

2017 Annual General Meeting

AGM Presentation

Craig Dawson, Chief Executive Officer (elect)
Annual General Meeting – 31 May 2017, West Perth

Unlocking the Potential of an Emerging High-Grade Gold Camp



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- ▶ No JORC Mineral Resources or Reserves have been defined at the Company's Projects and it is uncertain if future work will result in the definition of JORC Mineral Resources or Reserves. As such, the Company makes no representations about the grade of any potential mineralised rock that may be delivered to a mill for processing, nor can the Company make any forecasts about the potential production of ounces of gold. This presentation does not constitute investment advice. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation or recommendation in relation to the purchase or sale of shares in any jurisdiction. This presentation does not take into account any person's particular investment objectives, financial resources or other relevant circumstances and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. To the fullest extent permitted by law, Orinoco Gold Limited does not make any representation or warranty, express or implied, as to the accuracy or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise is accepted. This presentation may include forward looking statements. Forward looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Orinoco Gold Limited . Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, readers are cautioned not to place reliance on forward looking statements. Any forward looking statements in this presentation speak only at the date of issue of this presentation subject to any continuing obligations under applicable law, Orinoco Gold Limited do not undertake any obligation to update or revise any information or any of the forward looking statements in this presentation only changes in events, conditions or circumstances on which any such forward looking statement is based. The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Dr Klaus Petersen who is a member of the Australasian Institute of Mining and Metallurgy and CREA. Dr Klaus Petersen is an employee of Orinoco Gold Limited and has sufficient experience, which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Klaus Petersen consents to the inclusion in this presentation of the matters based on the information in the form and context in which it appears. It is common practice for a company to comment on and discuss its exploration in terms of target size and type. The information in this presentation relating to exploration targets should not be misunderstood or misconstrued as an estimate of Mineral Resources or Ore Reserves. Hence the terms Resource(s) or Reserve(s) have not been used in this context in this presentation. The potential quantity and grade of resource targets are conceptual in nature since there has been insufficient work completed to define them beyond exploration targets and that it is uncertain if further exploration will result in the determination of a Mineral Resource or Ore Reserve. *There is information in this presentation relating to previous exploration results. Full results are included in ASX Releases and are available to view on the Company's website www.orinocogold.com*



Introduction – Key Recent Developments

- ▶ Strategic partnership with leading global gold miner AngloGold Ashanti to underpin long-term future at Faina Goldfields Project:
 - *~17% cornerstone investment and regional exploration JV.*
- ▶ Appointment of experienced Chief Executive Officer, Chief Financial Officer plus new in-country GM Operations.
- ▶ Board strengthened with new appointments.
- ▶ Detailed review of mining and processing at Cascavel completed:
 - *Plan to recommence operations finalised.*
- ▶ Extensive operational and strategic improvements implemented.
- ▶ New trial mine development underway to increase mechanisation, reduce dilution and boost productivity.
- ▶ Plant restart targeted for Q3 2017 – development now underway to support trial mining utilising improved mining method.





Corporate – Strengthened Board

ASX Code	OGX
Shares on Issue	497,635,459
Options on Issue	233,113,830 (Listed) & 39,478,571 (Unlisted)
Share Price	5.2c
Market Capitalisation	A\$25.9m
Cash (as at 26 May 2017)	~A\$5.1M
Debt and Secured Hedging	Forward gold sale = 20% of production for 3 years

New Directors bring significant mining, technical and operational expertise to the Board.

Helcio Guerra

Mining Engineer with over 30+ years' experience in the Brazilian resources industry. Key prior roles include as Vice-President of AngloGold Ashanti's operations in the Americas and several senior roles with Brazilian giant Vale, including as Director of Vale's Industrial Minerals and Precious Metals Department.

Terry Topping

Geologist with over 30 years' experience in the mining industry and over 20+ years' experience in the management of publicly listed companies on the ASX and TSX. Mr Topping has experience in corporate finance, mergers and also as a mining & exploration geologist in Australia and overseas.

Board of Directors	
Brian Thomas	Chairman
Jonathan Challis	Non-Executive Director
Terry Topping	Non-Executive Director
Nick Revell	Non-Executive Director
Helcio Guerra	Non-Executive Director



Corporate – Strengthened Management Team

New appointments with extensive, hands-on operational experience

MANAGEMENT

Craig Dawson, *Chief Executive Officer (elect)*

Mining Engineer with 30+ years experience in Australian and International mining industry with a proven track record in developing and operating small to large-scale mining operations. He has held both senior operational positions with successful mid-tier and global mining companies (including LionOre/Norilsk and Sandfire) and executive corporate roles.

Albert Longo, *Chief Financial Officer*

Chartered accountant with 35+ years' experience in operational and corporate roles in both listed and unlisted precious metals and engineering companies.

Richard Crew, *General Manager – Cascavel*

UK expat mining engineer with 30+ years in both open pit and underground mines, including 15 years operating in Brazil. Most recently, he was Consultant General Manager Projects for the São Bento Group, a private mining group operating two gold mines in the States of Mato Gross and Para producing a combined total of 100,000oz per annum of gold. In this role, he successfully managed a Bankable Feasibility Study and construction of a 2Mtpa gravity/CIL processing plant.

