

# UNLOCKING A WORLD CLASS GOLD DEPOSIT REGION

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The information in this report relates to Exploration results for Juma East. and is based on information complied by Mr. Antonio de Castro who is a Member of the Australasian Institute of Mining and Metallurgy. BBX's Consulting Geologist Mr. Castro has sufficient experience which is relevant to the style of mineralization and the type of deposit under consideration and to the activity which he is undertaking to qualify as a competent person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Castro consents to the inclusion in the report of the matters based on his information. BBX is not aware of any new information or data that materially affects the information relating to exploration results at Juma East included in the relevant market announcements dated 20/1/2014, 7/3/2014 and 12/3/2014.

The information in this announcement relates to exploration results announced on 29/11/2013 for Eldorado do Juma. This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported, and is based on information compiled by BBX Minerals Director Mr Michael Schmulian, who is a Fellow of The Australasian Institute of Mining and Metallurgy (F.AuslMM). Mr Schmulian has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Schmulian consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



- Explorer and developer of two high quality gold projects
- Focus on Brazil
- First mover in a potential world class gold deposit region.
- Potential near term cash flow
- Making a positive impact on communities and environment



## **BBX DIRECTORS & MANAGEMENT**



# THE BBX BOARD AND MANAGEMENT TEAM HAVE CONSIDERABLE IN COUNTRY EXPERIENCE IN SUCCESSFULLY ACQUIRING AND DEVELOPING PROJECTS IN SOUTH AMERICA

#### Mike Schmulian Chairman – Brazil

Mike has over 35 years experience as a geologist and has been based in Brazil and South America for 21 years. Mike was Country Manager for WMC and Exploration Manager for AngloGold Ashanti in Brazil and has been involved in the development of several gold projects. Mike is based in Rio and is fluent in Portuguese.

# William Dix Non-Executive Director

Will is a geologist with 18 years experience in base metal, uranium and gold exploration and mining. He holds a Bsc and Msc (Geology) from Monash University and is a member of AusIMM. Will has a proven track record of successful project and team management and also has extensive experience in commercial activities including capital raisings, mergers, acquisitions and divestments

# Alastair Smith Non-Executive Director

Mr Smith is director of Blackwood Equities (NSW) Pty Ltd a Sydney based boutique equity Capital markets and brokerage firm. For 8 years prior to joining Blackwood's, Mr Smith worked for 2 large Australian based resource focused stock broking firms and a global accounting firm in both London and Australia.

#### Jeff Mckenzie Acting CEO

Group for 33 years roles including General Manager Beijing Branch China, Regional Head North Asia Commodity and International Trade. Chief Executive of PISG Group Beijing the largest private iron ore importer into China and owner of a 4mio tons steel mill. Mr Mckenzie has considerable commodity and financial experience including undertaking a JV with Vale of Brazil in China to build a 5mio ton pellet plant. Initiating a USD2.5bio takeover of China Oriental Group (HK Listed) for PISG

Former Banker with ANZ Banking

#### Antonio de Castro Consulting Geologist

Former exploration and mine geologist with WMC and consultant to several junior mining companies. Has over than 32 years experience in the exploration for and development of gold and base metals projects in Brazil.

#### Wanderlei Borges Consulting Geologist

Metallurgy.

.Mr Borges has over 18 years of domestic and international experience, has vast experience in the Amazon region working for Rio Tinto and Phelps Dodge. He holds a Bachelors of Science in Geology and a Master's of Science in Economic Geology, from the Federal University of Para. He is a member of the Australasian Institute of Mining and

#### Luis Mauricio F. de Azevedo Legal Adviser – Brazil

Luis is a lawyer and geologist with 25 years of business and mining experience in Brazil. Partner at FFA Legal & Support for Mining/Oil Companies and previously worked for WMC, Barrick and Harsco. Luis has assembled land packages for numerous IPO's including Brazilian Gold, Talon, Avanco. Beadell and Carnavale.

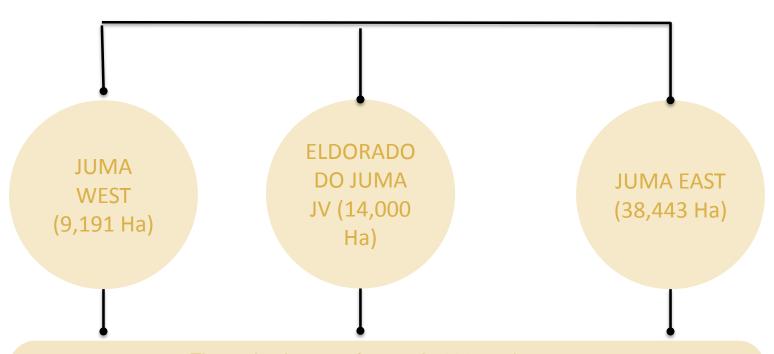
# Antonio O. Ferreira Consulting Technical Services

Antonio has over than 30 years experience in providing services for mining and exploration companies in the Para State with an extensive management experience. He supported and started the Operations at Palito gold mine in the Tapajós region.

