



**CentaurusMetals**  
Limited ASX : CTM

## Jaguar: Accelerating towards the world's next green nickel project

A long-life nickel sulphide project in Brazil's Carajás, ready to plug-in to the lithium-ion battery boom

**EUROZ HARTLEYS**

Euroz Hartleys Rottneest Conference - March 2022  
Roger Fitzhardinge, GM - Exploration & Growth



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- The Scoping Study referred to in this presentation has been undertaken for the purpose of initial evaluation of a potential development of the Jaguar Nickel Sulphide Project. It is a preliminary technical and economic study ( $\pm 40\%$ ) of the potential viability of the Jaguar Nickel Sulphide Project. The Scoping Study outcomes, Production Target and forecast financial information referred to in this presentation are based on low accuracy level technical and economic assessments that are insufficient to support estimation of Ore Reserves. While each of the modifying factors was considered and applied, there is no certainty of eventual conversion to Ore Reserves or that the Production Target itself will be realised. Further exploration and evaluation work and appropriate studies are required before Centaurus will be in a position to estimate any Ore Reserves or to provide any assurance of an economic development case.
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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 December 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.
- The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the original market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the competent persons findings have not been materially modified from the original announcement.
- This presentation contains information extracted from the Company's ASX market announcements dated 29 March 2021 and 31 May 2021 which are available on the Company's website at [www.centaurus.com.au](http://www.centaurus.com.au). The Company confirms that that all material assumptions underpinning the Jaguar Project Scoping Studies as detailed in the ASX market announcements of 29 March 2021 and 31 May 2021 continue to apply and have not materially changed.

# Centaurus Metals

## Our vision

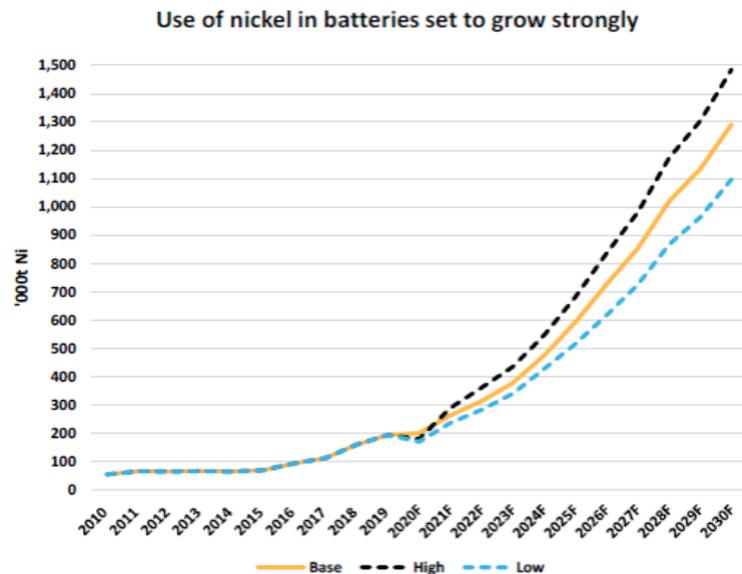


Underpinned by a high-quality asset at Jaguar, we are well placed to deliver on our target to be a clean and efficient **20,000-plus tonne per annum nickel** producer by the end of 2024 to assist in the global transition to electrification and to meet anticipated surging demand for key battery metals.

