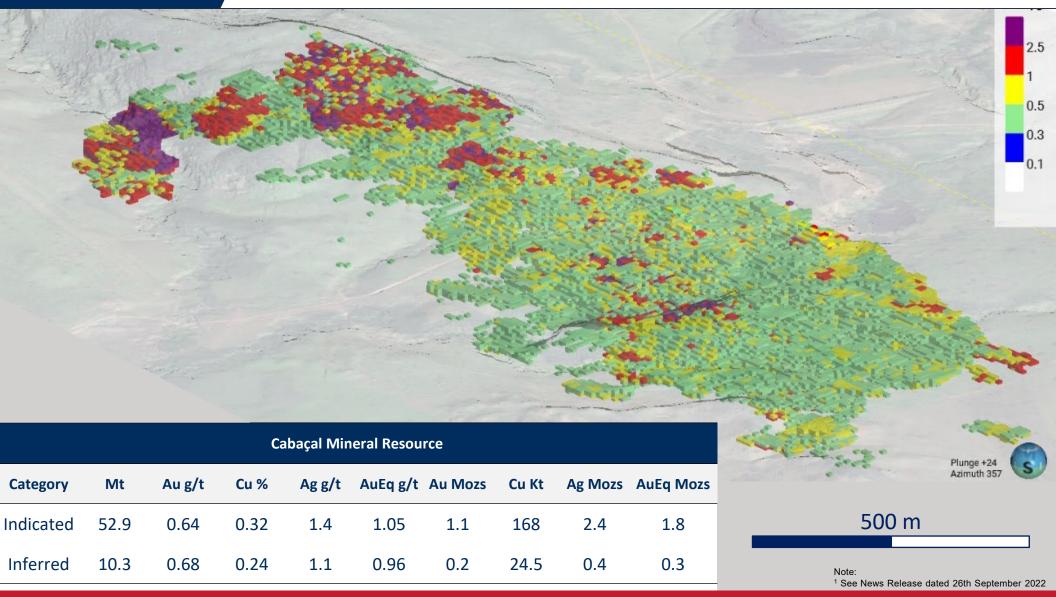
Throughput Rate

131 koz AuEq

Ave. Y1-5 Production

RESOURCE - BLOCK MODEL

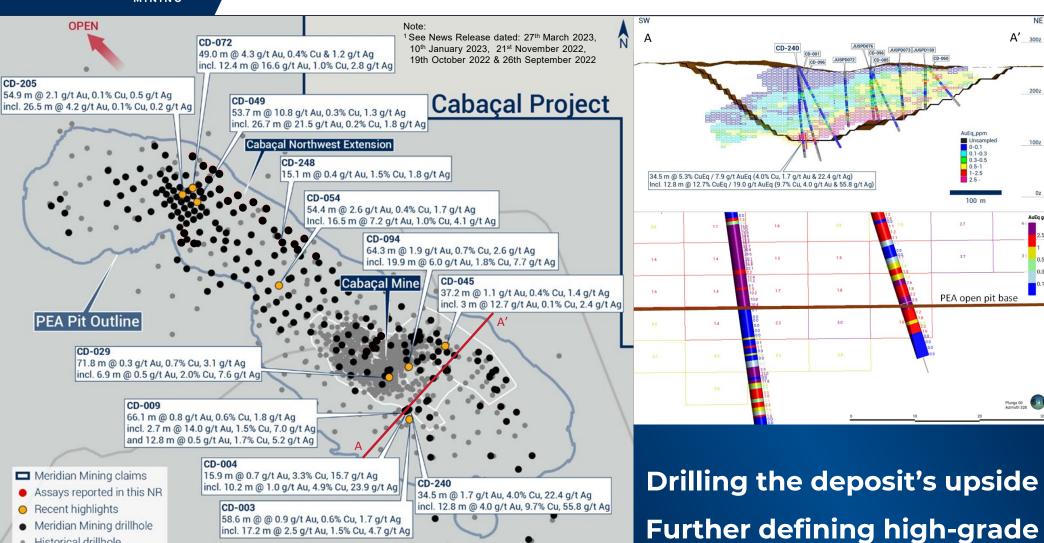






FURTHER EXPANDING AND INFILLING CABAÇAL RESOURCE1





structures

Historical drillhole

500 m

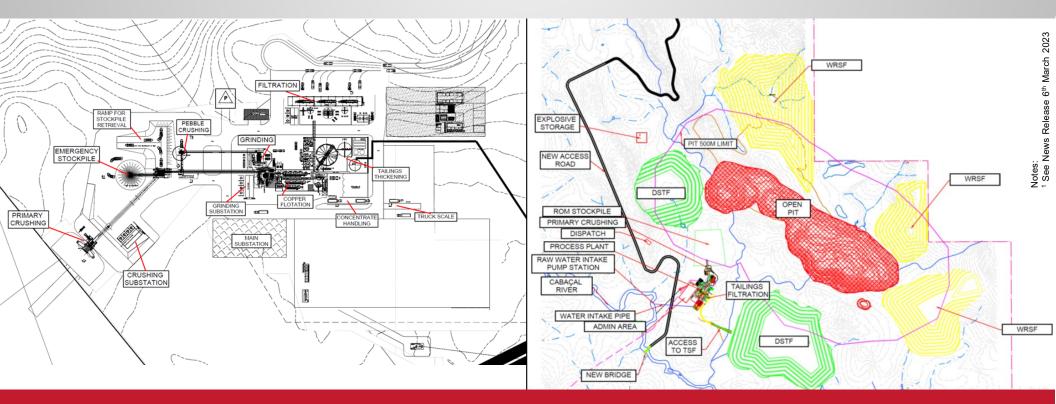


Open Pit ~2,000m x 500m

Optimized mine site design to minimise transport distances

Plant site design flexible for expansion opportunities

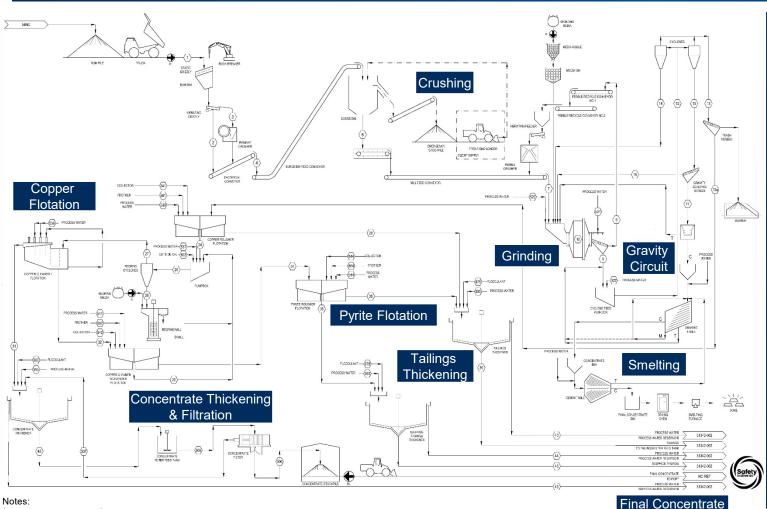