# **bbx**

# BBX PORTFOLIO UNLOCKING THE HUGE POTENTIAL OF SOUTHERN AMAZON

A strategic portfolio with high potential for a world class gold deposit



The region became famous in 2007 as host to a massive gold rush at the Eldorado do Juma garimpo artisanal mine, estimated 50,000 oz's produced by 8,000 informal miners

BBX is the first mover in this region with potential for word class gold deposits, TARGETING HIGH AND LOW SULPHIDATION EPITHERMAL GOLD DEPOSITS



# **JUMA EAST (38,443 ha)**

BBX 100%

- 4 exploration licenses in BBX's name, valid until August 2019.
- Targeting a large low sulphidation epithermal gold deposit with potential for near term cash flow from open cut mining.
- Hallmarks for a large low sulphidation epithermal gold deposit are present at Guida target.
- Auger drilling the soils and saprolite with gold in the Guida target.
- Executing ground geophysics and diamond drilling in the coming months







## ELDORADO DO JUMA (14,000ha)

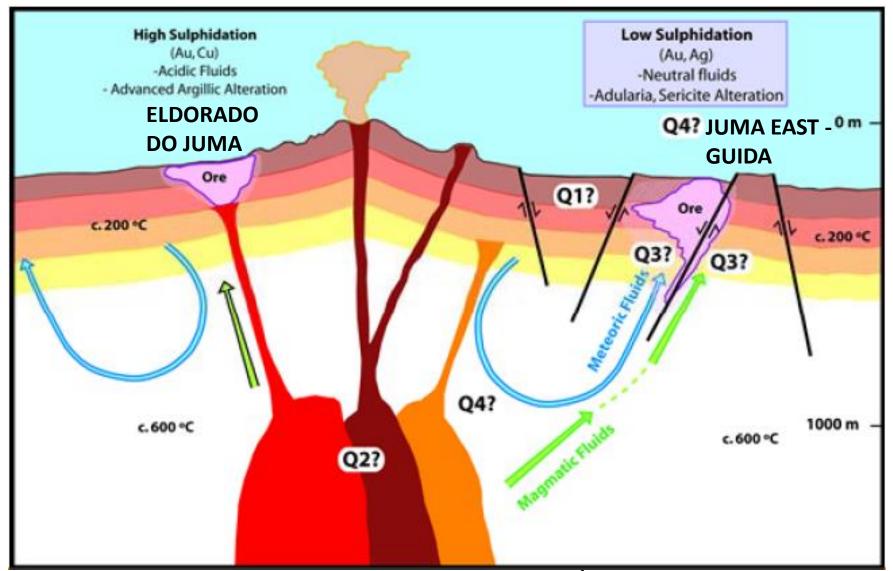
BBX 75% and Cooperjuma 25%

- ▶ Eldorado do Juma One of Brazil`s most famous garimpo mines in the state of Amazonas
- First mover in a potential world class region, targeting a high sulphidation gold deposit around a preserved volcanic caldera.
- ▶ Exploration license to JV entity not granted to date potentially subject to the passing of the new mining regulations.
- A possibility to process the tailings under the current rudimentary mining license exists.
- Modern exploration techniques to discover the primary gold ore will be applied only after the exploration license is granted and transferred to COMIN GOLD (JV entity).

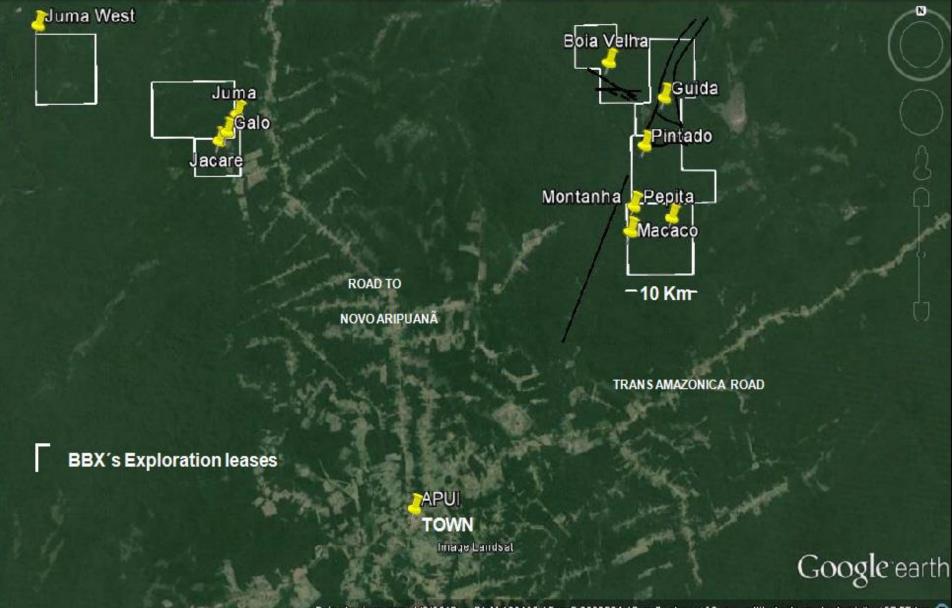


# EPITHERMAL GOLD VOLCANIC SETTINGS – EXPLORATION MODEL 8











#### **Current Status –**

- Exploration licences granted
- Transfer of licenses to BBX granted

# **Target Milestones – Immediate Value Add**

#### Now:

$\checkmark$	Establish the exploration camp	Q1 2014
$\checkmark$	Commence technical work to test soils & oxide ore	Q4 2013

