

THE AUSTRALIAN COPPER COMPANY IN BRAZIL



Analyst Site Visit Presentation

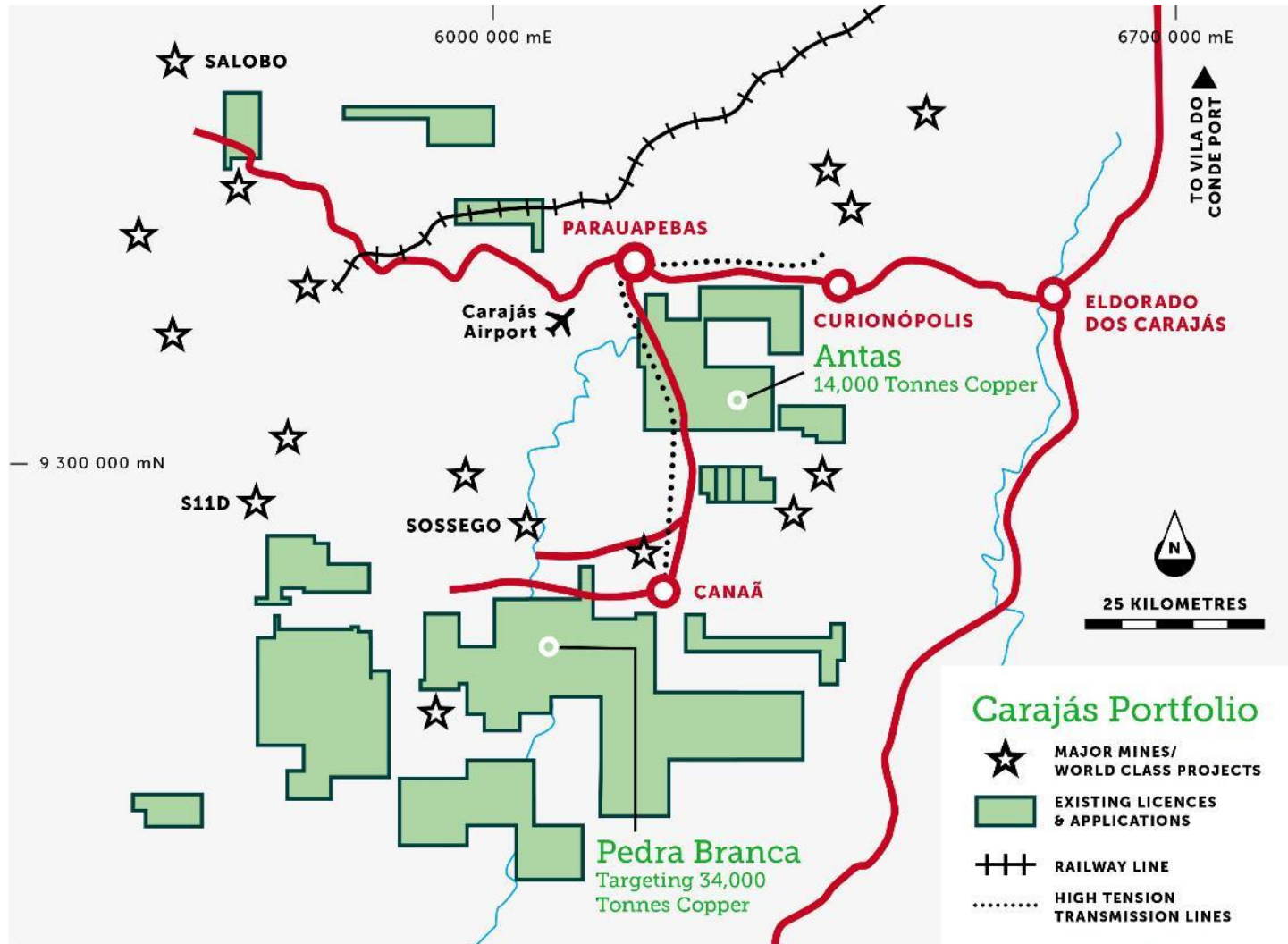
September 2017



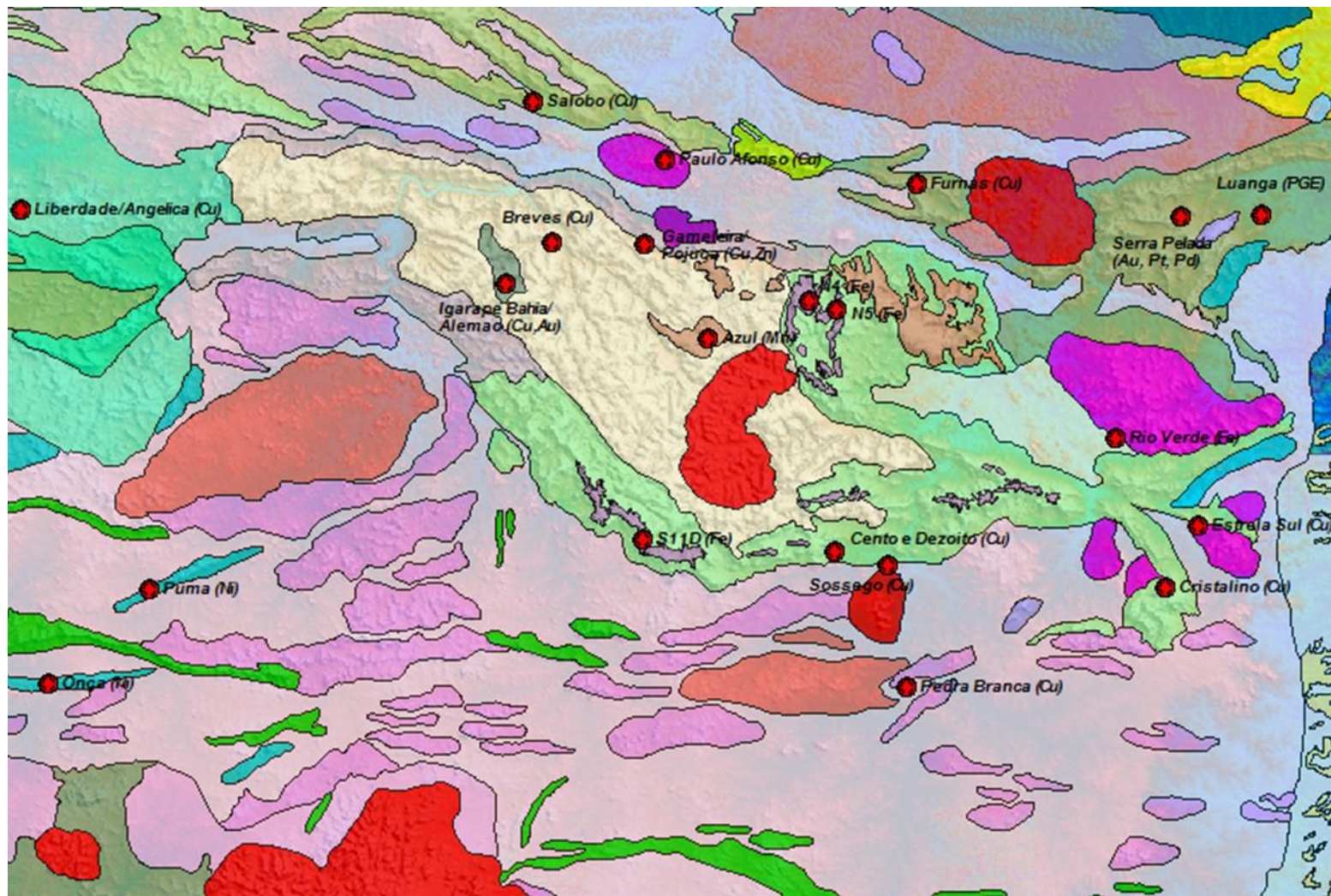
Location



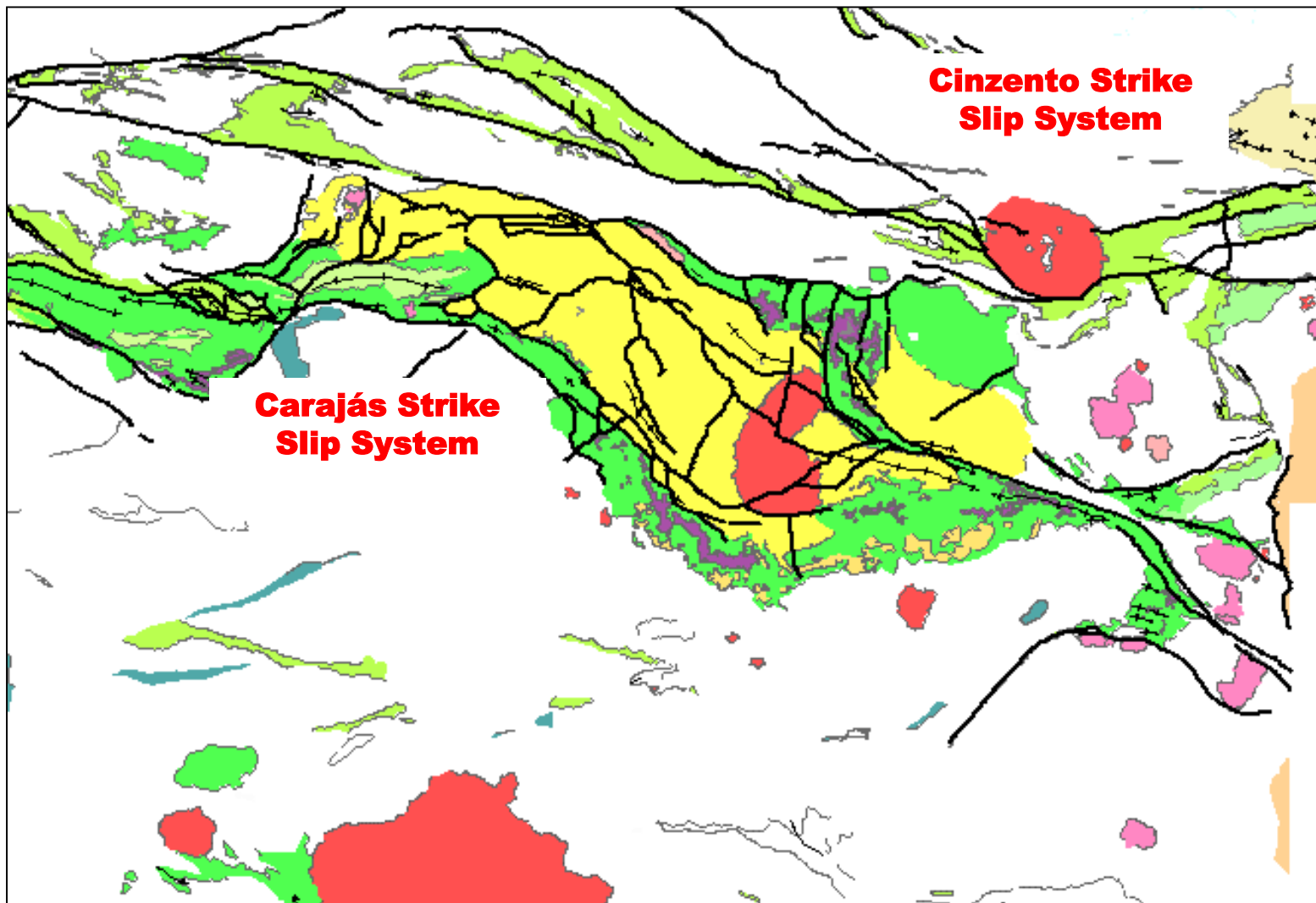
Carajás Portfolio



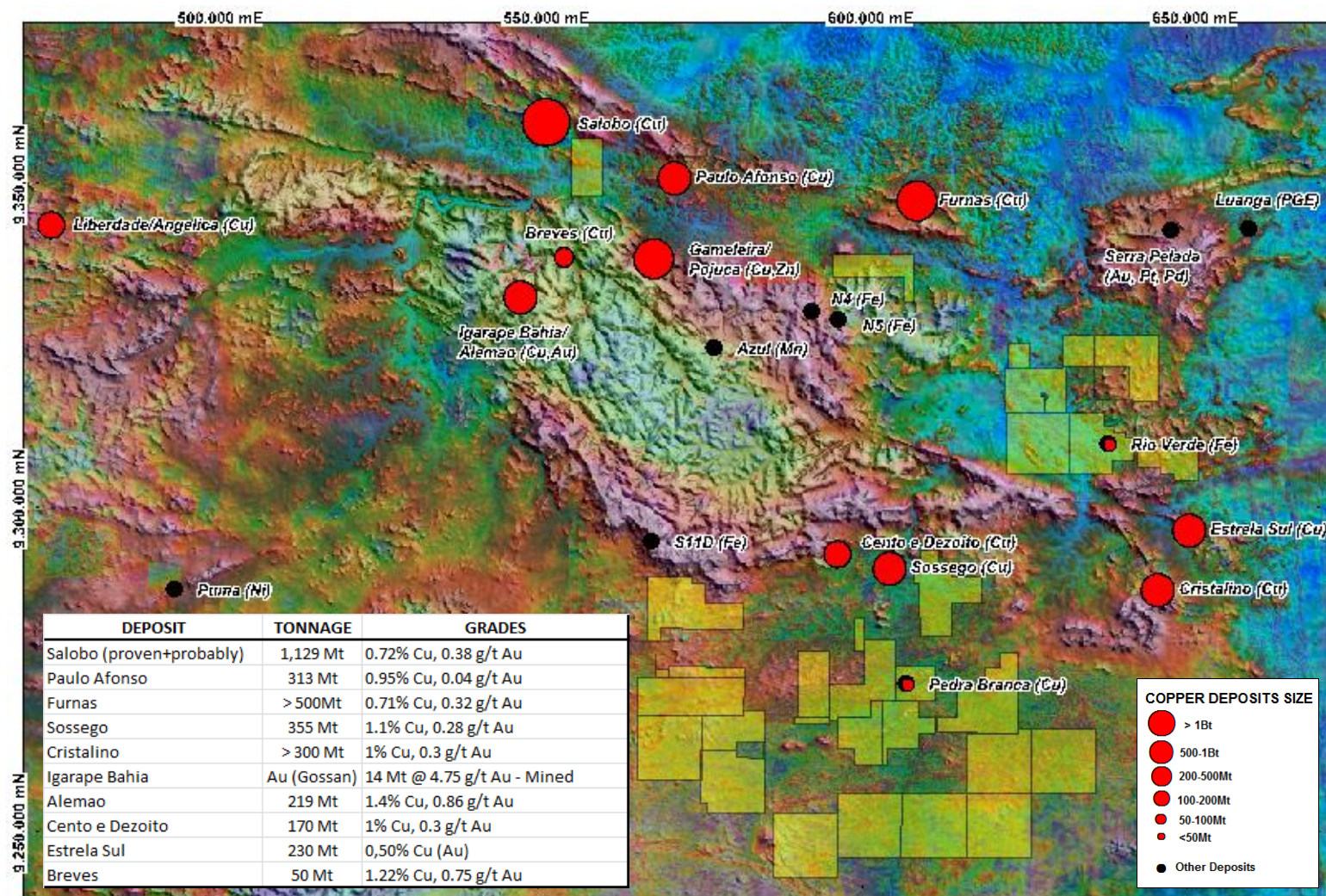
Carajás Province



Cinzenito & Carajás Strike Slip Faults

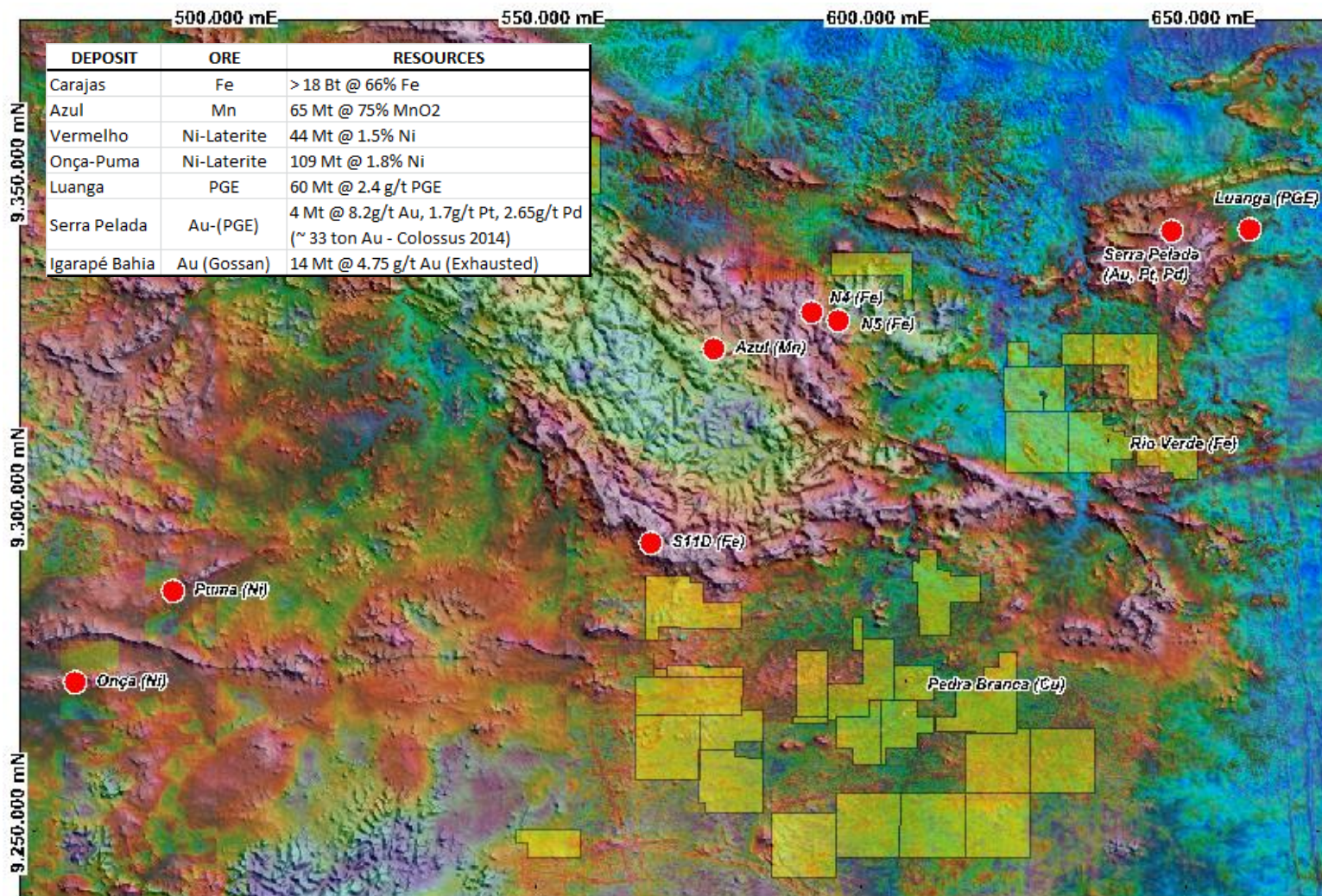


Significant IOCG Deposits



Total resources more than 5 billion tonnes at ~ 0.8% Cu

Non-IOCG Deposits



Copper Deposits

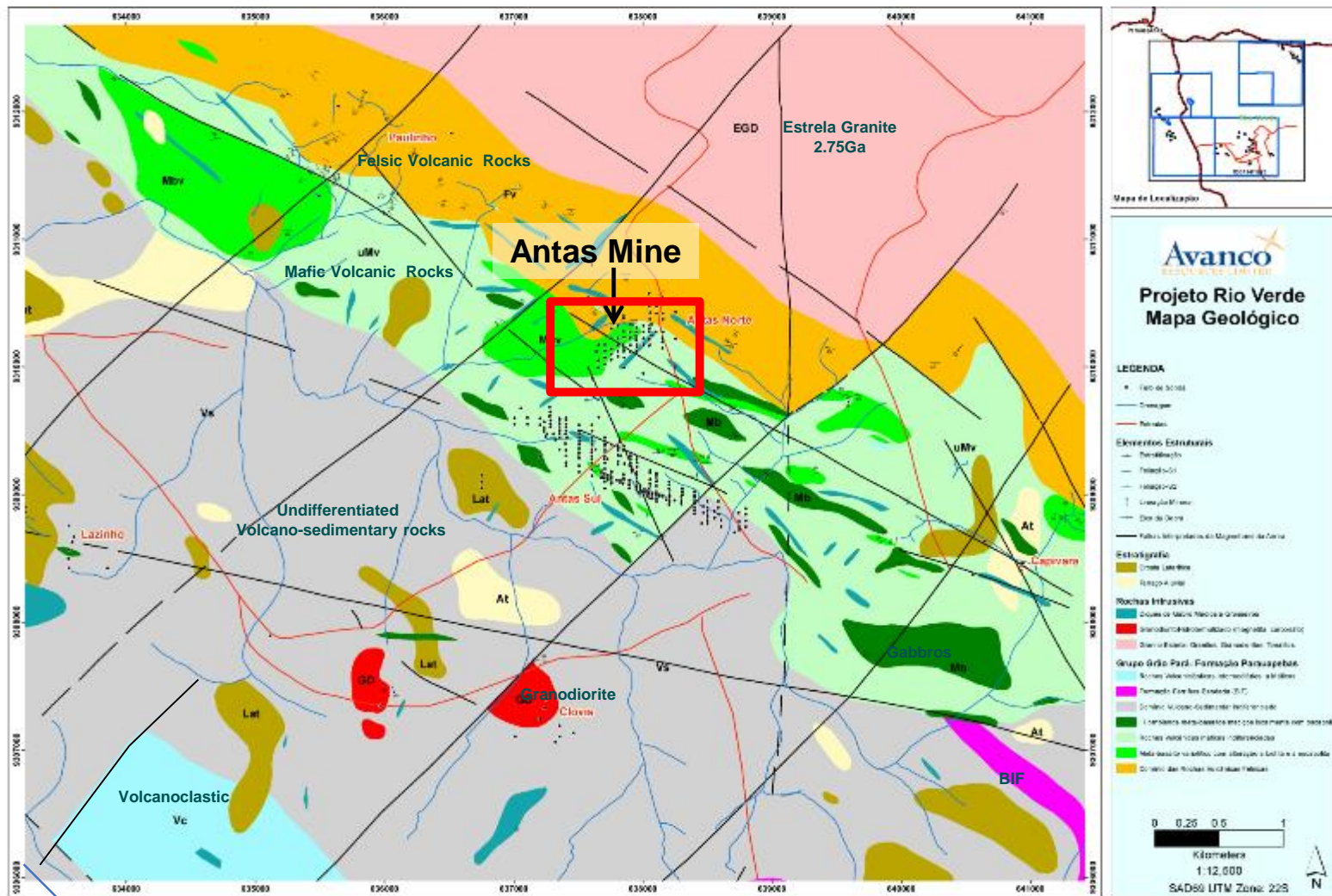
Neoproterozoic vs Paleoproterozoic Deposits

Deposit-Type	Fe-Oxide Cu-Au-(U-REE)	Cu-Au-(W-Bi-Sn) - IR
Age	~2.57 Ga	~1.88 Ga
Ore Paragenesis	Oxidized and Sulphur Poor mt-cpy-bn-cc	Reduced and Sulphur Rich po-py-cpy
Traces	Co-Ni-U-REE	W-Bi-Sn
Silica content	Silica destructive	Quartz-rich
Hydrothermal Alteration	Early Na-Ca metasomatism Potassic alteration Carbonate alt. (Siderite) Amph-(chl)-magnetite-(hm) Cpy-bn-cc	Greisen-Type Qz+Musc Stockwork Qz veins Calcite veins
Tonnage	World-Class +200 Mt	Up to 80Mt

Tallarico et al. (2004) *Mineralium Deposita* 39: pp68-86

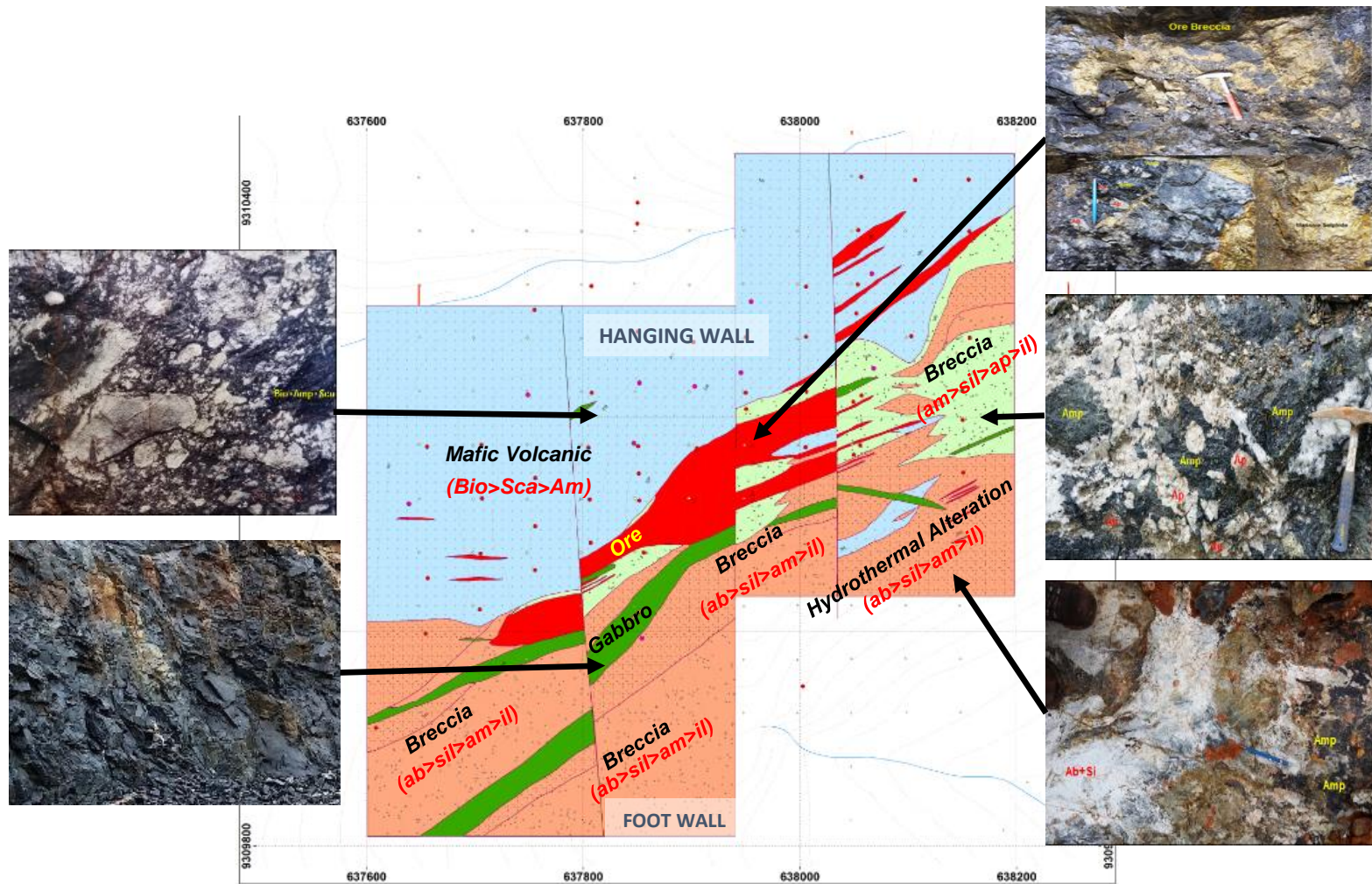
Tallarico et al. (2005) *Economic Geologist* 100: pp7-28

Rio Verde Licence (Antas Mine)



Antas North Deposit

Geology



Antas North Deposit

JORC Ore Reserves & Resources

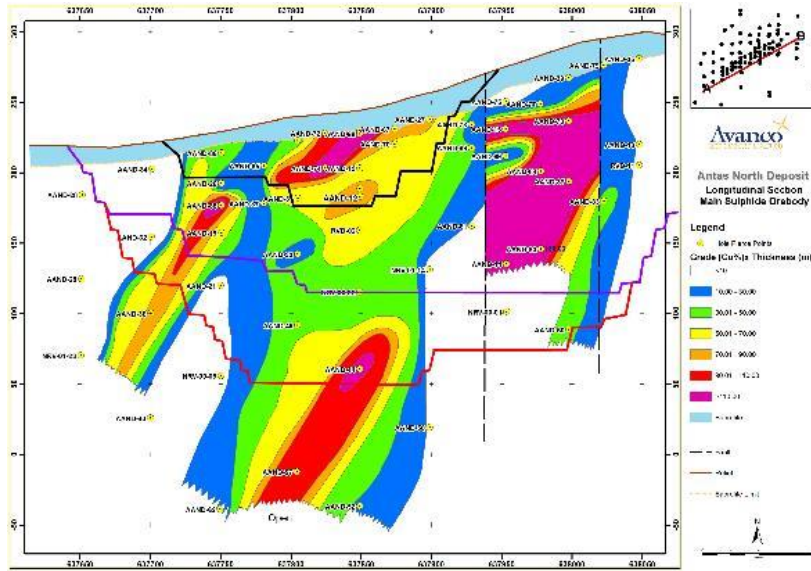
Resources

DEPOSIT	Category	Million Tonnes	Cu (%)	Au (ppm)	Copper Metal (T)	Gold Metal (Oz)
Antas North ⁸	Measured	1.96	3.42	0.76	67,000	48,000
	Indicated	1.61	2.23	0.42	36,000	22,000
	Inferred	1.89	1.59	0.23	30,000	14,000
	Total	5.46	2.43	0.48	133,000	84,000

