

## Jaguar: a globally significant nickel sulphide project for a clean energy future

Developing a long-life nickel project in the heart of Brazil's premier Carajás Mineral Province

**EUROZ HARTLEYS**

Euroz Hartleys Rottnest Conference - March 2021  
Darren Gordon, Managing Director



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- The information in this report that relates to Exploration Results is based on information compiled by Mr Roger Fitzhardinge who is a Member of the Australasia Institute of Mining and Metallurgy. Mr Fitzhardinge is a permanent employee and shareholder of Centaurus Metals Limited. Mr Fitzhardinge 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 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Fitzhardinge consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.
- The information in this report that relates to the new February 2021 Jaguar Mineral Resources is based on information compiled by Mr Lauritz Barnes (consultant with Trepanier Pty Ltd) and Mr Roger Fitzhardinge (a permanent employee and shareholder of Centaurus Metals Limited). Mr Barnes and Mr Fitzhardinge are both members of the Australasian Institute of Mining and Metallurgy. Mr Barnes and Mr Fitzhardinge have sufficient experience of relevance to the styles of mineralisation and types of deposits under consideration, and to the activities undertaken to qualify as Competent Persons 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. Specifically, Mr Fitzhardinge is the Competent Person for the database (including all drilling information), the geological and mineralisation models plus completed the site visits. Mr Barnes is the Competent Person for the construction of the 3-D geology / mineralisation model plus the estimation. Mr Barnes and Mr Fitzhardinge consent to the inclusion in this report of the matters based on their information in the form and context in which they appear.
- All information contained in this presentation on the Salobo Mine of Vale has been taken from the "Vale Production in 4Q18" Report, its 20-F Annual Report for 2018 and other public domain reports including their 2018 Vale Day presentation



# Centaurus Metals

## A compelling nickel investment



- **Developing the Jaguar Nickel Sulphide Project**
- Located in the **world-class Carajás Mineral Province** – home to Vale, extensive regional mining infrastructure and some of the world’s largest deposits
- Globally significant Resource:
  - **557,800 tonnes of nickel metal**
    - 58.6Mt @ 0.95% Ni (Indicated and Inferred)
    - 80% of nickel tonnes within 200m of surface
  - **Indicated Resource** increased by 50% to now be 19.9Mt @ 1.12% Ni for:
    - **223,400 tonnes of nickel metal**
  - **Multiple growth opportunities from extensional and step-out drilling and new discoveries**
  - **65,000m to be drilled over next 12 months – 5 rigs on site – more to come.**
  - **Scoping Study advancing well** targeting a long-life, sustainable source of Class-1 nickel for global markets



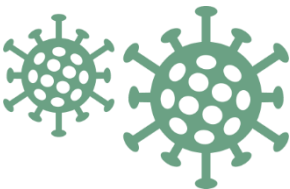
# Centaurus

## Our COVID-19 response



- **Centaurus continues to work closely with the health authorities in the local municipalities to ensure the health and safety of its people and the community**
- Community Support:
  - Test kits as well as medical PPE (masks, coveralls and hand sanitiser) purchased and donated to the local health services of Tucumã and Sao Felix do Xingu
- Business-continuity precautionary measures in place including:
  - Enhanced sanitisation procedures
  - Site team separated into multiple shifts and teams
  - Daily health screenings
  - COVID-19 testing of Tucumã team monthly as well as all new arrivals to site – Full time nurse employed to undertake tests and support OHS team
  - Elimination of all non-essential travel

Centaurus been able to manage its drilling programs in a safe and sustainable manner





# Centaurus

## Social Integration

### Strong community support for Jaguar Project

Centaurus' ESG program is based on a combination of the TSM with PRI principles as they relate to exploration and pre development activities

Current social integration initiatives include:

- Employees working on the project now residing in the local town, solidifying relationship between the Company and the community with >90% of the workforce from the SE region of the State of Pará.
- Construction/improvement of a 100 person site camp in order to mitigate risk of Covid-19 transmission during working week;
- Construction of bridges, installation of culverts and upgrade of road between the town and the site.
- Partnership with the two nearby villages to improve their sanitation systems (waste disposal, water supply and sewage treatment).
- More than 80% of supplies made in respect to the exploration and development has been awarded to the local community



# Corporate Summary



Capital Structure	March 2021
Shares on Issue	329.3m
Listed Options (EP \$0.18, Exp 31/5/21)	27.3m
Unlisted Options	13.1m
Top 20 Holders	61.5%
Market Capitalisation (\$0.72)	A\$237.1m
Cash as at 31 December 2020	A\$24.1m

## Board and Management Team – Extensive Brazil & Nickel Sulphide Experience

Didier Murcia	Chair
Darren Gordon	Managing Director
Bruno Scarpelli (Brazil)	Executive Director and Brazil Country Manager
Mark Hancock	Non-Executive Director
Chris Banasik	Non-Executive Director
Roger Fitzhardinge	Operations Manager - Nickel
John Westdorp	Chief Financial Officer
Gaudius Montresor (Brazil)	Exploration Manager
Antonio Kalil (Brazil)	Environmental Manager
Antonio Campos (Brazil)	OHS Manager
John Knoblauch	Principal Metallurgist
Rocky Osborne	Principal Geoscientist

## Substantial Shareholders

Sprott Inc.	10.6%
McCusker Holdings Pty Ltd	7.6%
Dundee Corporation	5.1%
Board and Management	4.0%

## Broker Research

		Date
Euroz Hartleys	Jon Bishop	4 February 2021
Sprott	Brock Salier	4 February 2021
Argonaut	George Ross	8 February 2021