## Stage 1 – Focus of generating positive cash flow from saprolite

<ul> <li>Define oz's and grade – auger drilling and sampling</li> </ul>	Q1 2014
•Ground geophysycs – IP	Q2 2014
•Diamond drilling primary ore	Q3 2014
<ul> <li>Lodge application for trial mining license</li> </ul>	Q2 2015
Construction of gravity plant	Q4 2015
Commence production	Q1 2016

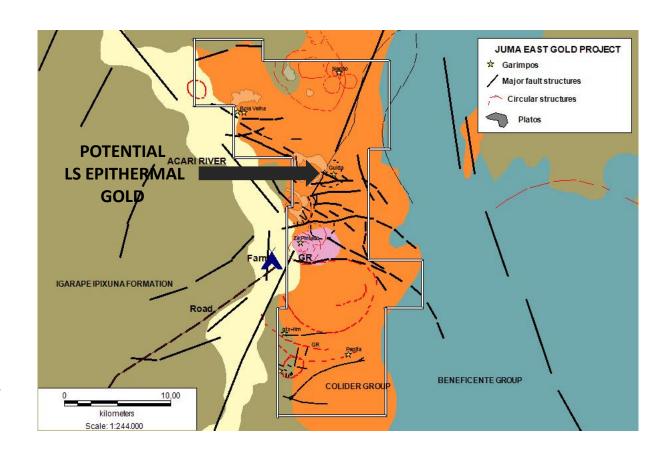
### Stage 2 – Focus on the discovery of a major gold deposit

• Utilize funds from Stage 1 for ongoing project development & exploration

## OVERVIEW – GEOLOGY OF JUMA EAST



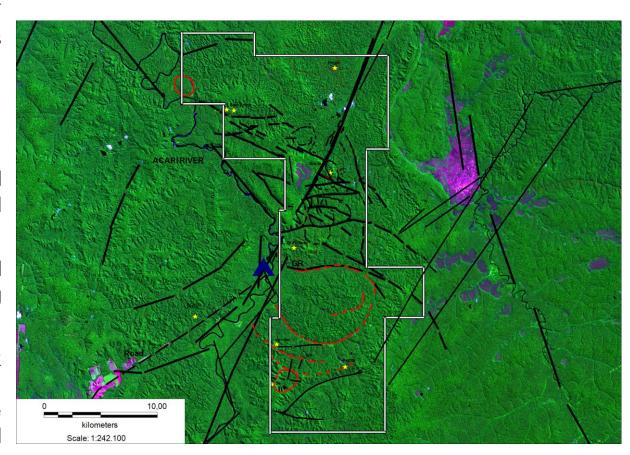
- The area is mapped as part of Colider Group (felsic volcanic rocks) by CPRM overlain by remnants of the Beneficiente Group (sediments).
- Evidence suggests the presence of a stockwork style of mineralisation within a granitic stock and also gold mineralisation within the basal conglomerate of the Beneficiente Group.
- Silica textures typical of the boiling zone in low sulphidation gold systems discovered at the Guida target



## JUMA EAST GOLD PROJECT



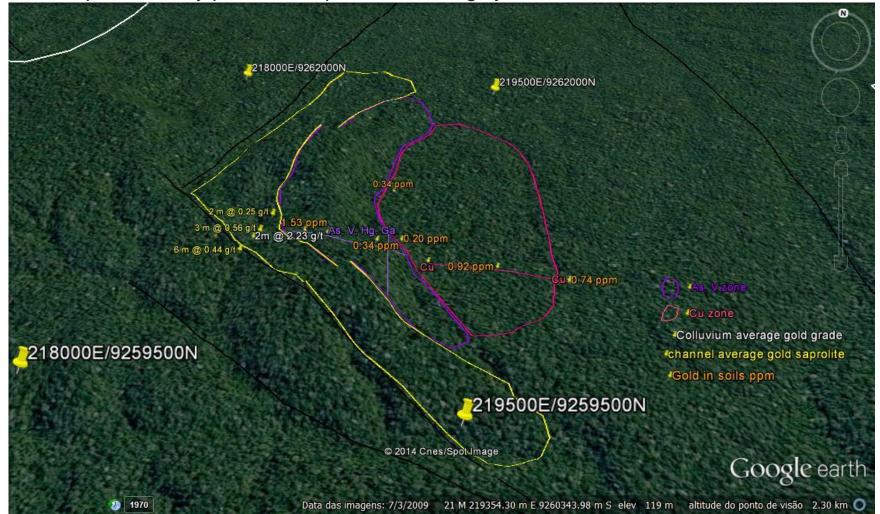
- Strategically located 70 km northeast of the town of Apui Town and east of the famous Eldorado do Juma garimpo
- > 50 Km of fault zones (20 km N60W and 30 km N30E) where multiple exploration targets have been identified with numerous artisanal gold operations
- High grade gold identified from simple sampling techniques at Negão target
- Reconnaissance work mapped a large area with silica textures typical of large low sulphidation gold deposits at Guida target.