Alessandro Dotta, *Group Mining Engineer*

Brazilian expat mining engineer with 10+ years experience in Australian and international mining industry including 5 years with AngloGold Ashanti.



Corporate – Strategic Partnership with AngloGold Ashanti

Strategic partnership with a leading global gold miner

- ▶ AGA secured ~15% stake in Orinoco via A\$5.9M investment in February 2017.
- ▶ Major global gold producer: 3.6Moz produced in 2016.
- ▶ Long-term miner in Brazil with 8 current mines in operation.
- ▶ Heads of Agreement to enter into US\$9.5M exploration JV/earn-in on Faina Project (excluding Cascavel Gold Mine):
 - *Due diligence expected to be completed by end of May;*
 - *Planning for initial drill programs (Sertao and Antenna Xupe) completed: cost savings expected due to AGA contracts/buying power; and*
 - *Formal Agreement expected to be completed by end of Q3.*
- ▶ Option to earn-in and/or acquire up to 50% of Cascavel Gold Mine:
 - *Due diligence expected to commence during Q3.*





Cascavel Gold Mine – Overview

- ▶ Mine development initially commenced Q2 2015.
- ▶ Cascavel processing plant commenced production Q3 2016 – capable of 90-100ktpa.
- ▶ Mine development and processing suspended Q4 2016.
- ▶ Operational reviews undertaken post-suspension by external consultants:
 - *Mining Plus; and*
 - *SRK.*
- ▶ Mine development re-commenced May 2017.
- ▶ 100% OGX ownership secured May 2017 by acquiring 30% interest held by minorities – set to deliver significant economic and strategic benefits including:
 - *Simplified ownership;*
 - *Access to 100% of free cash-flow; and*
 - *Greater flexibility in dealing with JV partner AGA.*





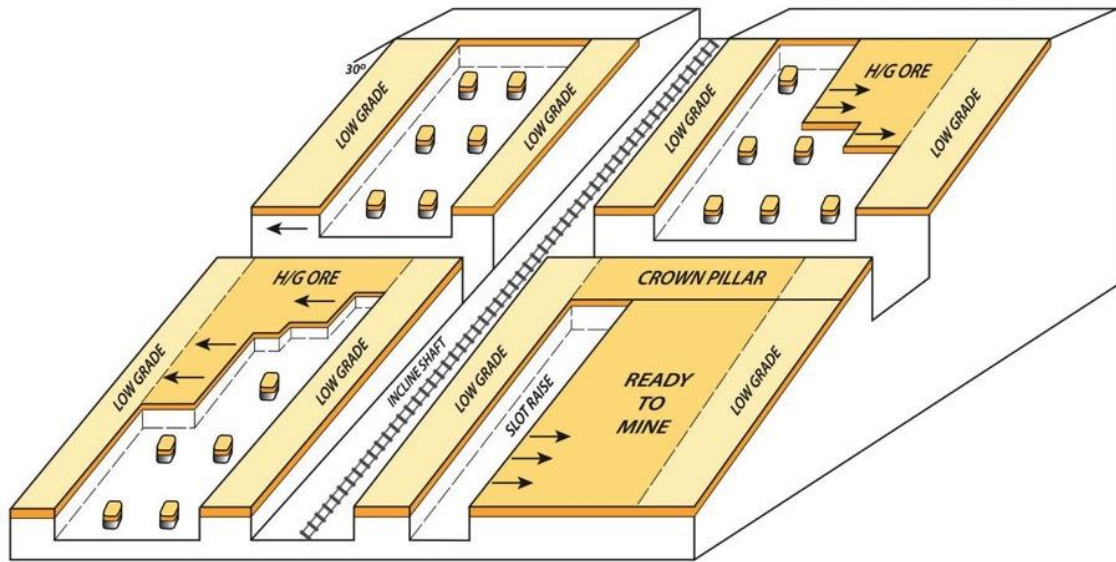
- ▶ Additional operating expertise engaged.
- ▶ Experienced General Manager appointed for Cascavel (UK expat mining engineer with substantial Brazilian experience).
- ▶ Experienced Group Mining Engineer recruited (Brazilian expat).
- ▶ Australian Airleg miner engaged to provide upskilling of Brazilian miners.
- ▶ Switched from contractor to owner-operator workforce:
 - *Employed from within the local community with Orinoco management and supervisory oversight; and*
 - *Experienced mine foremen engaged.*