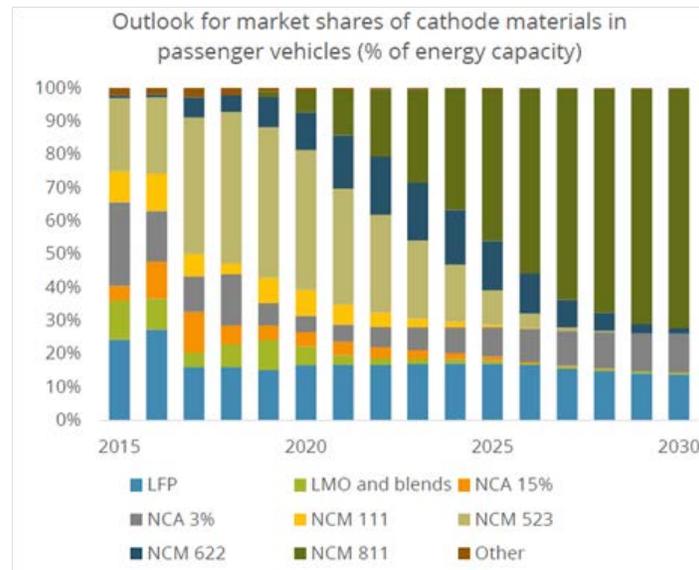


# A New Era of Nickel Sulphide Demand

## The looming clean energy revolution



Source: Macquarie Commodities Strategy



Source: Roskill

### WHERE IS THE NEW SUPPLY COMING FROM?

EVs and the path to decarbonisation require Class-1 nickel

Class-1 nickel will preferentially be sourced from sulphide deposits – low capital intensity, easy processing, lowest carbon footprint

Decades of limited nickel exploration means a very small pipeline of new projects, especially lower-cost, lower-emission sulphide projects in geopolitically safe mining jurisdictions.

**CENTAURUS WELL PLACED TO BE PART OF THE SOLUTION**

- Nickel demand for batteries growing very strongly – Nickel sulphate demand in batteries estimated to grow at **18-19% CAGR (2020-2030)**
- Depending on the scenario for the EV rate of adoption, estimated **nickel volumes to meet additional demand is between 1-1.5 million tonnes**
- Supply/demand balance estimated by WoodMac to move to deficit by 2025 = **positive for nickel price**

# Brazil

## Responsible Mining in an emission-friendly jurisdiction



### ROAD MAP TO MINING

Well-Established Mining Regulation and Tenement System



### FAVOURABLE TAX SYSTEM

15% effective tax rate for first 10yrs of operations (SUDAM Program)



### ROYALTIES TO THE REGIONS

Royalties split between the municipal (65%), state and federal authorities



### ENVIRONMENTAL

Approval Process clearly defined with Terms of Reference issued for EIA



### STRATEGIC MINERALS POLICY

Recently-created to assist in approval process for strategic minerals; includes nickel