# JUMA EAST- GUIDA TARGET EXPLORATION RESULTS



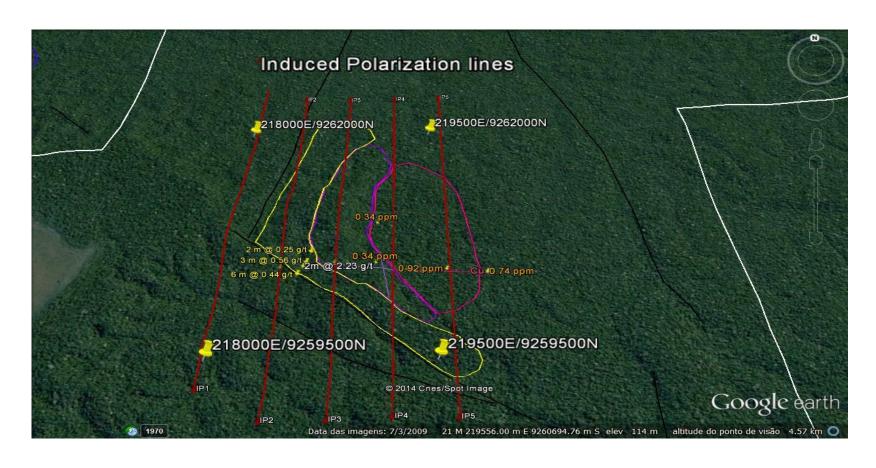
- As, V, Cr, Hg, Ga, Sb, Mo typical of alkalic-low sulphidation epithermal Au-Ag systems identified over extensive area (1.5km x 1.5km)
- Presence of anomalous values for mercury and gallium in the soils supports the concept of a totally preserved epithermal Au-Ag system



# JUMA EAST- GUIDA TARGET EXPLORATION PROGRAM



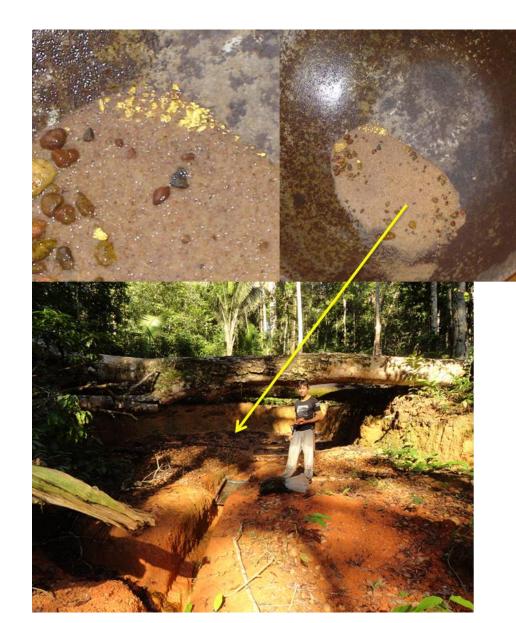
- Auger drilling is in progress testing the soils and saprolite along 600m N/S lines with holes at every 40 m.
- ▶ Ground geophysics IP 5 lines of dipole-dipole, 80m apart with readings every 40m in 6 channels is planned on 3,500m N-S lines testing 1,600m E-W of the zone with lattice-bladed silica texture, prior to diamond drilling.



# JUMA EAST – NEGÃO TARGET



- A series of artisanal workings where gold has been mined from extensive alluvial deposits.
- Garimpos are located within a 30km x 10km area containing a series of flat plateaus with a preserved lateritic profile.
- The alluvial gold mined is believed to have sourced from eroded portions of the lateritic plateau
- The potential for primary mineralisation below the base of oxidation remains totally untested.
- Significant gold is consistently present in the laterite profile at the Negâo workings, situated on the plateau outside the influence of the drainage system.





## **Current Status – The Challenges**

- ▶ Restricted license allowing garimpeiro mining only
- Community support, jobs, health and education, basic infrastructure
- Environmental rehabilitation resultant from poor mining practices

## Target Milestones – Immediate Value Add

#### Now:

$\checkmark$	Establish JV with garimpeiro co-operative	Q3 2012
$\checkmark$	Commence technical work to test tailings & oxide ore	Q3 2013
$\checkmark$	Lodge application for exploration and environmental license	Q4 2013