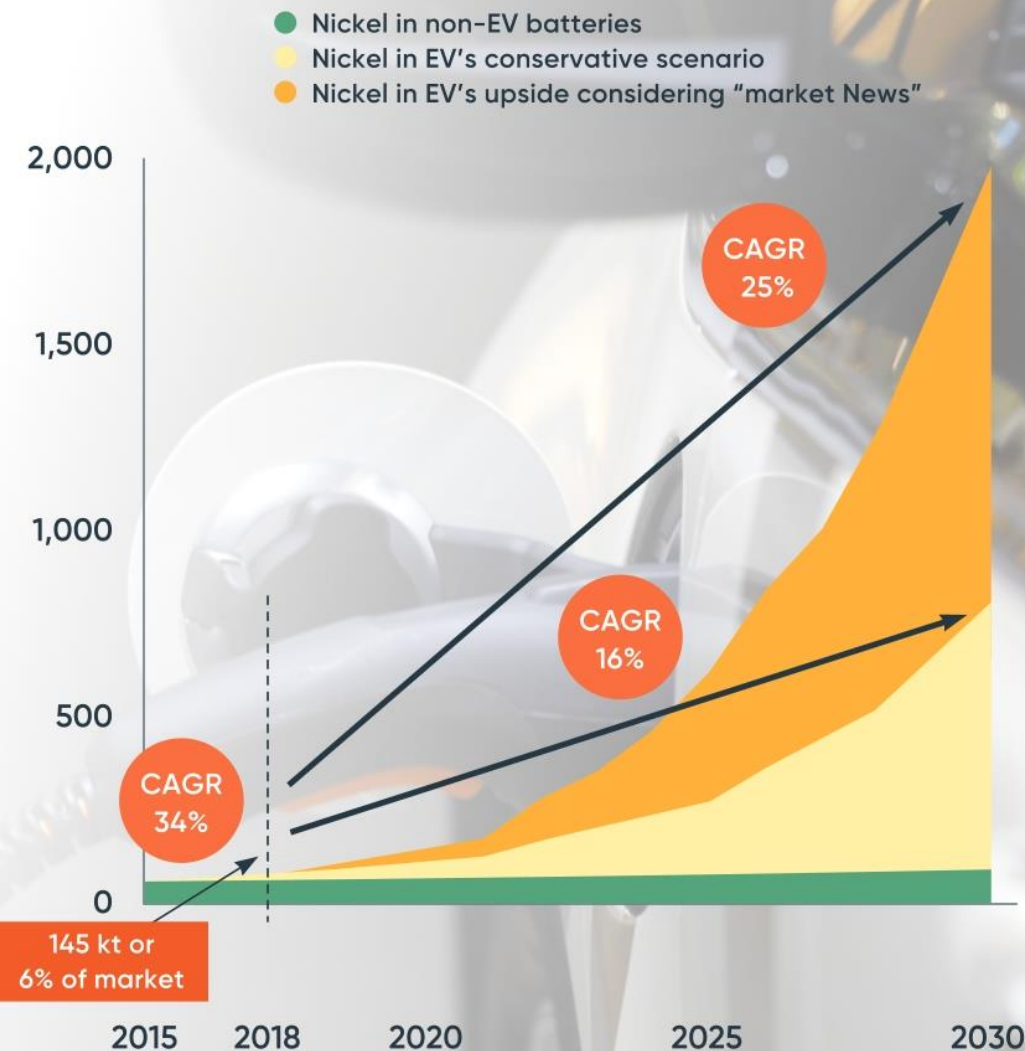
# A New Era of Nickel Sulphide Demand

## The looming clean energy revolution

- Current nickel market size ~2.5Mt
- Nickel demand for batteries growing strongly but from a low base – still only 145,000t or 6% of market
- Depending on the scenario for the EV rate of adoption, **nickel volumes to meet this additional demand vary between 750,000 tonnes and 2 million tonnes**
- Market looking for “green” nickel - CTM can deliver this

### WHERE IS THE NEW SUPPLY COMING FROM?

- EVs require Class-1 nickel
- To achieve green nickel production, Class 1 requirement will preferably come from sulphide sources - secondly HPAL sources.
- **Unlikely any green EV battery maker will source its nickel from NPI**
- Sulphide projects carbon footprint significantly lower than HPAL (and NPI conversion to matte)



Source: Vale, Terra Studio

# Centaurus Metals

## Our vision



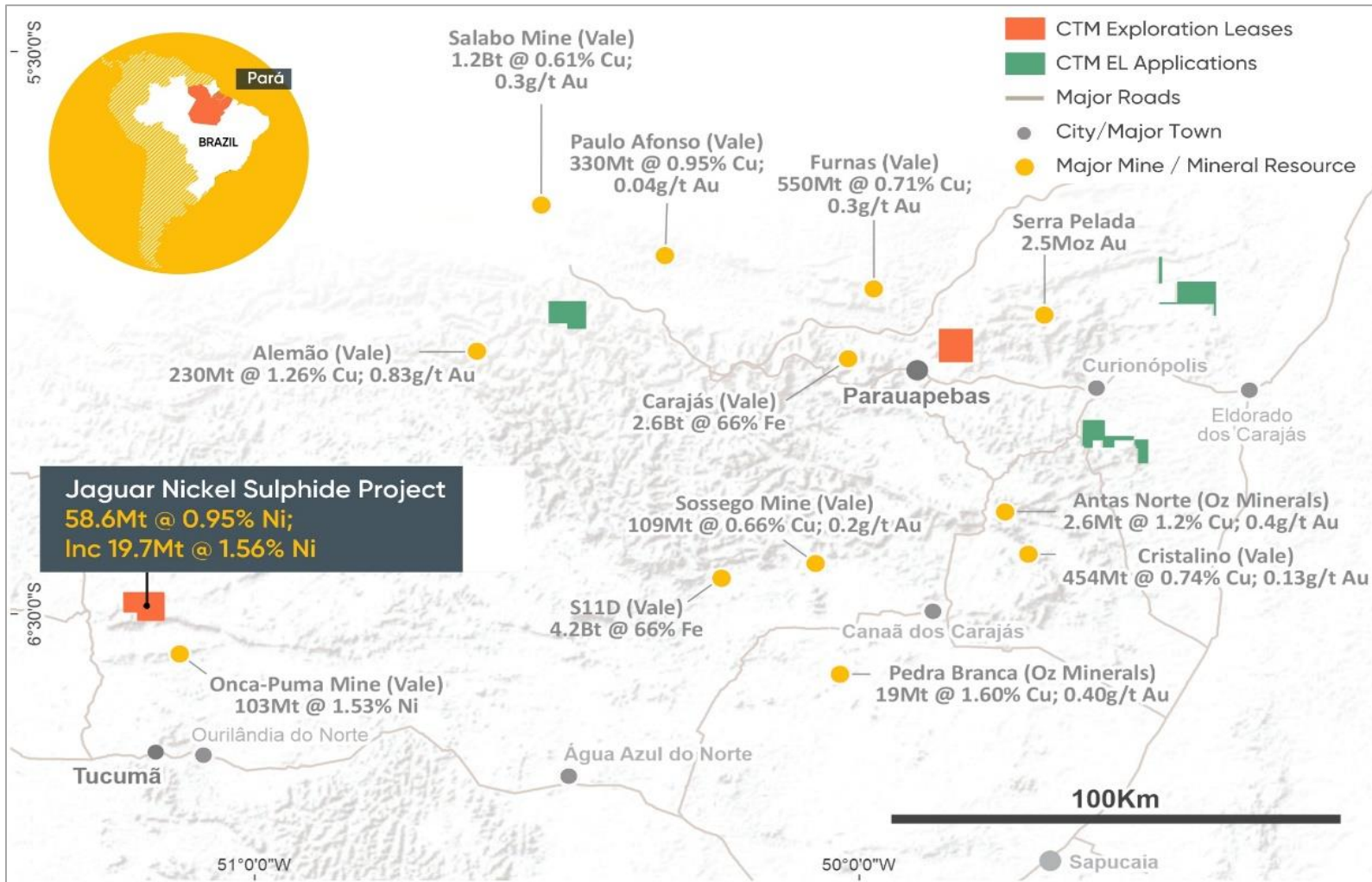
Underpinned by a high-quality asset at Jaguar, we are well placed to deliver on our aspiration to be a clean and efficient **20,000-plus tonne per annum nickel** producer by the end of 2024 to assist in the global transition to electrification and to meet anticipated surging demand for key battery metals.