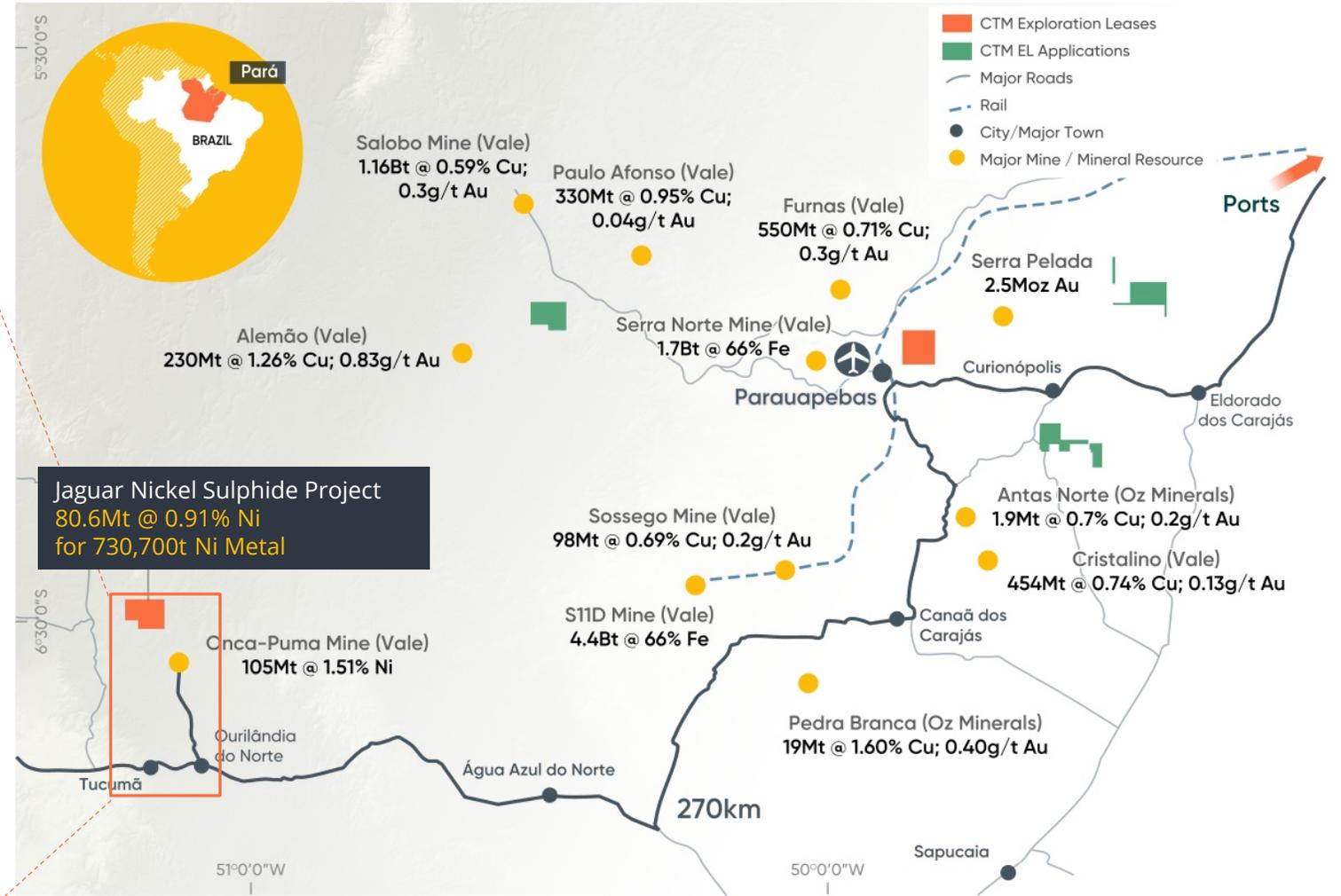
### RENEWABLE POWERHOUSE

80% of Brazil's power currently generated from renewable sources



# Brazil's Carajás Mineral Province

## A Tier-1 global mining province



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

# High-quality Board and Management Team

## Extensive Brazil & Nickel Sulphide Experience



### Board



**Didier Murcia, AM**  
*Chair*  
Lawyer



**Darren Gordon**  
*Managing Director*  
Chartered Accountant



**Bruno Scarpelli**  
*Executive Director*  
Engineer



**Chris Banasik**  
*Non-Executive Director*  
Geologist



**Mark Hancock**  
*Non-Executive Director*  
Chartered Accountant

### Management



**Wayne Foote**  
*GM - Operations*  
Engineer



**John Westdorp**  
*Chief Financial Officer*  
Accountant



**Roger Fitzhardinge**  
*GM - Exploration & Growth*  
Geologist



**Julia Oliveira**  
*Legal & Commercial Manager*  
Lawyer



**Gaudius Montresor**  
*Exploration Manager*  
Geologist



**Fábio Borges**  
*Finance & Accounting Manager*  
Accountant



**John Knoblauch**  
*Principal Metallurgist*  
Engineer



# Jaguar Project – Approvals & Stakeholder Engagement

## Building relationships now and for the future



### Environmental Approvals On-Track

- Majority of the project footprint already disturbed (pasture land)
- Lodgement of EIA/RIMA completed – August 2021
- Jaguar Project is now a Strategic Mineral Project in Brazil
- Lodgement of updated PAE (Mining Lease Application) – November 2021

### Land Access

- Secured possession of three key properties that cover an area of 2,000 hectares for the long-term benefit of the Project.