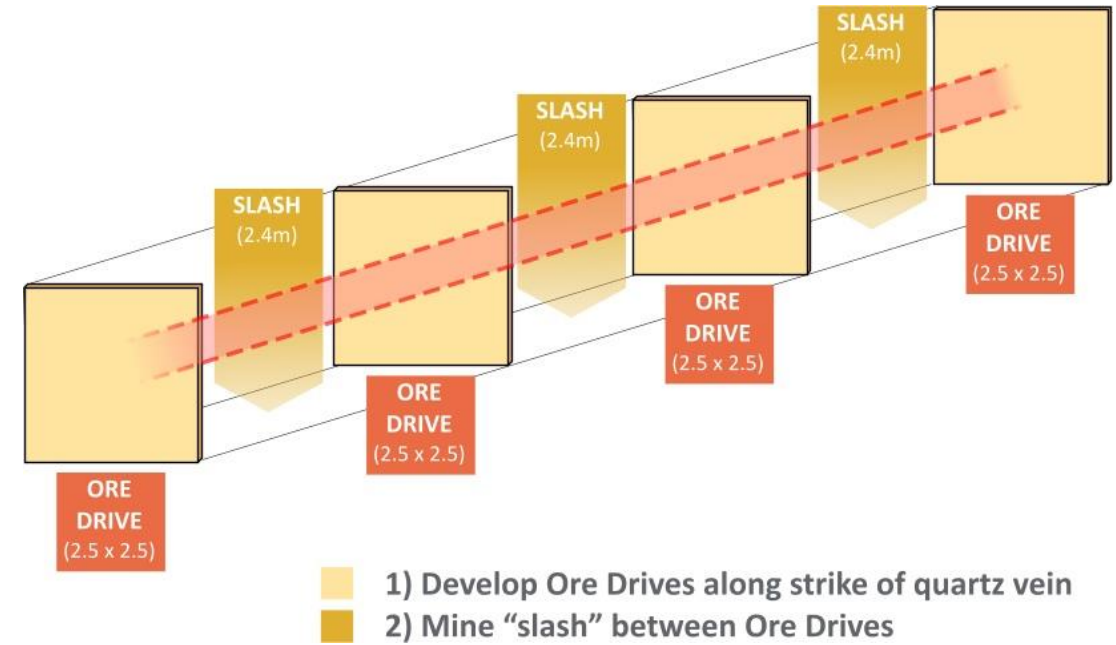


Cascavel Gold Mine – Revised Mining Methodology

From This:



To This:

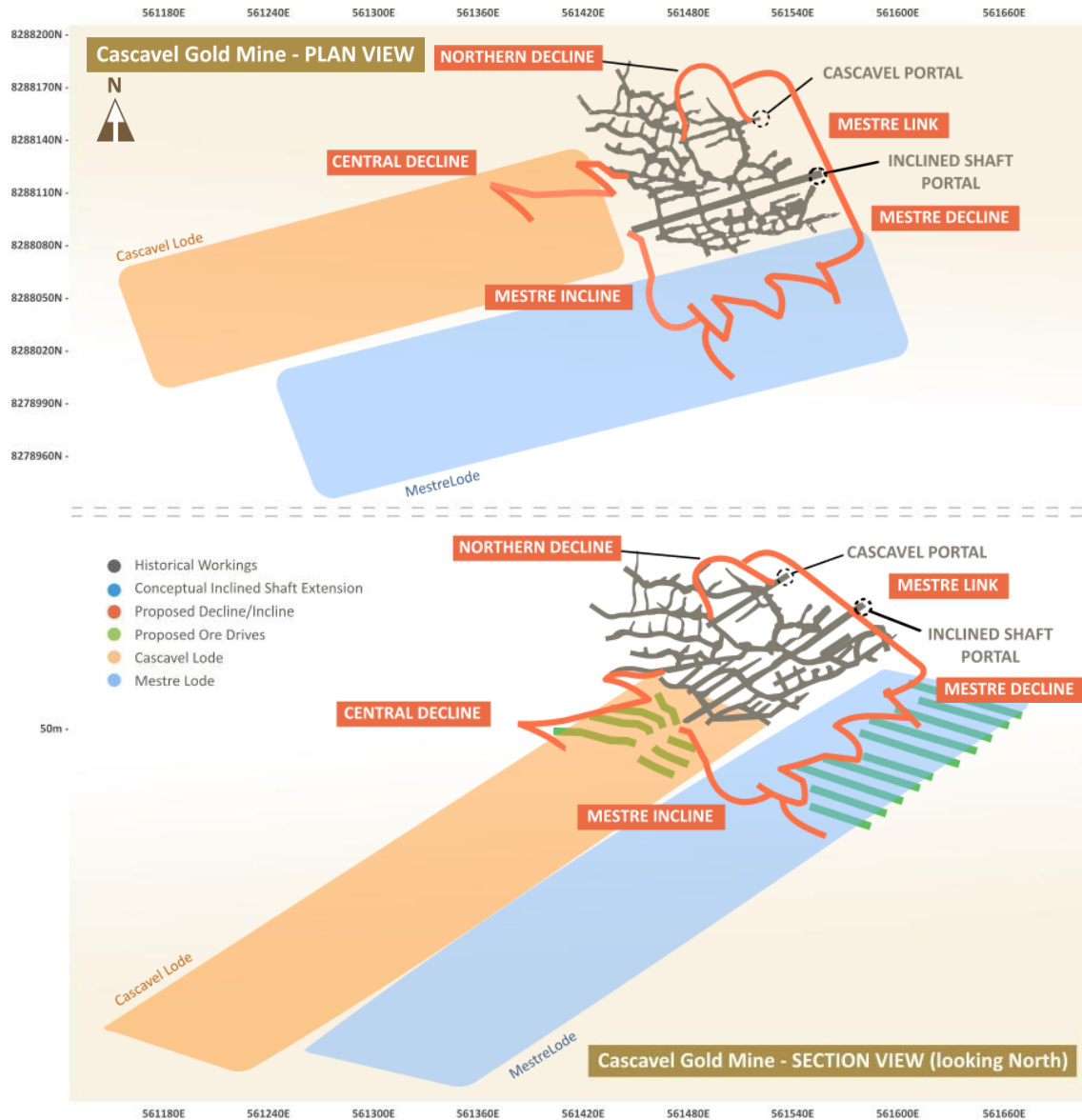


Room and Pillar Mining Method used to date

New "Drive and Slash" mining method



Cascavel Gold Mine – New Trial Mine Development (Stage 1)