# Brazil's Carajás Mineral Province

## A Tier-1 global mining province



- One of the world's most prolific mining regions – effective industrial zone of Brazil
- Extensive infrastructure to support project development
- 10 IOCG deposits with resources of +100Mt Cu-Au for **+4.0Bt of Cu-Au resources, including** Vale's giant Salobo Mine which hosts Reserves of 1.2Bt @ 0.61% Cu, 0.3g/t Au
- Hosts the largest high-grade iron ore deposits on the planet, plus multiple large nickel laterite mines and deposits

### AND NOW

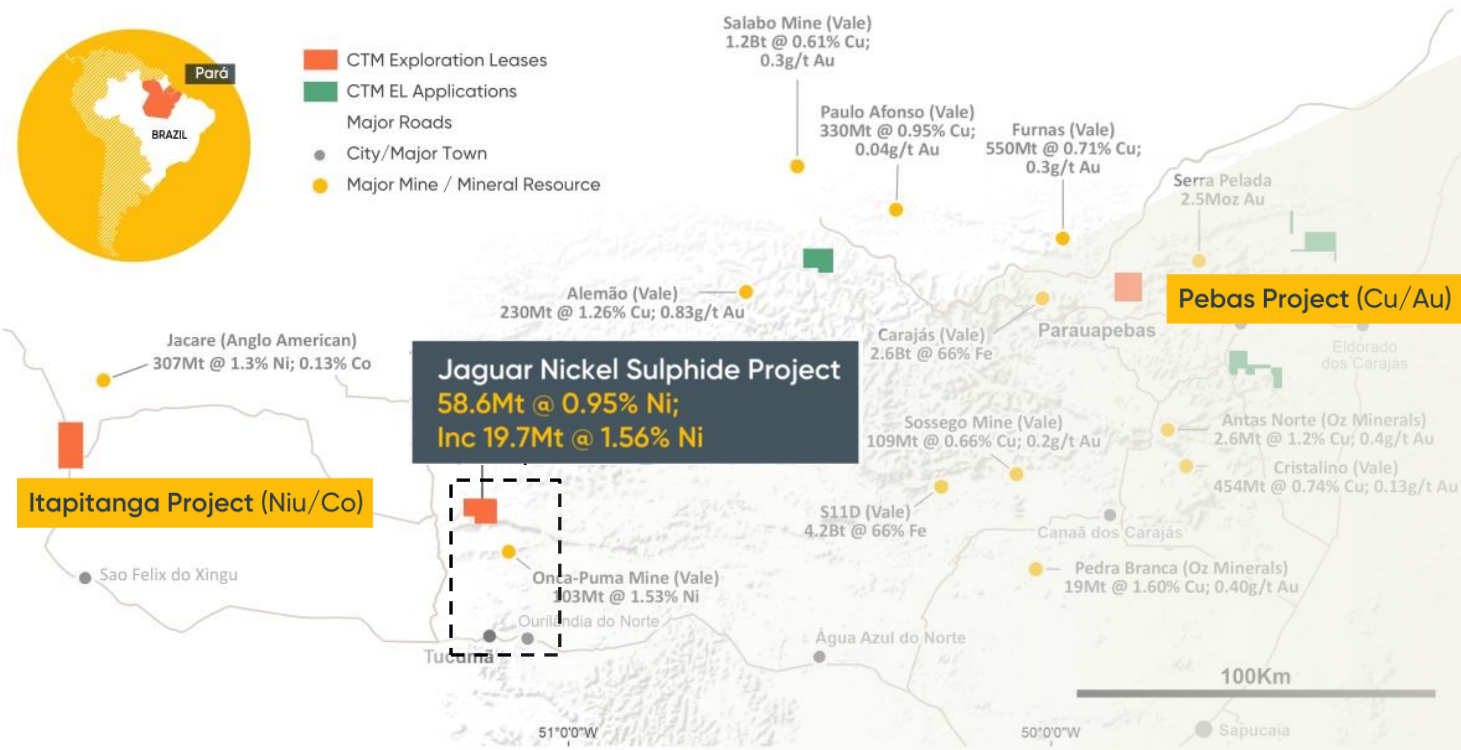
- Hosts one of the largest near-surface undeveloped nickel sulphide resources globally – **the Jaguar Nickel Sulphide Project**

The Carajás contains one of the world's largest known concentrations of large-tonnage mineral deposits



# Brazil's Carajás Mineral Province

## Outstanding infrastructure and logistics



- 40km north of regional mining centres of Tucumã and Ourilândia do Norte (population ~70,000) – mining towns with strong skilled workforce
- **High-Voltage (138kV) grid power to be accessed from Tucumã sub-station** – 80% of power generation in Brazil is from renewables (mainly hydro and solar) resulting in low cost, clean power (less than US\$0.10/kWh)
- **Mining Lease Application lodged and Land Access Agreements in place**