Reserves

LOCATION	JORC Category	Economic Cut-Off Cu%	Million Tonnes	Copper (%)	Gold (g/t)	Copper Metal (T)	Gold Metal (Oz)
Antas Mine	Proved	0.65	1.23	3.34	0.73	41,100	28,900
	Probable	0.65	1.69	2.16	0.47	36,500	25,500
Mine Stockpiles	Proved	0.65	0.12	2.26	0.53	2,800	2,100
TOTAL PROVEN + PROBABLE			3.04	2.64	0.58	80,400	56,500

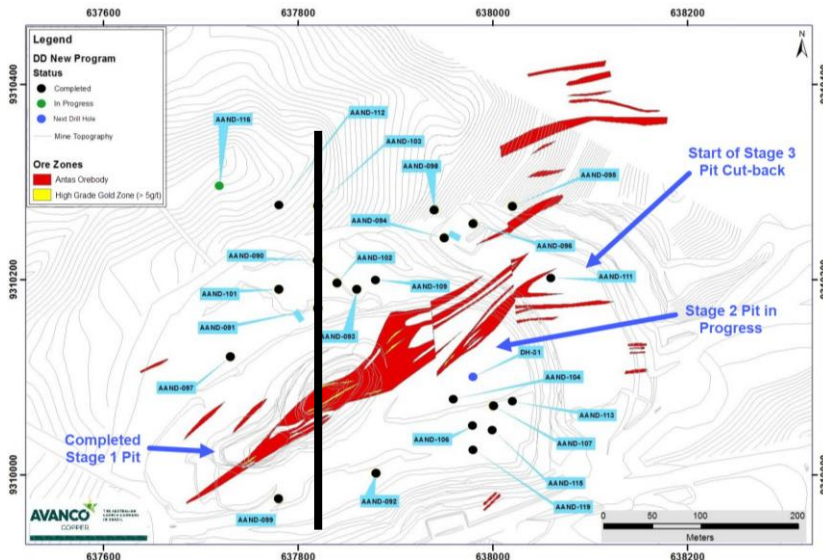
Infill & Extensional Drilling Programme



Completed 5,000m Drill Programme for Resource/Reserve Upgrade



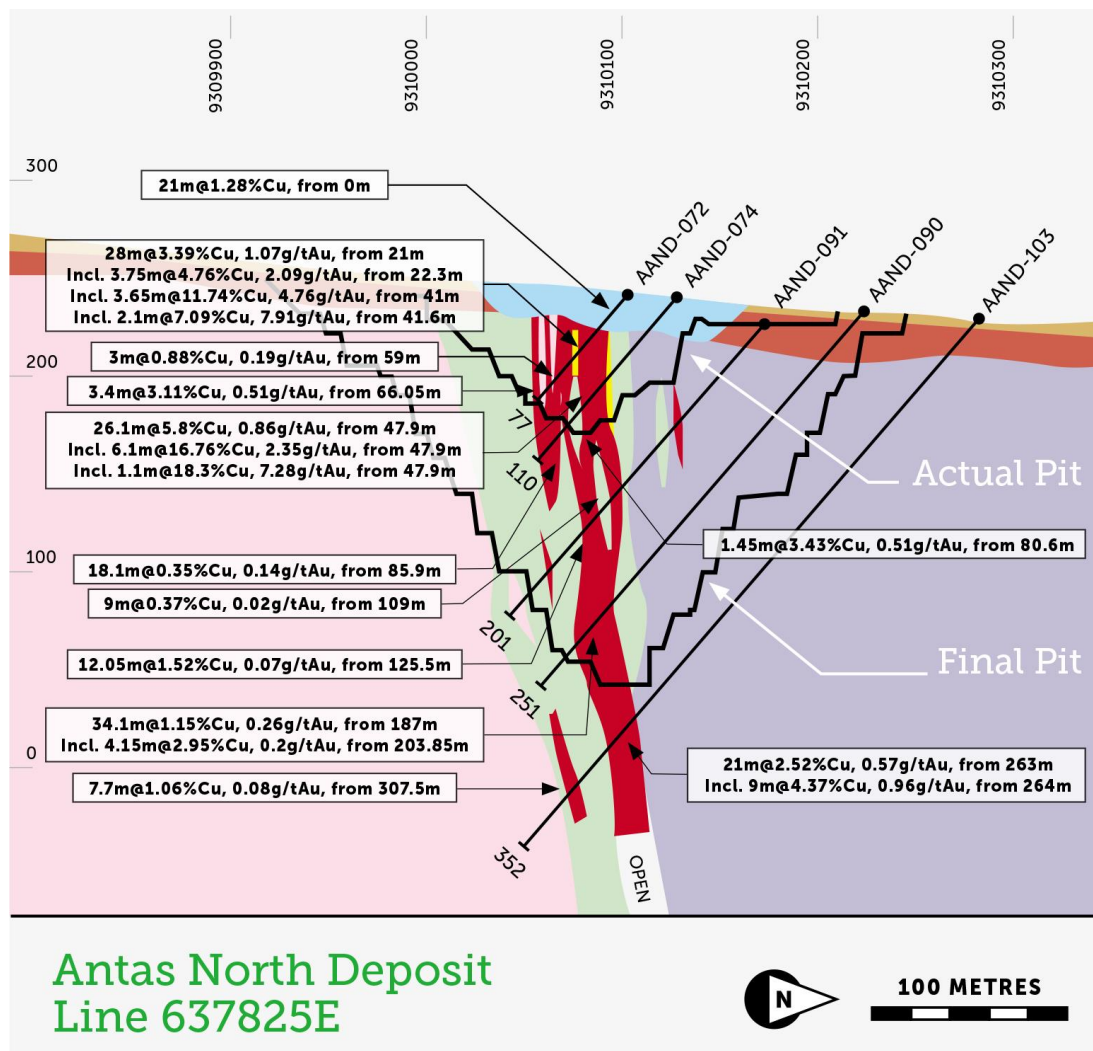
Resource Update (Now – with CSA)
Pit Optimisation and Design Update
JORC Reserves Reporting and Classification



Timing: complete by year end
Targeting: more than >1mt additional reserves
Further Scope: open for further drilling and upgrades

Antas North Deposit

Cross Section



THE AUSTRALIAN COPPER COMPANY IN BRAZIL



◦ Mining



Mining Team

Antas Mining Team

AVANCO TECHNICAL TEAM	13 people	<ul style="list-style-type: none">• Planning Engineer• Senior Geologist• Production Geologist• Resource Geologist• Grade Control Spotter/s• Surveyor & assistants	
MINING CONTRACTOR	MACA	<ul style="list-style-type: none">• Pit Supervision• Load and Haul• Production Drilling• Mechanical Maintenance	
EXPLOSIVE PROVIDER	Britanite	<ul style="list-style-type: none">• Largest explosive provider and Ammonium Nitrate Manufacture in Southern Americas• Full Down the Hole Service	

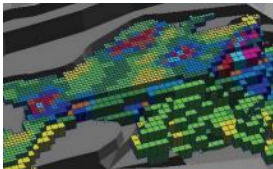
Mine Overview

One of the World's top-5 high-grade open-pit copper mines



Grade Control Drilling

- Sampling on a 5m x 10m spacing every 1m
- Drill depth to 30m



Geological Model

- Data is convert into Surpac for Mine planning and ore mark outs



Drilling

- Separate Ore and Waste shots
- 2 x CAT 5150 units



Blasting

- 5 meter blasts with emulsion explosives



Load And Haul

- R9150 Excavator (120t)
- 7 x Volvo A40F trucks
- 2 x CAT D9T dozers

Mine Overview

High-grade with competent rocks makes for efficient mining

Planned 3 Stage development:

Stage One: 100% Completed, to the 170 bench

Stage Two: 60% completed, currently at the 190 bench

Stage Three: 20% completed, Final cut back to the 40 bench

Mine Facts

- Stage Three final dimensions will be, 650m length, 350m wide, 250m deep
- Life-of-mine strip ratio of 6.4 : 1
- Average slope angle 55° with ramps at 15°
- Current life-of-mine to 2021

Operations

- Mining contracted to Mining & Civil Australia (MACA)
- Conventional mining method with load and haul
- Three shifts, 24 hours a day, 365 days a year

Conventional load and haul mining using a modern fleet



Mining Process (1 of 3)

Grade Control Drilling

- Critical step in ore mining control and planning
- Drilling 5m x 10m drill pattern at 30m vertical depths
- Sampling is taken every 1m and assayed by atomic absorption
- Infill drilling 15m x 10m at 50m metre drilling (every third hole) to overlap drilling
- Drilling completed by reverse circulation
- Geological model created in Surpac Mine planning Software

Mining Process (2 of 3)

Blast Hole Drilling

- Drilling and blasting completed on 5m benches
- Conventional drill and blast techniques with staggered drill pattern
- Drill parameters change with material characteristics
- Drill hole cuttings are sampled to added further geological data for grade control due to the geological nature of the ore body
- Average 3-4 blasts a week

Mining Process (3 of 3)

Mining

- Mining completed in 2.5m flitches
- Ore mining visually controlled by in-field geological technicians with survey control marking up ore boundaries defined by both blast hole sampling and geological models
- Ore is designated by copper content and individually stockpiled on the Run of Mine stockpiles (ROM pad) to maintain consistent copper grades
- Waste stockpiled in single location in 10 metre high benches

Mining Fleet

Newly purchased equipment tailored to the operation

Liebherr R9100 Excavators x 1

120t class excavator in backhoe configuration,
565kW, 7.6 metre cubed rock bucket

Volvo A40F articulated off road haul trucks x 7

6-wheel drive, which is excellent for wet weather conditions,
40 km/hr, with a nominal 40 tonne payload, equal to 14 cubic metres

Caterpillar 5150 top hammer drill rigs x 3

32kw Hammer, 97-115mm drill diameter, averaging 22 meters per hour

Auxiliary equipment

Including front-end loaders, dozers, graders, water carts and service trucks.

100% local workforce



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◦ Metallurgy



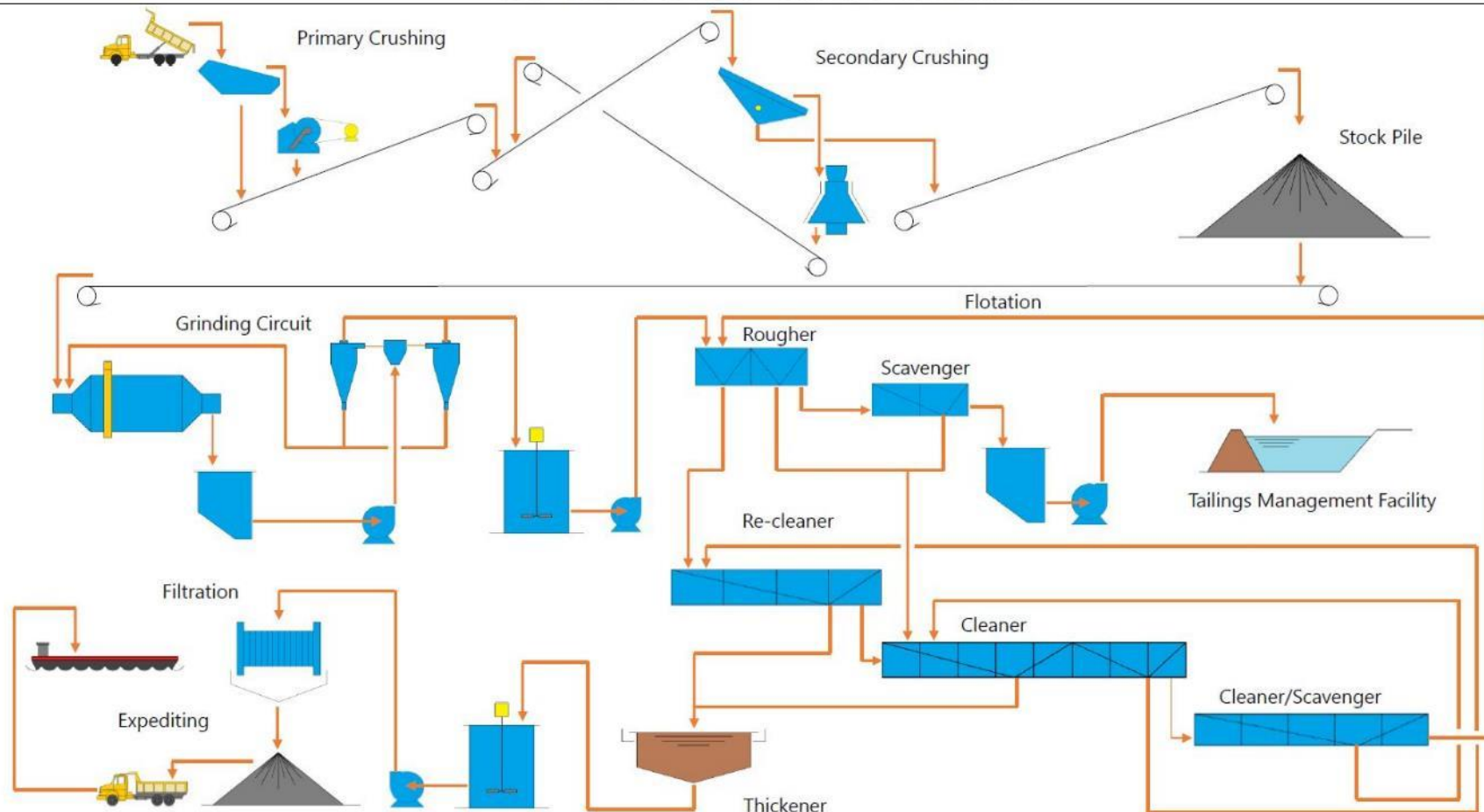
Antas Processing Plant and Tailings Dam



Process Plant Overview

Conventional Crushing, Grinding, Flotation, Filtration Process

PROCESS FLOWSHEET – ANTAS COPPER MINE





Crushing Circuit		Accumulated 2017	
Availability	%		74.2
Utalization	%		77.5
Productivity	t/h		133.0
Jaw Crusher Product	inches		4.0
Final Product	mm		19.0



Grinding Circuit		Accumulated 2017	
Availability	%		89.5
Utalization	%		98.5
Productivity	t/h		88.3
p80	mícrons		106.0
% solids	%		30.0



Flotation	Accumulated 2017	
Collector Aero 3894	g/t	8.0
Frother MIBC	g/t	9.0
Copper Recovery	%	97.0
Gold Recovery	%	84.3
pH		8.2



Concentrate Filtration		Accumulated 2017
Copper Grade	%	28.1
Gold Grade	g/t	7.2
Silver Grade	g/t	28.5
Copper Metal produced	t	10,400
Concentrate Humidity	%	7.0

Plant Construction

Under Budget – Under Schedule

- Completed ahead of schedule and below budget
- Many major components sourced second hand:
 - Mill – Unused METSO 24' x 12' Ball – 1800HP
 - Flotation circuit – OUTOTEC OK38 & Denver 21s
 - Filter feed tank, Concentrate building, METSO sump pumps, air receivers
- Self designed with specialist Brazilian OEMS transportable 'plug-and-go' components
 - SIMPLEX - Mobile Crushing Circuit
 - VISION - Electro Centre
 - WESTEC - Thickener
- All Installation done by Local Contract Companies
 - IRF
 - COMPACTA
 - MCM
 - SENIC
 - CERNE
 - LUK

**Many costs halved
lead times reduced**

**Reduced
commissioning time**

Community Relations

Operating KPIs

Exceeding every expected metric since day one

Today process above design; further optimisation ongoing

- Throughput capacity 20% at 100/tph
- Copper Production +17% at 14,000 annual copper production
- Copper recoveries +2% at 97%

For the future, plant design flexible and expandable:

- Capacity can be doubled for less than \$20million

Concentrate Sales & Logistic

Profitable operation ahead of targets

High Quality Concentrate

- Very clean medium-grade concentrate with negligible impurity level
- Average 28% copper content, 5g/t gold and 30g/t silver
- Highly sought by traders and smelters globally

Efficient and cost competitive Route-to-Market

- Established infrastructure from mine to Vila do Conde port
- Containers ensure seamless transshipping; no warehousing or trans-handling costs
- Facilitates higher frequency shipments, smoothing cash-flows

Antas Concentrates Realise Higher Values

- Quality product achieves superior sales prices and terms achieved
- Some of the lowest treatment and refining charges in market
- Payment at departure port, not arrival port, good for cash flow

Containerised concentrate shipping is seamless – Plant to Overseas Purchaser Depot



TMF

Conventional Safe Design



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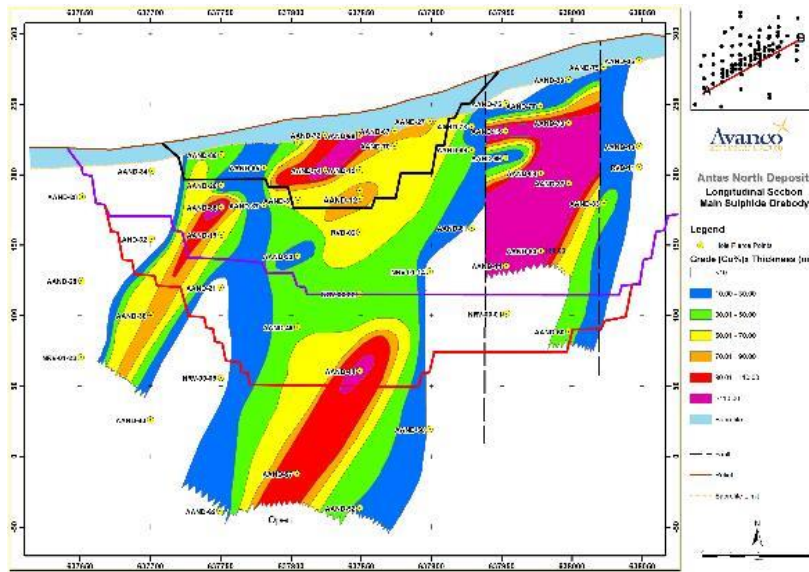


◦ Growth



Antas Open Pit Growth

Infill & Extensional Drilling Programme



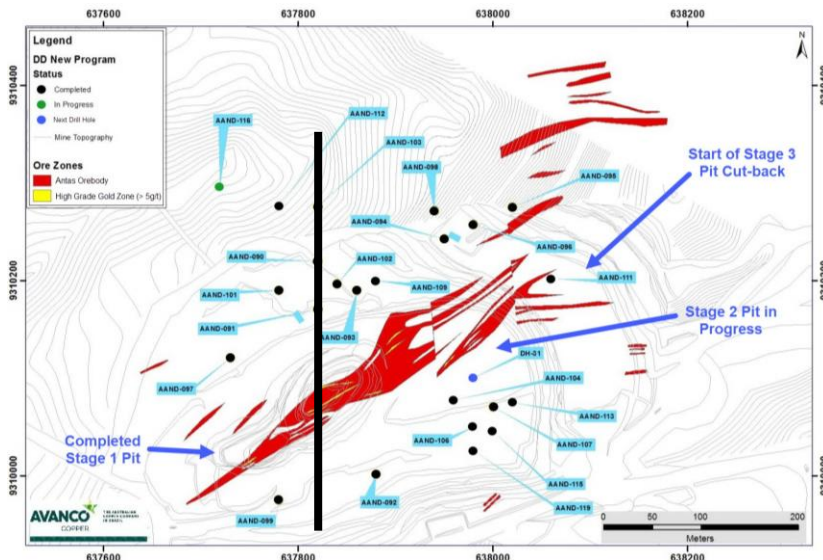
Completed 5,000m Drill Programme for Resource/Reserve Upgrade



Resource Update (Now – with CSA)
Pit Optimisation and Design Update
JORC Reserves Reporting and Classification

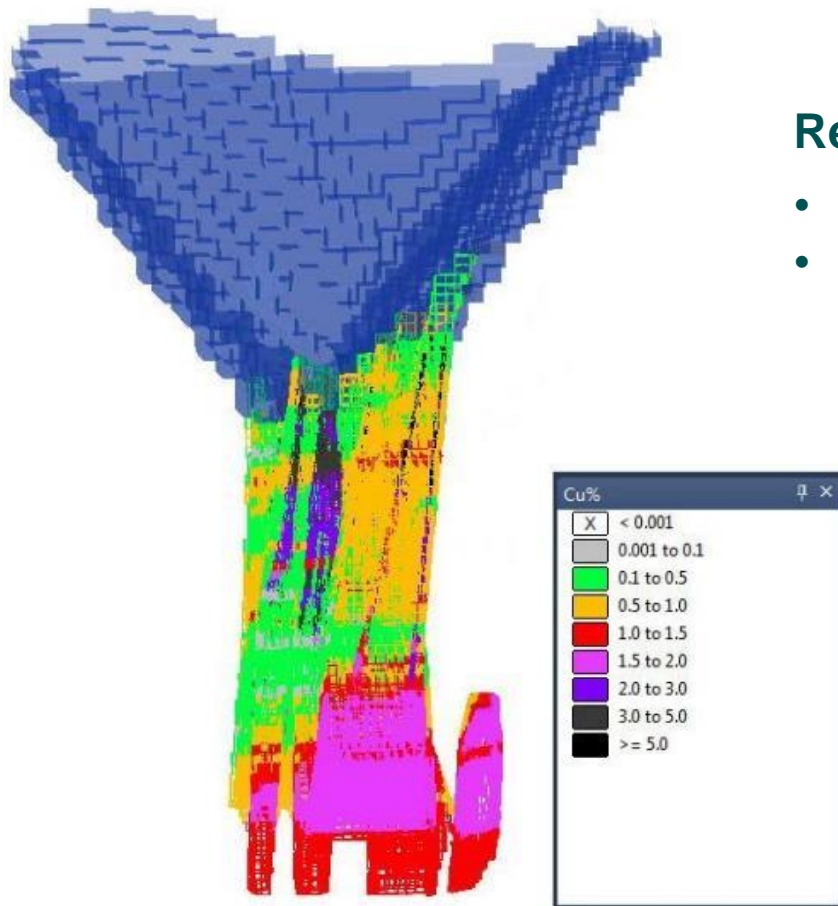


Timing: complete by year end
Targeting: more than >1mt additional reserves
Further Scope: open for further drilling and upgrades



Antas North Deposit

Underground Potential



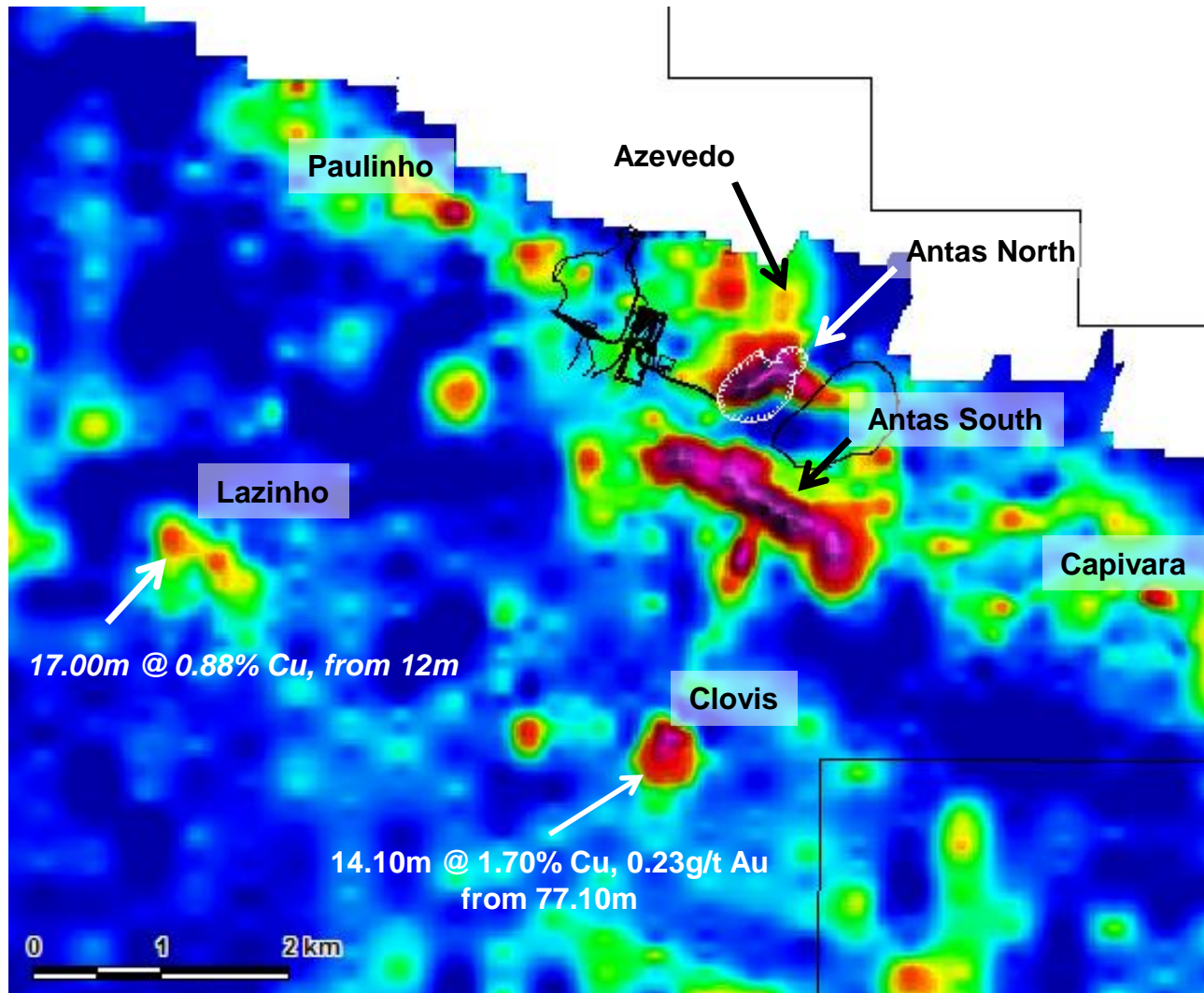
Open at Depth

Remaining Resources Below Pit Shell:

- 1.9Mt @ 2.16% Cu & 0.45gpt Au
- Containing: 41,000t Cu & 27,000 oz Au

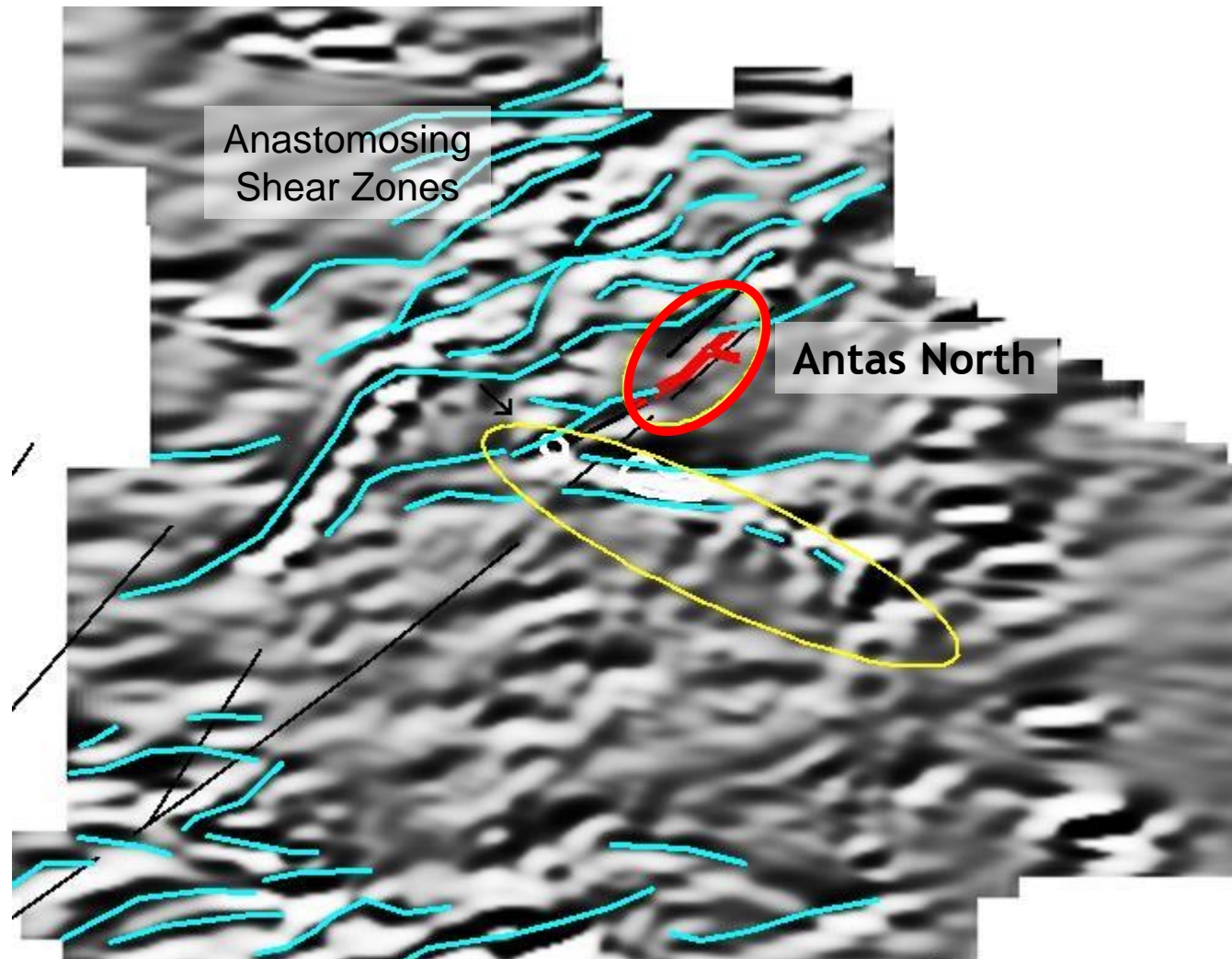
Antas Near Mine Potential

Within the Granted Mining Lease



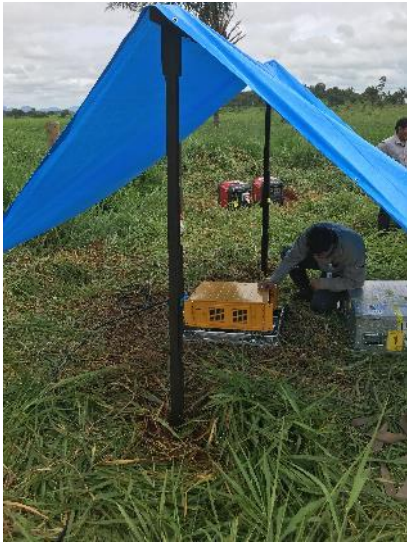
Antas North Deposit

Structural Setting



Electromagnetic Equipment

Surface & Downhole Programme



Purchased a 2nd Ground EM \$0.23m
Purchased downhole EM Probe \$0.08m



Both units currently deployed around the Antas Mine



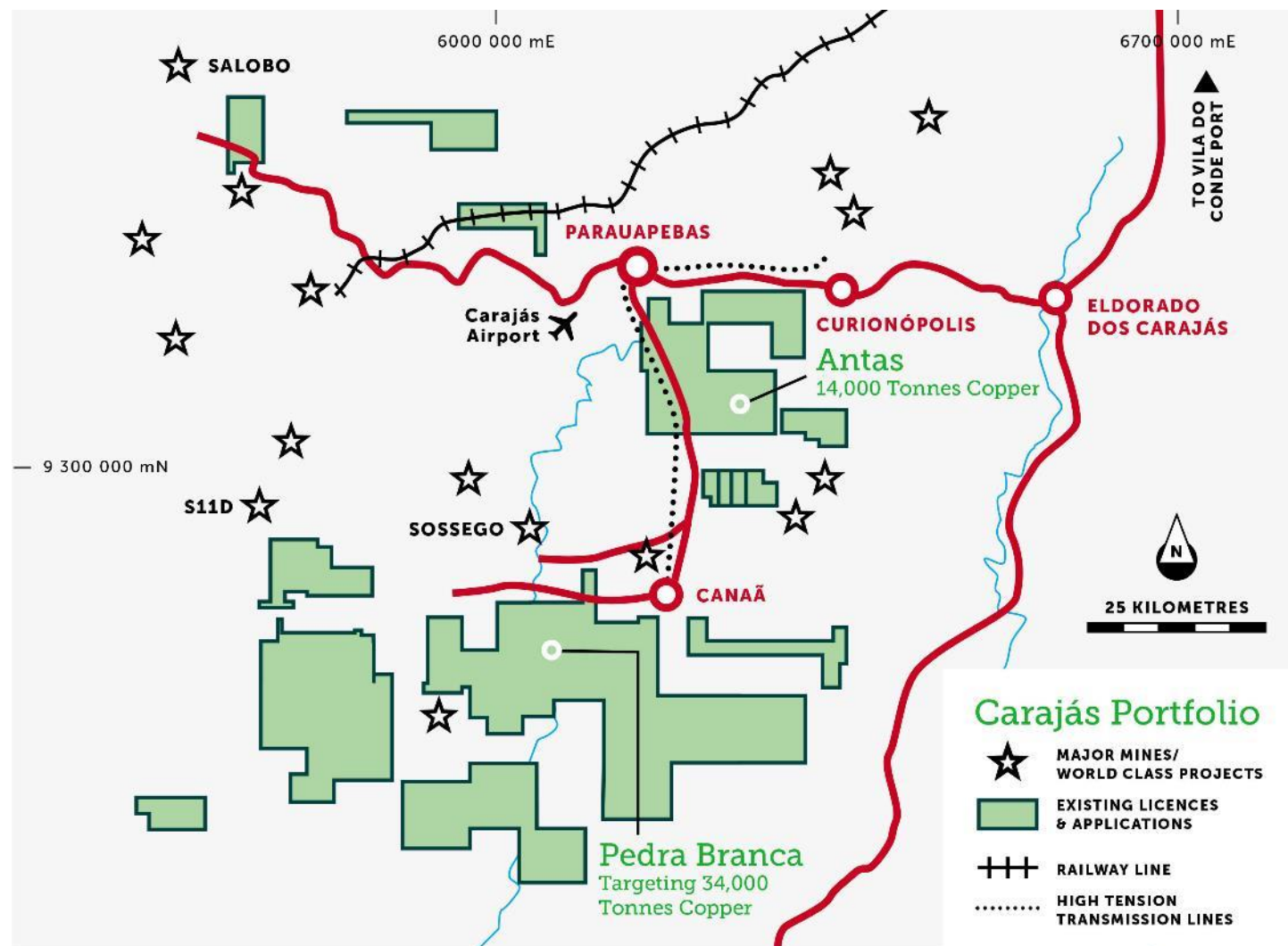
When all work is finished at the mine, one unit to continue with DHEM (waiting on winch)

Second unit to be deployed in regional exploration.
Starting at the Pedra Branca shear



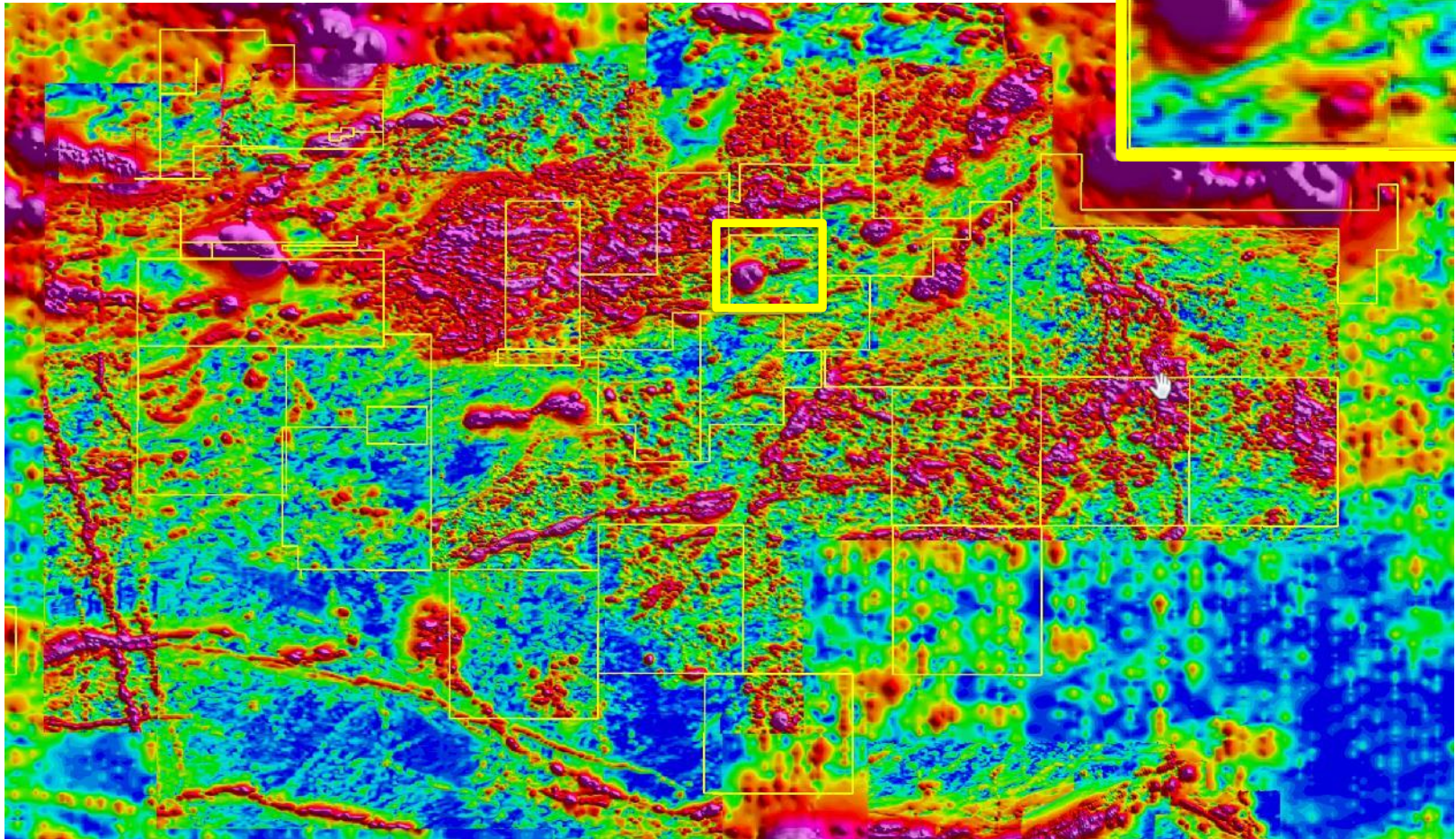
Carajás Portfolio

Pedra Branca



Pedra Branca Licence

Magnetic Analytical Signature Image



Pedra Branca

Reserve Definition/Growth Drilling Programme

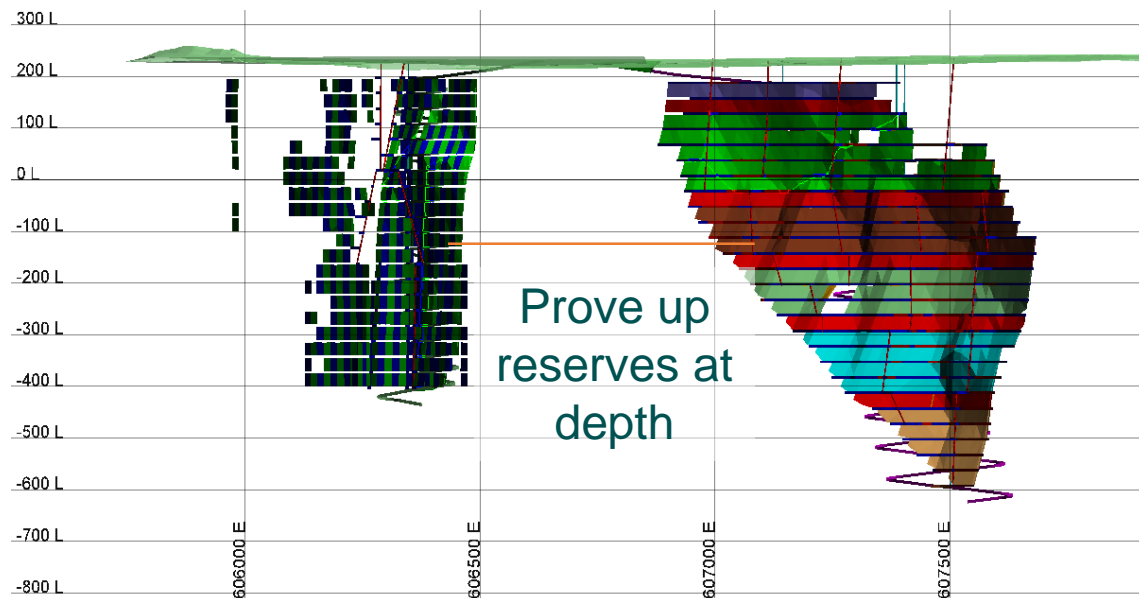
Pedra Branca East DFS
Reserve Drilling \$1.0m
5,000m of DDH drilling



Targeting improved JORC
classification at depth

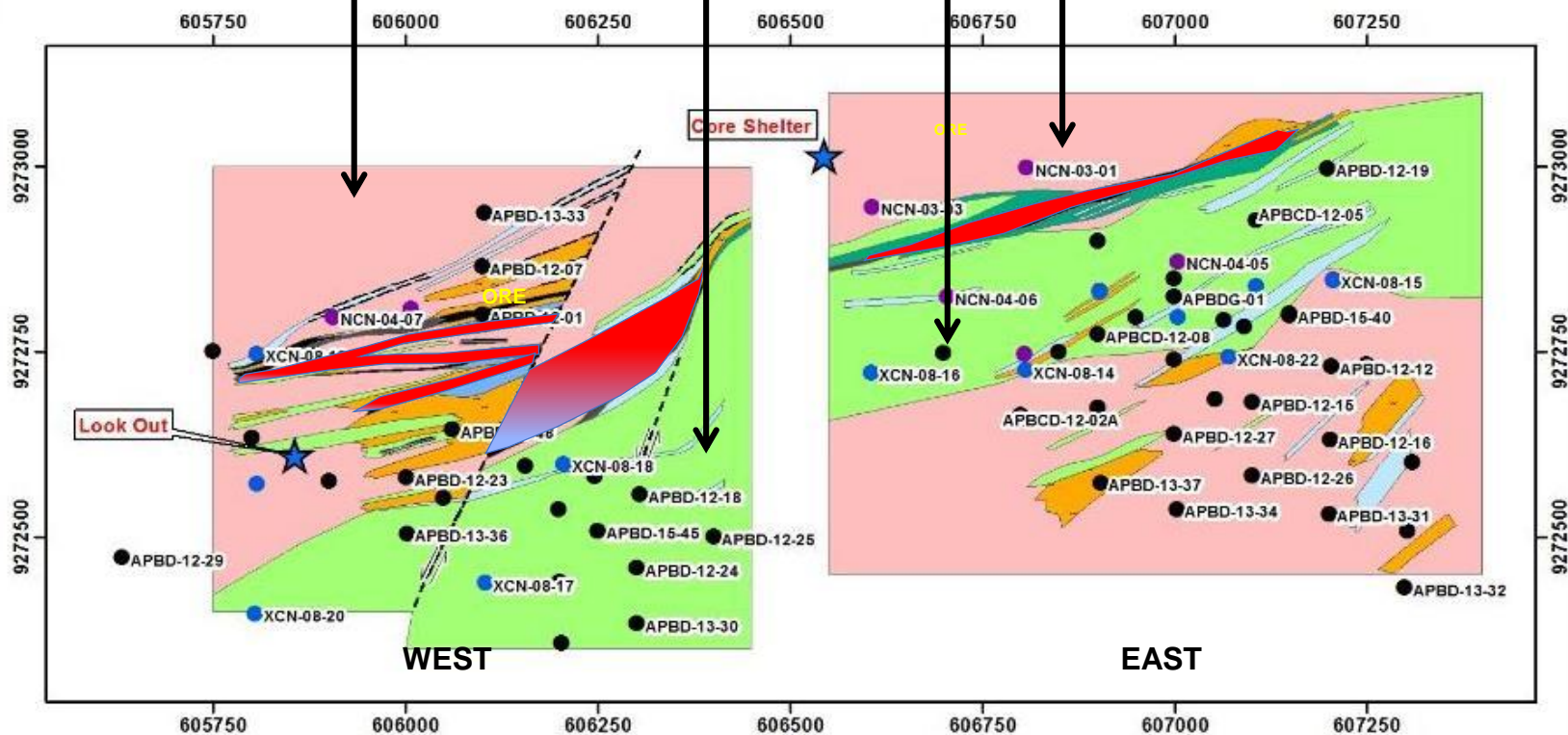


Timing: approx. 6 months
Target Outcome: increase PBE
reserves to approx. 10mt



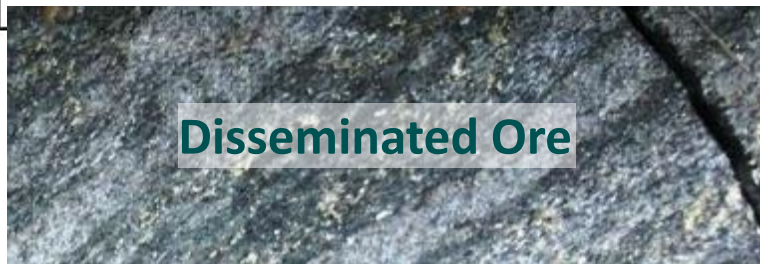
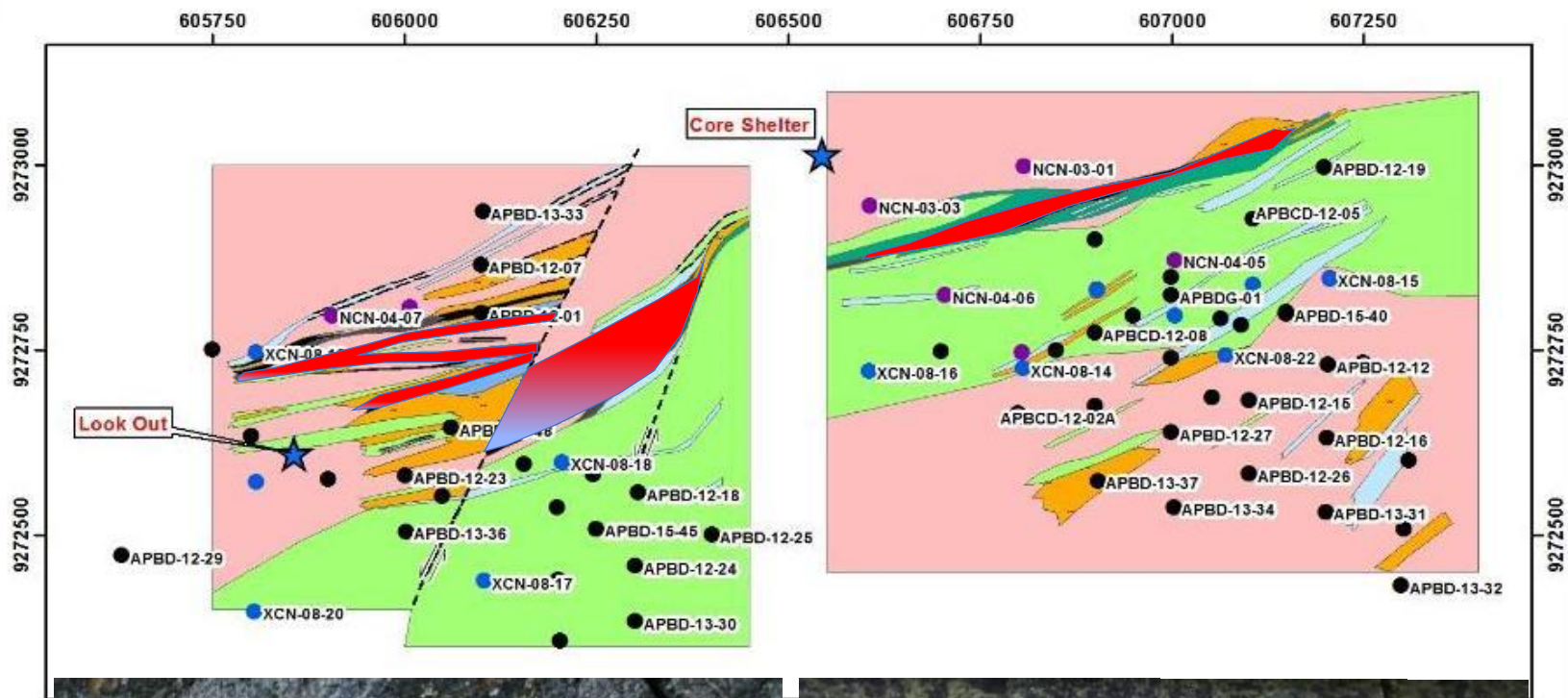
Pedra Branca

Geology – Host Rocks



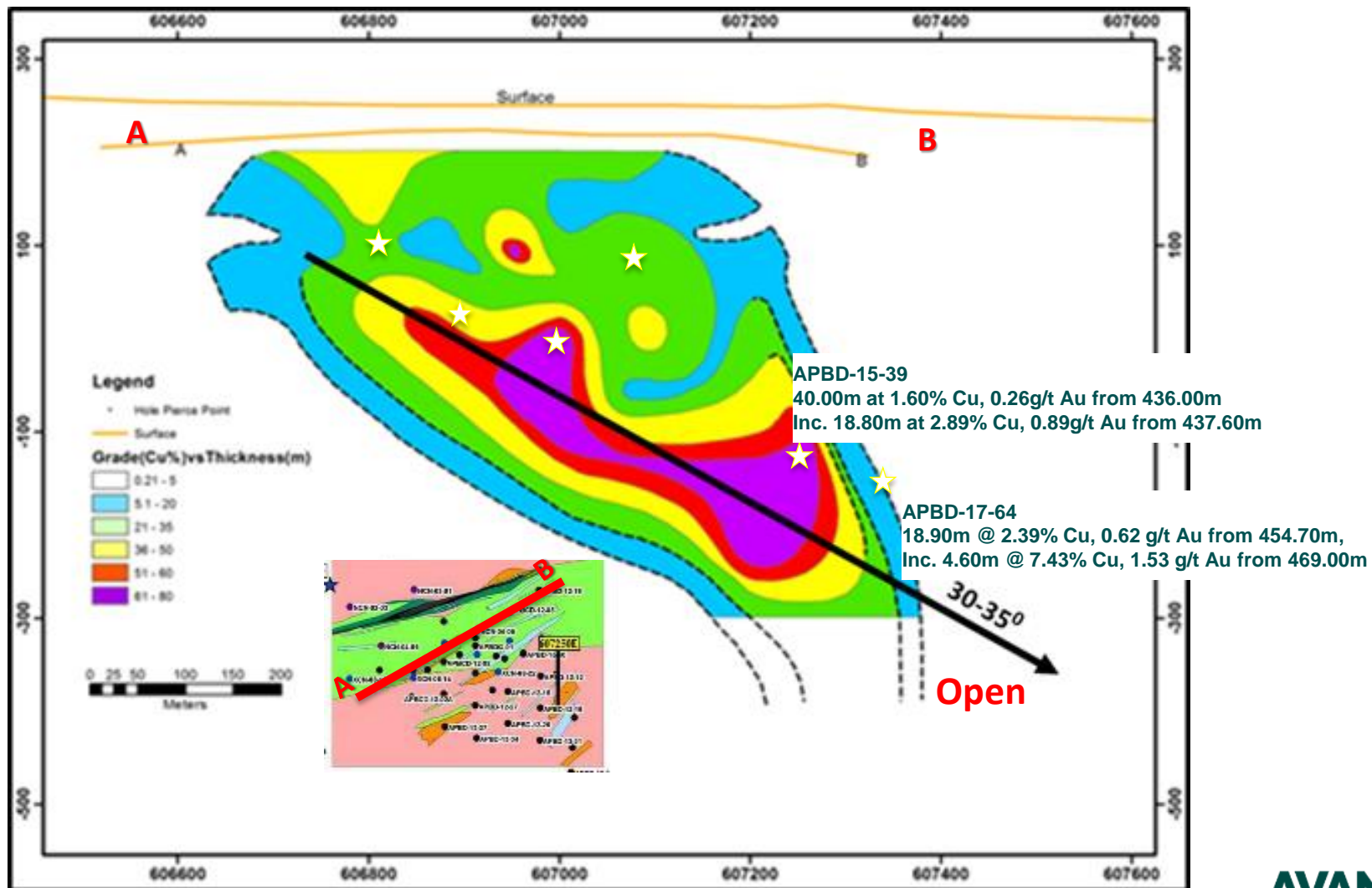
Pedra Branca

Geology – Ore Types



Pedra Branca East Deposit

Long Section - Upside



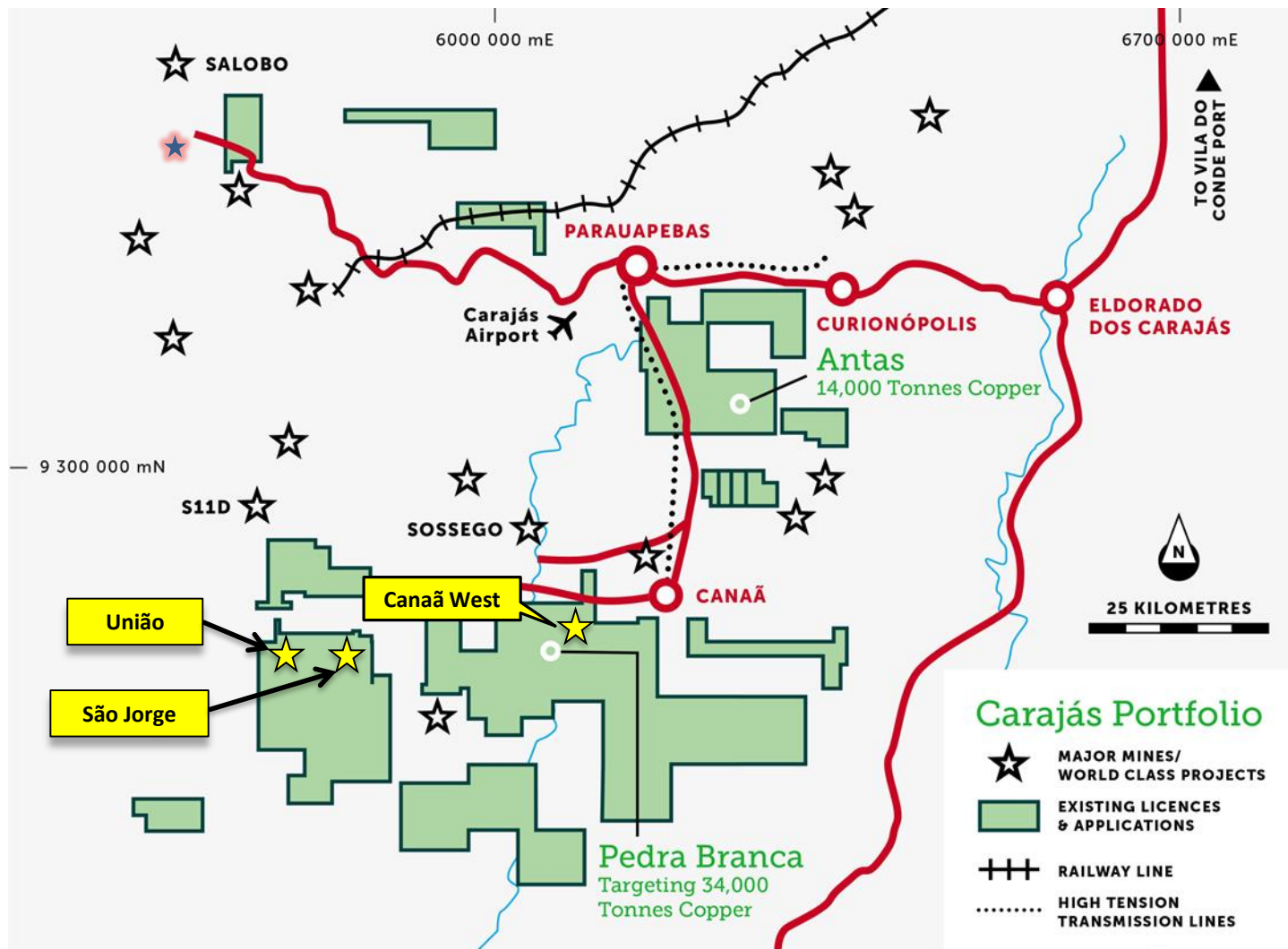
Pedra Branca

JORC Mineral Resources

At 0.9% Cu cut-off

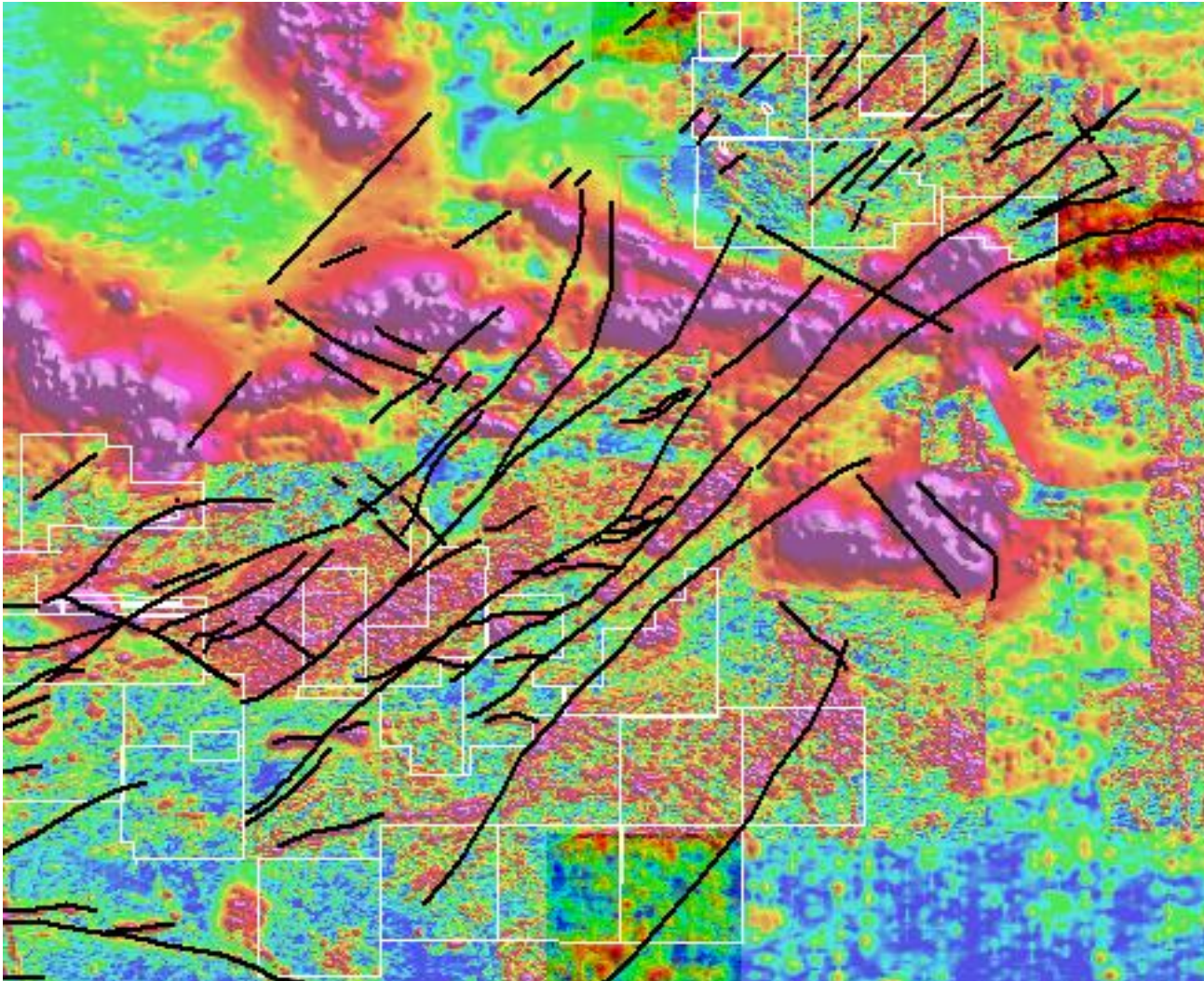
DEPOSIT	Category	Million Tonnes	Cu (%)	Au (ppm)	Copper Metal (T)	Gold Metal (Oz)
PB East	Measured	1.98	2.7	0.7	53,000	43,000
	Indicated	5.72	2.8	0.7	161,000	123,000
	Inferred	2.78	2.7	0.6	75,000	55,000
	Total	10.48	2.8	0.7	289,000	221,000
PB West	Indicated	4.46	2.04	0.61	91,000	87,000
	Inferred	2.74	1.72	0.56	47,000	49,000
	Total	7.19	1.92	0.59	138,000	136,000
Pedra Branca	Total	17.67	2.44	0.65	427,000	357,000