### Social Programs Underway

- Public/Private Partnership with Sao Felix municipality to upgrade roads
- Social programs with local communities, focus on health and water quality
- Set to contribute over R\$2.0 billion (+US\$400 million) in taxes and government royalties – 65% of royalties goes to local municipalities

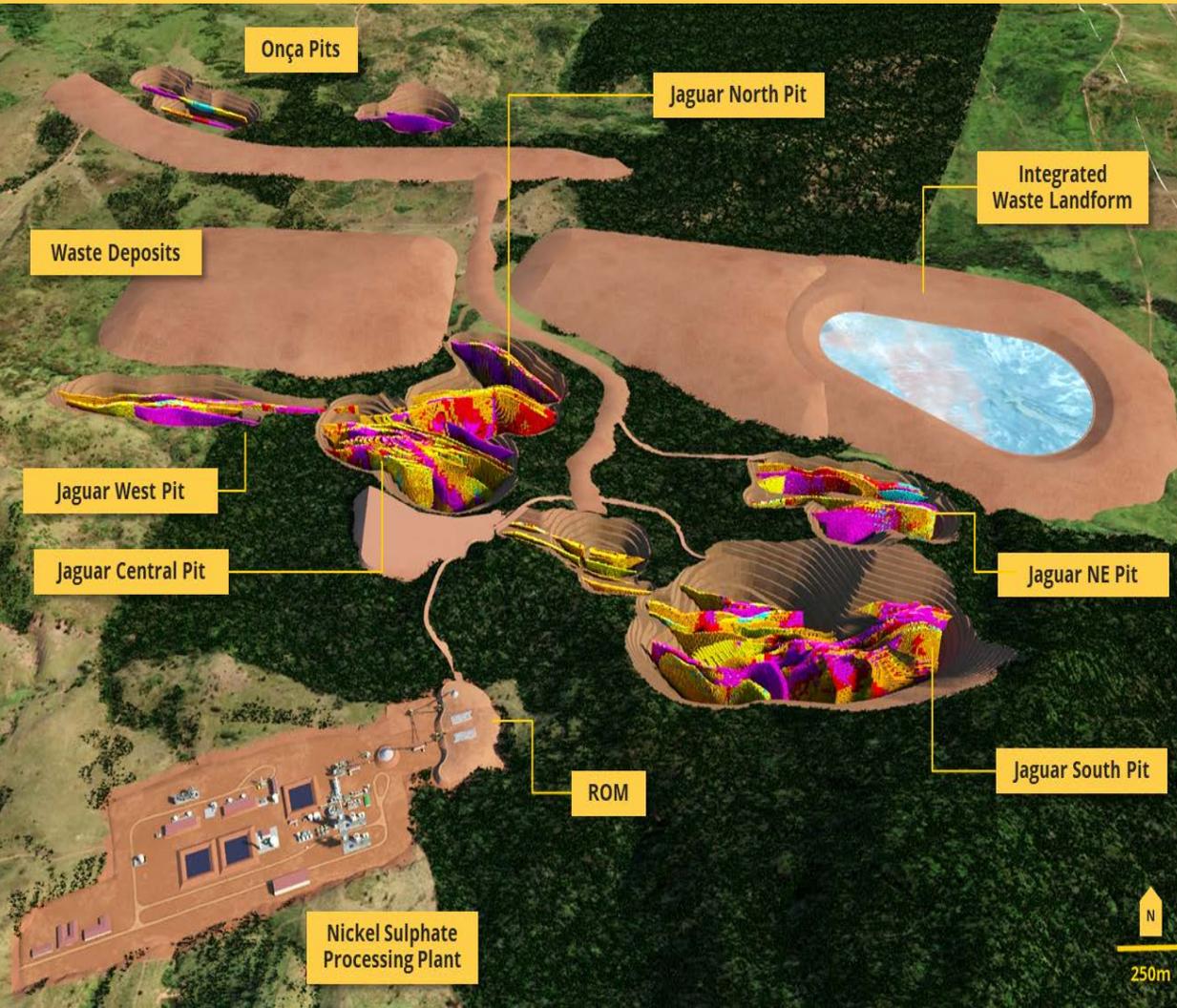


# Jaguar Project – Processing Plant & Mine Infrastructure

## Nickel sulphate plant to treat 2.7Mtpa – can Jaguar deliver more?



Blended Mill Feed: 33.7Mt @ 1.01% Ni for 341,300t of contained Ni over initial ~13-year LOM  
+75% of mill feed from open pit; LOM strip-ratio of 6.5:1