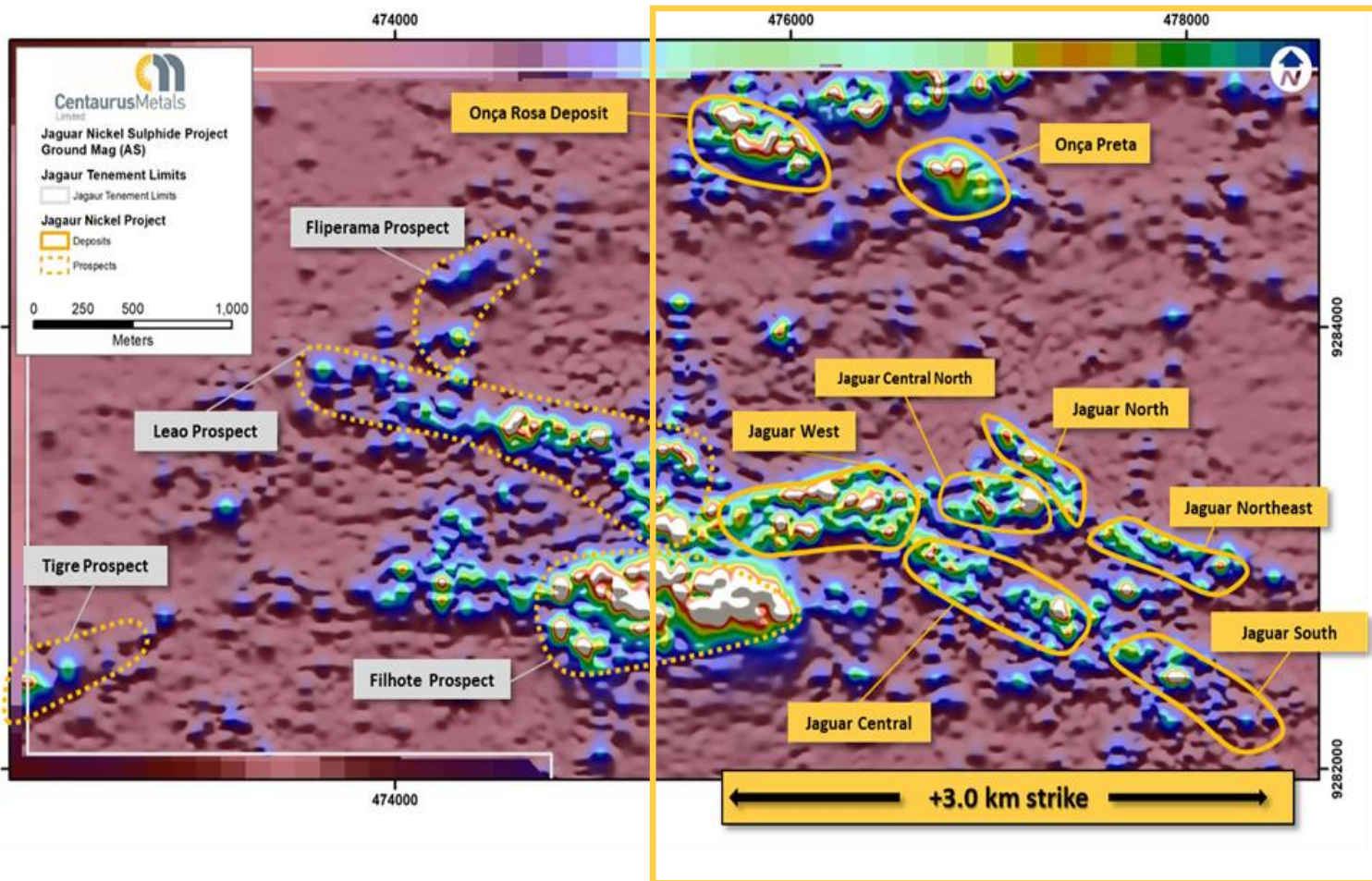




# Jaguar Project Overview

A large-tonnage, high-quality resource from surface

JORC Mineral Resource Estimate : **58.6Mt @ 0.95% Ni for 557,800 tonnes of contained nickel metal**



- JORC MRE based on more than 74,000m of diamond drilling
- 80% of MRE is within 200m of surface
- 40% of MRE (contained metal) is now in Indicated Category
- Mineralisation remains open at depth and along strike
- Significant potential to increase size of MRE with further drilling

High-grade component:  
**19.7Mt @ 1.56% Ni for 306,900 tonnes of nickel metal**



# Jaguar Project Overview

## A large-tonnage, high-quality resource at surface

**Global: 3.2Mt at 0.88% Ni for 28,500t contained Ni**

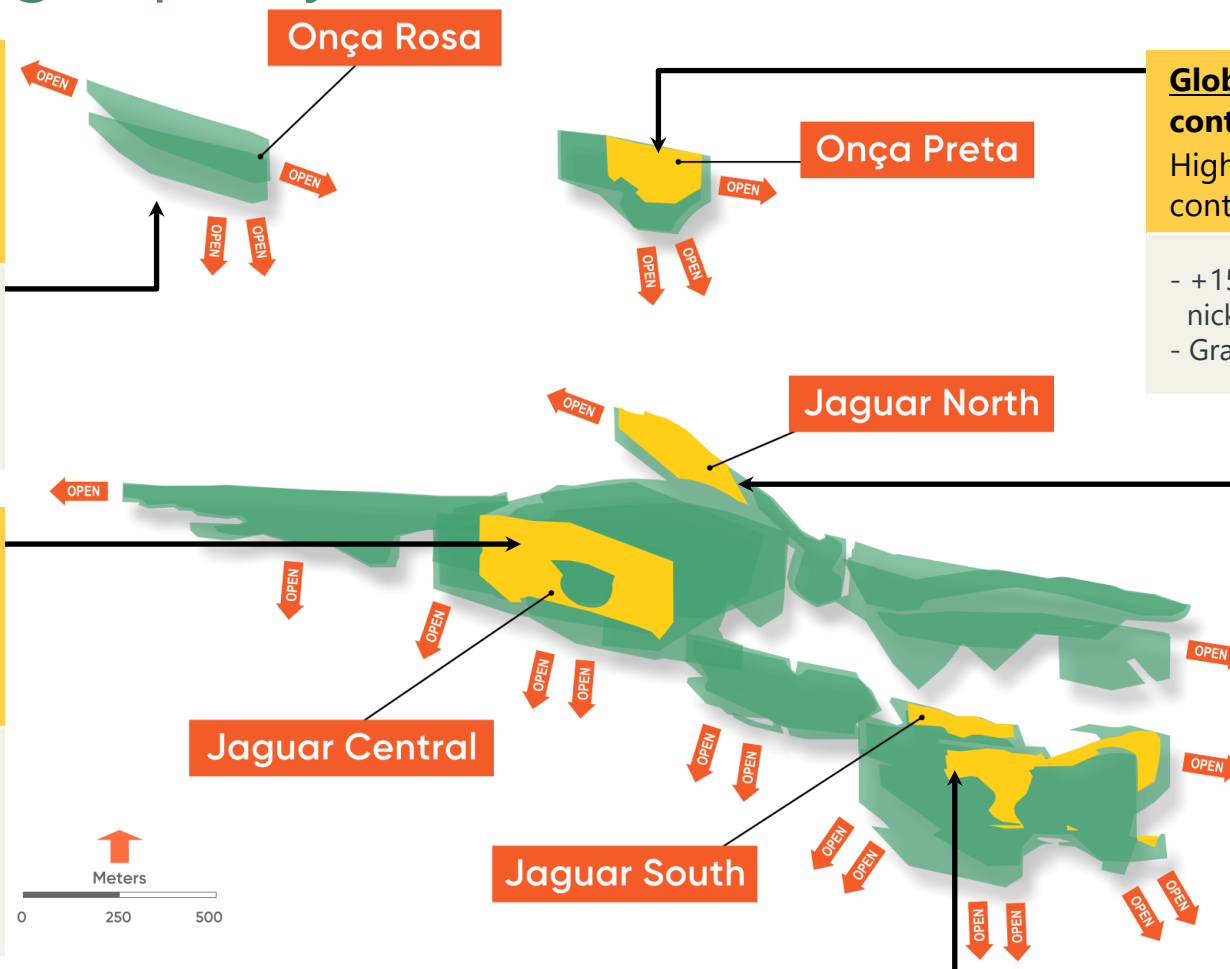
High-grade: 0.8Mt at 1.97% Ni for 16,300t contained Ni

- 600m long FLEM plate at major regional structural intersection
- Step-out drilling to test DHEM conductors at depth – close to potential source of the hydrothermal nickel sulphide plumbing

**Global: 10.2Mt at 1.00% Ni for 102,400t contained Ni**

High-grade: 4.1Mt at 1.52% Ni for 61,800t contained Ni

- 500m strike of semi-massive nickel sulphide from surface to +300m depth
- Shallow plunging mineralised shoot from surface ideal for early access to low-strip high-grade mineralisation
- Open along strike and down-dip



**Global: 3.3Mt at 1.58% Ni for 53,000t contained Ni**

High-grade: 2.8Mt at 1.75% Ni for 48,300t contained Ni

- +150m strike of semi-massive and massive nickel sulphides from surface to +300m depth
- Grade and width increasing and open at depth

**Global: 3.3Mt at 1.09% Ni for 35,900t contained Ni**

High-grade: 1.7Mt at 1.44% Ni for 24,000t contained Ni

- 400m strike of semi-massive nickel sulphides from surface to +300m depth
- Open along strike and down-dip

