

#### **Exploring in the land of giants** The world-class Carajás Mineral Province

- Drilling underway at high-potential Ni-Co Project
- Outstanding IOCG discovery opportunities at Salobo West and Pebas
- Strong leverage to discovery success underpinned by large, high quality asset base

Annual General Meeting – 4 May 2018 Darren Gordon, Managing Director



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The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Roger Fitzhardinge, a Competent Person who is a Member of the Australasia Institute of Mining and Metallurgy and Volodymyr Myadzel, a Competent Person who is a Member of Australian Institute of Geoscientists. Roger Fitzhardinge is a permanent employee of Centaurus Metals Limited and Volodymyr Myadzel is the Senior Resource Geologist of BNA Consultoria e Sistemas Limited, independent resource consultants engaged by Centaurus Metals. Roger Fitzhardinge and Volodymyr Myadzel have sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are 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'. Roger Fitzhardinge and Volodymyr Myadzel consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this report that relates to Ore Reserves is based on information compiled by Beck Nader, a Competent Person who is a professional Mining Engineer and a Member of Australian Institute of Geoscientists. Beck Nader is the Managing Director of BNA Consultoria e Sistemas Ltda and is a consultant to Centaurus. Beck Nader has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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'. Beck Nader consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

All information included in this presentation regarding Exploration Results, Mineral Resources and Ore Reserve estimates was prepared and first disclosed under the JORC Code 2004. This information has been updated to the JORC 2012 Code for the Jambreiro Mineral Resource. The information in relation to the Jambreiro Ore Reserve 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.

All information included in this presentation regarding the Ore Reserve estimate for the Jambreiro Iron Ore Project should be read in conjunction with the ASX announcement dated 5 November 2012. No material change has occurred in any of the conservative pit optimisation parameters used to estimate the Jambreiro Ore Reserve.

Refer to the ASX announcements dated 20 December 2013 and 13 January 2014 for details of the material assumptions underpinning the production target and forecast financial information included in this presentation for the Jambreiro Iron Ore Project. The Company confirms that all the material assumptions underpinning the production target and forecast financial information derived from the production target continue to apply and have not materially changed.

All information contained in this presentation on the Salobo Mine of Vale has been taken from the "Vale Production in 4Q17" Report, its 20-F Annual Report for 2017 and other public domain reports

All information contained in this presentation on the Jacaré Mineral Resource has been taken from Anglo American Presentations "O Depósito de Níquel Laterítico do Jacaré (PA), Brasil" – Simexmin 2010 and Ore Reserves and Mineral Resources Report 2016.

All historical data contained in this presentation on the Pebas Project was sourced from the INV Metals NI 43-101 Technical Report of March 2012 (www.sedar.com)

### **Exceptional Leverage to World-Class Mineral Discoveries**



- Diversified Brazilian resource company with projects in Tier-1 addresses
- Fully-funded for 2018 exploration programs
- Drilling underway at high-grade nickel-cobalt project at Itapitanga – provides an exciting growth opportunity in battery-related metals:

- 5,000m RC drilling program underway

- Significant emerging copper-gold prospects in the Carajás Mineral Province, a world-class IOCG address
  - Salobo West and Pebas Projects drilling Q3 2018
- High-quality iron ore assets retained in portfolio with value to be delivered via divestment or joint development

- discussions ongoing

Outstanding leverage to exploration success with value underpinned by large asset base

Capital Structure	
Shares on Issue	2,281m
Listed Options (EP \$0.01, Exp 31/8/19)	623m
Unlisted Options (EP \$0.008 to \$0.015)	246m
Directors and Management Holding	5.5%
Market Capitalisation (at 1.6c)	A\$36.5m
Cash (incl funds from CTMOA option exercise)	A\$4.5m

Centaurus offers highly leveraged exposure to a rich asset base in Brazil including exciting new greenfields copper-gold and nickel-cobalt projects, aggressive exploration plans and a retained high-quality iron ore portfolio.