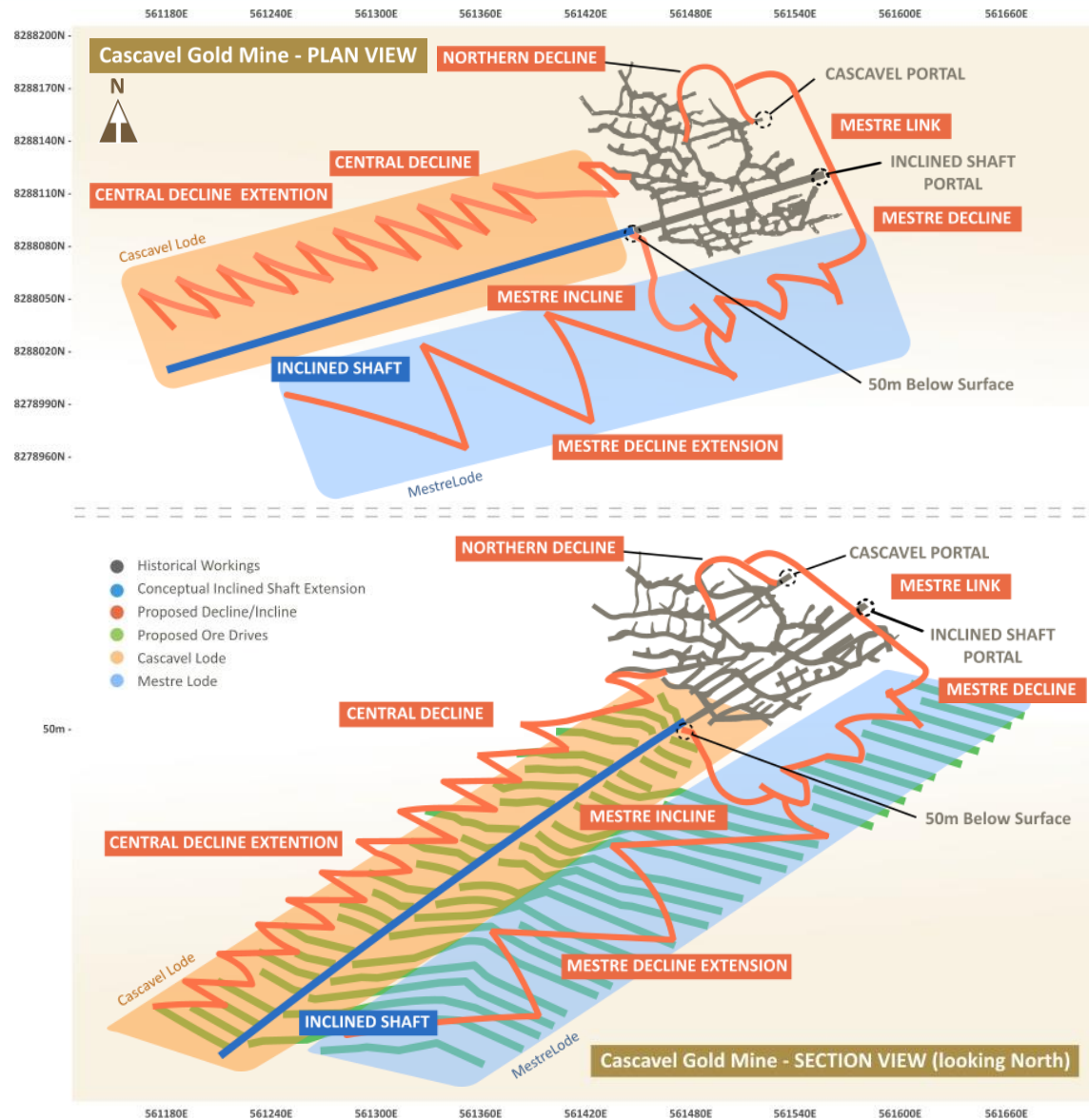


- ▶ ~800m of development completed last year, with limited mining in Cascavel Lode – excessive dilution, poor productivity and no mining in Mestre Lode.
- ▶ Additional trial mine development commenced in April 2017 to provide access to higher grade Mestre Lode:
 - *New Northern Decline bypass drive to allow Toro 151 LHD to access the mine via Cascavel Portal;*
 - *New Mestre Link to connect Northern and Southern Portions of the mine;*
 - *New Mestre Decline and Mestre Incline to provide access to upper portions of high-grade Mestre Lode system; and*
 - *Central Decline to provide access to central zone of Cascavel lode.*

New mining strategy designed to increase productivity, reduce dilution and provide greater diversity of ore sources



Cascavel Gold Mine – New Mine Development (Stage 2)



- ▶ When Stage 1 is successful, Orinoco will embark on a longer term mine design encompassing:
 - *Develop new Decline for truck haulage;*
 - *Central Ramp Decline to establish access to the Cascavel Lode down-dip extension;*
 - *Extending the Mestre Decline to establish access to the Mestre Lode down-dip;*
 - *Establishing horizontal ore drives for the Central and Mestre lodes using the new mining method; and*
 - *Extending the incline shaft down-dip to service the expanded mine.*

New mining strategy designed to increase productivity, reduce dilution and provide greater diversity of ore sources



Purchase of small scale LHD – Expect delivery in July

From This:



≈0.2 m³ bucket

To This:



≈1.5 m³ bucket





- ▶ Improved drilling practices.
- ▶ Improved survey control (experienced UG surveyor employed) and mark-up practices implemented.
- ▶ Standardised drilling patterns developed and implemented.
- ▶ Use of reamer bits to be trialled.
- ▶ Improved Rockdrills.
- ▶ Improved drilling practices implemented (e.g. parallel holes, horizontal drilling).