**Global: 18.7Mt at 0.97% Ni for 181,300t contained Ni**

High-grade: 6.5Mt at 1.59% Ni for 103,900t contained Ni

- High-grade from surface and open along strike and at depth
- Step-out drilling planned to test DHEM conductors and down-dip extensions

### Resource Classification

- Indicated
- Inferred



# Jaguar Project Development

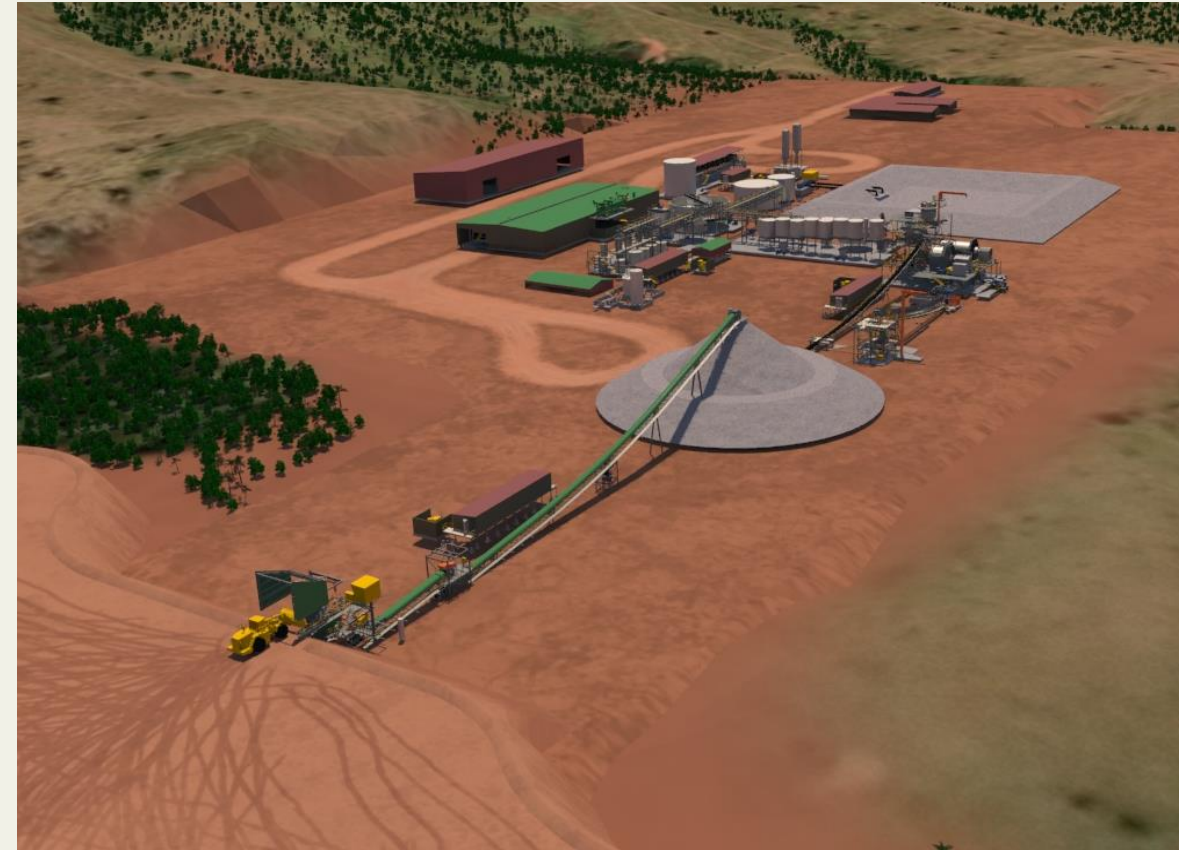
## Base Case Scoping Study coming soon

Scoping Study due Q1 2021

- Study being progressed with support of industry-leading consulting groups **Entech and DRA Global**
- Flotation tests deliver up to 80% nickel recoveries\* from Jaguar South and Onça Preta ore – Jaguar Central and North testing underway.
- Base case is for **the production of high quality nickel concentrate using conventional nickel flotation process**

### Significant Fiscal Benefits

- **Income Tax Rate of 15% for the first 10 years** likely to be available to the Company, once the project is operational
- **Power costs in Brazil are low**, with Centaurus likely to be able to source power for less than US\$0.10/kWh



The Base Case development pathway for Jaguar is based on the construction of a Concentrator with low capital intensity using conventional nickel flotation to produce a high-grade concentrate.

\* See ASX Announcement of 31 March 2020 for further details of the preliminary metallurgical testwork and results

# Jaguar Project – Value-Add Case

## Scoping Study In Progress

### Value-adding opportunities

- **Scoping Study to consider value-adding opportunities** including Pressure Oxidation (POx) to produce nickel metal or nickel sulphate
- Initial POx testing at ALS has delivered excellent results with **extractions of nickel, copper and cobalt all exceeding 99%**
- Key economic drivers to the viability of the POx value-adding route are the Project's location in north-eastern Brazil, which means:
  - **Access to low-cost, clean energy** (+80% renewables)
  - **Relatively low-cost skilled labour market**
  - **Access to low-cost residue neutralisation material**
  - **Availability of high-quality fresh water**





# Jaguar Project

## Environmental licensing underway



### Fast-tracking Approvals

- Initial drilling licence secured through to October 2022
- Significant amount of environmental data historically collected by Vale for use by CTM in approval process
- Terms of reference received from SEMAS for main environmental study (EIA/RIMA)
- 100% of wet and dry season data collected for use in EIA/RIMA work
- Majority of the project footprint already disturbed (pasture land)
- Partnership in place with municipality to upgrade roads
- Very strong community support for the project
- Target date to lodge **EIA/RIMA – Q2 2021**