Regional Exploration



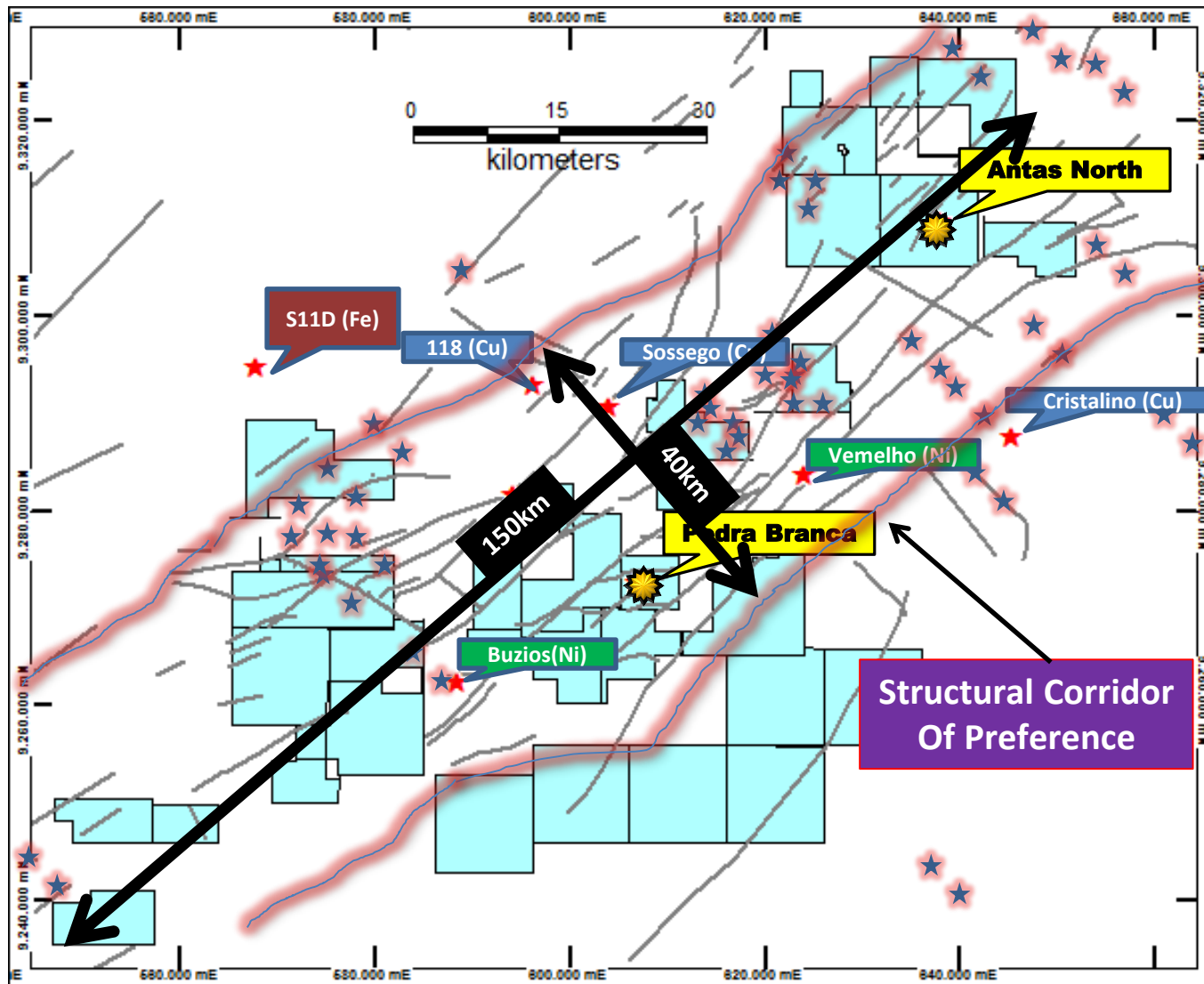
Regional Exploration

Structural Interpretation over Magnetic Analytical Signal



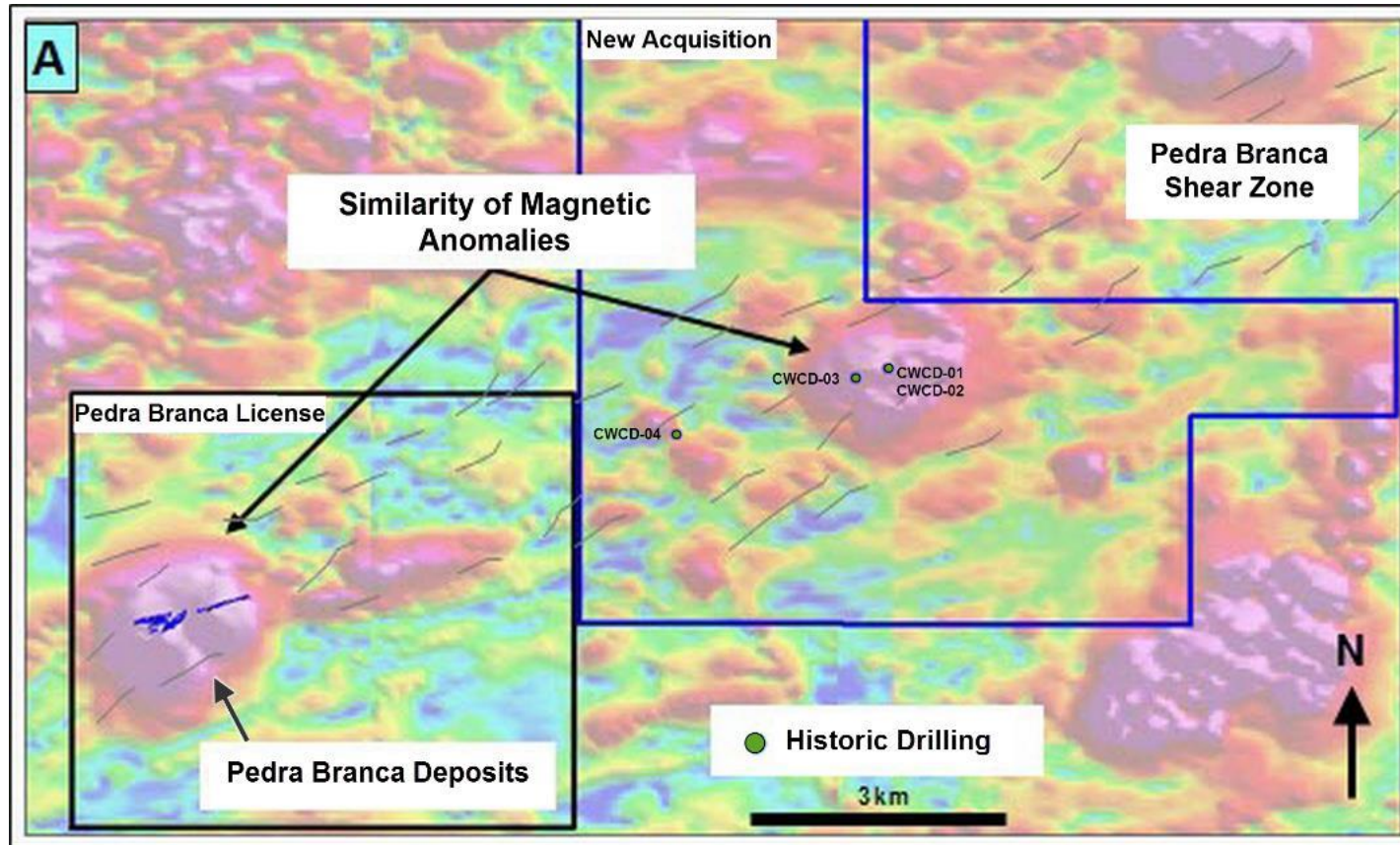
Regional Exploration

Structural Focus



Regional Exploration

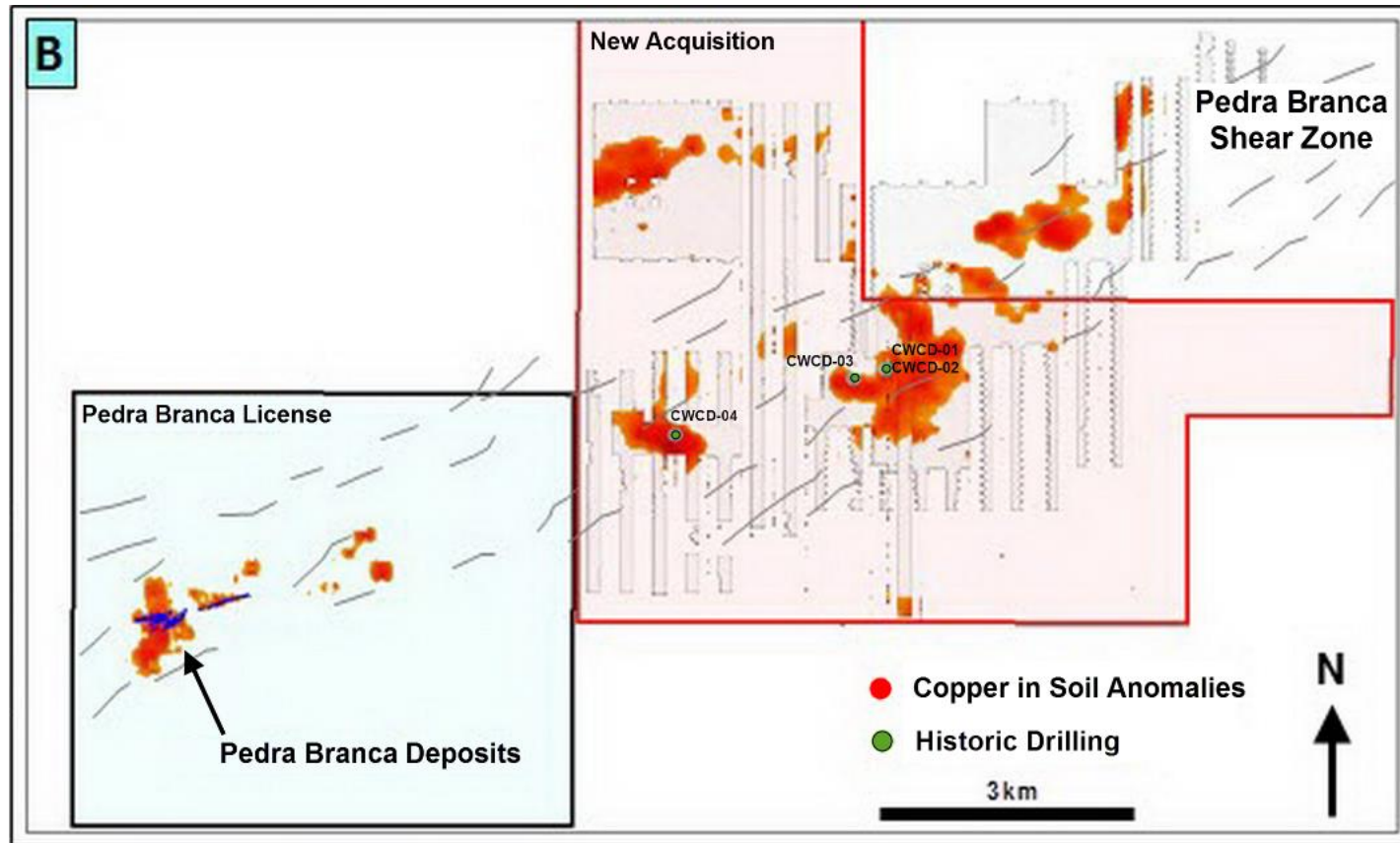
Canaã West



Covering the extension of the same shear zone that hosts Pedra Branca (located within the regional prospective structural corridor that is the primary focus of exploration), the licence contains an almost identical “bullseye” magnetic anomaly to Pedra Branca

Regional Exploration

Canaã West

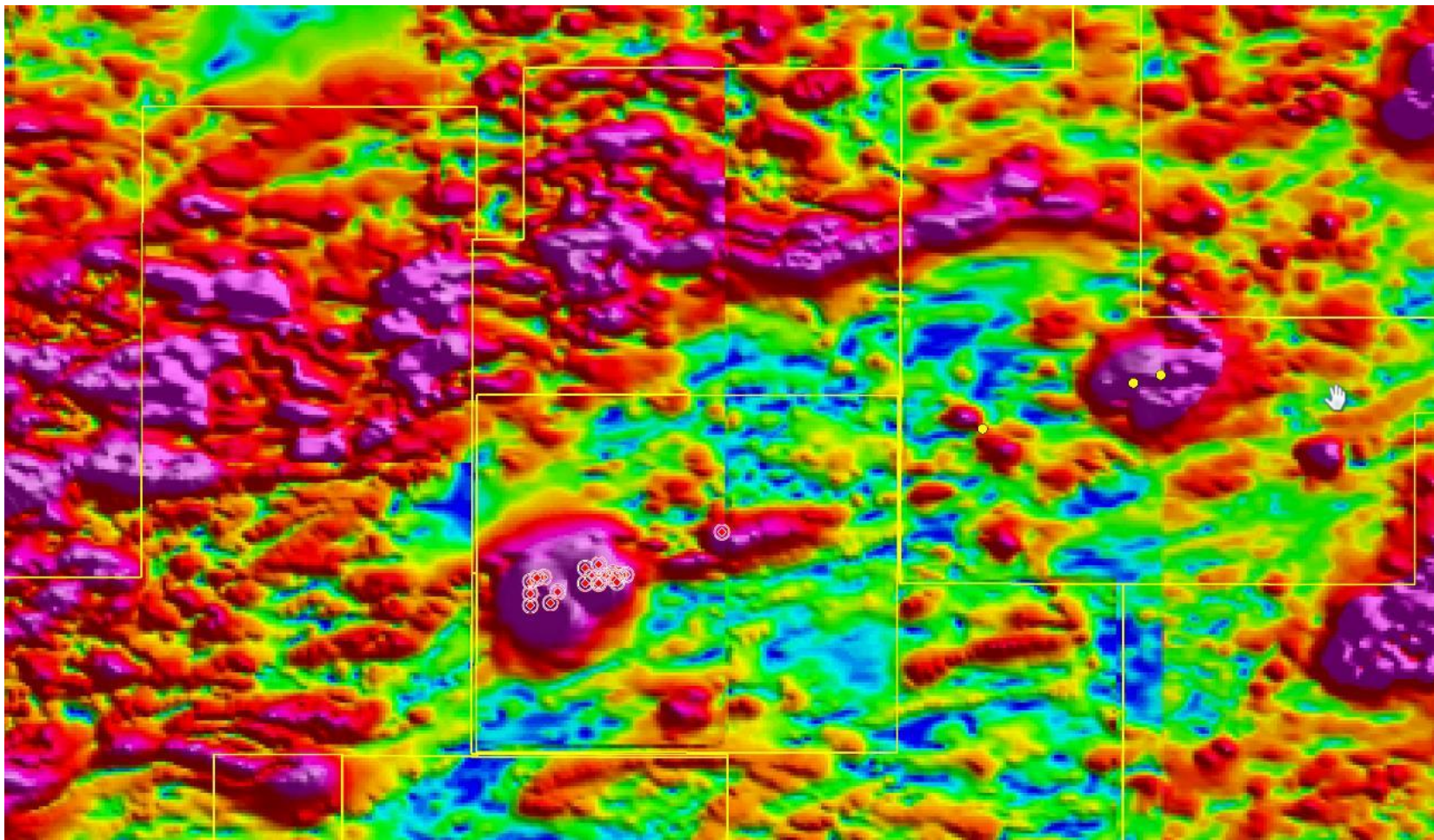


Three copper-in soil anomalies identified, the largest (1,500m by 900m) associated with the bullseye magnetic target, much larger than the soil anomaly at Pedra Branca

4 diamond holes were drilled to test the potential for a very large world class IOCG deposit. with 2 out of 3 holes on the main anomaly intersecting copper/gold mineralisation

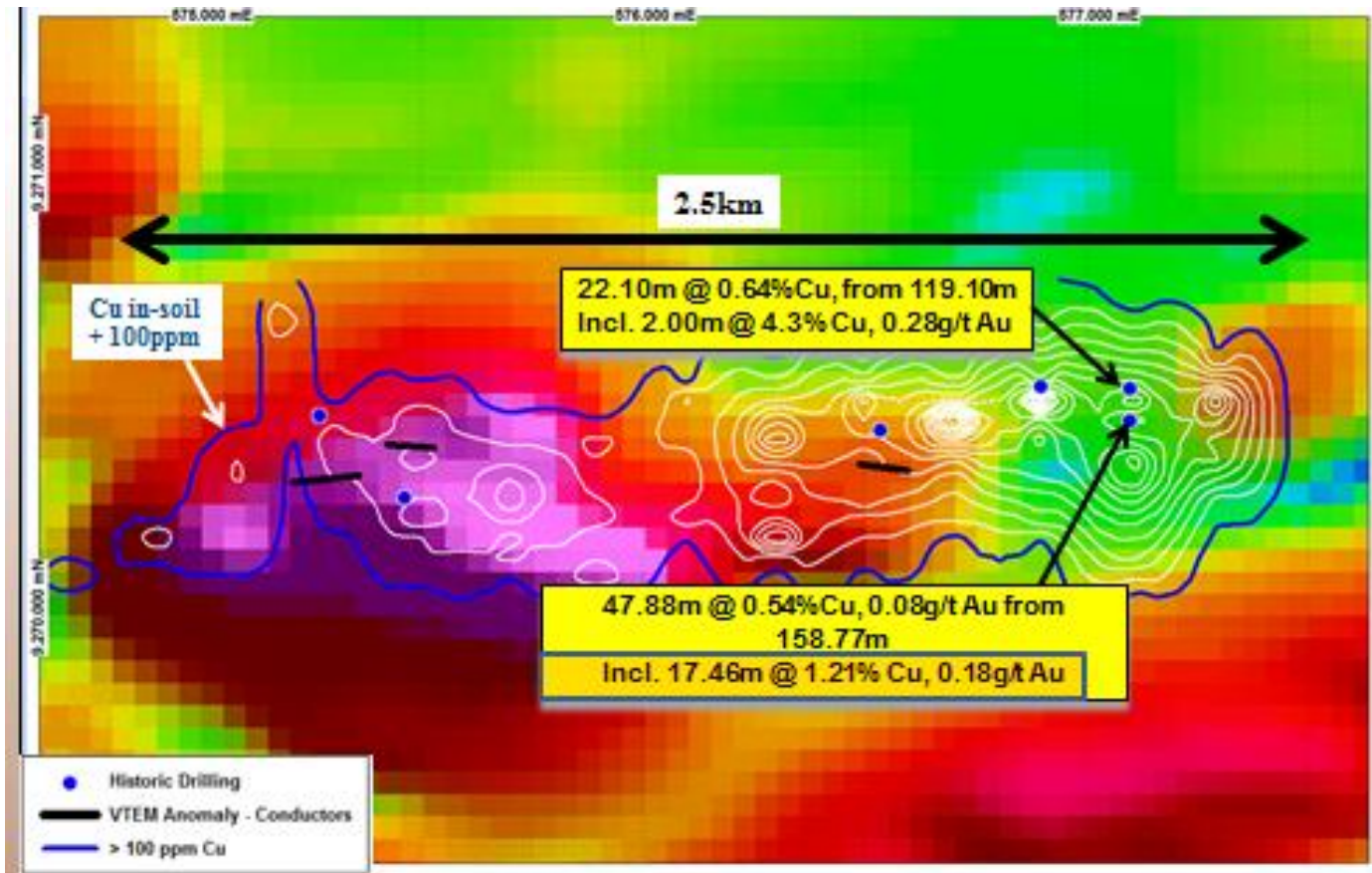
Regional Exploration

Pedra Branca East Extension



Regional Exploration

São Jorge



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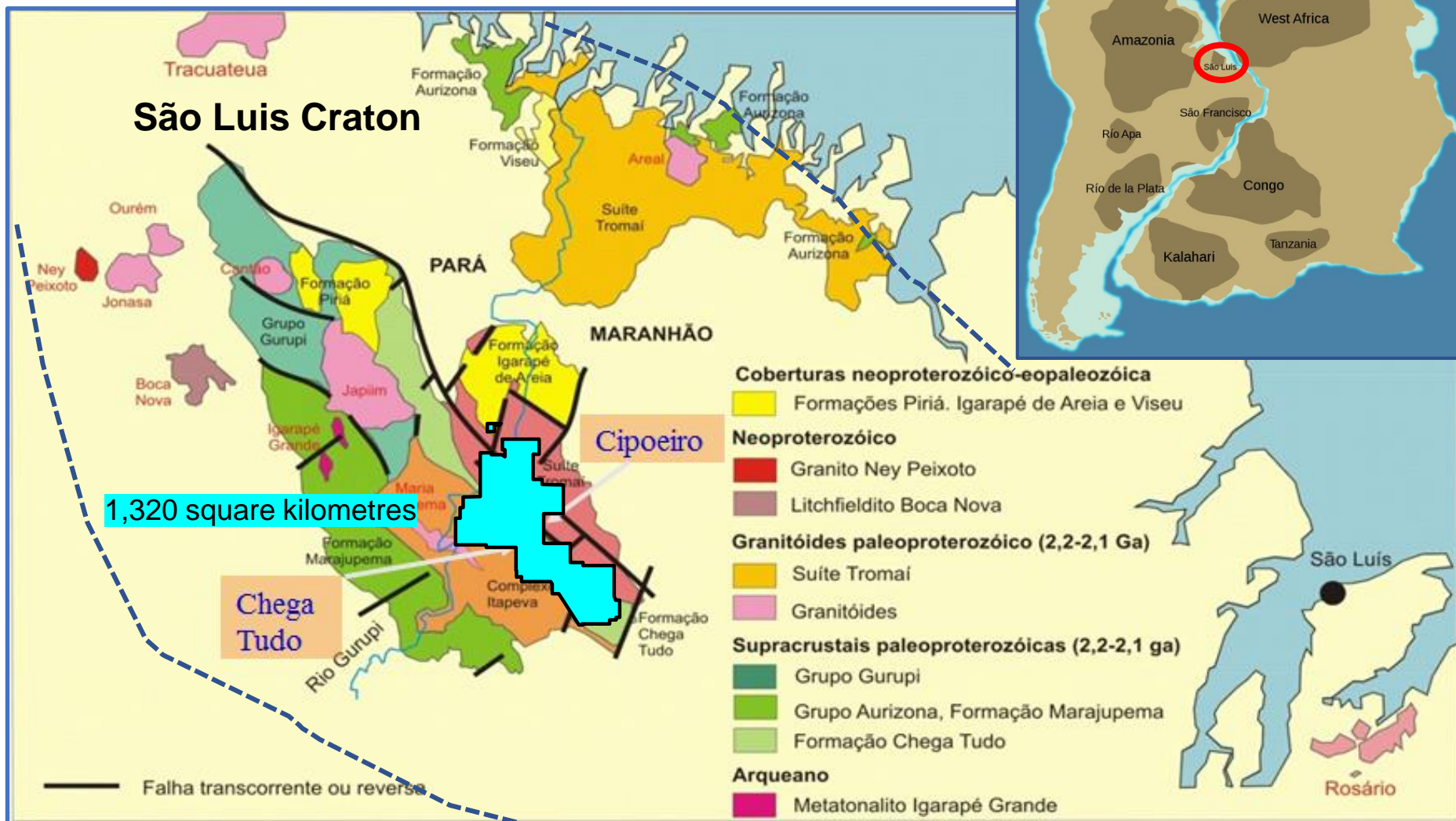
◦ Centro Gold Project