Potential to minimise cost by using depleted open pit for waste storage







Simple process flowsheet with high recoveries



Jaw Crusher

Primary Grind ~200 microns

Gravity Circuit - 30% Au

First Cu Flotation Re-Grind ~40 microns

Cleaner Circuit total recovery up to ~ 90% Au & ~ +93% Cu

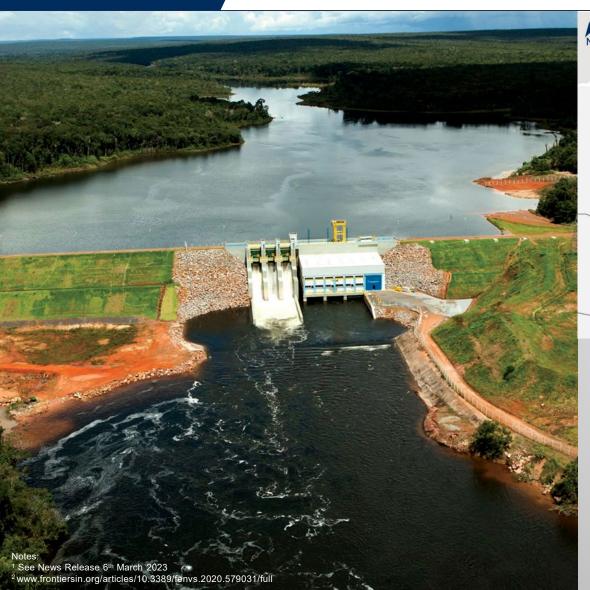
Cu Concentrate Grade 28.4%

Mill Tailings **Non-Acid Generating**



LEADING WITH SUSTAINABLE POWER SOURCES







PEA assumes USD 0.075 / kWh power cost with significant potential for optimization