# Jaguar Project Targeted Development Timeline



● Q1/2021 – MRE Upgrade & Scoping Study Results

● Q2/2021 – Lodge Key Environmental Licence

● Q4/2021 – Pre-Feasibility Study

● Q4/2022 – Definitive Feasibility Study

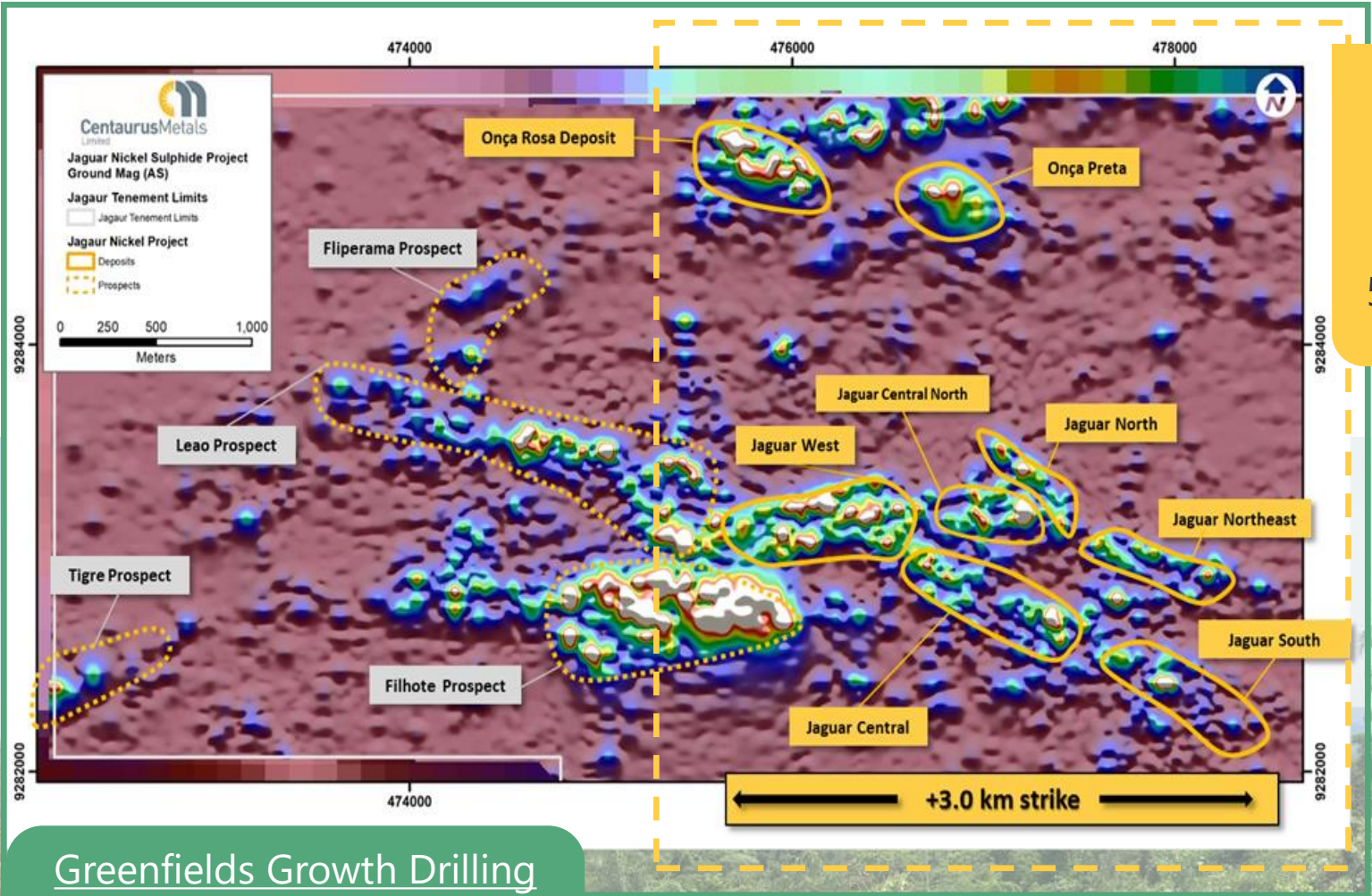
● Q3/2023 – Formal Decision to Mine





# Jaguar Project – Growth and Upside

## 65km of development & growth drilling underway



Resource Development & Growth  
20km of in-fill and extensional drilling  
15km of step-out drilling  
5km of geotechnical & metallurgical drilling

Greenfields Growth Drilling  
25km drill program now underway



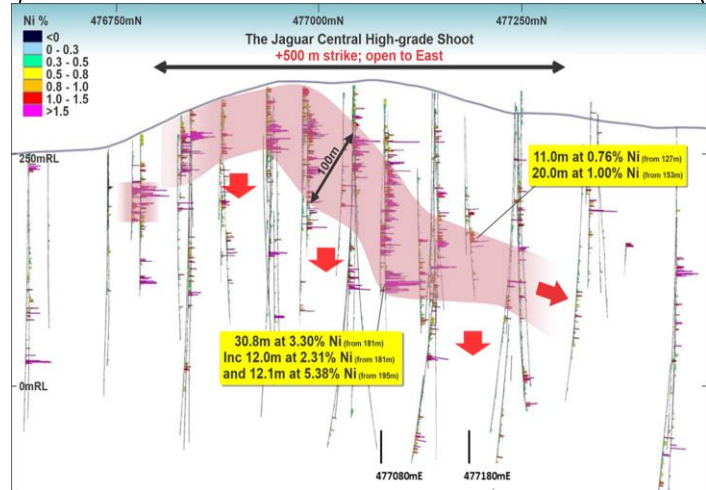
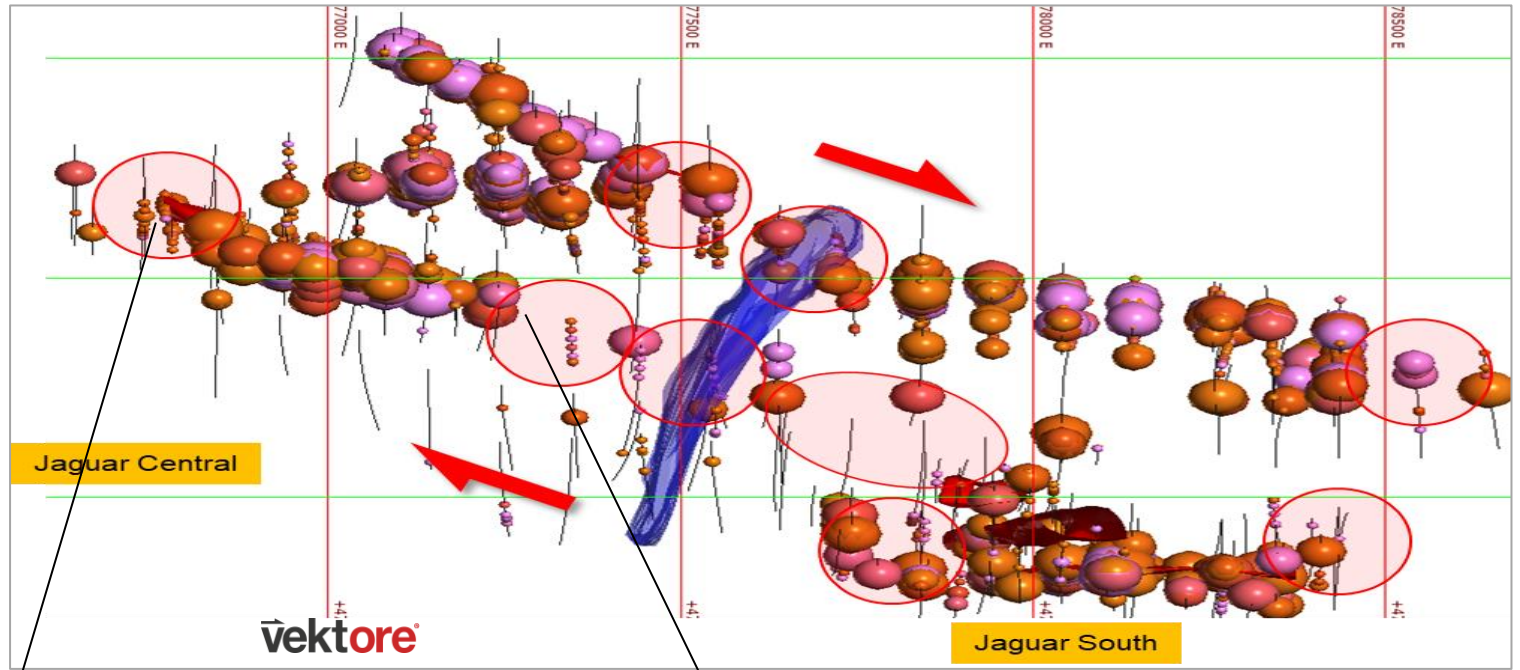