Location



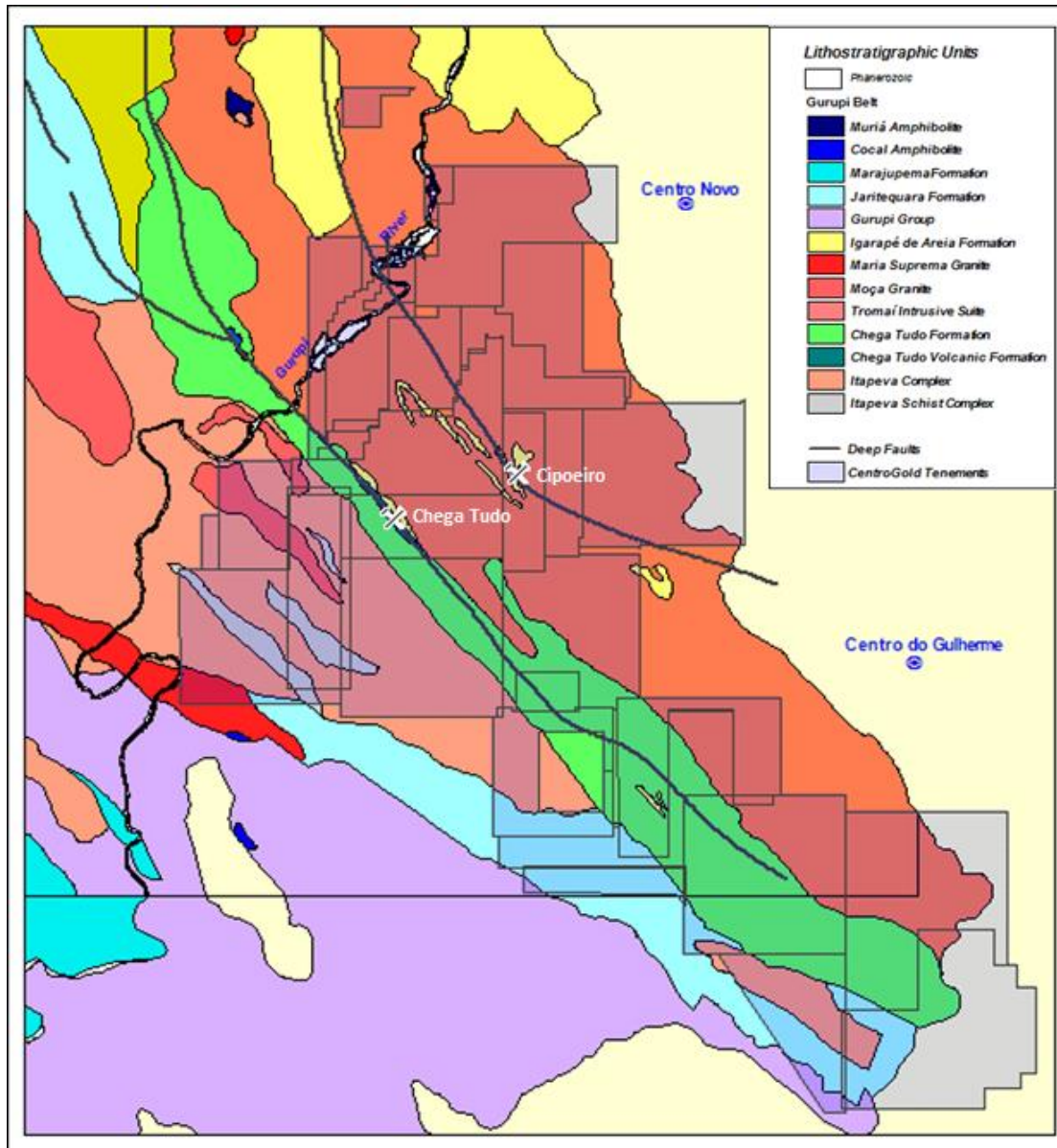
Tectonic setting



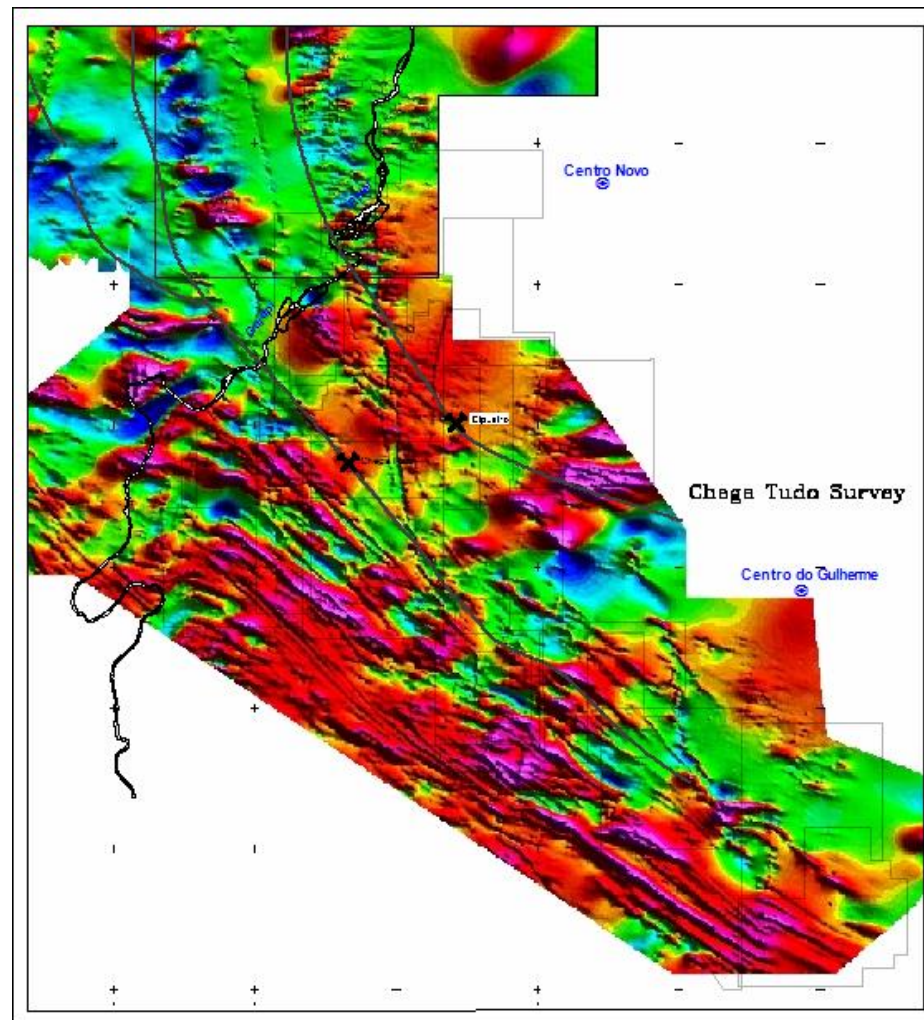
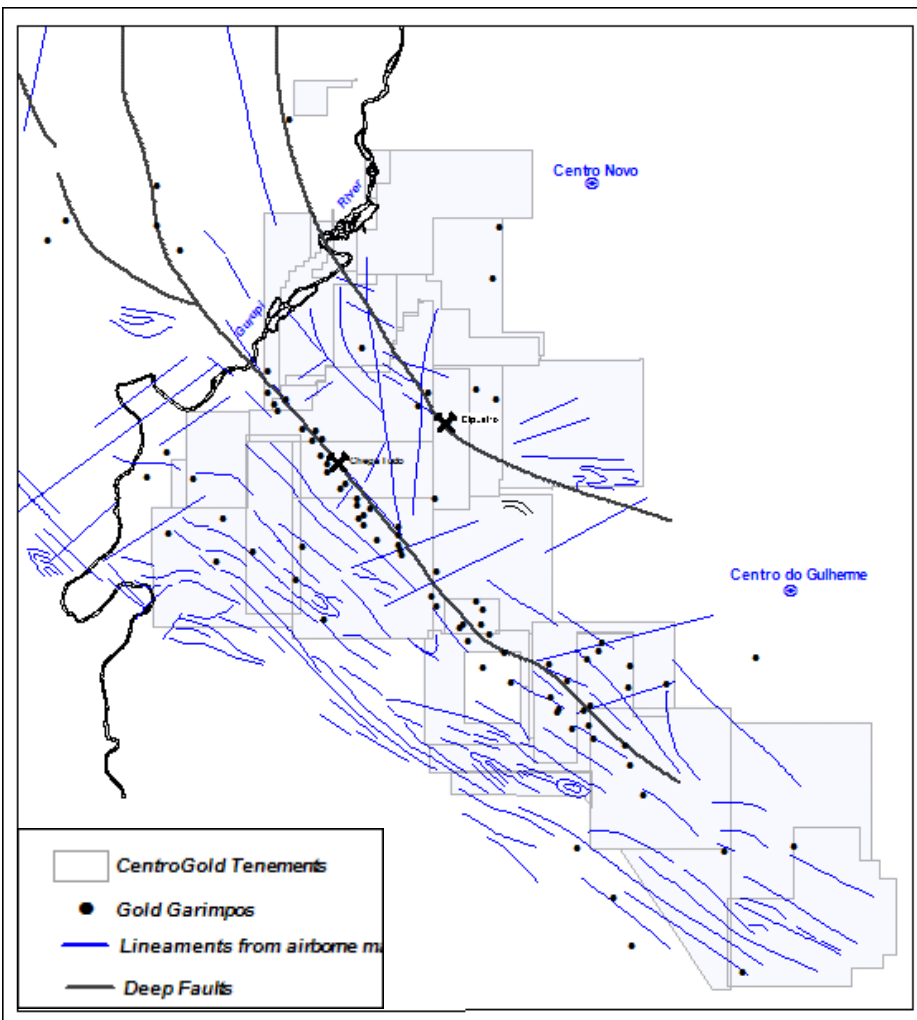
Gold Deposits



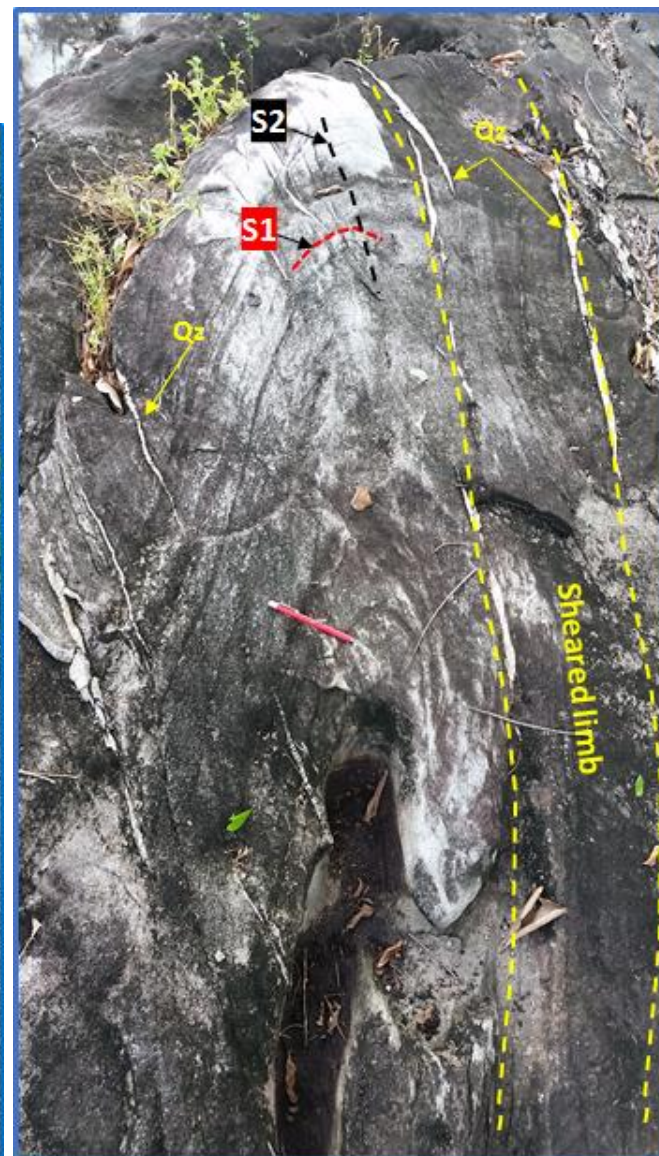
Regional Geology



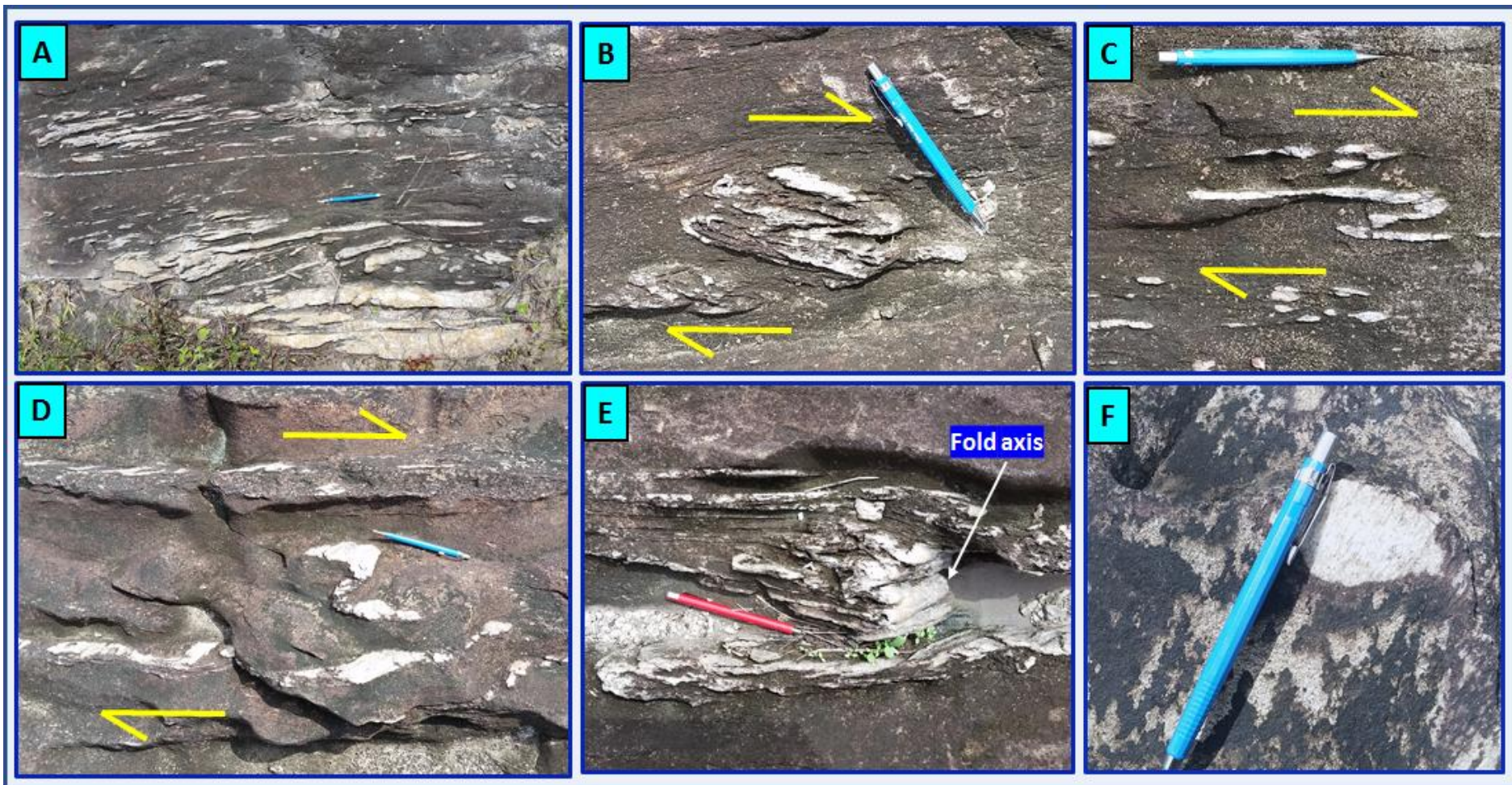
Airborne Magnetic Image



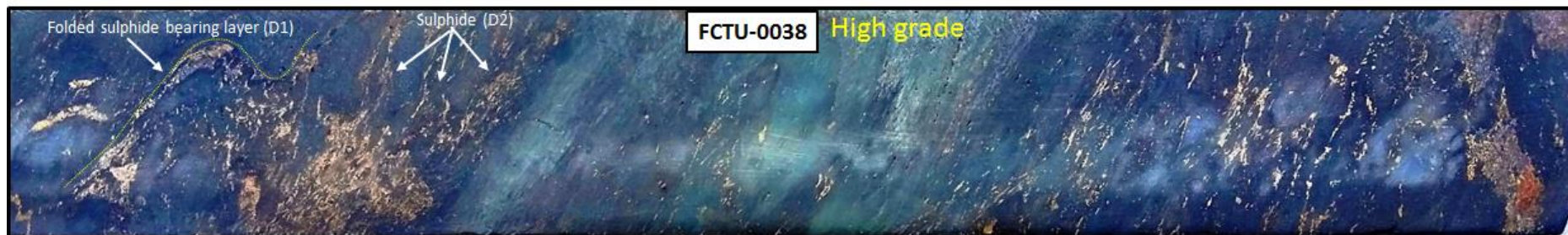
Structures



Structures



Structures



Cipoeiro – Mineral Resource Estimate

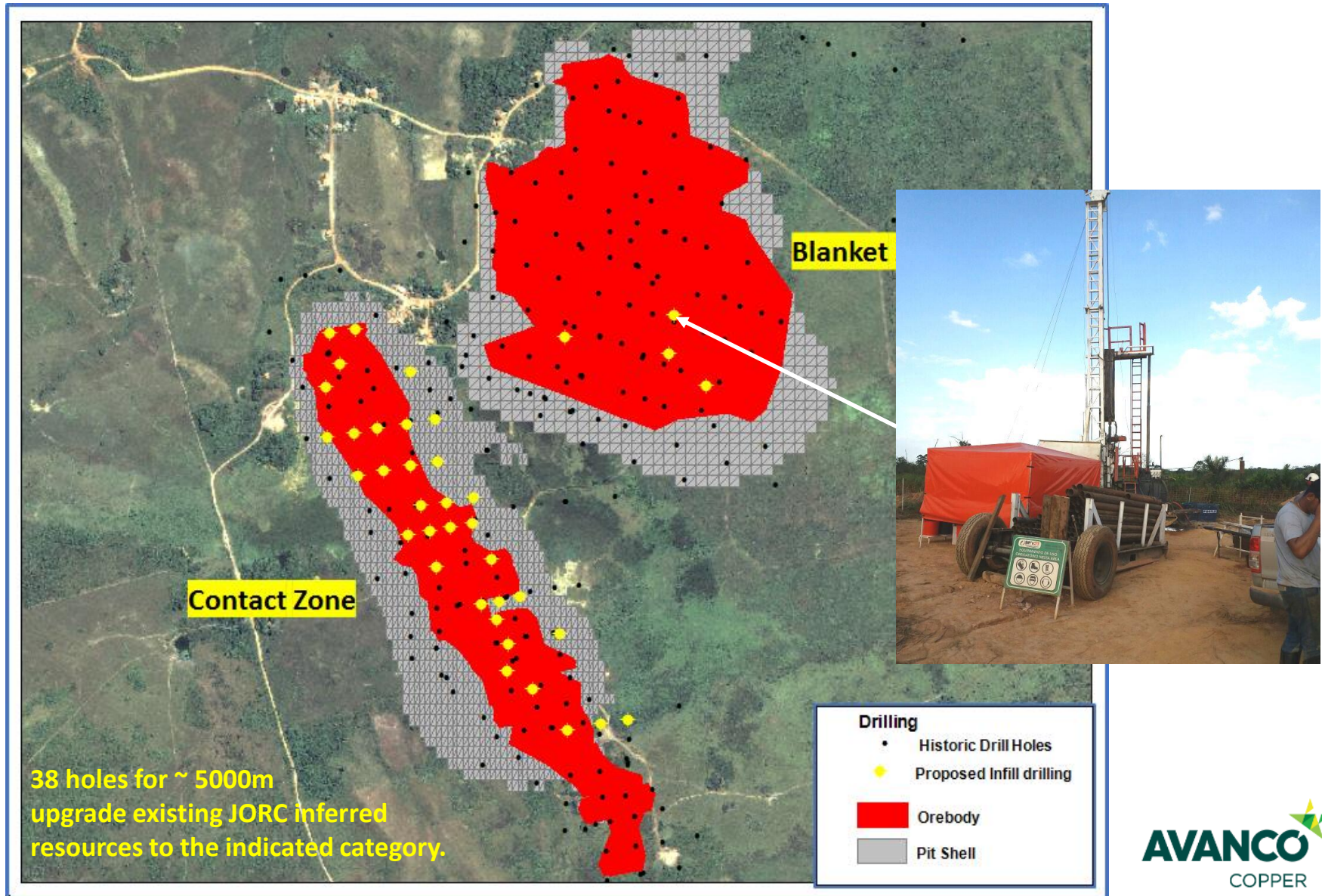
Blanket Zone April 2017 Mineral Resource Estimate. (1.0 g/t cut-off)

Type	Indicated		Inferred		Total		Total
	Tonnes t	Au g/t	Tonnes t	Au g/t	Tonnes t	Au g/t	Au Oz
Colluvium	7,000	1.5	50,000	1.7	57,000	1.7	3,000
Oxide	890,000	1.6	137,000	1.9	1,027,000	1.7	55,000
Transition	142,000	1.5	3,000	1.3	145,000	1.5	7,000
Fresh	9,797,000	1.7	1,168,000	2.3	10,965,000	1.8	628,000
Total	10,835,000	1.7	1,359,000	2.2	12,195,000	1.8	694,000

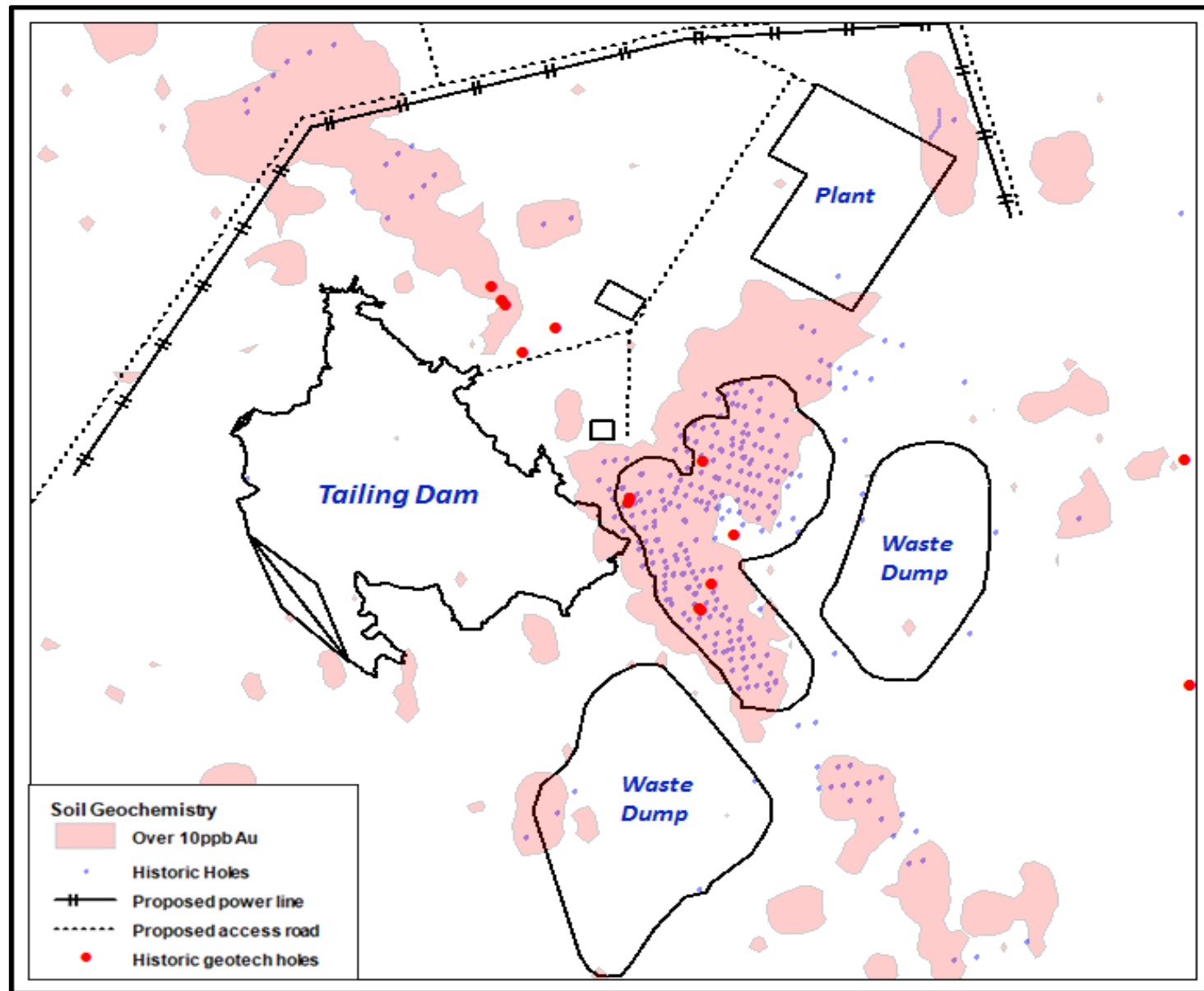
Contact Zone April 2017 Mineral Resource Estimate. (1.0 g/t cut-off)

Type	Indicated		Inferred		Total		Total
	Tonnes t	Au g/t	Tonnes t	Au g/t	Tonnes t	Au g/t	Au Oz
Colluvium	119,000	1.3	215,000	1.5	333,000	1.4	15,000
Oxide	230,000	1.9	212,000	1.7	443,000	1.8	26,000
Transition	35,000	1.6	20,000	3.1	55,000	2.1	4,000
Fresh	1,741,000	2.6	5,466,000	2.3	7,207,000	2.4	548,000
Total	2,124,000	2.5	5,913,000	2.2	8,038,000	2.3	592,000

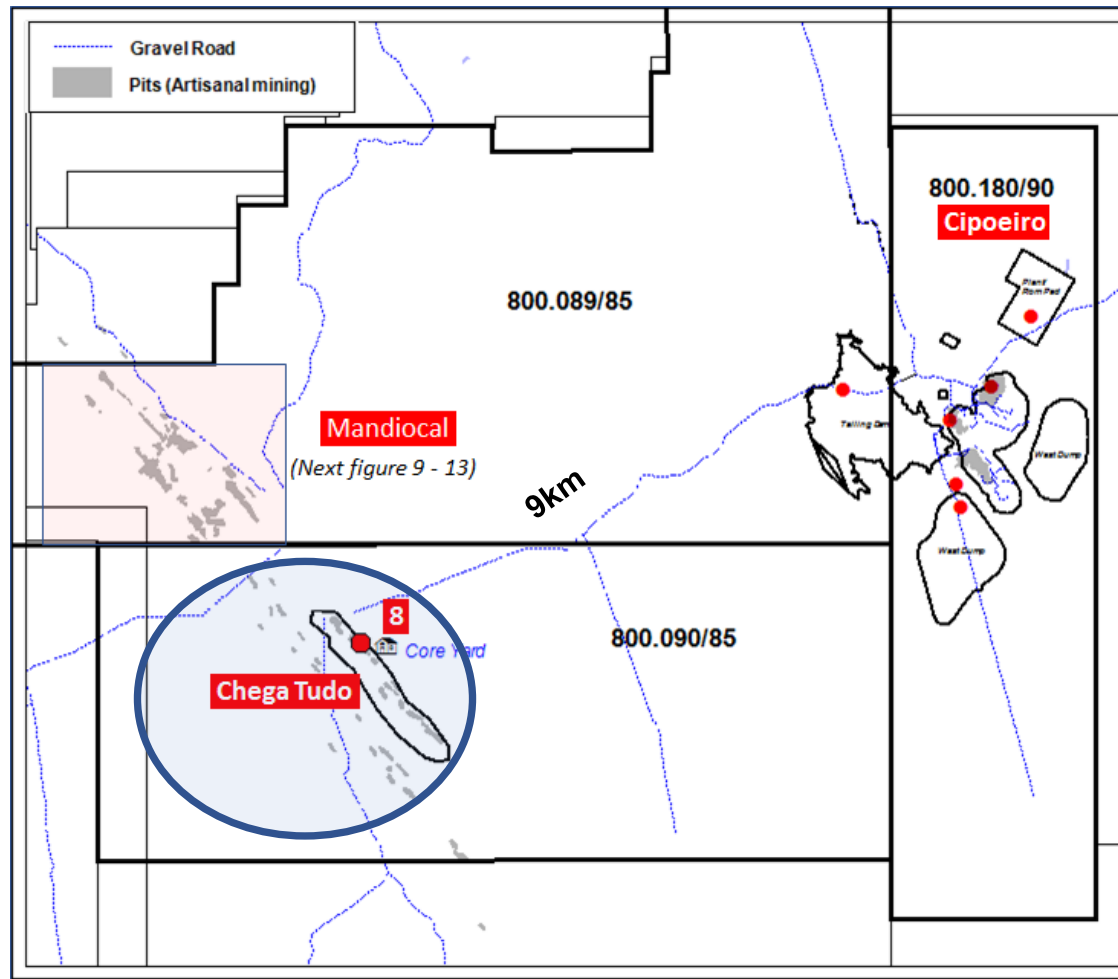
Cipoeiro – Infill Resource Drilling Programme