### Nickel Sulphate DFS

- Ausenco recently appointed DFS Lead Engineer
- Process route and product specification optimisation work is ongoing
- Partial Oxidation of sulphides looking favourable with significant capital and operating cost savings
- Nickel recovery from concentrate to sulphate – 98%

### Mining

- New open pit and UG optimisations and scheduling to drive production profile selection
- Pricing packages for mining contractor rate verification underway
- Integrated Waste Landform (IWL) – Geotech and design studies well advanced

Targeting world's best-practice tailings & emissions management

# Jaguar Project

## Scoping Study Economics - Proceeded Straight to DFS



- At conservative SS Ni prices of US\$7.50/lb & US\$0.50/lb sulphate premium
  - Post Tax NPV<sub>8</sub> of **A\$1.11 billion** 52% IRR
  - Operating Cash Margin of **US\$4.27/lb Ni**
  - LOM Annual Cash Flow (pre-tax) - **US\$189m**
  - Development Capital – **US\$288 million**
  - After Tax Payback – **1.8 Years**
- Massive leverage to rising nickel price**

### Project Development Opportunities

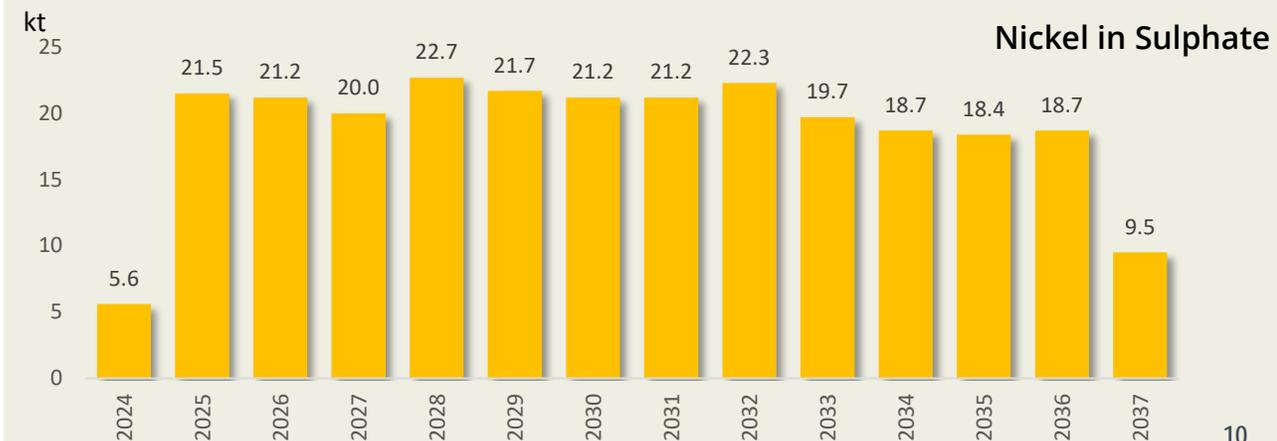
Resource  
Growth

Refine local based  
**CAPEX & OPEX**  
estimates

Mine Schedule  
optimisation

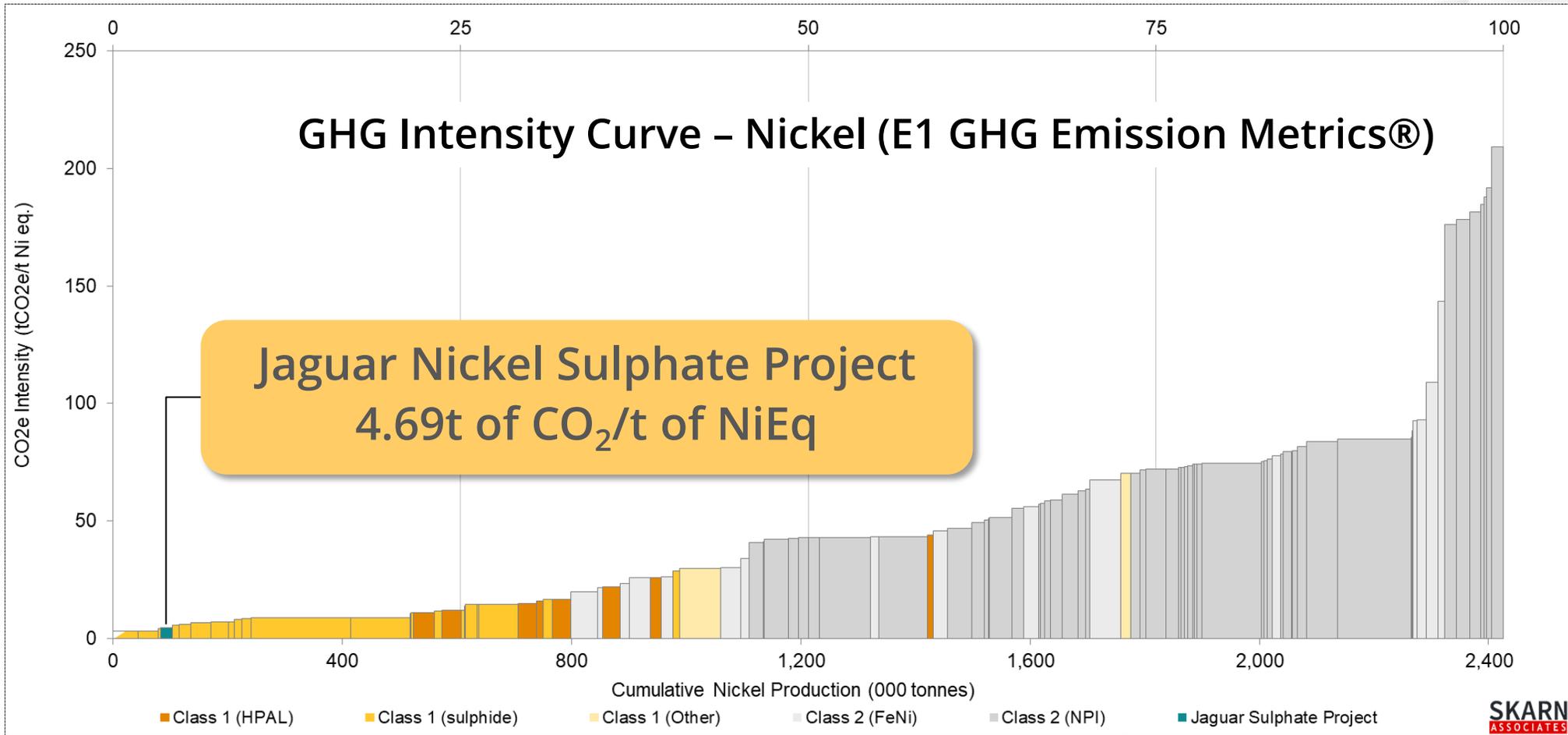
Process Route  
by-product opportunities

At US\$11.00/lb Ni price, post tax NPV<sub>8</sub>  
**A\$2.58 billion** with **102% IRR**



# GHG Emissions – Forecast to be a Class-leader

Powered by renewables & high-grade nickel sulphides



Life-of-mine CO<sub>2</sub> footprint forecast to be lower than 97% of global nickel production