### **Brazil – A Mining-Friendly Jurisdiction**

- Latin America's largest economy
- Rapidly growing population (currently ~208 million)
- Low interest rates (by historical standards), low inflation and rising economic growth
- Wide-ranging economic reforms underway labour laws, pension scheme, tax and government royalties
- Strong tenement control system, established Mining Code:
  - Up to 6 years for Exploration Licences, which can be converted to Mining Leases
- No Government ownership in mining projects Government revenue generated from royalties



#### Minas Gerais and Pará are key mining States – strong mining culture, experienced workforce

### The Carajás Mineral Province – The Land of the Giants





- The world-class **Carajás Mineral Province** boasts 10 IOCG deposits with resources of +100Mt Cu-Au, including six of +300Mt, for **+4.0Bt of Cu-Au resources**
- Includes Vale's giant Salobo Mine\*:
  - Reserves of 1.2Bt @ 0.61% Cu, 0.3g/t Au
     Produced ~195kt Cu and ~346koz Au in 2017
- Carajás also hosts the largest high grade iron ore deposits on the planet plus multiple large tonnage nickel deposits
- CTM holds + 250km<sup>2</sup> tenement portfolio located within the world-class Carajás Mineral Province
- Includes Salobo West Cu-Au-Co Project, Pebas Cu-Au Project and Itapitanga Ni-Co Project

\*Vale Data sourced from "Vale Production in 4Q16" Report and its 20-F Annual Report for 2016

The Carajás contains one of the world's largest known concentrations of large tonnage (+100Mt at 0.7–1.5% Cu and 0.3–1.0 g/t Au) iron oxide copper-gold (IOCG) deposits









- Located in the western region of the world-class Carajás Mineral Province
- The project area is 50km NE of the town of Sao Felix de Xingu, accessible all year via unpaved roads
- 110km from Vale's operating nickel mine – Onça-Puma
- 370km from from the regional city of Parauapebas
- Main targets located on farm land and small topographic rises

The Itapitanga Ni-Co Project is well located only 10km from Anglo American's world-class Jacaré Ni-Co Resource and 110km from Vale's large Onça-Puma Ni mine.





The Itapitanga Ni-Co Project is located at the southern extent of Anglo American's world-class Jacaré Nickel-Cobalt Project Resources: 307Mt at 1.3% Ni and 0.13% Co, including a high-grade cobalt resource of 185Mt at 1.2% Ni and 0.18% Co.\*

- Forms part of the southern extension of the ultramafic-mafic intrusive complex (2.8Ga) that hosts the Jacaré deposit
- Vale holds multiple large tonnage Ni-Co resources (unpublished) along the 15km of ground between Centaurus' Itapitanga Project and Anglo's Jacaré deposit
- High-grade nickel-cobalt mineralisation occurs from surface and is associated with the ferruginous laterite of the ultramafic protore
- High-grade nickel mineralisation is associated with the saprolite that underlies the ferruginous laterite – this ore type is mined and processed at the nearby Onça-Puma mine (Vale)

\* Resource data sourced from Anglo American Presentations "O Depósito de Níquel Laterítico do Jacaré (PA), Brasil" – Simexmin 2010 and Ore Reserves and Mineral Resources Report 2016

- The Itapitanga Ni-Co target limits are well defined by lateritic outcrops, limonitic soils and regional magnetic and radiometric signatures
- More than **5.0km of strike** in two main target areas:
  - Northern Target is 3.3km long and up to 500m wide; and
  - Southern Target is 2.0km long and up to 400m wide
- First Exploration Results:\*
  - First two channel samples returned 0.19% Co and 0.18% Co
  - First rock chip samples returned highest grades of 0.52% Co and 1.63% Ni
  - Hand-held auger drilling successfully confirmed high-grade Ni-Cc mineralisation at both targets

\*Refer to CTM ASX Announcement 19 Feb 2018









RC drilling underway at the Northern Target, first assays expected by the end of May

#### **Northern Target**

- 3.3km long and 500m wide zone of high grade nickel-cobalt mineralisation
- 80% of the holes started and finished in mineralisation
- Maximum hole depth achieved is only 12.0m, with most holes reaching drill refusal at 5-8m. Best results include:\*
  - 6.5m @ 0.94% nickel and 0.20% cobalt
  - 8.0m @ 0.59% nickel and 0.16% cobalt
  - 12.0m @ 0.93% nickel and 0.13% cobalt
  - 10.1m @ 1.03% nickel and 0.12% cobalt
  - 10.0m @ 1.07% nickel and 0.12% cobalt
  - 8.0m @ 0.80% nickel and 0.12% cobalt
  - 6.0m @ 1.04% nickel and 0.11% cobalt
  - 8.7m @ 1.21% nickel and 0.10% cobalt
- All intersections are continuous from surface to the end of hole and remain open at depth and along strike