Mine Site layout



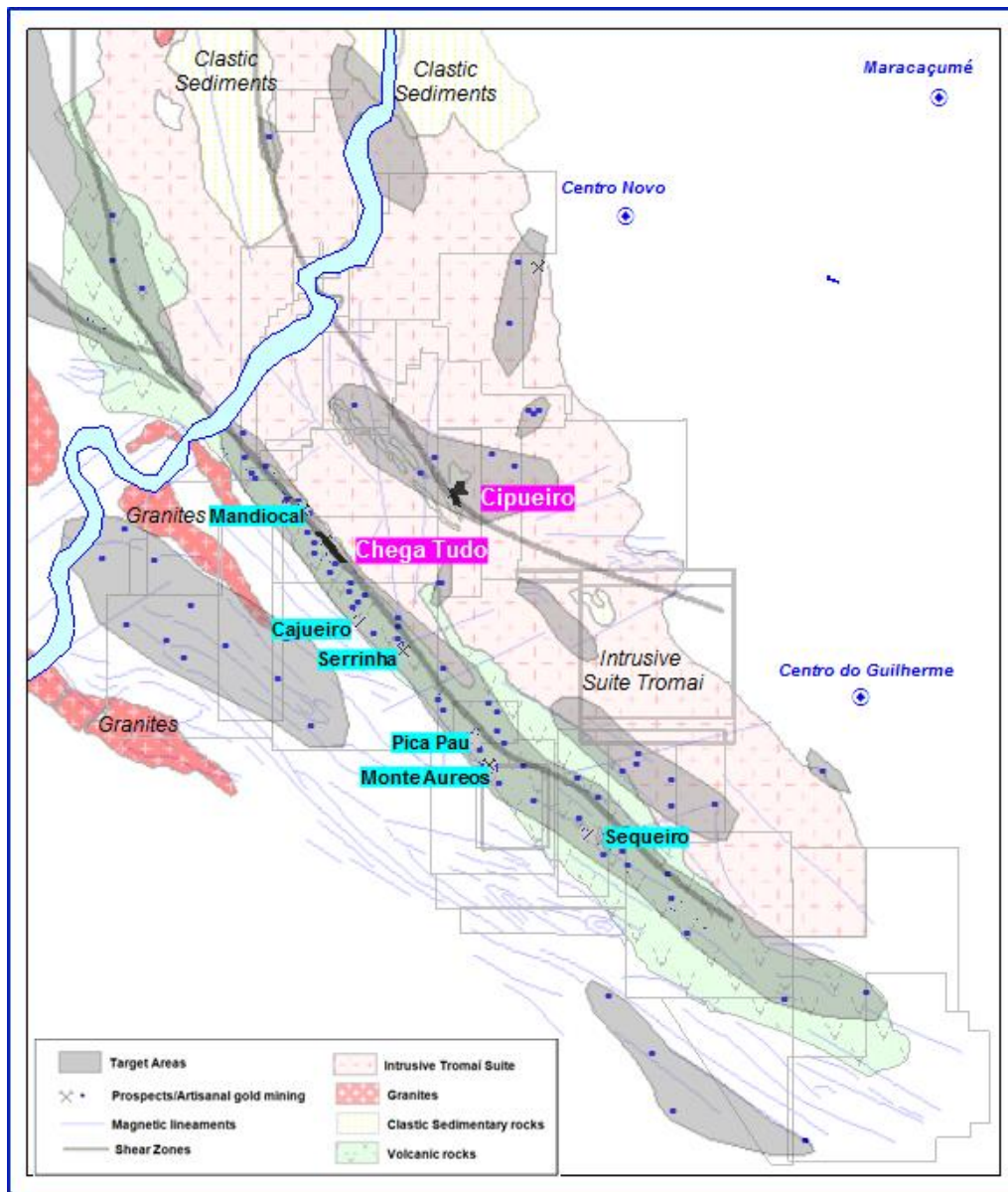
Chega Tudo Deposit



Foreign Estimate (CIM Code, reported under NI43-101): **~1Moz**

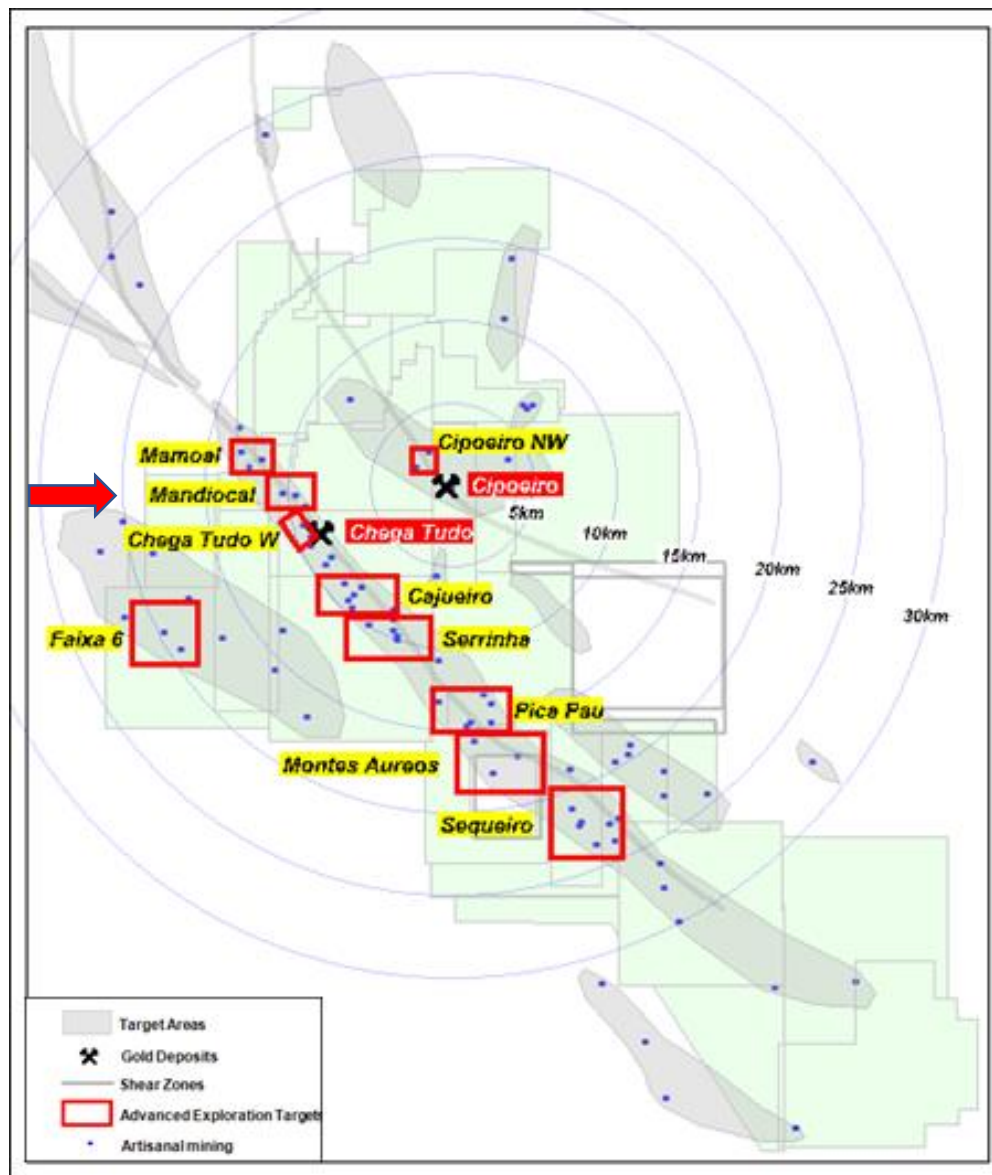
- Resource is coming in a couple of weeks
- Estimate on grade, using more realistic wireframes is ~1.4g/t.
- It takes the project to >2M ounces
- include CT in the Scoping Study

Exploration - Targets Areas



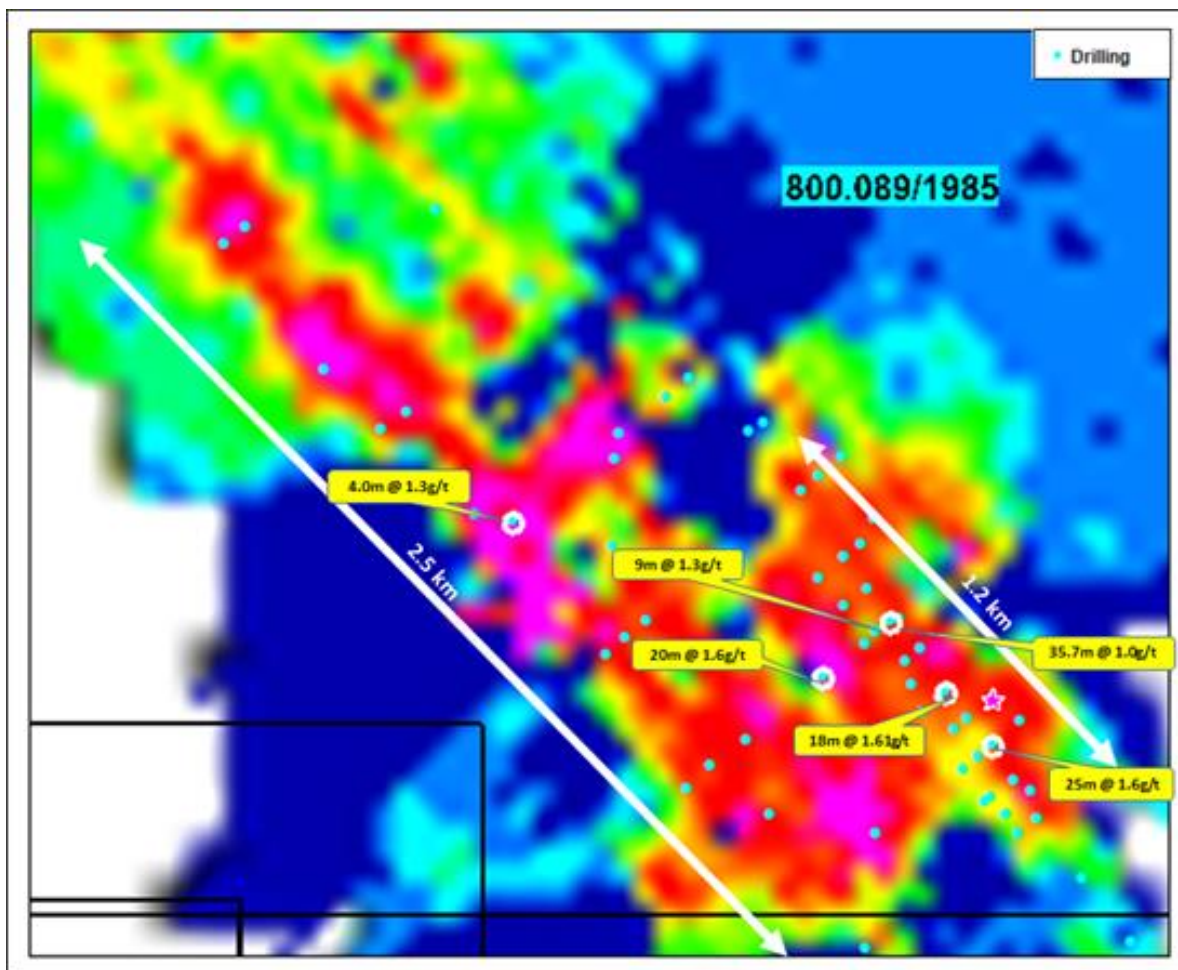
- Encompasses three main well-defined target trends characterized by a series of important artisanal mining workings and coincident with shear zones

Potential Targets



- 9 advanced gold targets on these trends within a maximum 25 km radius of the Cipoeiro Deposit
- Two with strong potential for a new discovery/resource in short term

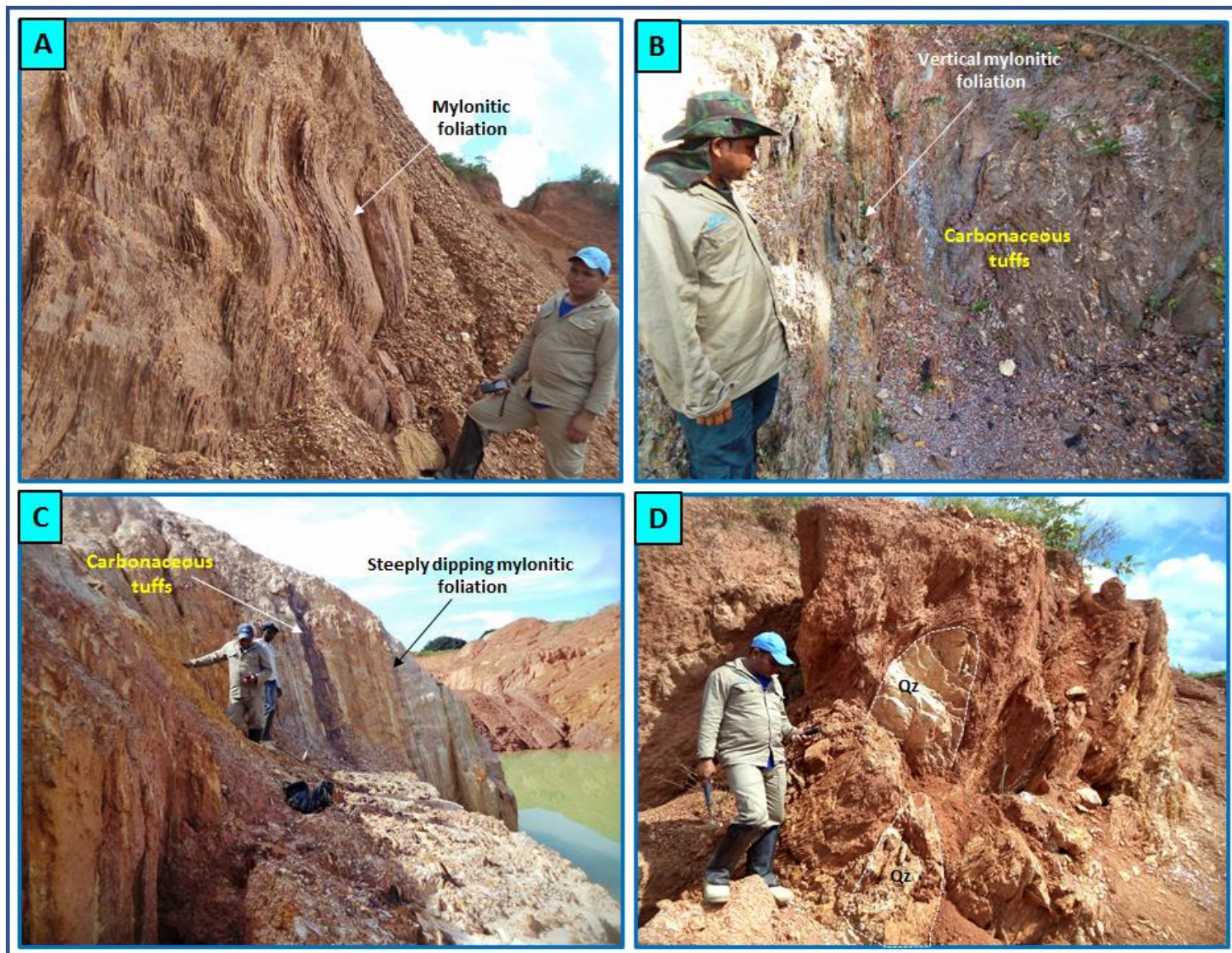
Priority Targets - Mandiocal



Mandiocal soil geochemical anomaly and selected historic drill results

- Exploration licence extended expiring on April 27, 2018, located immediately North of Chega Tudo Deposit
- Two closely spaced NW-striking parallel gold anomalies (+100 ppb); 2.5 km long by 300m wide (in the West) and 1.2 km long by 300m wide (in the East).
- Significant intersection in historic drilling
- High grade gold from individual core samples ranged from 5.14 g/t Au to 31.4g/t Au.

Mandiocal



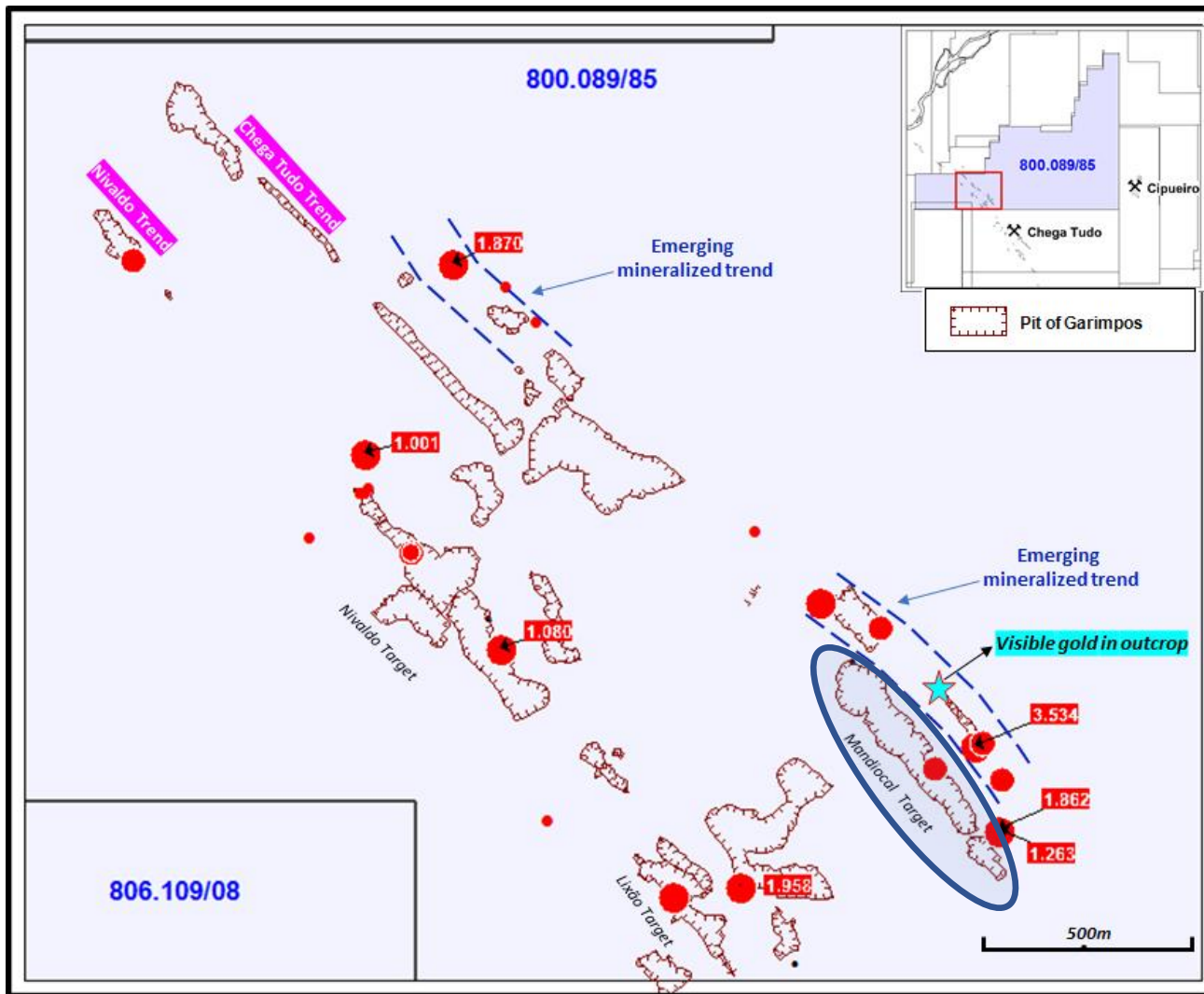
Madiocal



Shallow-dipping extensional veins associated
with a dextral shear zone.

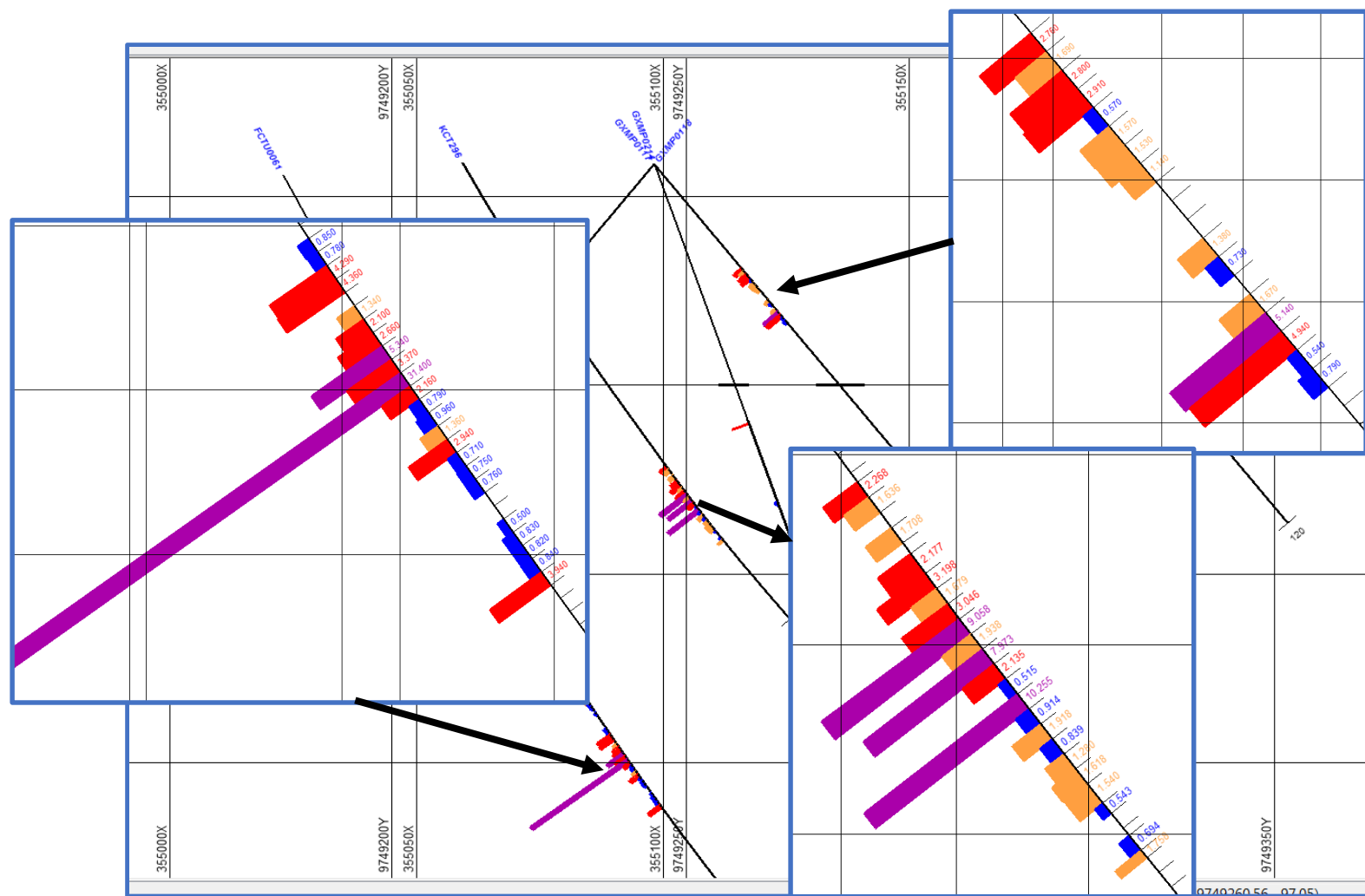


Mandiocal

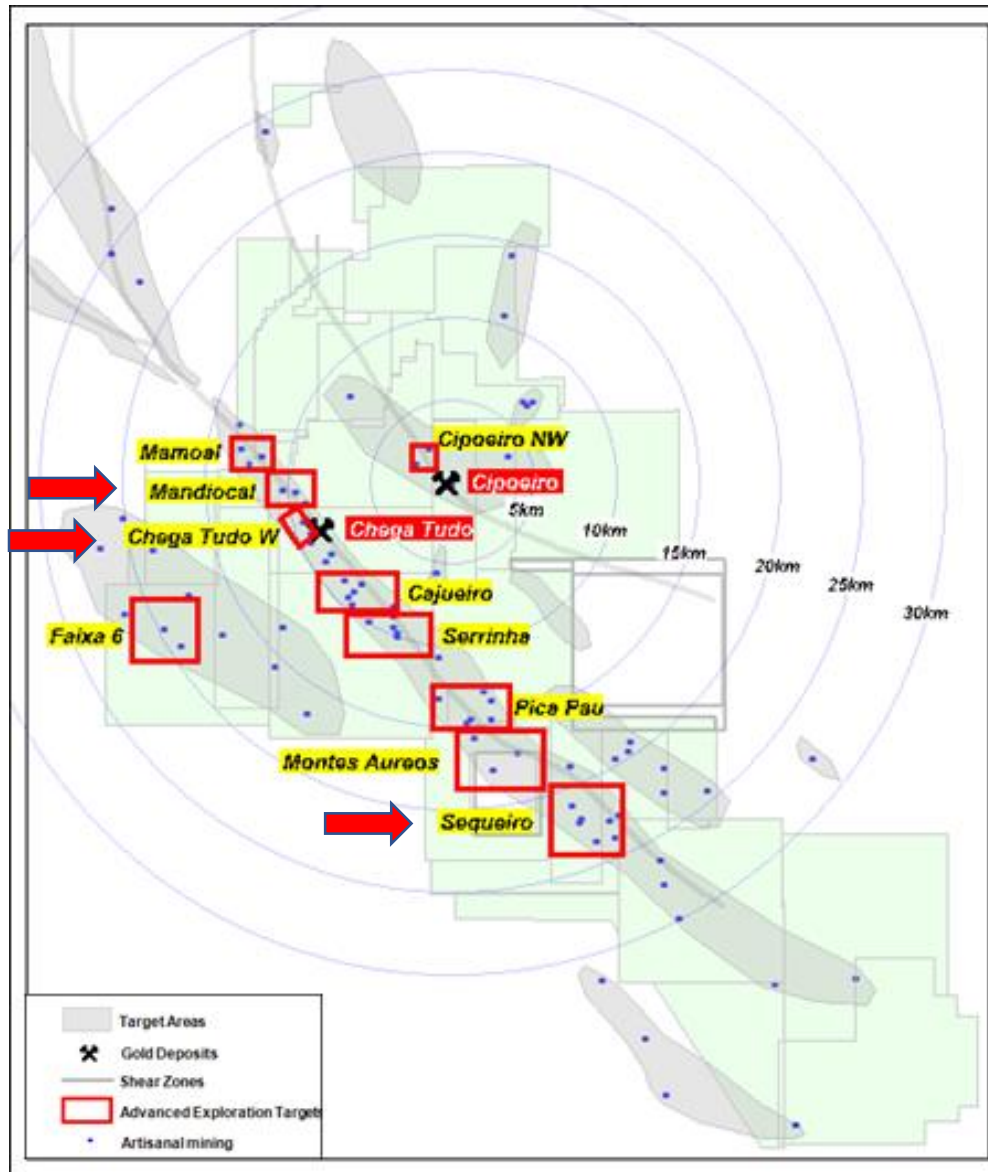


- New targets could emerge with the follow up
- Potential - 150-300k oz
- 1.4km along NW extension of Chega Tudo Deposit

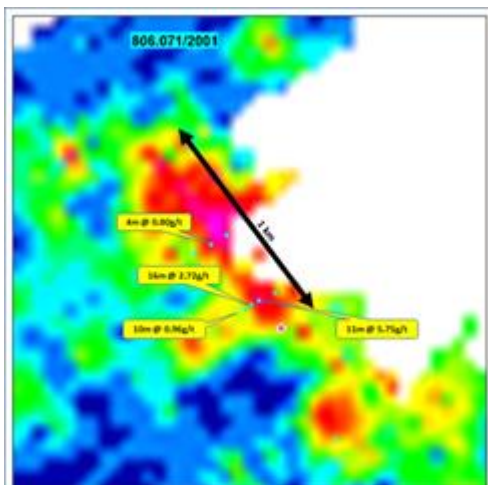
Mandiocal



Potential Targets



Sequeiro Target

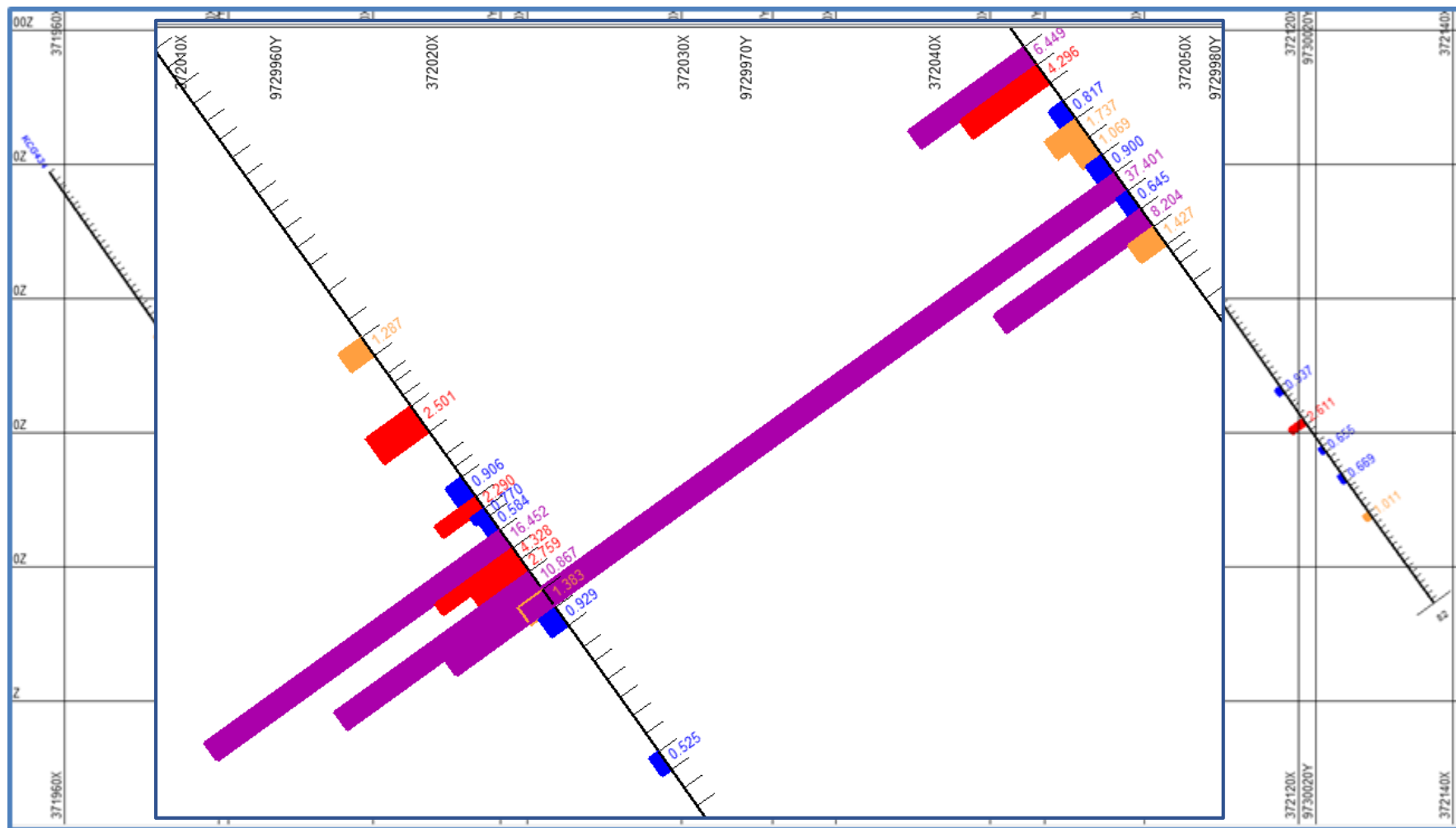


Sequeiro soil geochemical anomaly and selected historic drill results.