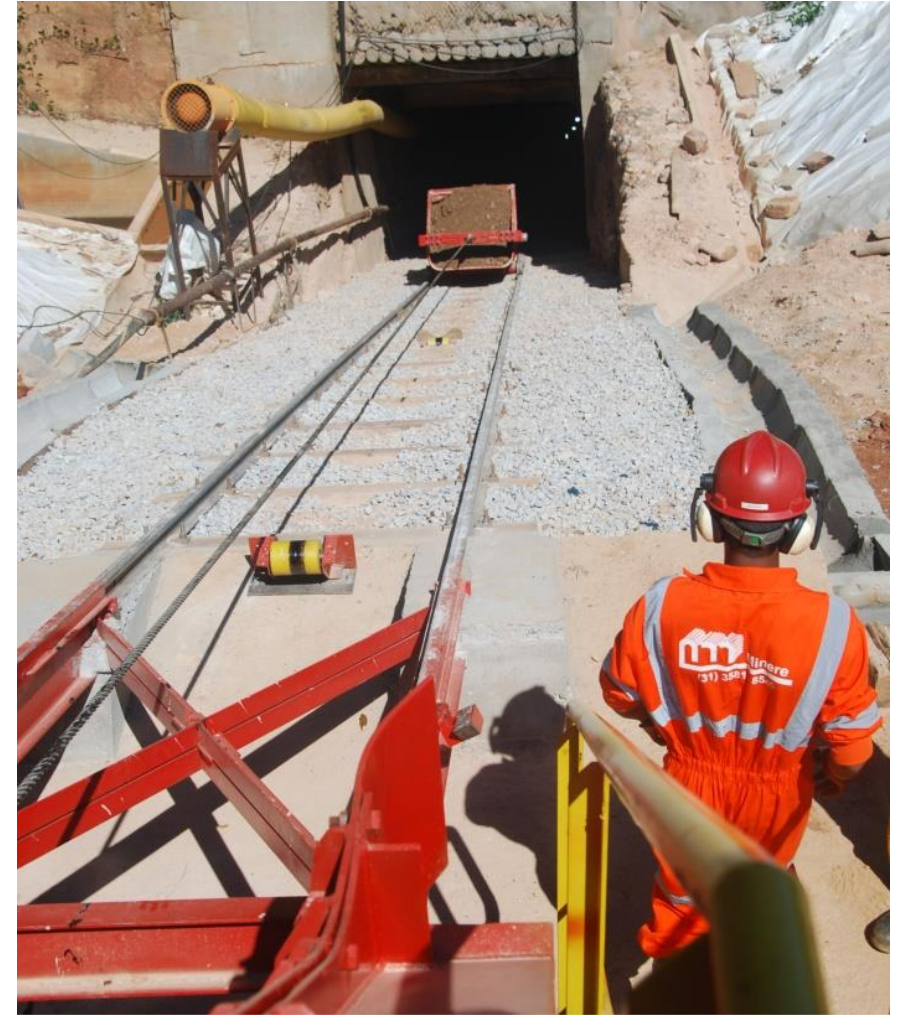
Cascavel Gold Mine – Improved Blasting Practices

- ▶ Orinoco explosive storage licence secured.
- ▶ Installation of magazines complete.
- ▶ Alternative better quality explosives and accessory supplier.
- ▶ Long Period (LP) equivalent detonator series purchased for development blasting.
- ▶ Standardised charging and blasting patterns developed and implemented.
- ▶ Purchase of lightweight Australian ANFO loaders.





- ▶ Haulage shaft efficiency improved in several respects:
 - *Hoisting speed increased;*
 - *Improved housekeeping standards implemented;*
 - *Drive linking north and south sides of mine being developed to negate the need for travelling across the shaft haulage way (production interruption);*
 - *Installation of U/G radio system being investigated;*
 - *Installation of camera system at tiphead being investigated; and*
 - *Increase in skip capacity to be investigated.*