# Jaguar Project – Growth and Upside

## Structural model - targeting more high-grade



**JAG-DD-20-104 – 195.3m to 207.4m down-hole  
12.1m at 5.38% Ni, 0.31% Cu and 0.09% Co**

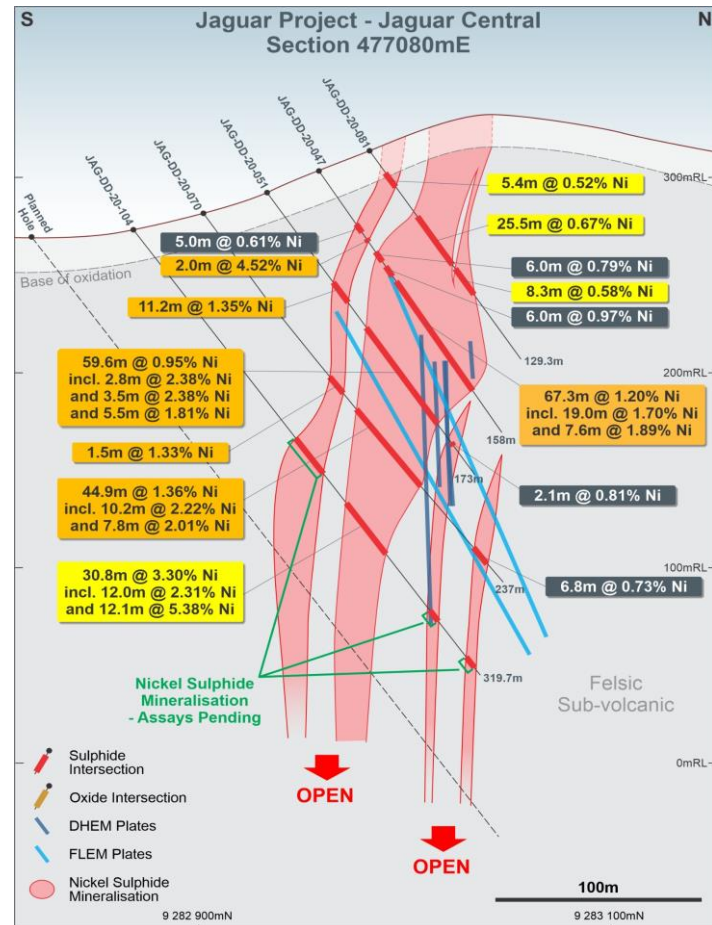


**High-grade structural traps  
in the ductile 'Z-structures' -  
are there more HG shoots  
like Jaguar Central and  
Jaguar South?**