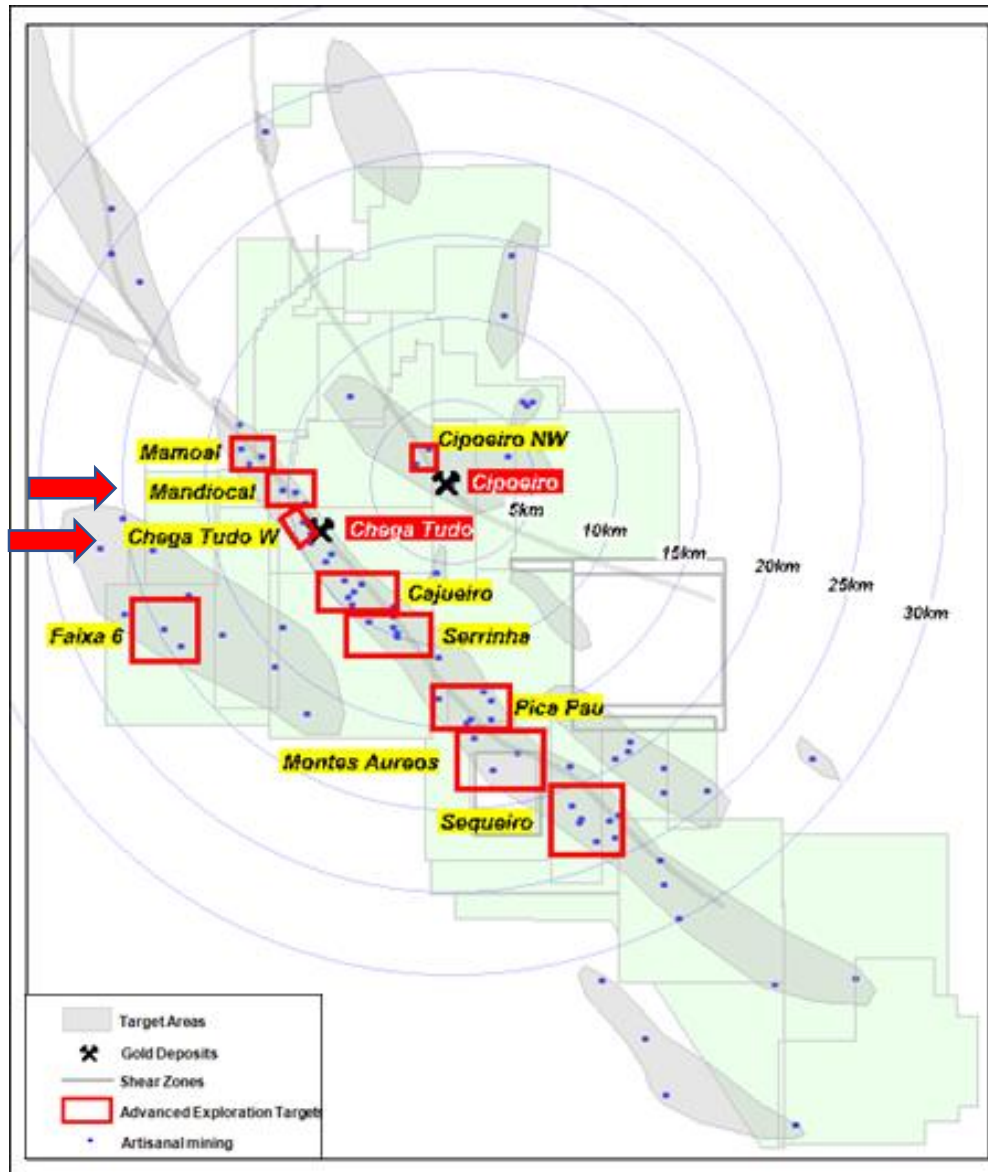
- Licence 806.071/2001 is a license extension requested
- Potential for high grade gold mineralisation.
- Significant intersection such as 11m @ 5.75g/t Au and 16m @ 2.72g/t Au
- 9 holes for 800.2m completed

Sequeiro Target

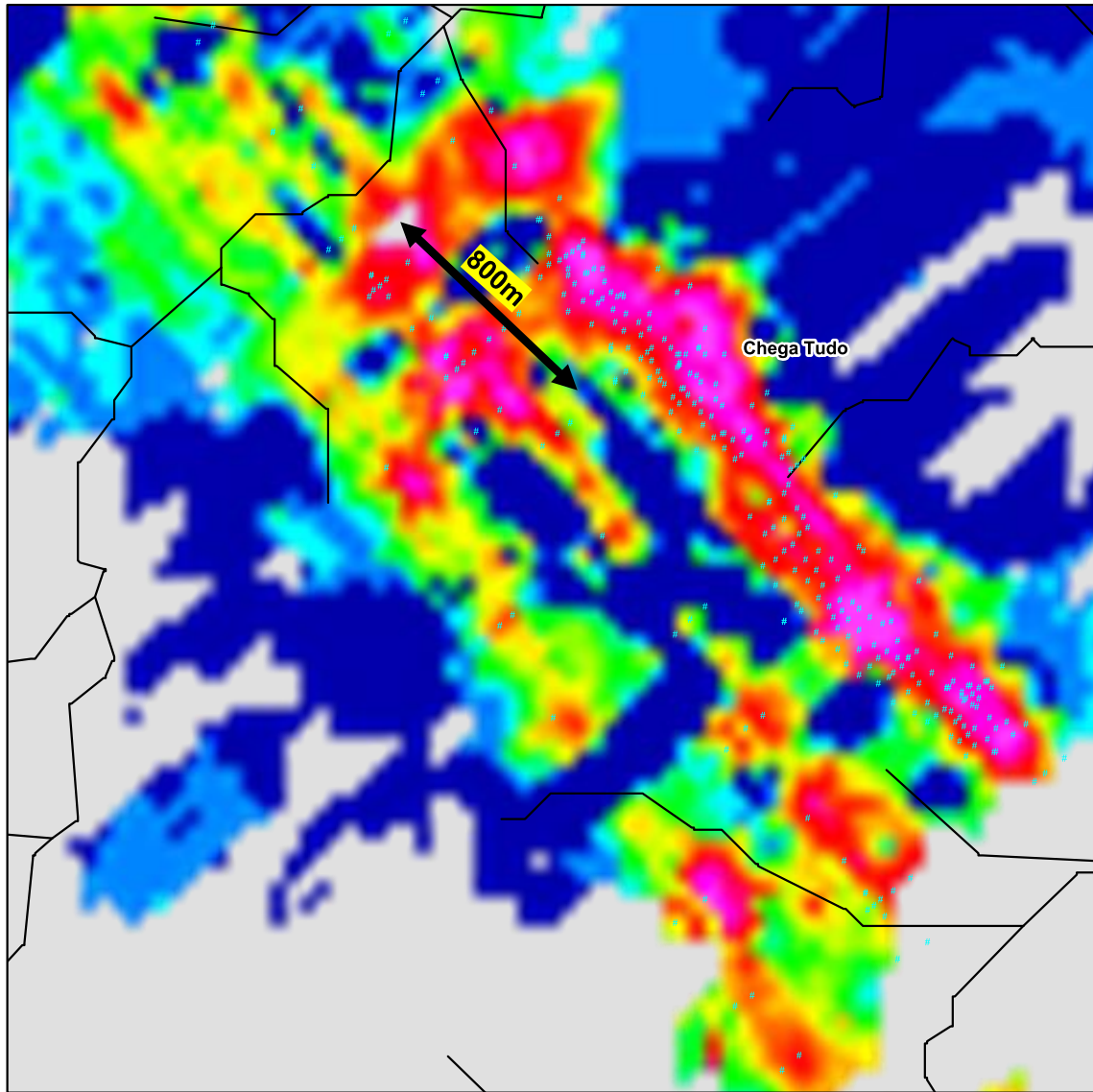


The map displays geological data for the KCG437 area. A blue line indicates the 'Previous drill section'. Geological units are labeled with codes such as KCG437, KCG438, and KCG439. The map includes a coordinate grid with X-axis labels 7100, 7200, 7300, and 7400. Topographic features like hills and rivers are also shown.

Potential Targets

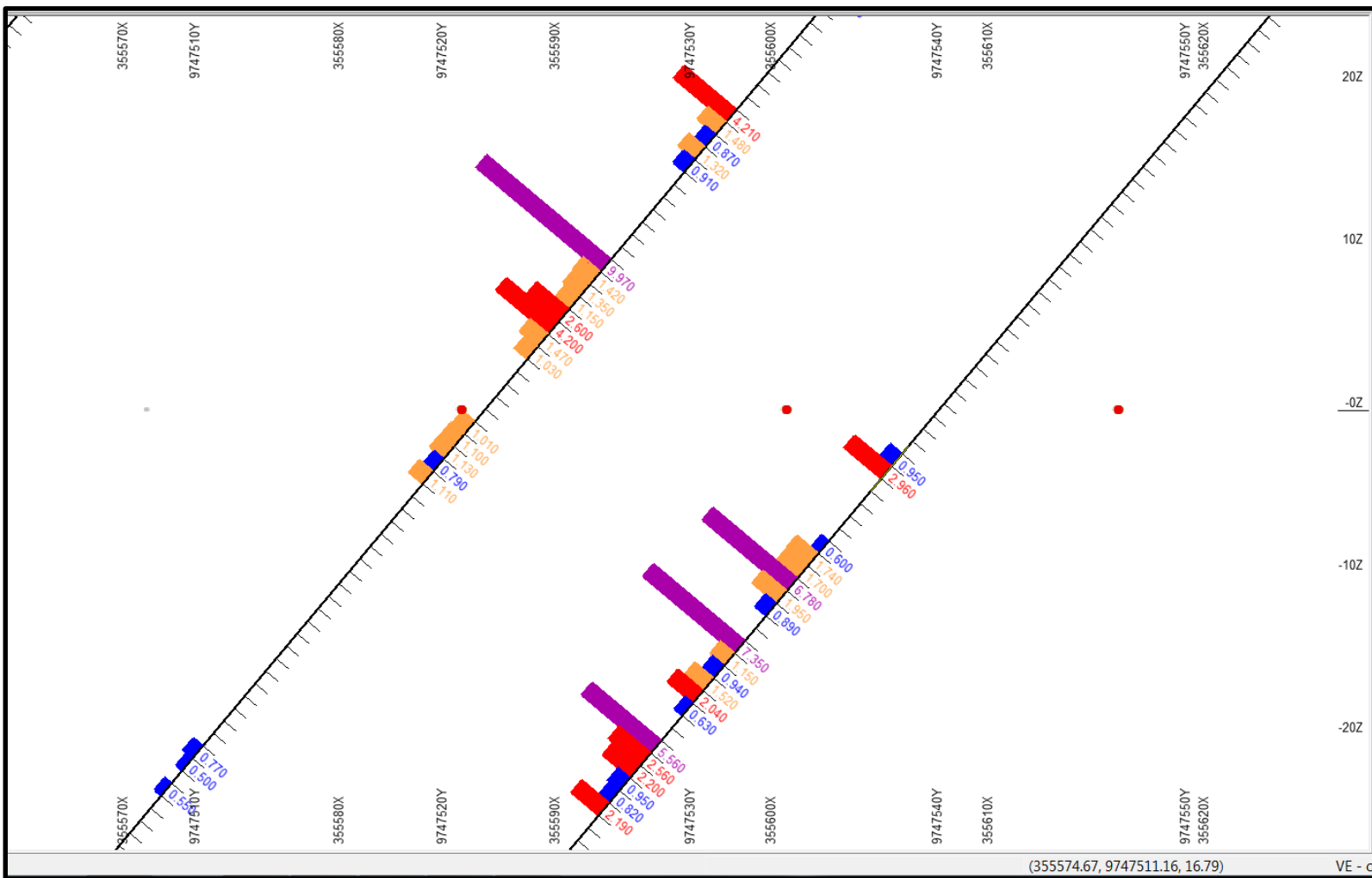


Chega Tudo W

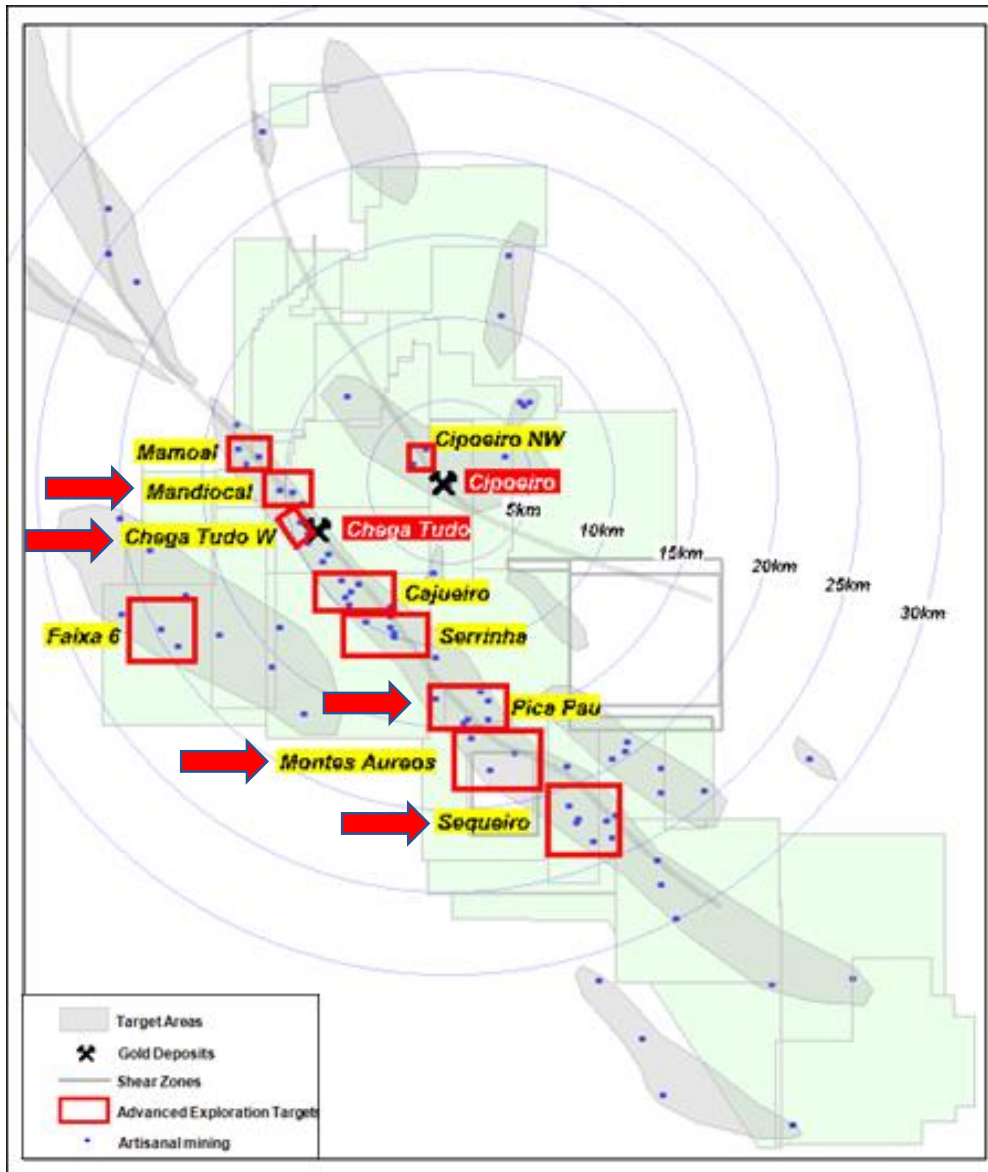


- NW-striking gold anomaly (+100 ppb) parallel to Chega Tudo trend; 0.8 km long by 300m wide
- Significant intersection in historic drilling

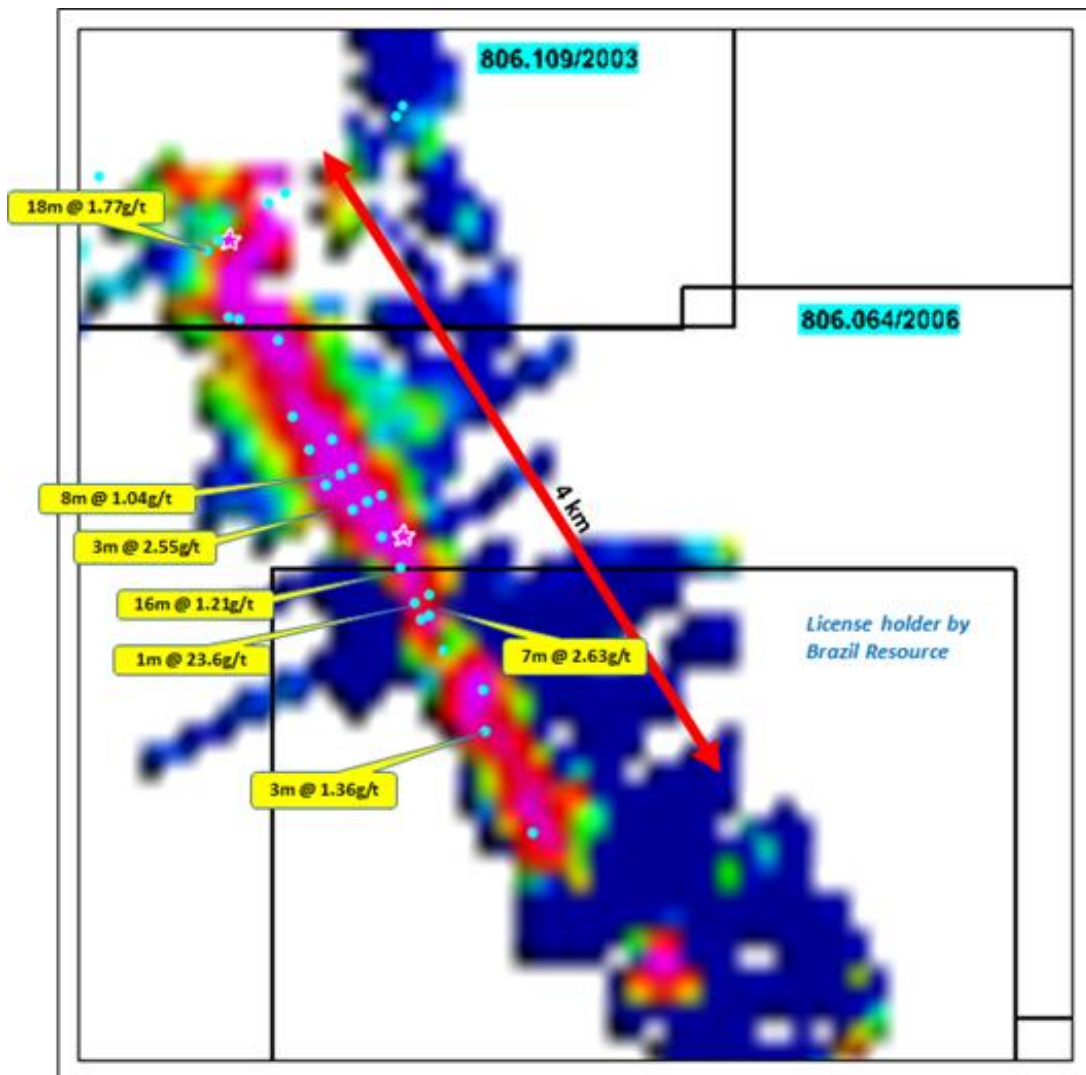
Chega Tudo W



Potential Targets



Montes Aureos – Pica Pau Target



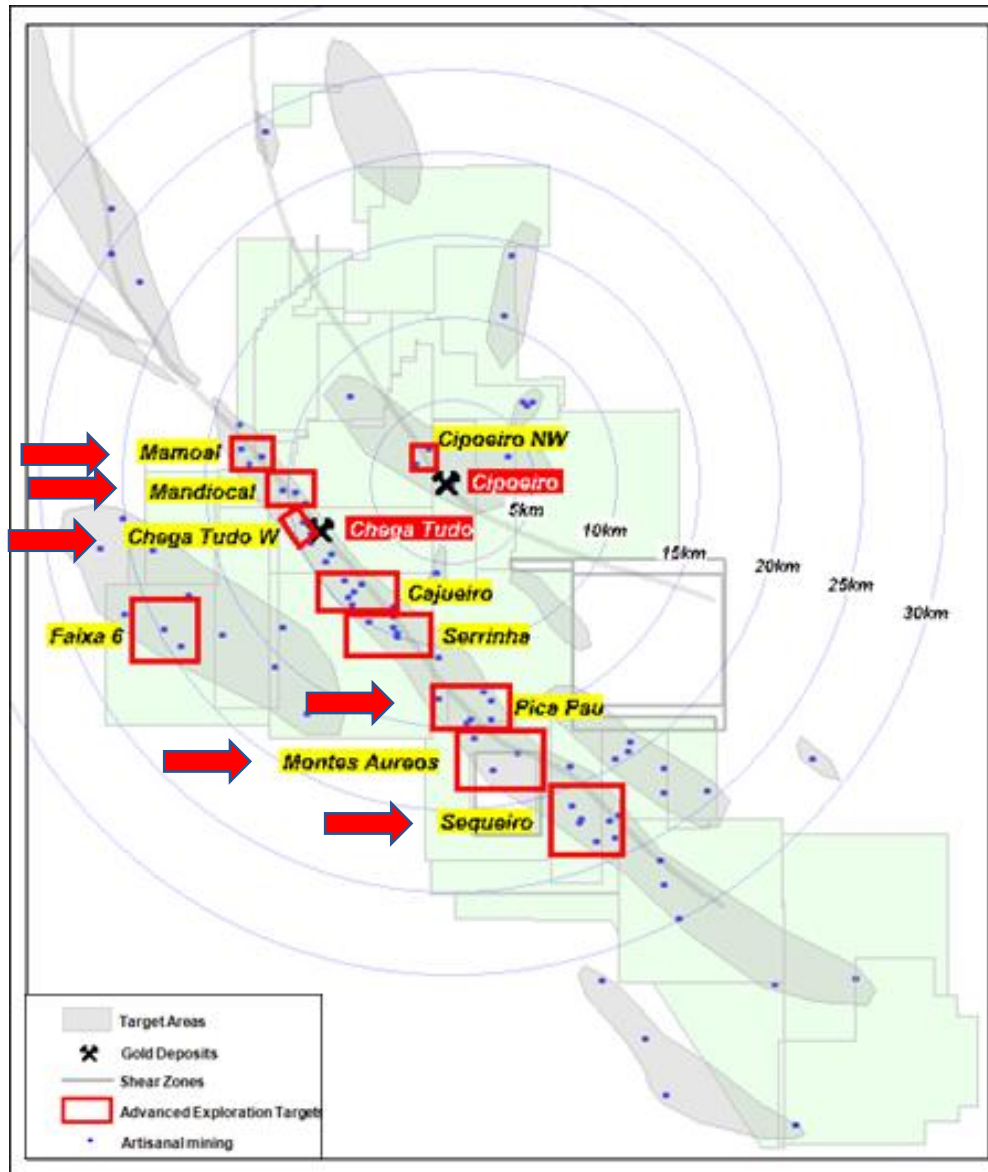
- Covers two exploration licence.
- License in the south is owned by Brazil Resource
- The most significant gold-in soil anomaly of the project (+ 100ppb)
- 4km long by x 0.3km wide, NW-striking gold anomaly (+ 100 ppb)
- High grade gold from individual core samples such as 25g/t Au (hole MAMD1), 10.15g/t Au, 25g/t Au (hole MAMD6) and 9.4g/t Au (hole GRUD0200).

Montes Aureos Target

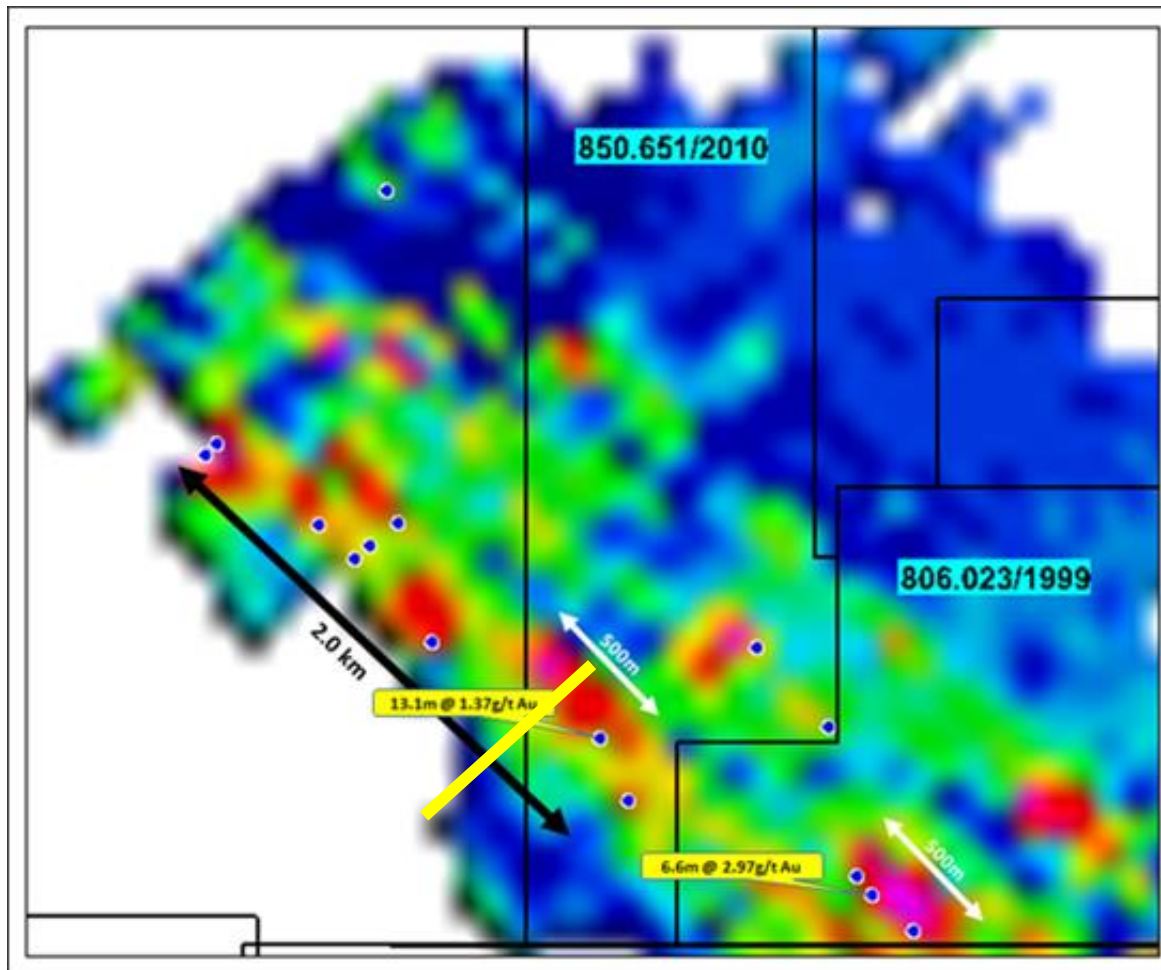


View of Montes Aureos pit. Note the excavator on the left for scale (circled). Dark material is carbonaceous zones

Potential Targets



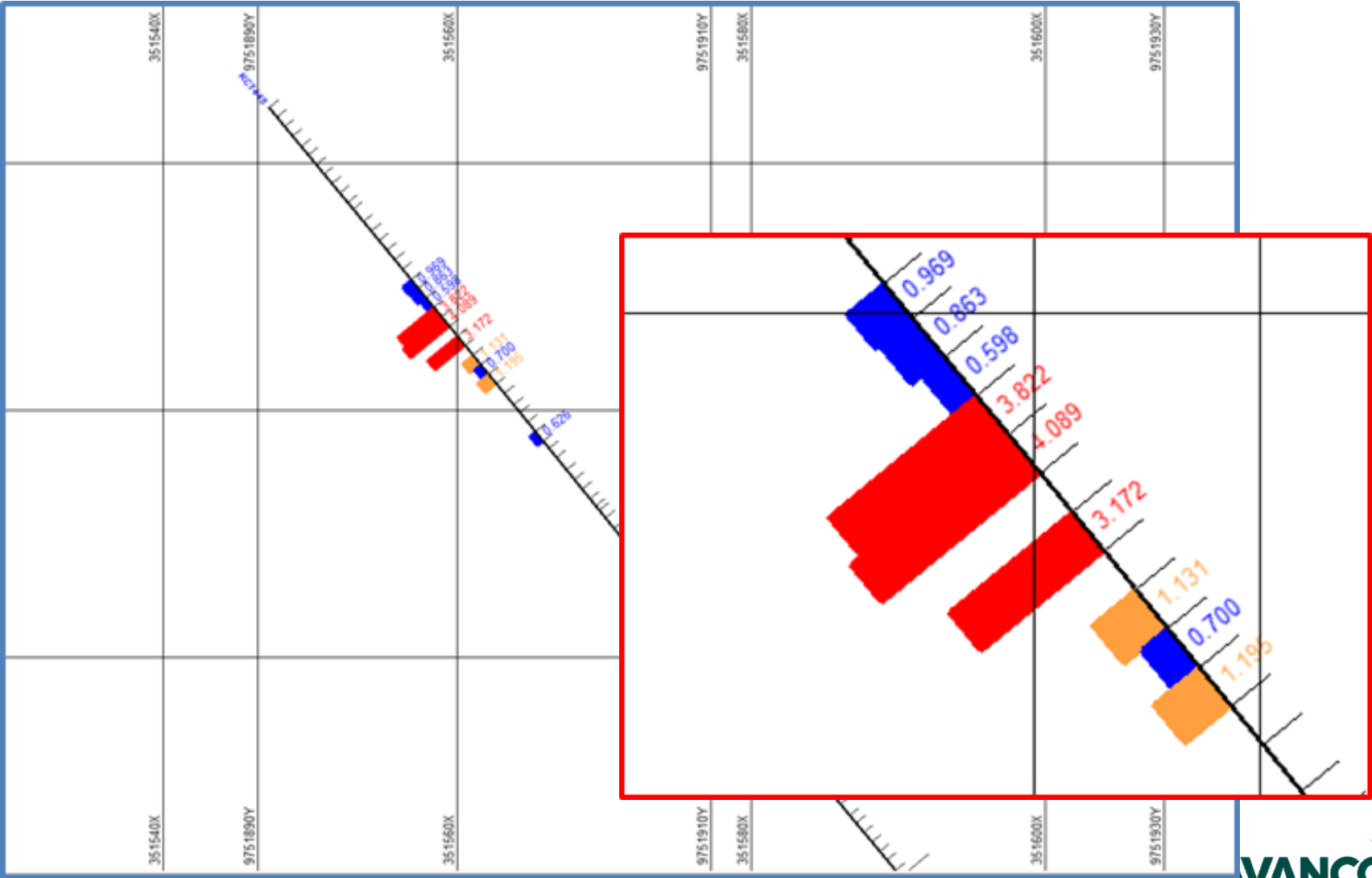
Mamoal Target



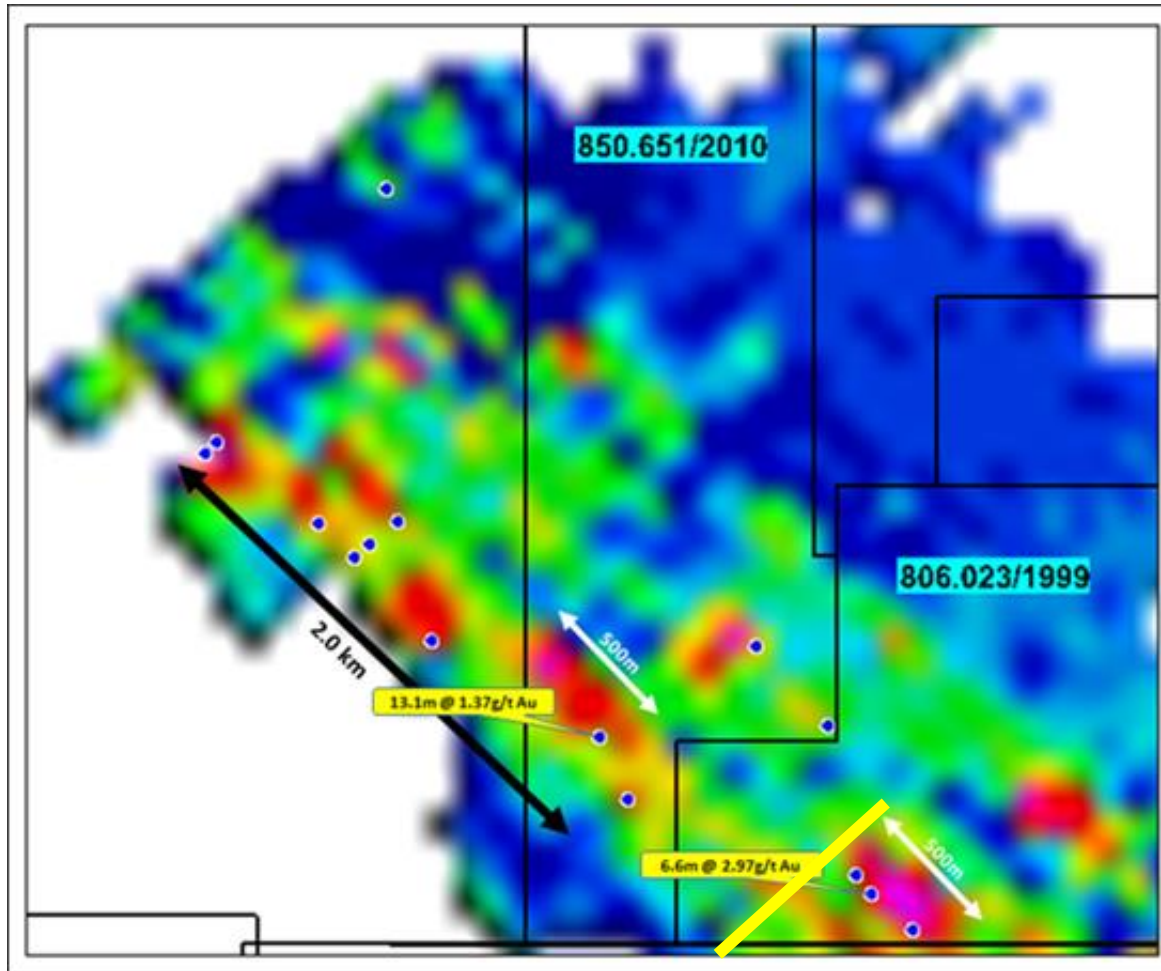
- Covers two licence.
- 7 holes drilled with significant intersection

Mamoal soil geochemical anomaly and selected historic drill results.