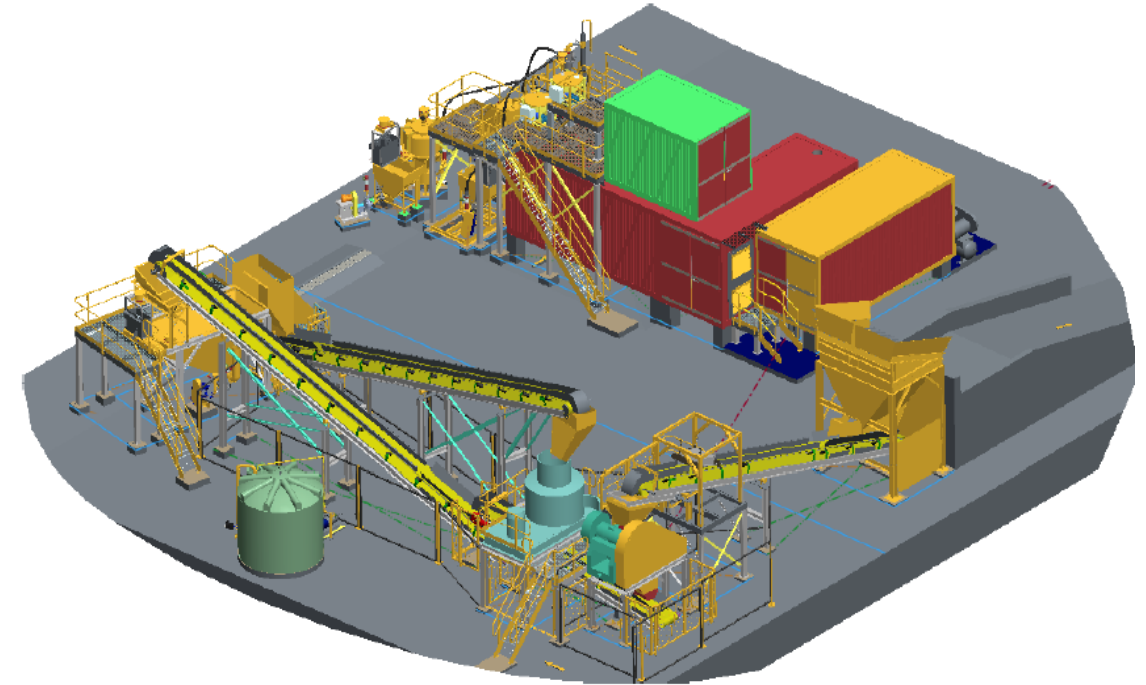




Cascavel – Processing Improvements

Particle Size Distribution

- ▶ Both Hazen Research Inc. and Mining Plus metallurgical reports have indicated that gravity gold recoveries can be improved by delivery of smaller particle size distribution (**PSD**) profile to gravity circuit.
- ▶ However, cost-benefit analysis required wrt increased capital and operating costs that will be incurred in achieving a smaller PSD.



Process Flowsheet

- ▶ Mining Plus have proposed five different process flowsheets for further investigation.
- ▶ Mining Plus to be engaged to undertake preliminary engineering, cost and financial review of options.





Processing Plant – Preliminary Improvements

- ▶ Low cost capital and operational improvements to be undertaken include:
 - *Closing of primarily jaw crusher gap – Nil cost;*
 - *Closing of secondary crusher gap – Nil cost;*
 - *Smaller aperture panels for screen deck - ~ \$A15,000;*
 - *Installation of an Orifice Plate into Inline Pressure Jig (IPJ) to increase hutch pressures – Minimal cost; and*
 - *Installation of sluice box into Knelson tailings stream – ~\$A5,000.*

The aim of the above improvements is to produce an overall smaller PSD and lower tail grade (hence improved recovery)





Improvements – Laboratory

On-Site Laboratory:

- ▶ Currently being constructed.
- ▶ Will provide significantly improved and timely turnaround of assays.
- ▶ Construction due for completion in June 2017.
- ▶ Fit-out due for completion in July 2017.
- ▶ Once constructed, Orinoco can apply for a licence to operate (cannot apply earlier).





- JV with AngloGold Ashanti provides a powerful springboard for long-term growth.
- US\$9.5M exploration earn-in/JV encompasses Faina Goldfields Project outside of Cascavel.
- Outstanding strategic position in a well-endowed Brazilian gold belt.
- Planning for initial drilling programs completed.