Regional Hydroelectric Generation ~375 MW in 10 Facilities

On-going run-of-river and solar power evaluation



Key areas for near-term upside opportunities and optimization

Evaluating potential increase

Throughput rate ~3.5 - 4.0 mtpa

Incorporate Santa Helena

Potential for high-grade feed

Cabaçal Resource Upgrade

Expand resource

Mine corridor upside

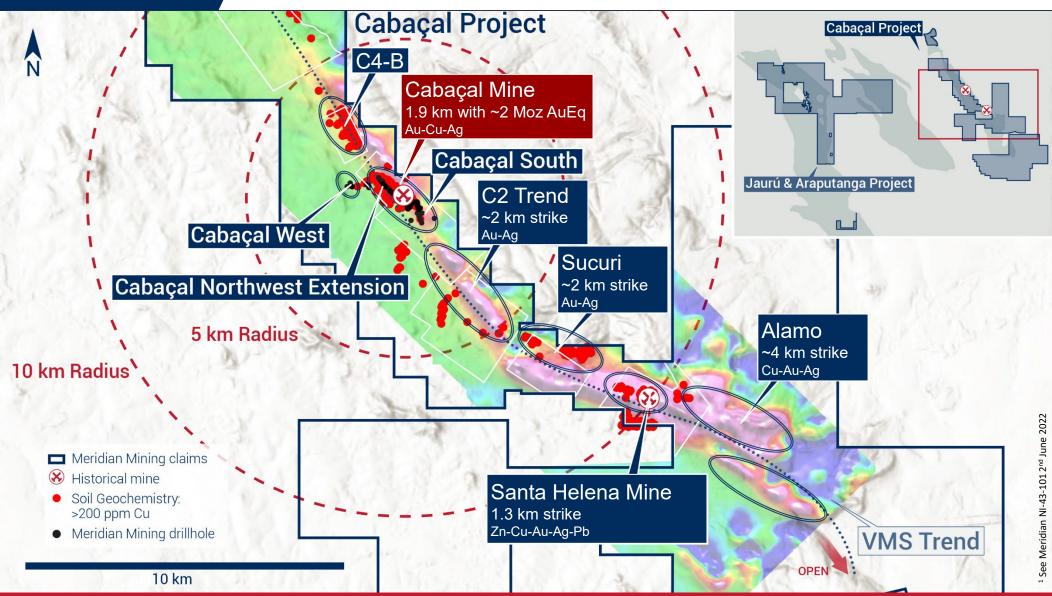
Sucuri & Alamo Cu/Au targets

1 See Nows Poleage 6th March 200



SYSTEMATICALLY UNLOCKING 50KM BELT SCALE POTENTIAL

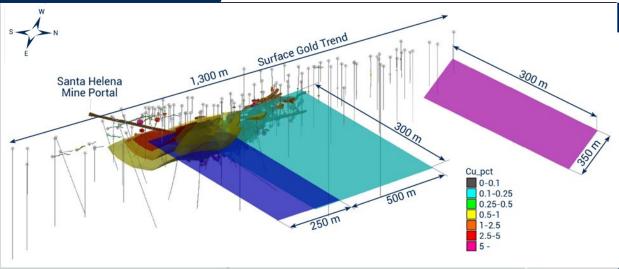




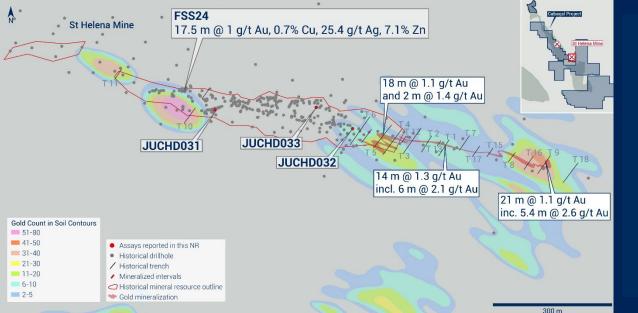


SANTA HELENA HISTORIC MINE OPEN PIT EXPLORATION TARGET









Initial Meridian drill program contractor engaged

Re-assaying historic core confirms high-grade mineralization

Multiple new EM plates extending out from Santa Helena Mine

Untested targets for further Cu-Zn-Au-Ag zones

Open anomaly of Gold in soils to East

MILESTONES AND CATALYSTS POST PEA





2022

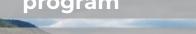
2023







Cabaçal twin drilling program







Multiple high-grade gold trends at CNWE



Acquired Cabaçal (November 2020)



Initial NI 43-101 resource



Defines ~2m oz AuEq in pit



Top tier metallurgical results



New Au-Ag system discovered



Increase landbank to 928 km²



PEA (Released)



Cabaçal infill drilling for higher grades



Testing near mine open zones



Test Multiple Resource Development Targets



Espigão further gravity survey results

De-risking, expanding, and driving project value



CORPORATE INFORMATION - MERIDIAN MINING UK S



Corporate Structure ¹						
Shares Outstanding	239.6 m					
Compensation Warrants	2.2 m (CAD 0.35-0.50)					
Options	18.1 m (CAD 0.07-1.10)					
Fully Diluted	259.9 m					
Share Price	CAD 0.46 (19 May 2023)					
Market Capitalization	CAD 110.2 m					
Cash ²	CAD 21.8 m					
Analyst Coverage						
Institution	Analyst					
Beacon Securities	Mike Curran					

Meridian Mining UK S

TSX MNO



Frankfurt 2MM



Notes:

Stefan Ioannou

Craig Stanley

- ¹ Corporate Structure as of 10th May 2023 unless otherwise stated
- ² Cash Balance Assumes:

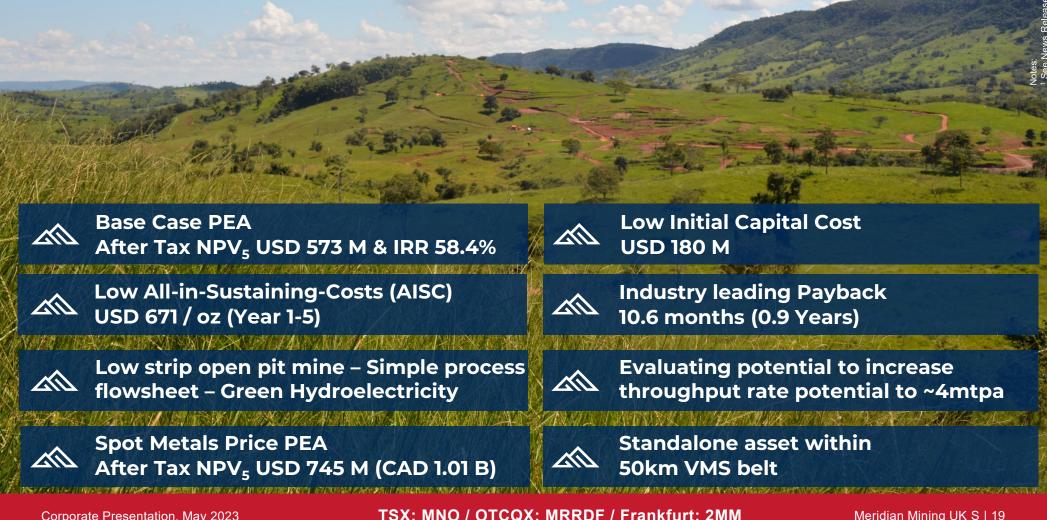
2nd May 2023 – Net Proceed from Equity Raise of CAD 18.4 million & includes USD 1.0 million in Escrow per option agreement 31st March 2023 – Financial Reports Cash Balance & Exchange Rate 1.3533 (Source - Bank of Canada)