#### Stage 1 – Focus of generating positive cash flow from tailings and oxides

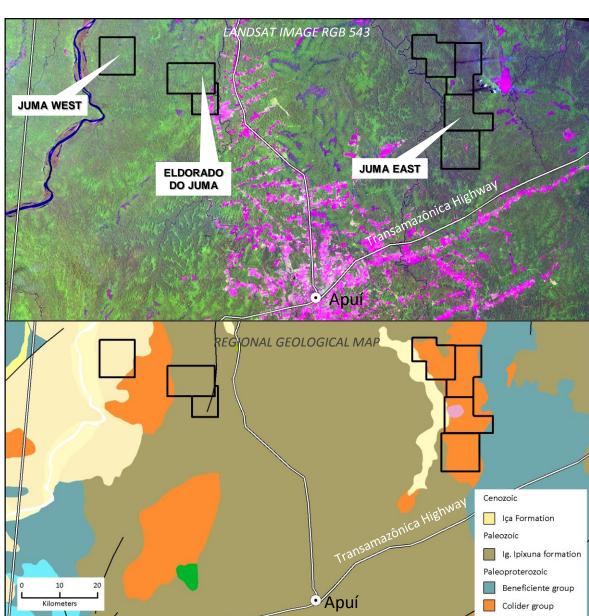
<ul> <li>Define oz's and grade – auger drilling and sampling</li> </ul>	Q1 2015
<ul> <li>Lodge application for trial mining license</li> </ul>	Q1 2016
<ul> <li>Construction of gravity plant</li> </ul>	Q3 2016
Commence production	Q4 2016

#### Stage 2 – Focus on the discovery of a major gold deposit

Utilize funds from Stage 1 for ongoing project development & exploration



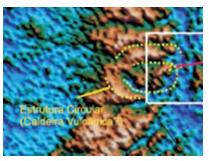
- Large under-explored 14,000 ha strategic landholding
- Multiple extensive garimperio mining operations within the leases
- Over 2 km2 of rudimentary garimpeiro surface mining at Eldorado do Juma area plus numerous satellite operations
- Excellent logistics via
   Transamazonia Highway
   and close proximity to Apui



# OVERVIEW - GEOLOGY OF ELDORADO DO JUMA

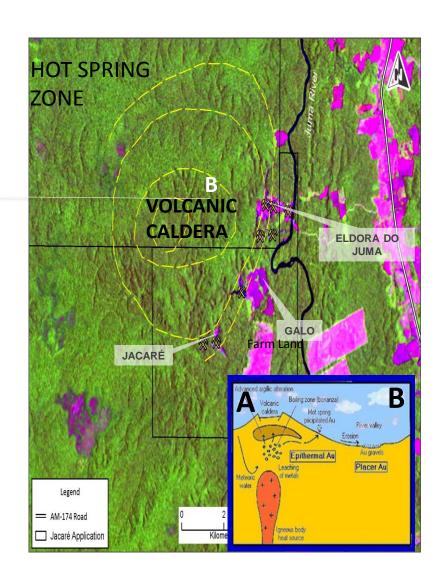


 Caldera structure recognized by CPRM (from the radiometric response)





- Hydrothermal alteration mapped by CPRM in the volcanics and sediments at Eldorado do Juma are indicative of high sulphidation epithermal gold mineralisation.
- Limited geological mapping has identified both Proterozoic Colider Group volcaniclastics and Beneficiente Group clastic sediments as the hosts to gold mineralisation in the lateritic horizon and in stockwork structures within the underlying weathered rocks.
- Free gold has being mined from vertical joints and from the bedding planes of the mix of intercalated sub aerial volcanics and clastic sediments.
- A stockwork veining system is present in the volcanics, subvolcanics and plutonic rocks underlying the gold mineralised sediments at Eldorado do Juma



# 12 MONTH EXPLORATION & DEVELOPMENT PROGRAM



#### FOCUS ON CREATING CONSIDERABLE SHAREHOLDER VALUE

#### **ELDORADO DO JUMA**

- Obtain exploration and environmental licenses
- Test tailings for near term production potential
- Ongoing detailed sampling and mapping
- Identification of high priority drill targets

#### **JUMA EAST**

- Ongoing detailed sampling and mapping
- Ongoing auger drilling soil and saprolite in the Guida target
- Conduct ground geophysics IP at Guida target
- Identification of high priority drill targets



# COMMUNITY AND ENVIRONMENT

### BBX IS MAKING A POSITIVE IMPACT

Community & government support for projects

High environmental standards

Active community programs







- Near term objective of cash flow from Eldorado do Juma & Juma East
- Unlocking a potential world class opportunity at Juma
- First mover in the Juma region
- Making a positive impact on the community and environment
- Experienced team with excellent relationships in the Brazilian mining industry



#### Licensing & Permitting Authority: Department de Produção Mineral (DNPM)

#### **Prospecting**

Tenure: 5 years

Renewal: Up to 5 years

Acreage: 50 hectares maximum

Terms: No time obligation for prospecting activity to commence

#### **Exploration**

Obligation The holder of an Exploration Licence must pay rates and taxes, ranging from R\$1.90 to R\$2.87

per hectare, to the local government.