Exploration: Driving Our Long-Term Future Growth

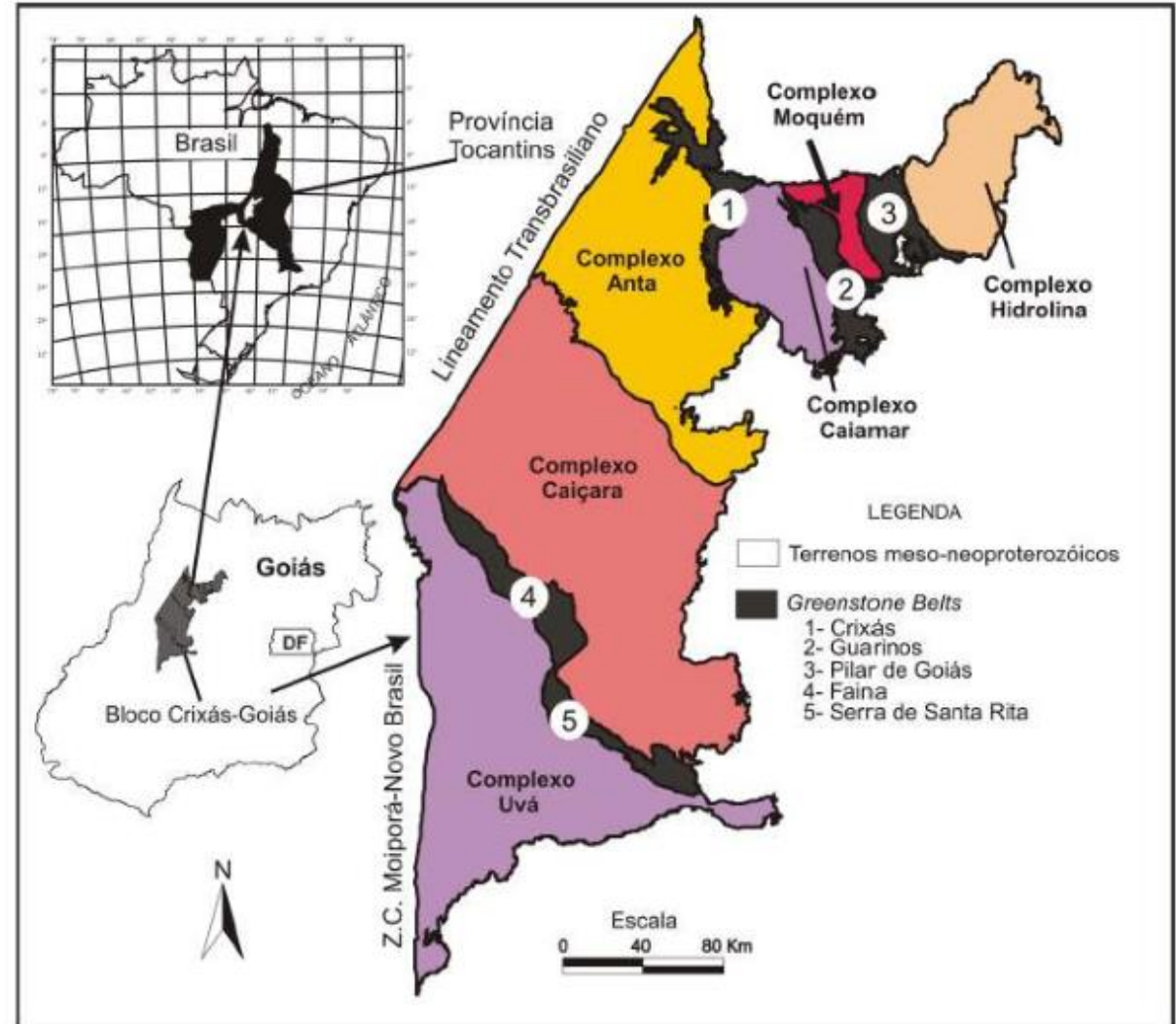




Archaean-Palaeoproterozoic Belts in Goias State

A highly prospective global gold province

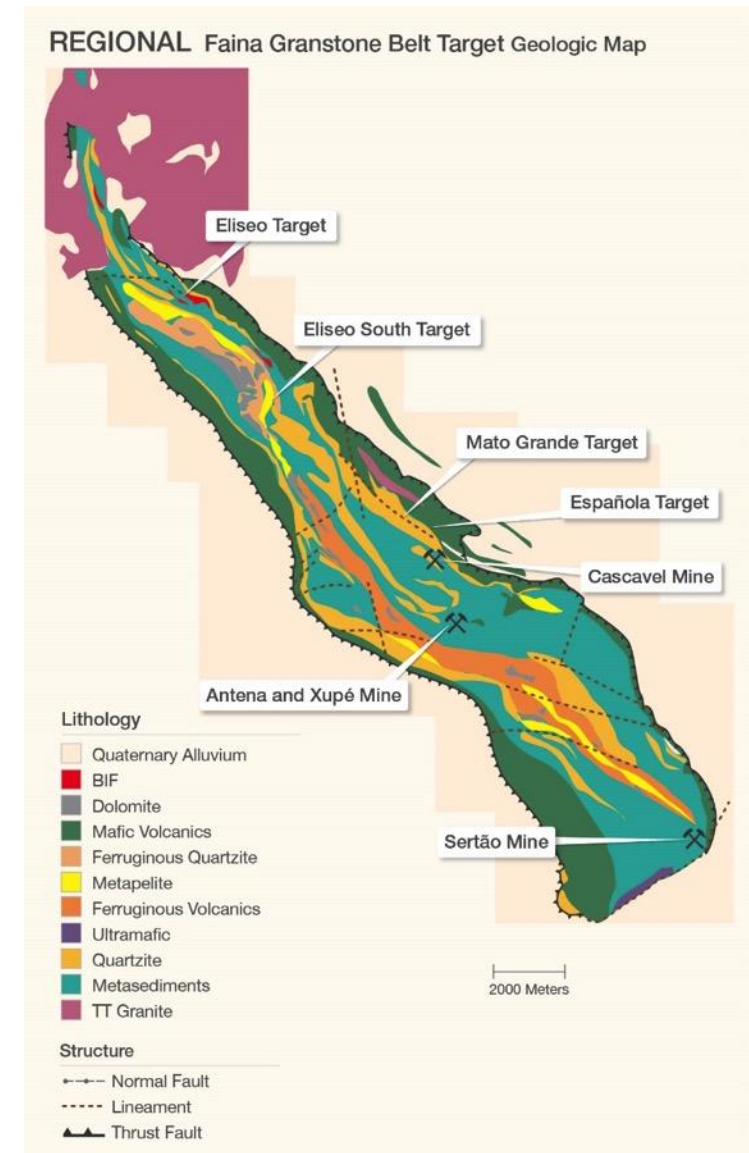
- ▶ One of Brazil's major gold belts – shown in black as Number 4.
- ▶ Significant gold mineralization currently being mined in Goias State.
- ▶ Major mines include:
 - *AngloGold's Crixas Mine (2.3Moz @ 7.8g/t Au, with past production of 3.4Moz); and*
 - *Yamana Gold Inc's Pilar Mine (1.4Moz at 4.1g/t).*