Cormark Securities

Raymond James



Developing the next polymetallic mining belt in Brazil











MERIDIAN LEADERSHIP



The Management



GILBERT CLARK **Executive Chairman** +25 years experience



ADRIAN MCARTHUR CEO & Director +25 years experience



President +30 years experience



MARTIN MCFARLANE SORAIA MORAIS Chief Financial Officer +15 years experience



Company Secretary +15 years experience



MARIANA BERMUDEZ KATHERINE MACLEAN JAMES MCLUCAS Sustainability & Comms +15 years experience



Corp. Development +15 years experience

The Brazilian Based Management



JOEL BRANDAO Director of Brazil +40 years experience



FRED VANDEROOST Geology Manager +25 years experience



ANTONIO ALMEIDA Senior geologist +40 years experience



RODRIGO SALVI Inhouse Counsel +10 years experience



VITOR BELO Mining Consultant +30 years experience



MARCELO AMORIM Project Dev. Manager +15 years experience



BARBARA SOUZA Enviro. Engineer +10 years experience



FABBIO KOLAS Accountant +15 years experience

The Directors



GILBERT CLARK **Executive Chairman** +25 years experience



ADRIAN MCARTHUR CEO & Director +25 years experience



CHARLES RIOPEL Independent Director +25 years experience



JOHN SKINNER Independent Director +35 years experience



MARK THOMPSON Independent Director +25 years experience



SUSANNE SESSELMANN Independent Director +25 years experience

MERIDIAN ADVISORY BOARD



Cabaçal History BP Minerals

Discovery 1980-1984

Development

1984-1986

Production

1986-1991



AFONSO FIGUEIREDO Geologist + 50 years experience



ROCKY OSBORNE Geologist + 40 years experience



GILSON
TEIXEIRA
Geologist
+ 40 years
experience





JOHN
WAGHORN
Geologist
+ 50 years
experience

Industry leading expertise in metallurgy and base metals concentrates



PHILLIP
MACKEY
Metallurgist
+ 50 years
experience
MIKE
OUNPUU
Geological Engineer
+ 40 years
experience



noranda





Capital Markets Expertise



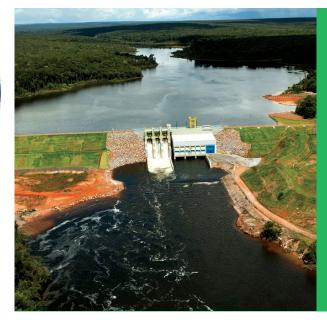
TOMMY HUMPHREYS Capital Markets + 15 years experience



CLEAN INDUSTRIAL RENEWABLE ENERGY







Regional Hydroelectric Generation^{1,2}

Jaurú Cascade

235.9 MW

(6 Facilities)

Juba Cascade

139.4 MW

(4 Facilities)

Governing ESG Philosophies











TSX: MNO / OTCQX: MRRDF / Frankfurt: 2MM

Meridian Mining UK S | 23



STRUCTURED OPTION AGREEMENT TO ACQUIRE A 100% BENEFICIAL INTEREST¹



Protects Meridian Shareholders Equity and provides Vendors an Interest Going Forward

Payments	Payment Schedule (Months)	Requirements	Vendor Payment (USD)	Vendor Payment (Shares)	Comments	Status
1	On signing	MNO will have exclusivity during the Due Diligence period	25,000	_	Payment due 5 business days from signing; permits a 90-day Due Diligence period	Complete
2	4	Positive Due Diligence; Filing of Title Transfer	275,000	ı	Second instalments is payable up to 30 days from Positive Due Diligence and filing of Assignment Requests at ANM	Paid
3	16	1st phase drilling program, subject to statutory approvals & access agreements, with independent QP review	1,750,000	_	Verification and extensional drilling; DDH & geophysics database validation. Third Instalment is 12 months from Second Instalment	Payment Escrowed
4	22	Completion of NI 43-101 resource estimation	-	1,000,000*	* or option for CAD 300,000	
5	31	Positive Feasibility Study concluded	1,850,000	1,500,000*	* or option for CAD 450,000	
6	est. 41	Installation Permits (LI) granted by Mato Grosso State	2,250,000	2,000,000*	* or option for CAD 600,000	
7		Cabaçal mine construction finance has been secured	2,600,000	-	Seventh instalment is payable 45 days after signing of Binding Project Finance documents	
		Total Financial Consideration (USD)	8,750,000	4,500,000	* Option for cash or shares at vendor's discretion	