Tenure: 3 years

Renewal: Maximum 3 years

Acreage: 2,000 hectares outside of the Amazonia region and 10,000 hectares within the Amazonia region

Terms: Work to commence no later than 60 days after the Exploration Licence has been published and

must be continued uninterrupted for 3 consecutive months or 120 non-consecutive days

#### A Mining Licence will be granted once a proven commercial ore reserve is discovered, provided:

- An exploration study proves the existence of an ore reserve
- A feasibility study is completed on the commercial viability of the reserve
- An environmental licence is granted to mine on the particular tenement

#### Australia

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#### Brazil

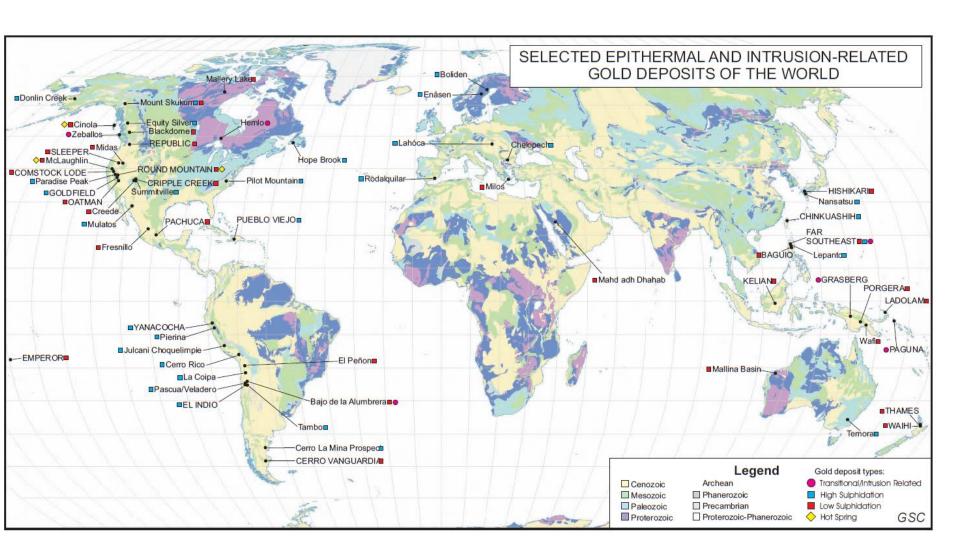
Av. Jornalista Ricardo Marinho 360 Ed. Cosmopolitan – Sala 113 CEP 22631-350 Barra de Tijuca, Rio de Janerio T + 55 21 2439 5700



# TECHNICAL APPENDIX

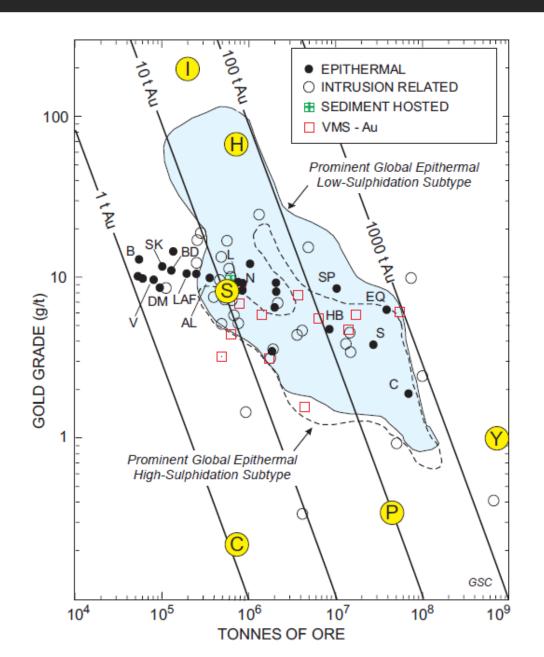
# EPITHERMAL GOLD DEPOSITS - CHARACTERISTICS





# EPITHERMAL GOLD DEPOSITS – CHARACTERISTICS





ELDORADO DO JUMA
HAS HIGH
SULPHIDATION
CHARACTERISITCS
WHILE
JUMA EAST HAS LOW
SULPHIDATION
CHARACTERISTICS

After Bruce E. Taylor





Photo 19. Banded adularia-sericite epithermal gold-silver fissure vein showing marginal floating clast breccias, Hishikari

After Greg Corbett

Deposits can be **very rich** (very high grade)

- HISHIKARI, JAPAN 220 t Au
   (7 M oz Au) Production
   Grades +/- 40 g/t Au
- CRIPPLE CREEK, USA 700 t
   Au (23 M oz Au) Production
   Grades 15-30 g/t Au



- FORM IN THE NEAR-SURFACE ENVIRONMENT, within 1.5 km of the Eath's surface
- HYDROTERMAL PROCESS: "Hot Water"
- CATEGORIZED IN THREE TYPES "Low"," Intermediate" and" High Sulphidation"
- LOW TEMPERATURE: 100 °C to 300 °C (typically 170 °C to 270 °C)



Low Sulphidation High Sulphidation

MAIN FORMS Open space veins Disseminated

& breccias & stockwork

OCCURRENCE Sub aerial volcanic arcs (COLIDER GROUP)

Distal settings Proximal settings

(JUMA EAST) (ELDORADO DO JUMA)