Mamoal Target

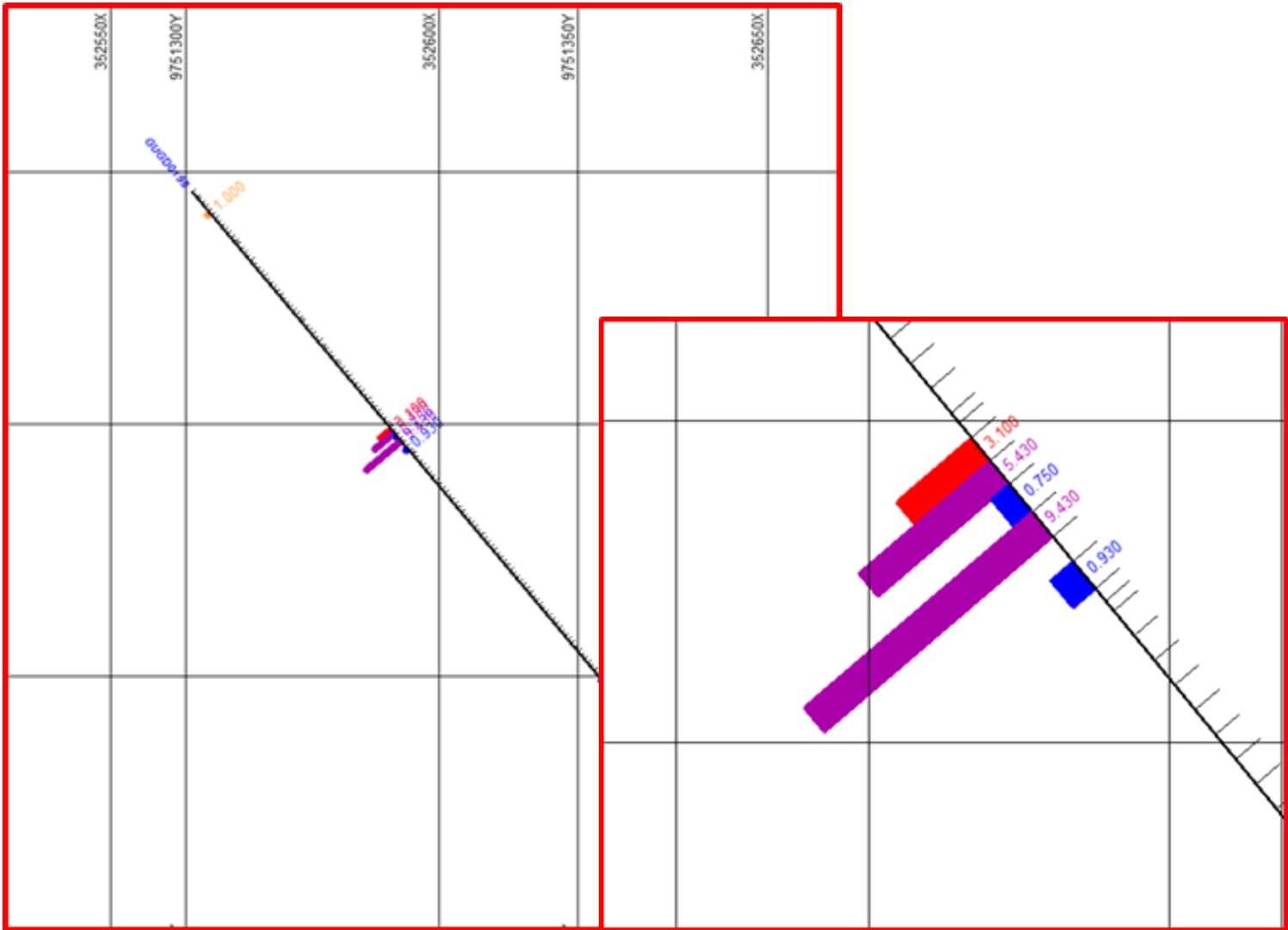


Mamoal Target

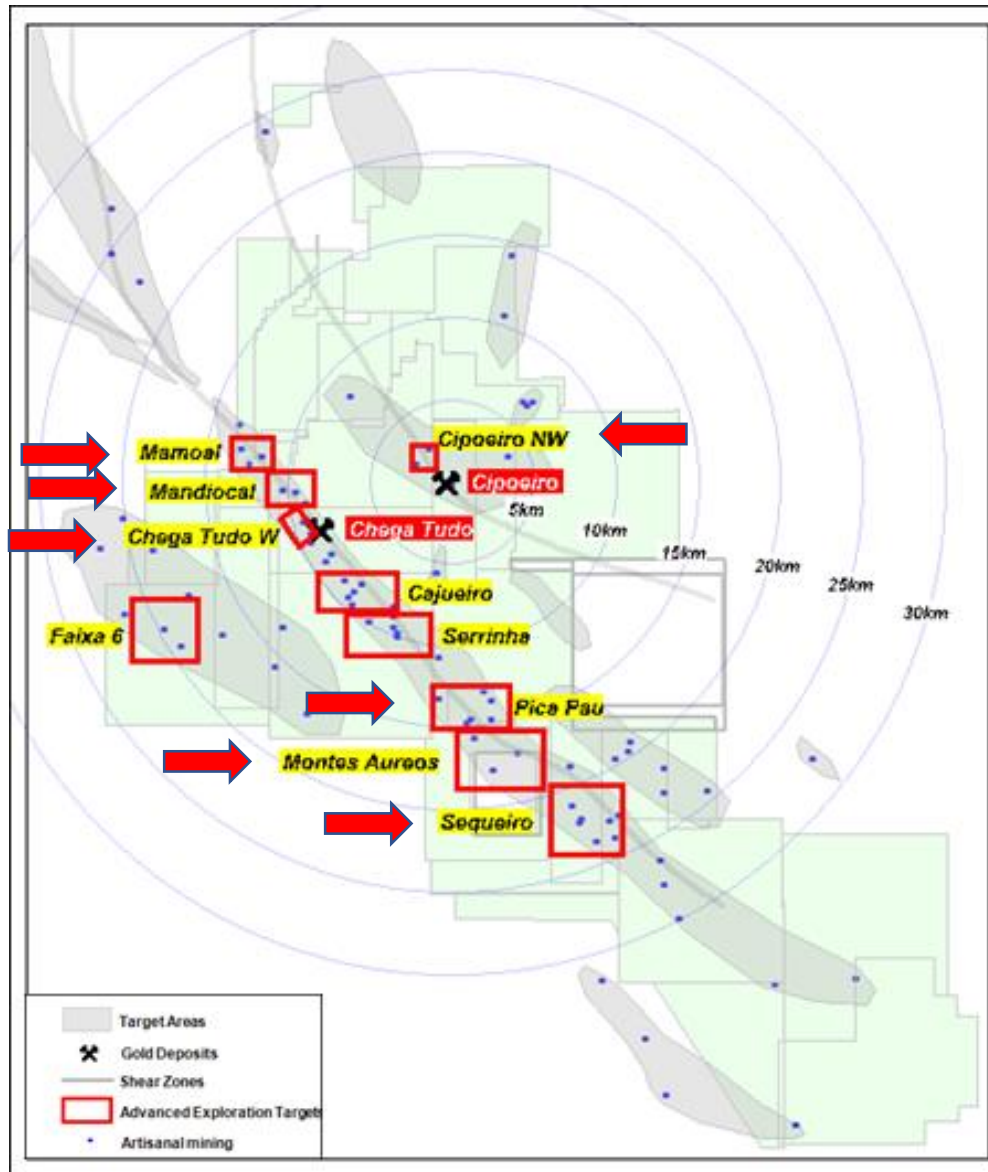


Mamoal soil geochemical anomaly and selected historic drill results.

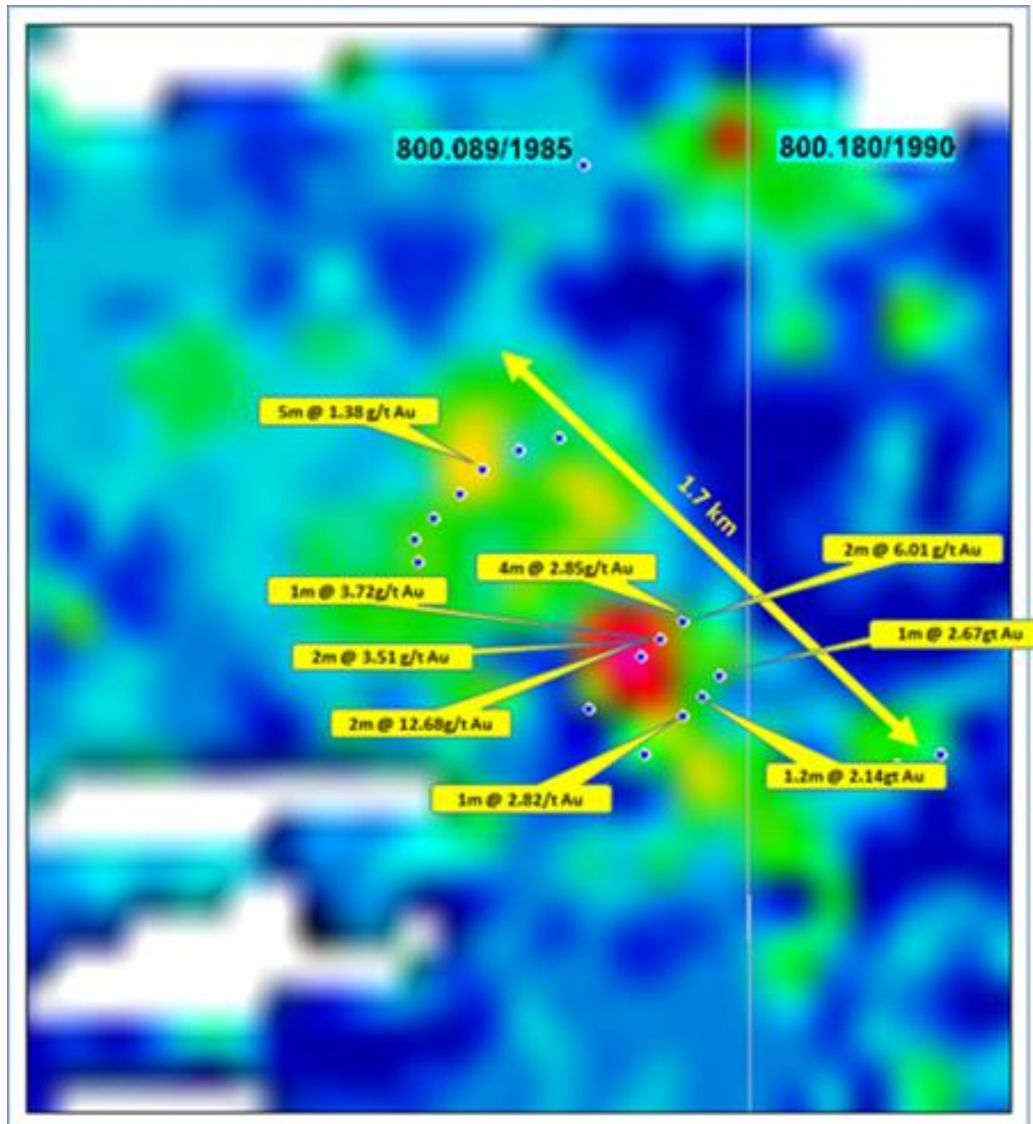
Mamoal Target



Potential Targets



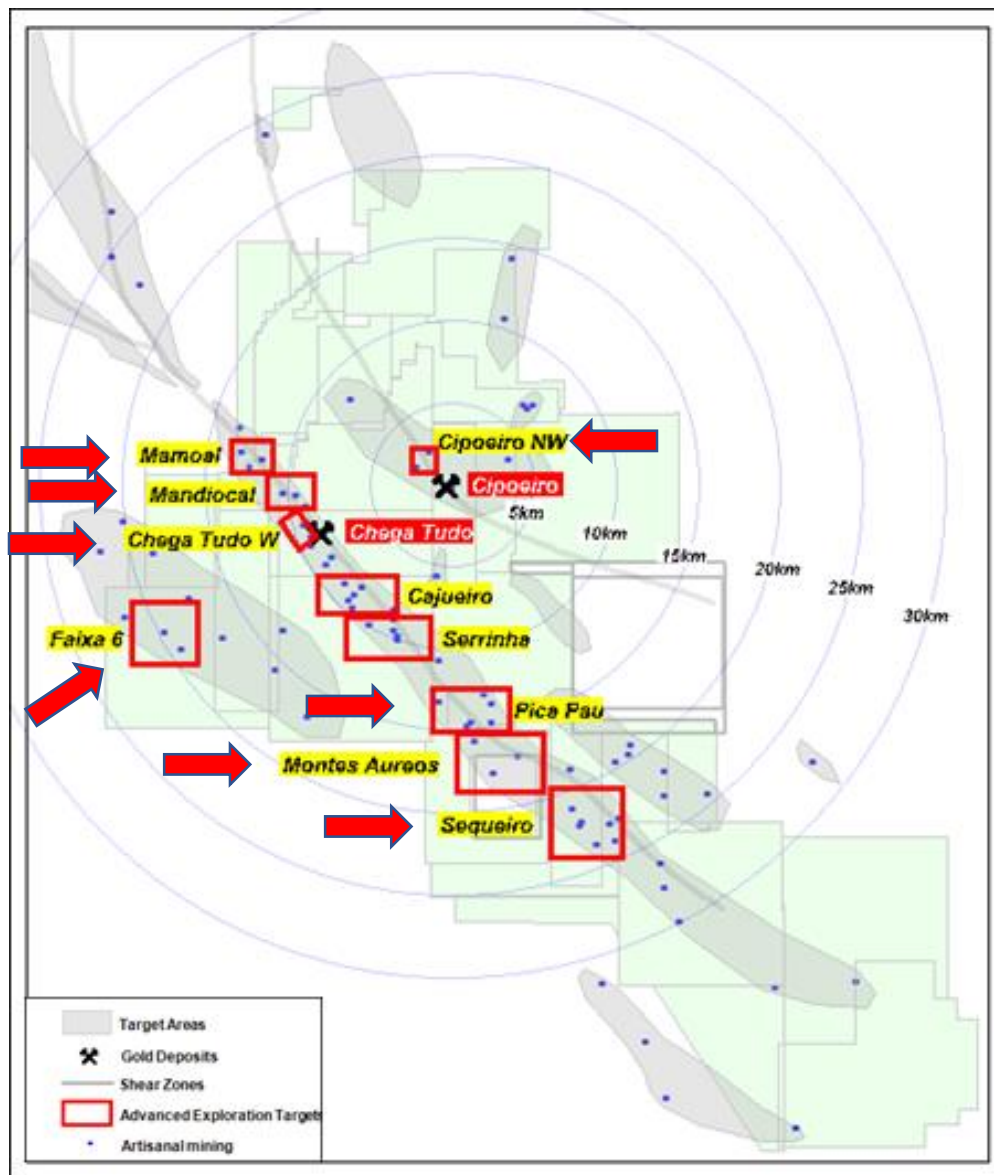
Cipoeiro NW Target



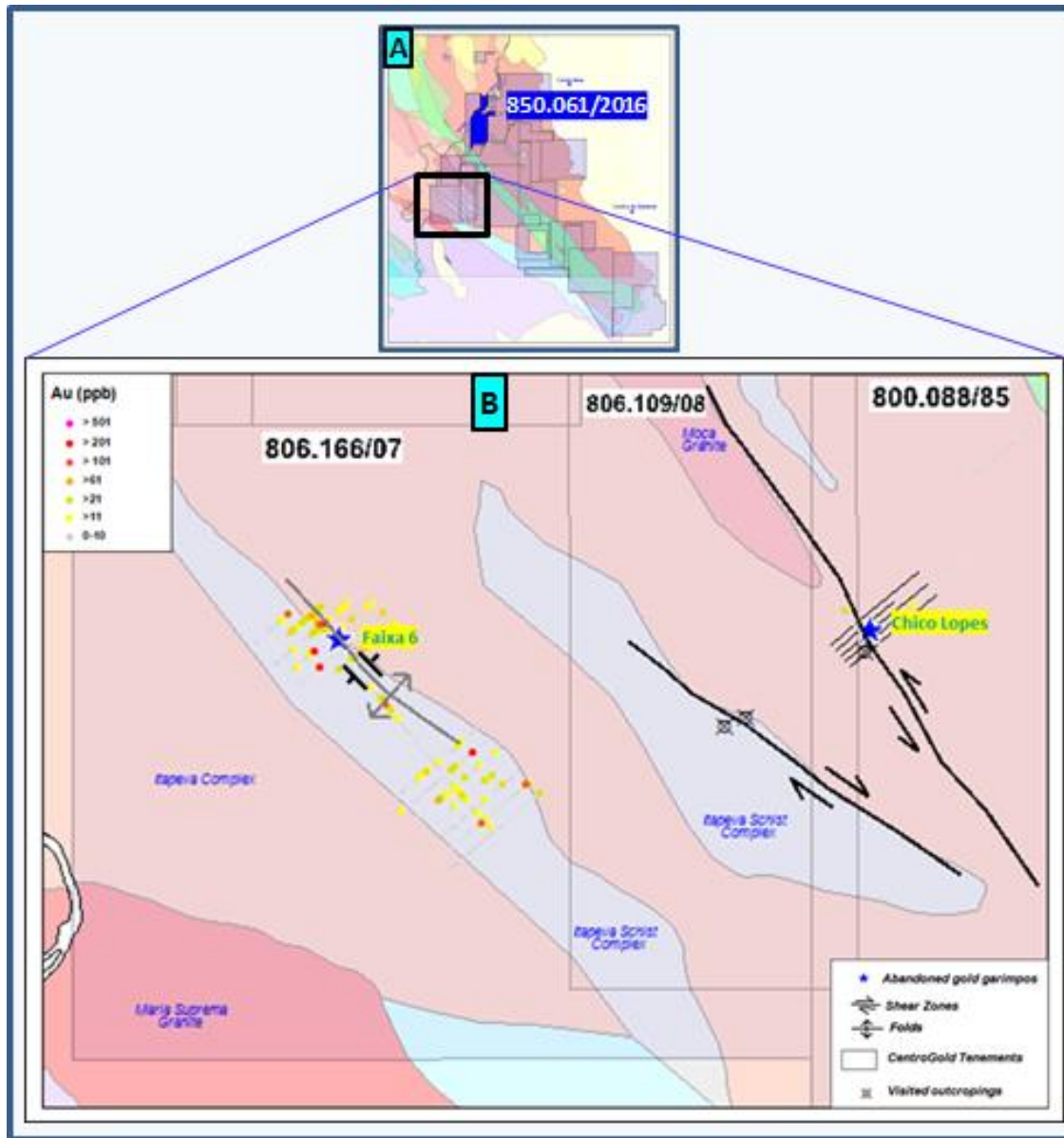
Cipoeiro NW soil geochemical anomaly and selected historic drill results.

- Covers two licences. Same license as Mandiocal and another one is a Exploitation application (Cipoeiro).
- Holes drilled with significant intersection

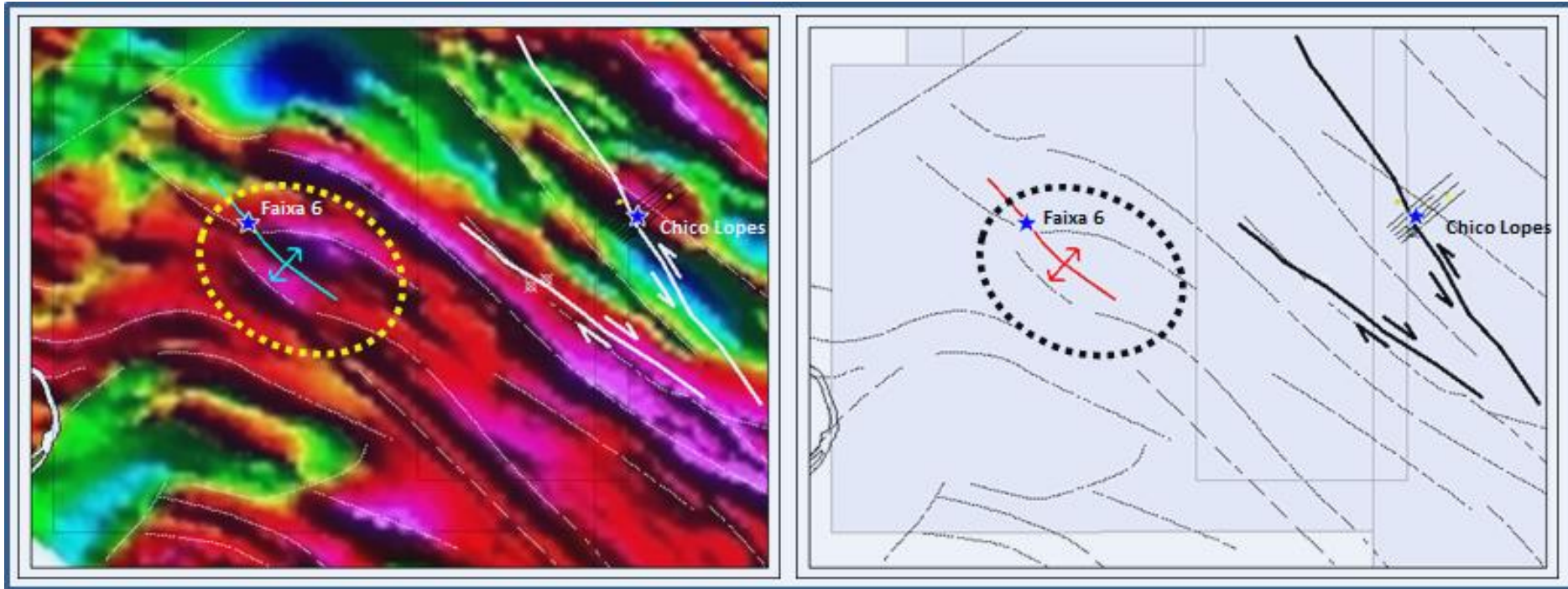
Potential Targets



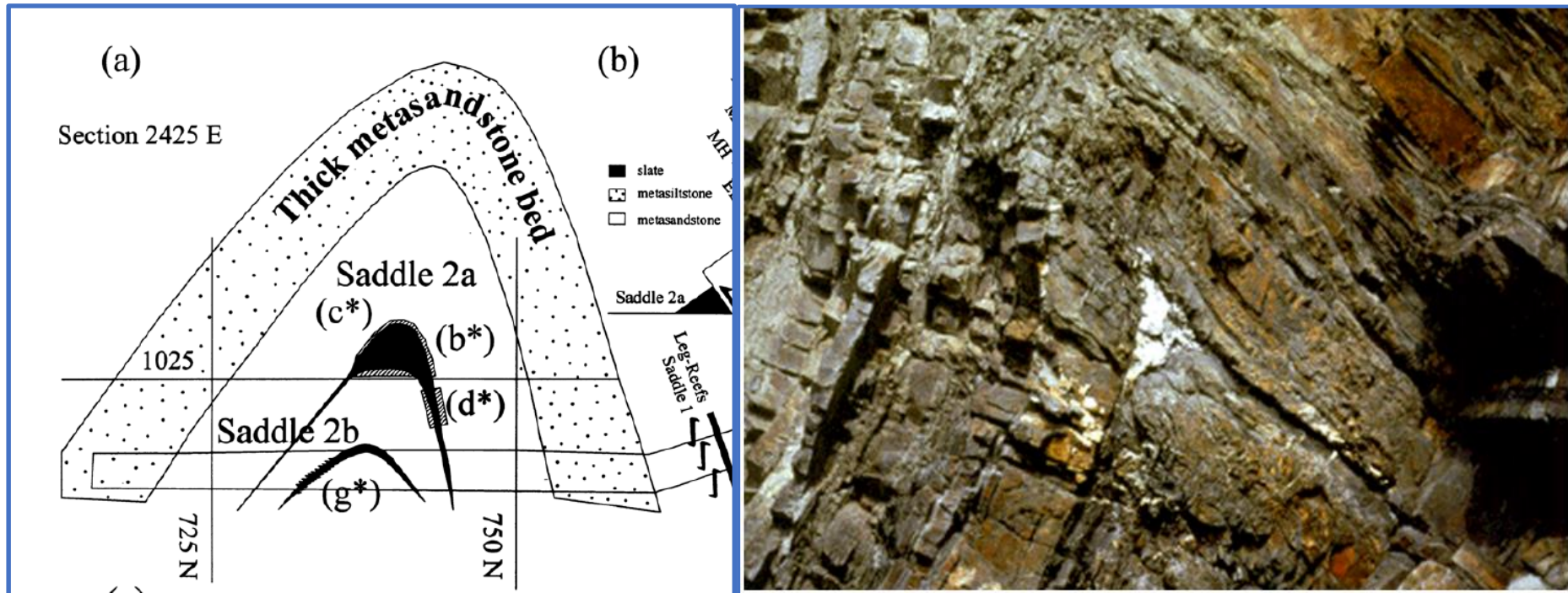
Faixa 6 Target



Faixa 6 Target



Faixa 6 Target



Faixa 6 Target



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Thanks

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