As Meridian advances Cabaçal its value increases, the investment risk decreases, and milestone related payments are made



PRODUCTION METRICS



Item			
Plant Feed Mined	Mt	55.6	
Waste Mined	Mt	118.1	
Total Mined	Mt	173.7	
Mill Throughput	Mt/annum	2.5	
Total gold production	ounces	1,021,320	
Total copper production	tonnes	159,926	
Total silver production	ounces	1,758,923	
Item			
Milled tonnes	Mt	55.6	
Mill throughput	Mt/ annum 2.5		
Strip Ratio	Waste: Mineralized Material	2.1	
Average metallurgical recovery - Gold	%	89.7%	
Average metallurgical recovery - Copper	%	92.4%	
Average metallurgical recovery - Silver	%	75.2%	
Item		Year 1-5	LOM
Average annual gold production (AuEq)	000 Ounces	131.1	81.2
Recovered Gold (AuEq)	000 Ounces	655.3	1,811.2
Total Cash Cost	USD/oz	644.3	804.4
Sustaining capital	USD/oz	26.4	61.8
All in Sustaining Costs ("AISC")	USD/oz	670.7	864.2

Notes:

¹ See News Release 6th March 2023



CAPITAL & OPERATING COST BREAKDOWN



Cabaçal Initial Capital Costs					
Item	US\$mm				
Equipment & Packages	39.93				
Materials	9.67				
Construction And Erection	36.51				
Others	32.14				
Indirects Costs	31.43				
Contingency	29.94				
Total Initial Capital	179.62				

Cabaçal Sustaining Capital Costs						
Item	US\$mm					
Process	30.53					
Tailings	47.73					
Indirect Costs	7.83					
Owner Costs	3.91					
Contingency	18.00					
Total Sustaining Capital	108.00					

Cabaçal Operating Costs Breakdown						
Item	USD/t milled	USD/oz				
Mining Costs	9.31	296.43				
Labor	1.63	51.78				
Power	2.07	65.80				
Reagents & Consumables	2.61	82.96				
Maintainence	0.97	30.72				
Water/sewage	0.00	0.07				
Access maintainance	0.06	1.96				
Laboritory	0.38	12.13				
Dry stack	2.12	67.33				
G&A	2.11	67.06				
Total Operating Costs	21.25	676.25				

Notes:

¹ See News Release 6th March 2023



PROJECT ECCONOMICS



Item	Base	Case	Spot Case		
Life of mine	Years	22	2.3	22.3	
NPV(5%)	USD million	57	572.5		5.2
IRR	, ,		58.4%		7%
Payback Days		321		279	
Initial Capital Expenditure USD million		18	30	180	
Sustaining Capital Expenditure			108)8
Item		Average Year 1-5	Total LOM	Average Year 1-5	Total LOM
Revenue	USDmillion	208.6	2,882.1	234.9	3,254.1
Operating Costs USDmillion		67.7	1,181.2	67.7	1,181.2
Free cash (after Tax)	USDmillion	107.3	939.8	128.7	1,216.4

Item		Base Case	Spot Case
Gold Price	USD/oz	1,650	1,841
Copper Price	USD/lb	3.59	4.13
Silver Price	USD/oz	21.35	21.35
Exchange Rate	BRL:USD		5.3
Corporate Tax Rate	%	2	5%
Social tax	%	9	9%
SUDAM Tax Reduction	%	7	5%
SUDAM Rax Reduction	Years	10	0.00
Gold Royalty Rate	%	1.	.5%
Copper Royalty Rate	%	2.	.0%
Silver Royalty Rate	%	2.	.0%

Notes:

¹ See News Release 6th March 2023

TOP TIER METALLURGICAL RECOVERIES



+94% Copper Recoveries

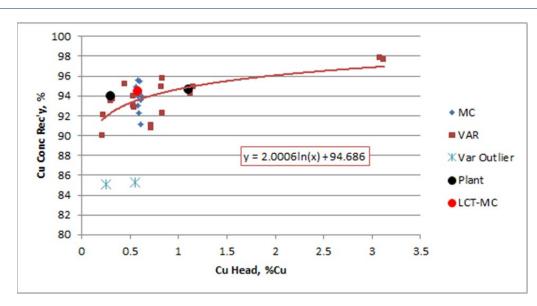
Copper Recovery

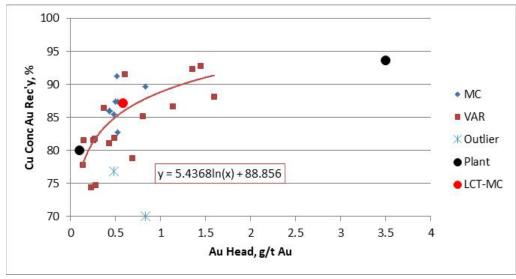
- △ Copper recovery exceeds 90% from 0.1% to >3% Cu head grade
- While copper recovery declines with head grade the slope is very moderate
- Consideration will therefore be given to the viability of processing lower grade mineralization
- Historic plant data fits the trend

+87% Gold Recoveries

Gold Recoveries

- Gold recovery increases with head grade with recoveries of 85% for gold head grade of 0.5g/t
- ▲ Historic plant feeds of >3g/t yield recoveries close to 95%