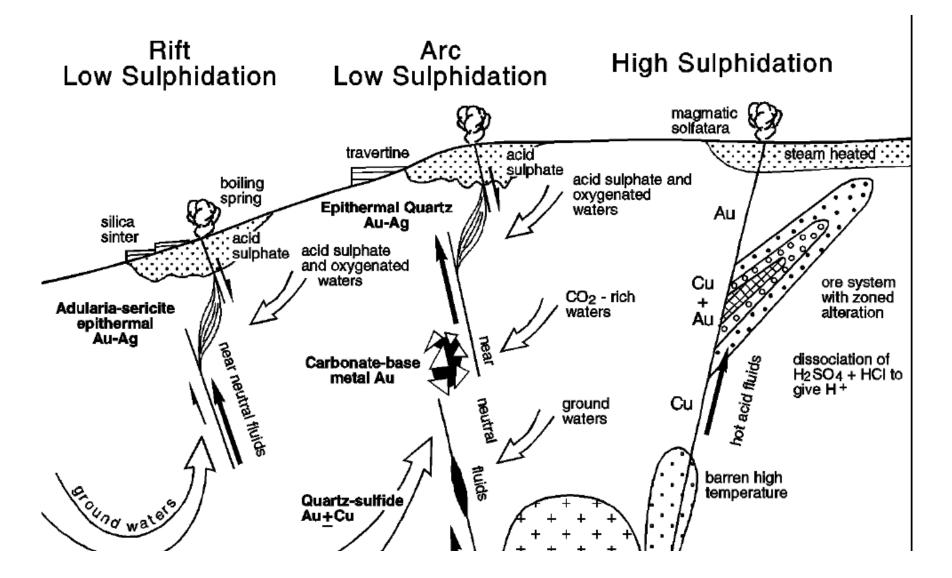
MINERALOGY Quartz Vuggy quartz

adularia alunite, enargite

FLUIDS Neutral aqueous Acid aqueous,

magamtic volatiles

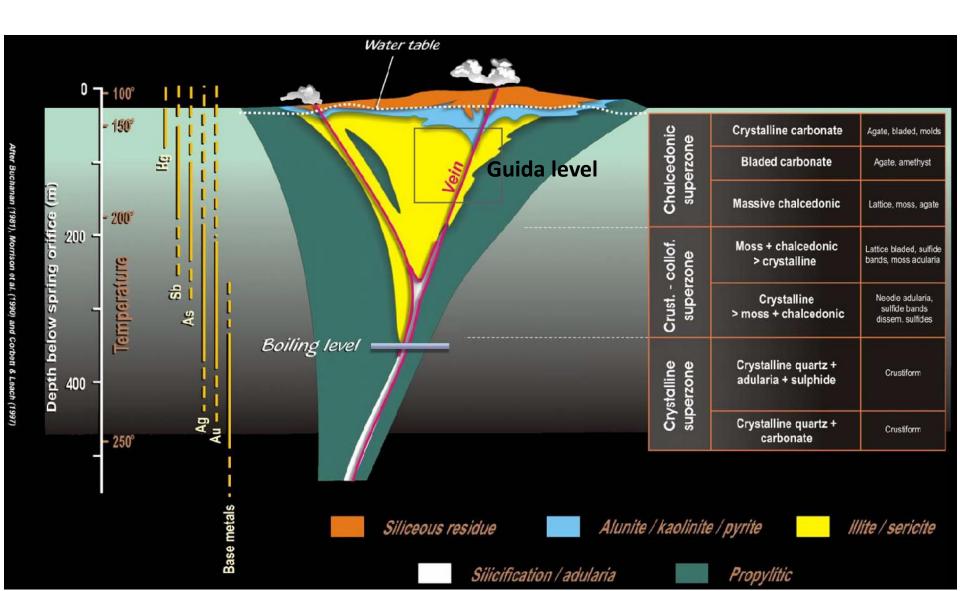




# **EPITHERMAL GOLD DEPOSITS – CHARACTERISTICS**



# **Low Sulphidation Epithermal Form**



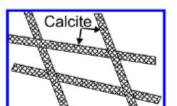


# **Low Sulphidation Boiling Textures**

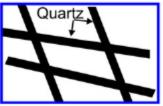
# Silica and Calcite Mineral Textures



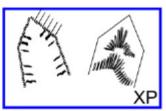
A) Jigsaw



F) Lattice bladed calcite



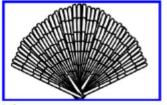
K) Lattice-bladed calcite replaced by quartz