\*Refer to CTM ASX Announcement 27 Mar 2018



#### Southern Target

- 2.0km long and 400m wide zone of high grade nickel-cobalt mineralisation
- Mineralisation is overlaid by 5-10m of low-grade cover, common in nickel-cobalt laterite profiles and as seen in a number of zones of mineralisation at the nearby Jacaré deposit
- Five of the seven auger holes initially drilled into the Southern Target were able to reach the top of the high-grade nickel-cobalt mineralisation, best results include:\*
  - 3.0m @ 0.84% nickel and 0.12% cobalt from 6.0m to 9.0m (EOH)
  - 2.0m @ 1.15% nickel and 0.05% cobalt from 9.0m to 11.0m (EOH)
  - 2.7m @ 1.05% nickel and 0.03% cobalt from 12.0m to 14.7m (EOH)
- The Southern Target mineralisation will be tested exclusively using the RC rig in order to effectively penetrate the thin overburden

\*Refer to CTM ASX Announcement 2 May 2018













- The Carajás Mineral Province has been explored by Vale since the 1970's – has controlled 90% of the province for past 50 years
- Most of the IOCG's in the Carajás were discovered in the 1970s and 1980s using conventional mapping and soil geochemistry programs
- Most IOCG deposits located in an area of 200km x 100km – generally 10-40km between each deposit
- All IOCG deposits hosted in the Itacaiúnas Supergroup and most come to surface
- Modern infrastructure now makes most of the Carajás accessible year-round
- Carajás forms part of the Government's SUDAM regional development program which includes significant tax incentives

Centaurus has secured a unique opportunity at Salobo West in one of the world's most prospective IOCG provinces.





Vale IOCG Deposits in the Cinzento Shear Zone (NW)	Salobo West tenements	
Vale tenure +1,100km <sup>2</sup> - No other company holds significant tenure	CTM granted tenure circa 120km <sup>2</sup>	
All deposits at surface and hosted by the Itacaiúnas Supergroup	Covers 70km <sup>2</sup> of the Itacaiúnas Supergroup	
Associated with regional structures (W to NW and SW-trending lineaments)	Multiple regional structures present (W to NW and SW-trending lineaments)	
Associated with regional scale magnetic and radiometric anomalies	Regional scale mag/rad features present	
Discoveries made in 70-80s via conventional exploration (mapping/soils)	Comprehensive geological, geochemical and geophysical data set, multiple drill ready targets, drilling planned for Q2 2018	
Three Tier 1 deposits (+300Mt Cu-Au resources), multiple exploration targets	TBD	

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#### Project comprises two tenements – SW1 & SW2

- SW1 tenement hosts at least three quality Cu-Au Prospects - SW1-A, SW1-B & Serendipidade
- High-quality Government and historical exploration data providing enormous "head start" for exploration
- Environmental Licence secured from ICMBio for non-ground disturbing exploration in Tapirapeaquiri National Forest
- Drilling Licence application lodged with ICMBio
- Field exploration suspended during the wet season, set to re-start in Q3 2018 after Itapitanga RC drilling complete

All known IOCG deposits in the Carajás located in the Itacaiúnas Supergroup and associated with intersections of major W to NW and SW-trending lineaments – Salobo West ticks all the boxes!





#### SW1-B: Multiple Targets within same Prospect

#### The Cruzamento Zone:

- Located at the intersection of the east-west BIF (Itacaiúnas) and the north-west trending BIF unit of the SW1-A Prospect
- The Cu-Au(-Co) geochem signature is continuous across the zone and the highest gold and sulphur values are located at the convergence point Priority 1 Target

#### **The Central Zone:**

Continuous +2.5km distinct magnetic signature coincident with the strongest and most consistent Cu-Au(-Co) signature of SW1-B

#### The Western Zone:

- Delineated by the continuation of the Cu-Au(-Co) geochemical signature beyond the western end of the magnetic signature
- Mag low response likely due to the demagnetisation of the BIF host, either via the formation of hematite or sulphides

Distinct 6.5km Cu-Au(-Co) anomaly that features three distinct target zones, all of which display similar geological, structural, geochemical and geophysical characteristics to known IOCG deposits in the Carajás





#### SW1-B: Positive Historical Drill Hole

- Anglo American drilled only one hole into SW1-B Prospect\*
- DRI10-FD0010 intersected **4m** @ **0.8g/t Au (incl. 1m @2.0g/t Au)** with 55% Fe from 116m-120m,

Preceded by an interval from 110m-115m with copper values between 0.07-0.2% Cu.