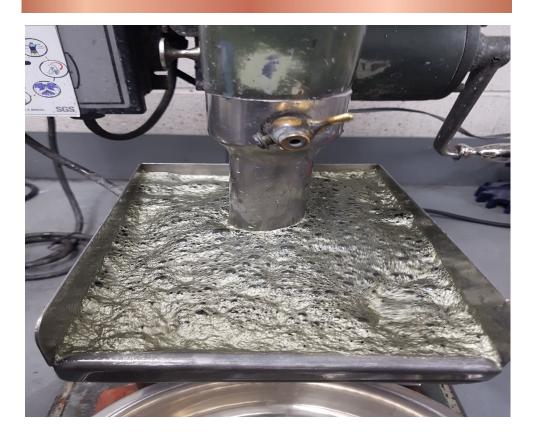


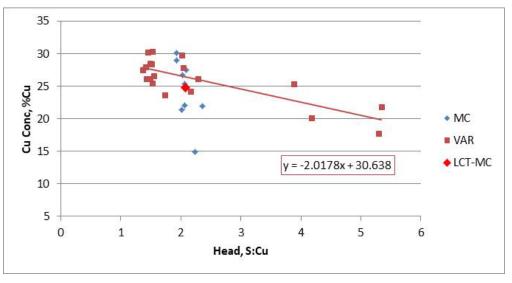
Note: 1 See News Release

CABAÇAL CONCENTRATE TESTWORK



25-29% Copper Concentrate





High-grade Copper Concentrate

- Copper concentrate grade correlates well to Sulphur : Copper feed grade ratio
- Concentrate grades varied up to 30% Cu with average mineralization expected to yield 25 − 29% Cu concentrate grade
- Copper concentrate grades can be managed to requirements with modest impact to recovery

Next Steps

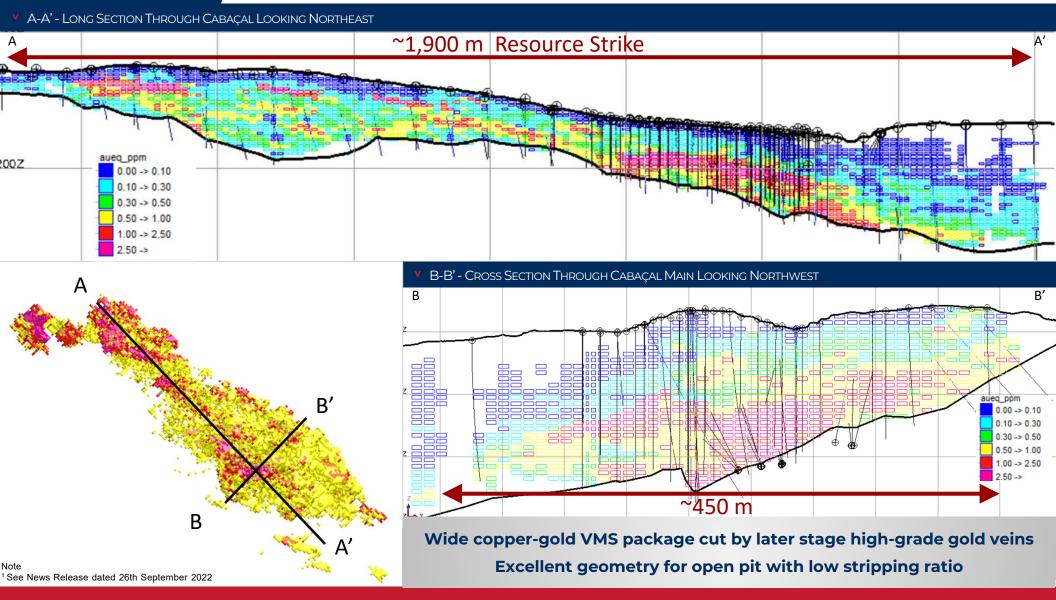
- On-going test work for high-grade course gold zones recovery
- Representative concentrate samples to be made available for smelter performance analysis

Note: 1 See News Release



SECTIONS THROUGH CABAÇAL DEPOSIT¹





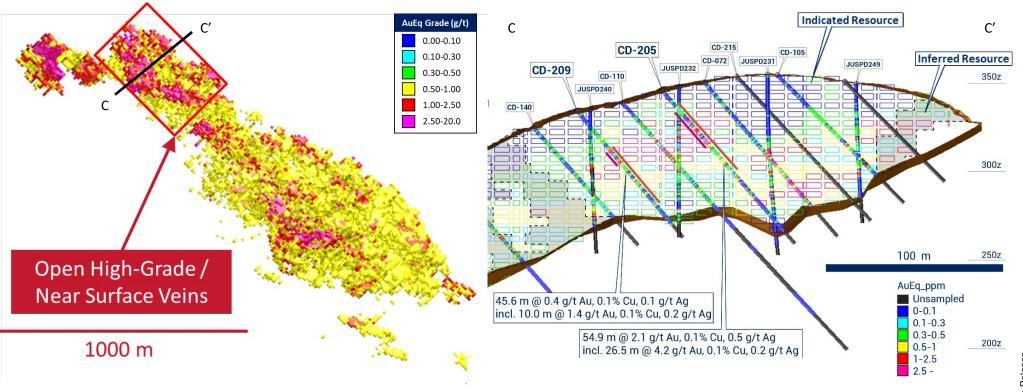


INITIAL FOCUS ON THE CNWE SHALLOW HIGH-GRADE TRENDS



Open high-grade shallow gold zone on Cabaçal ridge - Potential to become a starter pit in a development scenario