B) Feathery



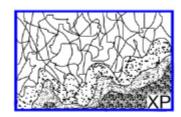
Colloform-banded plumose



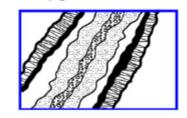
L) Pseudo-acicular quartz



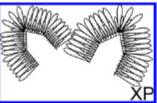
C) Flamboyant

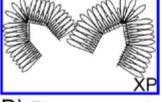


H) Colloform-banded I) Ghost-sphere jigsaw



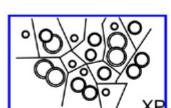
M) Crustiform

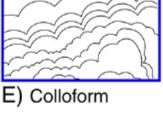


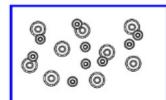


D) Plumose quartz









J) Moss

Boiling

# JUMA EAST – GUIDA TARGET – SILICA TEXTURES





Colloform



Pseudo acicular quartz



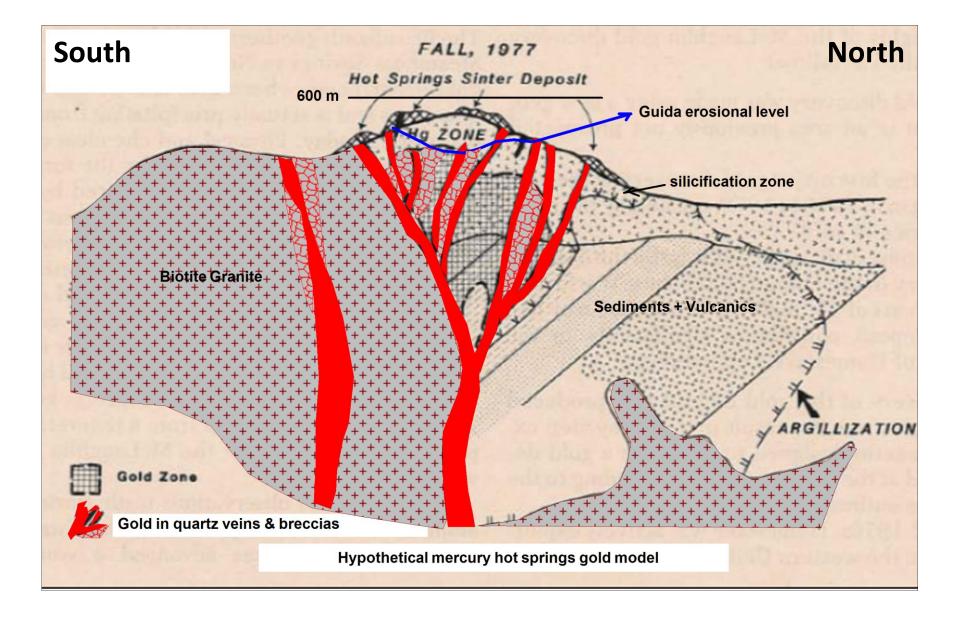
**Lattice-bladed** 



Quartz pseudomorphism platy carbonate

# JUMA EAST – GUIDA TARGET – CURRENT CONCEPT

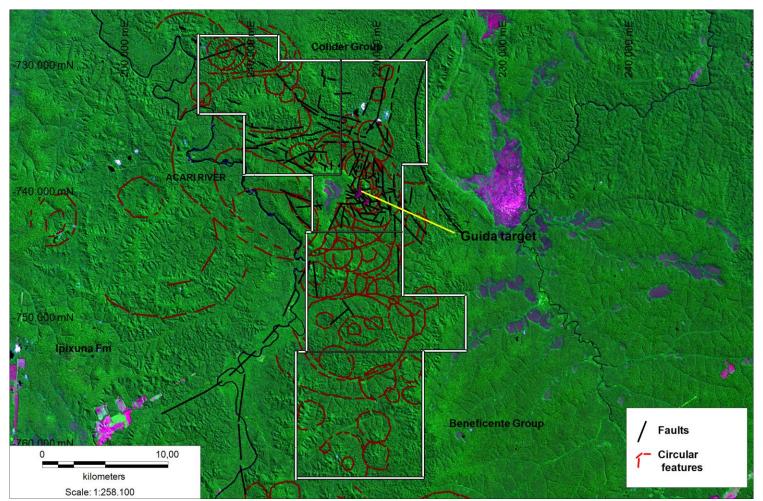




### JUMA EAST GOLD PROJECT – GEOLOGICAL ENDOWNMENT



Structural analysis of radar and satellite images reveals the presence of two distinct geotectonic domains, a northern domain dominated by linear structures and a southern domain where circular and curvilinear structures prevail. The latter features are interpreted to represent caldera boundaries and multiple intrusives, an environment favoring formation of porphyry-style deposits in contrast to the rift low sulphidation environment to the north



## JUMA EAST - GUIDA TARGET



- Chalcedony, amorphous silica and fine grained silica mass (silicification) as well as eruption breccias, banded quartz and lattice-bladed quartz outcrop in the creek floor at the Guida old workings with a mapped extension (N/S) of about 300 meters coincident with the zone with gold in soils and saprolite.
- Au-Ag, As, V, Hg, Ga, Sb, Mo and Cr geochemical signature typical of low sulphidation epithermal gold systems was identified at the Guida target coincident with the widespread silica textures and silicification alteration
- Eruption breccias and Hg-Ga are typical of the upper part of low sulphidation gold systems with low grade gold and in general overlie the high grade zones in the banded and lattice-bladed quartz lodes which typically are deeper in the system
- The current surface expression indicates the potential for large to very large tonnage deposits requiring diamond drill testing.

# **APPENDIX WHY BRAZIL?**



- Total area of Brazil larger than Australia
- Vastly under explored relative to other major mining jurisdictions
- A healthy investment climate
- Track record of the Brazilian government honouring contract terms
- World's 5<sup>th</sup> largest and Latin America's largest economy, with rapidly growing population (currently 200 million)
- US\$830 billion committed to infrastructure spending
- Host of FIFA World Cup (2014) and Olympic Games (2016)
- Awarded investment grade status by S&P and Moody's