DRI10-FD0010 finished at 130.8m depth, +50m short of the magnetics and IP targets
\*Refer to CTM ASX Appropriate 5 Dec 2017

With multiple positive IOCG indicators – THE COPPER-GOLD TARGET REMAINS UNTESTED!



#### SW1-A Prospect

- Distinct magnetic anomaly, coincident with +3.2km Cu-Au-Fe soil geochemical signature that is locally up to 800m wide
- Hosted in the same stratigraphic sequence and only 15km along strike from Vale's giant Salobo Copper-Gold Mine, arguably the second-biggest IOCG in the world
- 2D modelling of regional aeromagnetic data by Southern Geoscience shows magnetic susceptibility of 0.65 SI – compares very well with Salobo Cu-Au Mine (0.66 SI), as well as having similar geometry
- Situated in a favourable structural corridor and associated with multiple oblique regional structures



Hosted in the same stratigraphic sequence and less than 15km along strike from Vale's giant Salobo Copper-Gold Mine, arguably the second-biggest IOCG in the world





#### Serendipidade Prospect

- +2.5km long x 700m wide Cu-Co-Au-Ag-Mo soil anomaly that is coincident with a strong Electromagnetic (VTEM) response
- Six historical drill holes with near surface oxide intersections that include:\*
- 10m @ 0.09% cobalt and 0.14% copper from 18m in DRI10 FD0004, including 3m @ 0.18% cobalt and 0.31% copper;
- 4m @ 0.16% cobalt and 0.94% copper from 13m in DRI10-FD0005;
- 6m @ 0.07% cobalt and 0.30% copper from 23m in DRI10-FD0005
- Broad sulphide-rich units returned extensive cobalt intersections of up to 124m @ 0.021% cobalt

\* Refer to CTM ASX Announcement 29 Nov 2017

#### Potential high-grade copper-cobalt SEDEX/VMS style target



#### Serendipidade Prospect

- The thick package of graphite-pyrite rich sediments dip shallowly (25-35<sup>0</sup>) towards the south-southwest which is responsible for the broad strong VTEM anomaly
- Any high-grade mineralisation is expected to be associated with feeder faults (or vents) through which the hydrothermal metalliferous fluids flowed into the sedimentary basin which formed the thick graphite-pyrite rich units
- Targets expected to be oblique to the stratigraphy
- The north-south zone of the strongest part of the VTEM anomaly coupled with the NNE-SSW orientation of the regional structures present excellent target corridors
- Historical drilling (north-south) was not orientated optimally to test this type of target with east-west orientated drilling considered optimal

Potential high-grade copper-cobalt SEDEX/VMS style target.







#### SW2 Prospect

- The SW2 Exploration Lease was recently granted in November 2017 just before the regional wet season
- The tenement area covers an extension of the Itacaiúnas Supergroup 12km WNW of the Salobo Mine
- This occurrence of the Itacaiúnas unit appears to be associated with a regional structure that is identifiable from airborne magnetics and radiometrics as well as the existence of a small continuous ridge
- Data review shows a number of soil geochemical anomalies (up to 500ppm Cu), coincident with distinct magnetic and EM anomalies in favourable geological environments

More quality greenfield IOCG targets in the Carajás Mineral Province





#### Canga Prospect – High Grade Iron Ore at Salobo West

- Multiple assays above 65% Fe returned from rock chip samples taken from the outcropping "canga" at Salobo West
- Canga in the Carajás is typically up to 20m thick and is the common geological marker that sits directly over all the world-class iron ore deposits in the region, including Vale's multi-billion tonne deposits
- Canga outcrop has a strike length of more than 900m, is up to 150m wide
- Located at the eastern end of a regional magnetic anomaly that runs east-west across the granted Salobo West tenement (SW1) for a total continuous strike length of some 7km and discontinuous for 10km







#### Canga Prospect – High Grade Iron Ore at Salobo West

- 2D profile modelling shows comparable magnetic susceptibilities and geometries to the magnetic responses over Vale's giant S11D iron ore deposit, located 90km away
- S11D is the largest iron ore mine in the world with Reserves of over 4 billion tonnes at +66% Fe and production currently ramping up to 90Mtpa
- Top of the magnetic model is estimated at 285-390m, indicating the potential depth of the de-magnetising effect of the supergene and hypogene enrichment processes that produces the high-grade hematite ore
- Estimated depth of the S11D magnetic model is 390m
- Reports indicate that S11D has intersected the enriched hematite ore down to these similar depths in drilling