Expansion through ongoing resource definition and belt-scale exploration

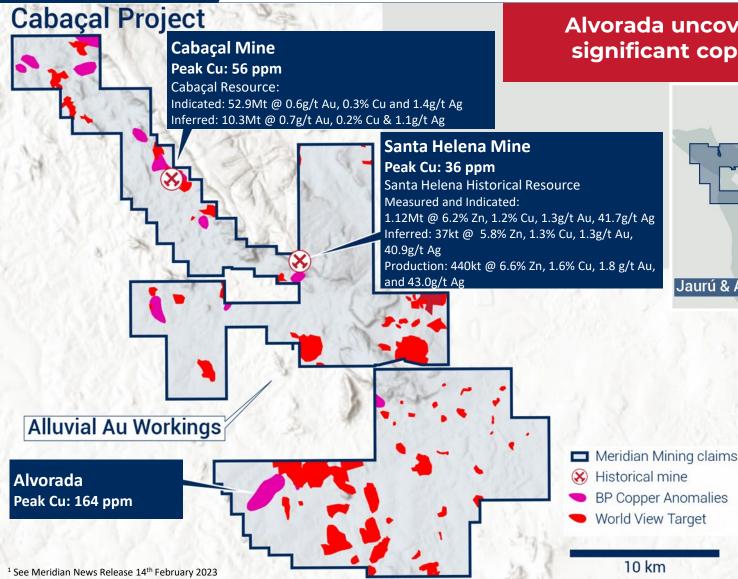




EXPANDING THE COPPER POTENTIAL FROM ARCHIVES



Cabaçal Project



Alvorada uncovered as Cabaçal's most significant copper in stream anomaly

The Historical Resource for the Monte Cristo (Santa Helena) Zn Deposit was published by SRK a report dated 30 May 2007 (Michael et al, 2007). The estimation procedure consisted of using three iterations of the inverse distance squared method on composited drillhole data using progressively longer search ranges. A Zn Equivalent % calculation was applied for

reporting the estimates (ZnEq % = Zn% + (2.14 * Cu%) + (0.39 * Au ppm)+ (0.007* Ag ppm);

Metallurgical Recovery = 89% Zn, 89% Cu, 65%

Au, 61% Ag; Au price USD 570 / oz; Ag price

USD 11 / oz, Cu price USD 3.36/ lb; Zn price =

accordance with NI-43-101 rules, but has not been updated to account for final mining depletion and is therefore not considered a

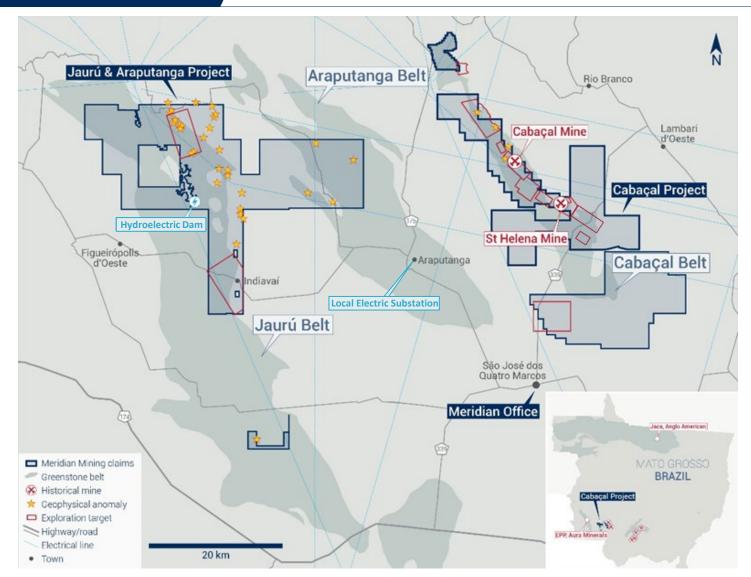
current Mineral Resource by MNO.

1.57 / lb) The Mineral Resource was reported in



REGIONAL EXPLORATION TARGETS¹





928 km² tenements

Regional
Exploration by BP
Minerals

Historical Cu-Au-Zn geochemical anomalies

Potential extensions of VMS belt stratigraphy

Jaurú & Araputanga Greenstone belts potential to repeat discovery success at Cabaçal

See News Releases: 20th June 2022, 5th Jan 2022 & 12th April 2021



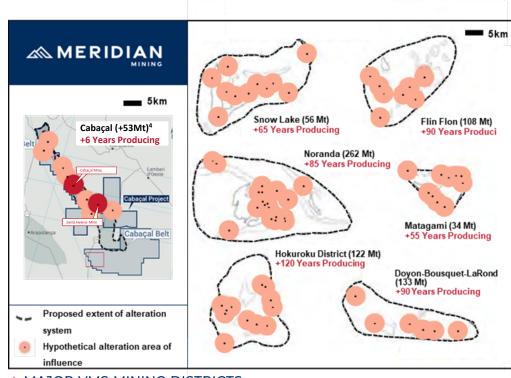
Potential Upside of Cabaçal to Global VMS deposits