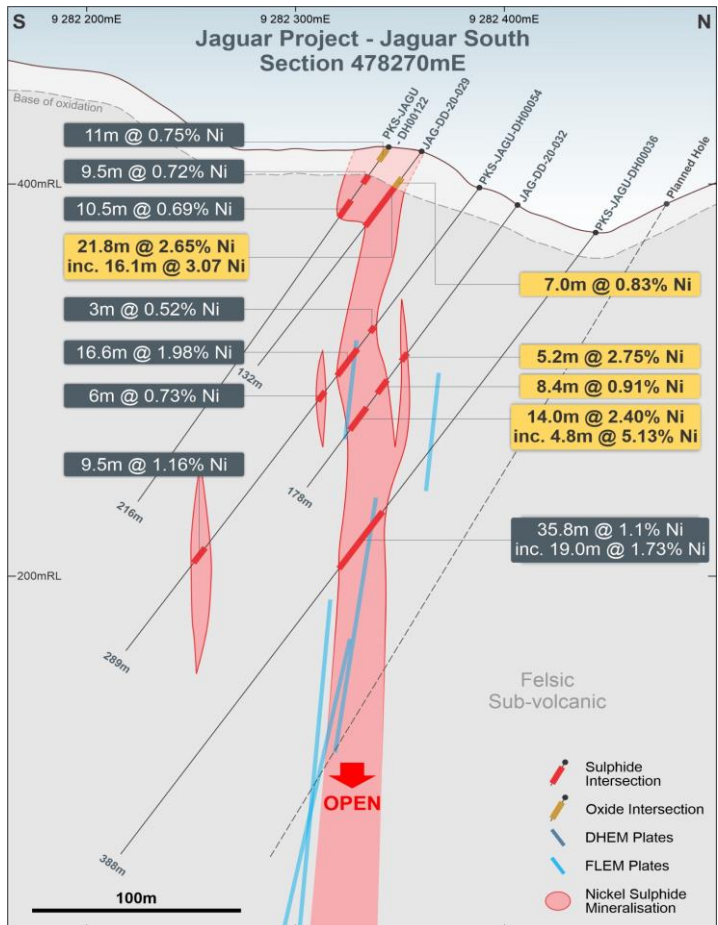
# Jaguar Project – Growth and Upside

## Deep plumbing system remains open and untested



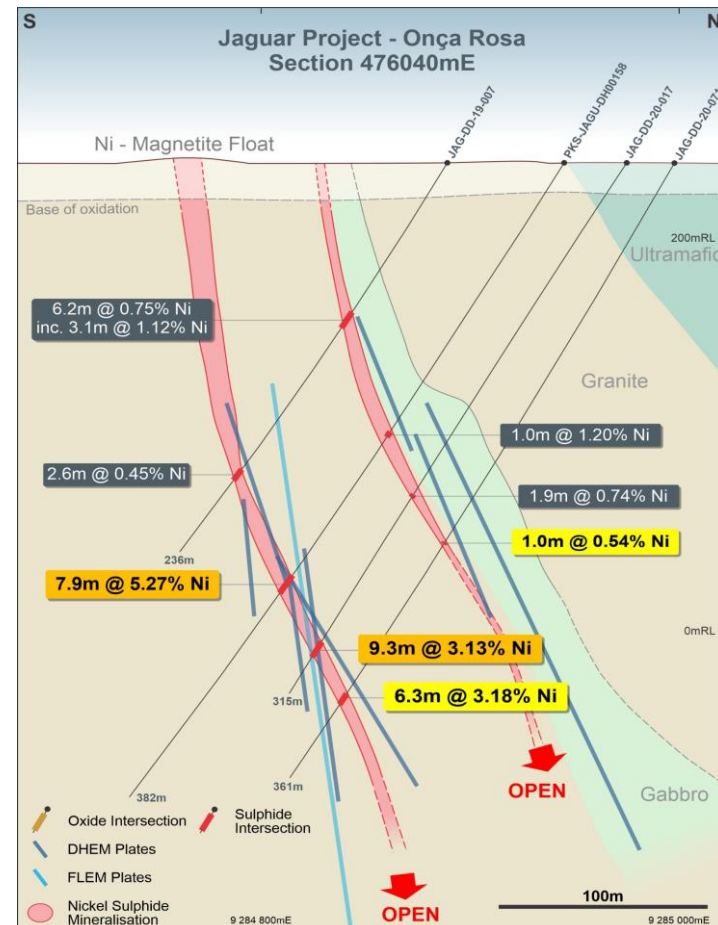
200m

Untested



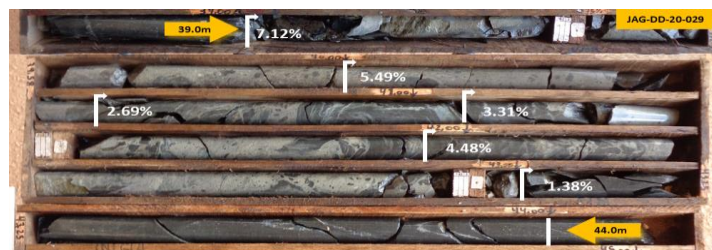
250m

Untested

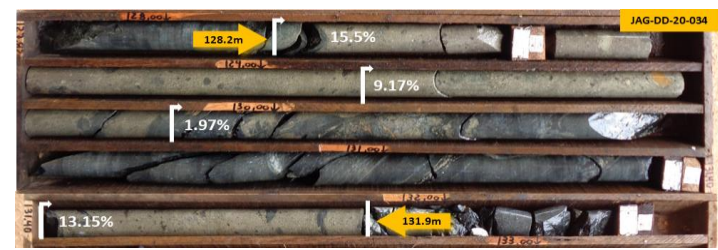


300m

Untested



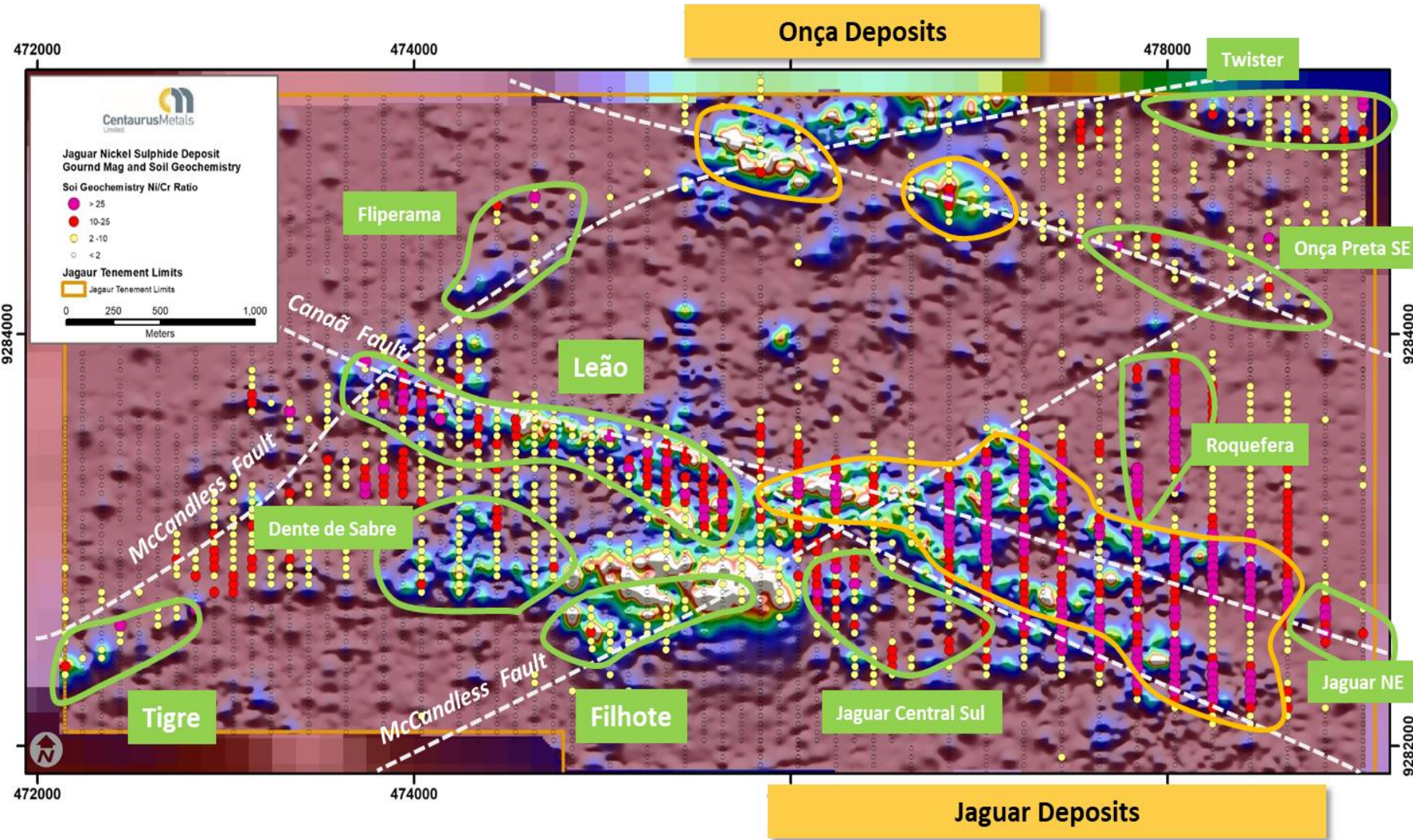
DHEM to drive deep massive sulphide discoveries





# Jaguar Project – Growth and Upside

## Near-mine exploration upside



- Multiple untested prospects
- Coincident GeoTEM, Ground Mag and Geochem targets
- Detailed Ground Mag – completed
- FLEM – underway
- Soil sampling & mapping – underway

25km regional drilling program underway



# Centaurus

## Key investment takeaways

- **Nickel focus** – high-grade nickel sulphide asset leveraged to strong long-term nickel market outlook
- **Favourable project location** – Carajás Mineral Province
- **Globally Significant Maiden JORC Resource** – 58.6Mt @ 0.95% Ni for 557,800t of contained nickel including **Indicated component of 19.9Mt at 1.12% Ni for 223,400t** of contained nickel
- **80% of MRE is within 200 metres of surface**
- **High Grade MRE** of 19.7Mt @ 1.56% Ni for 306,900t of contained nickel
- **Resource growth and development** – deposits open at depth and along strike with outstanding potential for resource growth with further drilling (in-fill and step-out drilling underway)
- **Greenfields growth** – Multiple prospects with walk-up drill targets – RC drilling underway
- **Scoping Study advancing well - to be delivered Q1 2021**
- **Well funded** – over \$24.0 million in cash at 31 December 2020

**Centaurus represents a rare opportunity to invest in a rapidly unfolding high-grade nickel sulphide growth story in Brazil, at the perfect time in the nickel market cycle.**



## Jaguar: a globally significant nickel sulphide project for a clean energy future

Authorised for Release by Managing Director – Darren Gordon

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