2D profile modelling of aeromagnetic data by Southern Geoscience

# **Pebas Copper-Gold Project**





### **Pebas Copper-Gold Project**



High Grade fault-related Cu-Au-Co target

- Explored in 2010/11 by TSX-listed INV Metals Inc. ("INV")
- 2km long, +500ppm copper-in-soils anomaly generated with +750m long +1000ppm high-grade zone
- Historical drilling in 2010 returned intersections of up to 3.7% Cu within broad zones of mineralisation such as: \*
- 146.9m at 0.21% Cu and 0.08 g/t Au from surface in PRN-DD-37; and
- 105.0m at 0.23% Cu from surface in drillhole PRN-DD-36.
- Project is located in open pasture, less than
   10km from the regional centre of Parauapebas
   allows for easy year-round access

Pebas Cu-Au-Co Project (dashed red line) Soil Geochemistry Soil Geochemistry **INV Drill Collars** Cu ppm Cobalt Isolines nor Collar Location Centaurus Tenements > 500 Exploration Leases 300 - 500 Centaurus EL Applicatio 200 - 300 0 100 - 200 2km Best CTM rock chip to date: 0.51% Cu, 0.75% Co Best historical rock chip: 27.6% Cu, 4.6 g/t Au, Co 626000 628000 630000

\*Refer to CTM ASX Announcement 11 Dec 2017

Gossan outcrop returned rock chip grades of 27.6% Cu, 4.6g/t Au, and 73.1g/t Ag.

# **Pebas Cu-Au Project**





# Two new targets to the east and north-east of the main Pebas Project area

- 1. Pebas East zone consists of a 1.2km long, +300ppm copper anomaly coincident with a magnetic signature
- 2. Pebas North-east located 2.5km to the north-east of Pebas, is a 500m long and up to 500m wide, +500ppm copper anomaly

- Fault-related IOCG target that remains untested, INV drill spacing in 2010 was on 300m sections and didn't test the fault
- Comparable soils anomaly (+1000ppm Cu) and hosted in a similar geological setting to the Antas Norte Cu-Au Mine (Avanco)
- Just 25km away, Antas Norte's high-grade ore is roughly 60m thick, has a strike of 700m and is one of the highest grade copper mines in the world with a mine head grade of ~2.6% Cu



# **Jambreiro Iron Ore Project**





### **Jambreiro Iron Ore Project**





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### **Jambreiro Iron Ore Project**







#### Jambreiro – A Development-Ready Project

- Environmental and Mines Department approvals received for a 3Mtpa wet processing operation
- Mining Leases granted
- 10-year land access agreement signed in 2012 with option to extend
- Positive Feasibility Study completed in November 2012 for 2Mtpa Project
- Initial production rate revised to 1Mtpa in 2013 to reduce start-up CAPEX for Centaurus to R\$109M (~US\$50M at 2013 FX rates) using imported modularised plant
- Ideally positioned to be a consistent and reliable supplier of highquality, low impurity iron ore to domestic steel mills
- 🕨 In-pit friable Ore Reserve: 48.5Mt @ 28.1% Fe
  - ~18Mt of high-grade, low impurity product
  - 65% Fe, 4.7% SiO<sub>2</sub>, 0.7% Al<sub>2</sub>O<sub>3</sub> and 0.02% P
  - Product quality confirmed by local steel mills

### **Centaurus – Key Investment Takeaways**





- Outstanding package of copper-gold and nickel-cobalt projects in the Tier-1 location of the Carajás Mineral Province, northern Brazil
- 5,000m RC program underway at exciting new Itapitanga Ni-Co Project
- World-class IOCG discovery opportunities at Salobo West and Pebas
- Exploration programs well advanced strong upcoming news-flow
- Well funded after heavily oversubscribed share placement to sophisticated investors and recent exercise of listed options

Centaurus offers highly leveraged exposure to a rich asset base in Brazil including exciting new greenfields copper-gold and nickel-cobalt projects with the potential to deliver significant value in the short-term.



#### **Contact Information**

T: +61 8 6424 8420 E: office@centaurus.com.au W: www.centaurus.com.au