Cabaçal VMS Project Analogues

- Cabaçal is a camp scale VMS project underexplored and under-developed compared to analogue camps
- Cabaçal has already one giant VMS deposit defined
- VMS deposits tend to form periodically, related to hydrothermal convection cells on the ocean floor at ~4km spacings
- Cabaçal's multiple targets are consistent with deposit clustering, with potential for blind repeats
- VMS deposits are well known for their base and precious metal production
- Cabaçal VMS district has many similarities to other VMS districts such as Flin Flon (Manitoba), and Matagami (Quebec)

A junior company acquiring ownership of a VMS belt on a camp scale is a rare opportunity



MAJOR VMS MINING DISTRICTS

"We are excited about the potential for more ore discovery around Cabaçal and in the belt as a whole... In a Canadian context the Cabaçal belt would be a prime long-term target for VMS type mineralization, with strong competition for ground holdings." ³

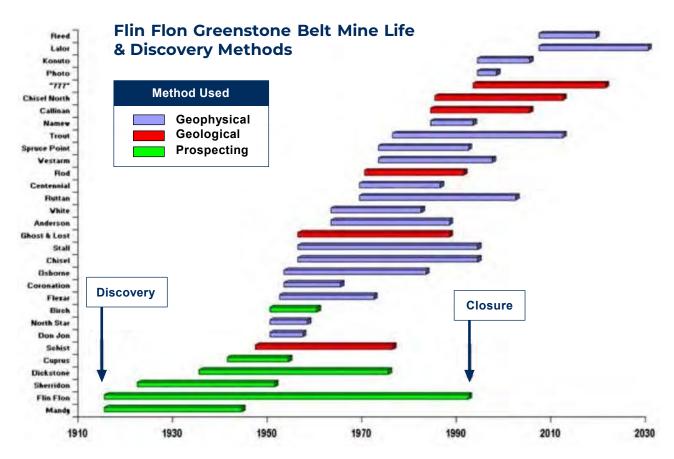
Notes:

- 1 Source: Akita University, Galley et al. (2007); Mercier-Langevin et al. (2007) S1P Global, Hudbay 2020 See Meridian Announcement of 26th August, 2020
- ² See News Release dated 26th September
- ³ Cabaçal-1 Mine Mato Grosso State, Brazil. Report by Dr Robert Mason and Mr David Kerr. Queens University, Ontario, Canada
- See News Release 26th September 2022



Evolution of VMS Camps over time¹





^ FLIN FLON: FROM THE PROSPECTOR TO VTEM

The Technical Evolution

- First discovery identified through prospecting (David Collins - Tom Creighton, 1914)
- Early mapping and geochemistry may identify hydrothermal centers. Economic mineralization not necessarily present at surface
- Cyclical nature of metal prices can influence sustained exploration effort
- Modern geophysical exploration methods have successfully expanded the discovery window, through surface and down-hole survey techniques
- Improved analytical methods add increasingly sophisticated criteria for geochemical vectoring to mineralization
- Geochemical methods are supplemented by alteration mapping, maximizing information from deeper drilling to map fluid pathways, and model the hydrothermal system in 3D

¹ Source: Gilmore and Wood, 2012 / Hudbay https://csegrecorder.com/articles/view/geophysical-exploran-beneath-the-phanerozoic-cover-of-the-flin-flon



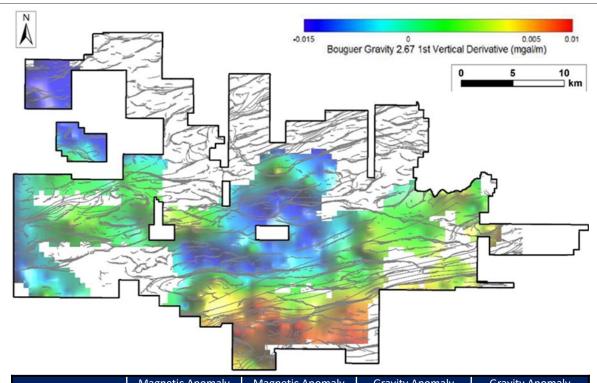
ESPIGÃO IOCG TARGET



Espigão Project

- Iron Oxide-Copper-Gold ("IOCG") type deposits host the giant Cu-Au mines of Brazil and some of the biggest Cu-Au mines internationally e.g. Salobo and Olympic Dam
- Espigão hosts the prospective geochemistry comparable to large-scale IOCG type deposits
- First gravity survey 2km centered stations and testing for scale – more results pending





	Magnetic Anomaly Amplitude	Magnetic Anomaly Amplitude	Gravity Anomaly Amplitude	Amplitude
Units	nT	km	Mgal	Km
Espigão Project	Pending	Open	15	Open
Deposit				
Olympic Dam	1,400	8 km across	17	8 km across
Wirrda Well	1,800	6 * 9 km	6	6 * 9 km
Carapateena	200-300	1.5 * 1.0 km	2 - 2.5	2 * 2 km
Prominent Hill	7,000	0.7 * 0.5 km	5	2.5 * 1 km
Ernest Henry	7,000 – 10,000	1.2 * 0.7 km	2 - 3	1.2 * 0.7 km
Eloise	1,100	0.75 * 0.25 km	1.0	1.0 * 0.5 km