Faina Goldfields Project – Exploration Potential

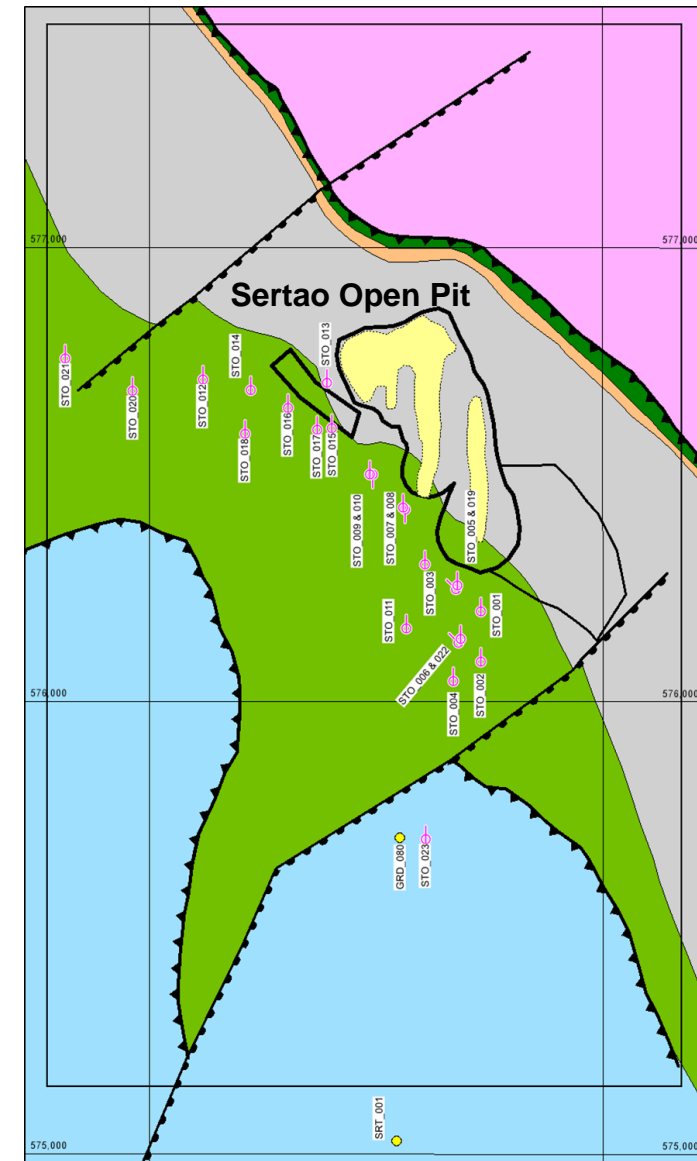
- ▶ WMC sampling:
 - 14,727 samples from stream sediment sampling covering the entire greenstone belt;
 - Chip sampling: 3,713 samples; and
 - Drilling: 18,182m.
- ▶ Troy conducted detailed exploration from 2004 to 2007:
 - Soil sampling: lines every 400m over entire greenstone belt (46,725 samples);
 - 6,143 chip samples; and
 - 71,215m drilling.
- ▶ Drilling: 70% RAB, 15% RC, 15% DDH (80% up to 40m deep) – focus on exploring for oxide ore.
- ▶ 46 positive targets for gold.
- ▶ Companies undertook good exploration work but left the region due to market conditions (A\$400/oz gold price).





Faina Goldfields Project – Short-Term Focus (Sertão)

- ▶ Sertão Gold Project located just 28km from Cascavel.
- ▶ Previously operated as open pit by Troy Resources (2003-2006): historical production of 256koz at 24.95g/t Au.
- ▶ Drilling highlights significant extensions to the mined mineralisation.
- ▶ Opportunity to add resources and become Orinoco's second production site.
- ▶ Orinoco completed a 3,200m drilling programme in Q1 2016.
- ▶ Structural setting has since been reviewed and re-interpreted by Orinoco geological team.
- ▶ Updated resource modelling completed – Report being finalised.
- ▶ First-pass pit optimisations being undertaken to assess potential for cut-backs of historical pit.
- ▶ Planning for next drill program completed as part of AGA Exploration JV earn-in.





- ▶ Significant corporate advancements achieved in recent months:
 - *AngloGold Ashanti Strategic Alliance, cornerstone investment and exploration joint venture;*
 - *100% ownership of Cascavel; and*
 - *Revitalised board and management team.*
- ▶ Significant operational improvements implemented:
 - *Appointment of experienced mining personnel; and*
 - *Revised mining methodology, improved mining equipment.*
- ▶ Cascavel still in a development phase and will be for the next 6 – 9 months whilst the new mining methodology is implemented.
- ▶ AGA joint venture and significant exploration potential at Faina Goldfields Project to deliver longer term benefits for shareholders.





Craig Dawson, Chief Executive Officer (elect)

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Cascavel Gold Project and AngloGold JV

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