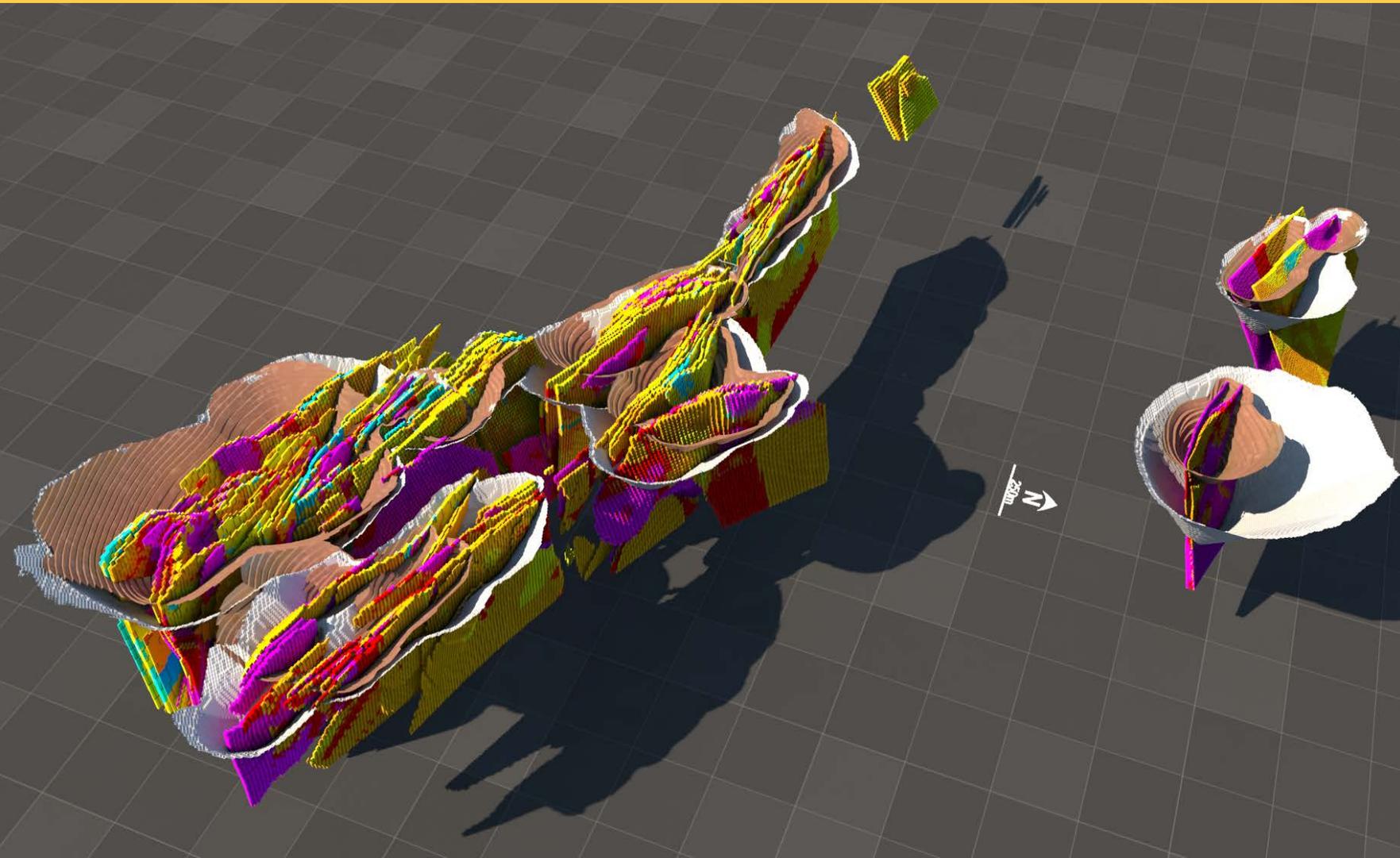
The best nickel tonnes are those with the lowest GHG Emissions and highest Operating Cash Margins

# Jaguar Project – Large-tonnage high quality Resource

## Resource up-grade set to underpin project capacity upgrade



JORC Mineral Resource Estimate: 80.6Mt @ 0.91% Ni for 730,700 tonnes of contained nickel metal



- **+500kt of nickel metal within 200m of surface**
- **Indicated Resource of 43.4Mt @ 0.92% Ni for 397,000t of nickel, 54% of the Global MRE**
- **High-grade component of 22.4Mt @ 1.59% Ni for 354,800t of nickel metal**
- **12 x Diamond & 2 x RC Rigs on site**
- **Next JORC Resource up-grade planned for Q3 2022**

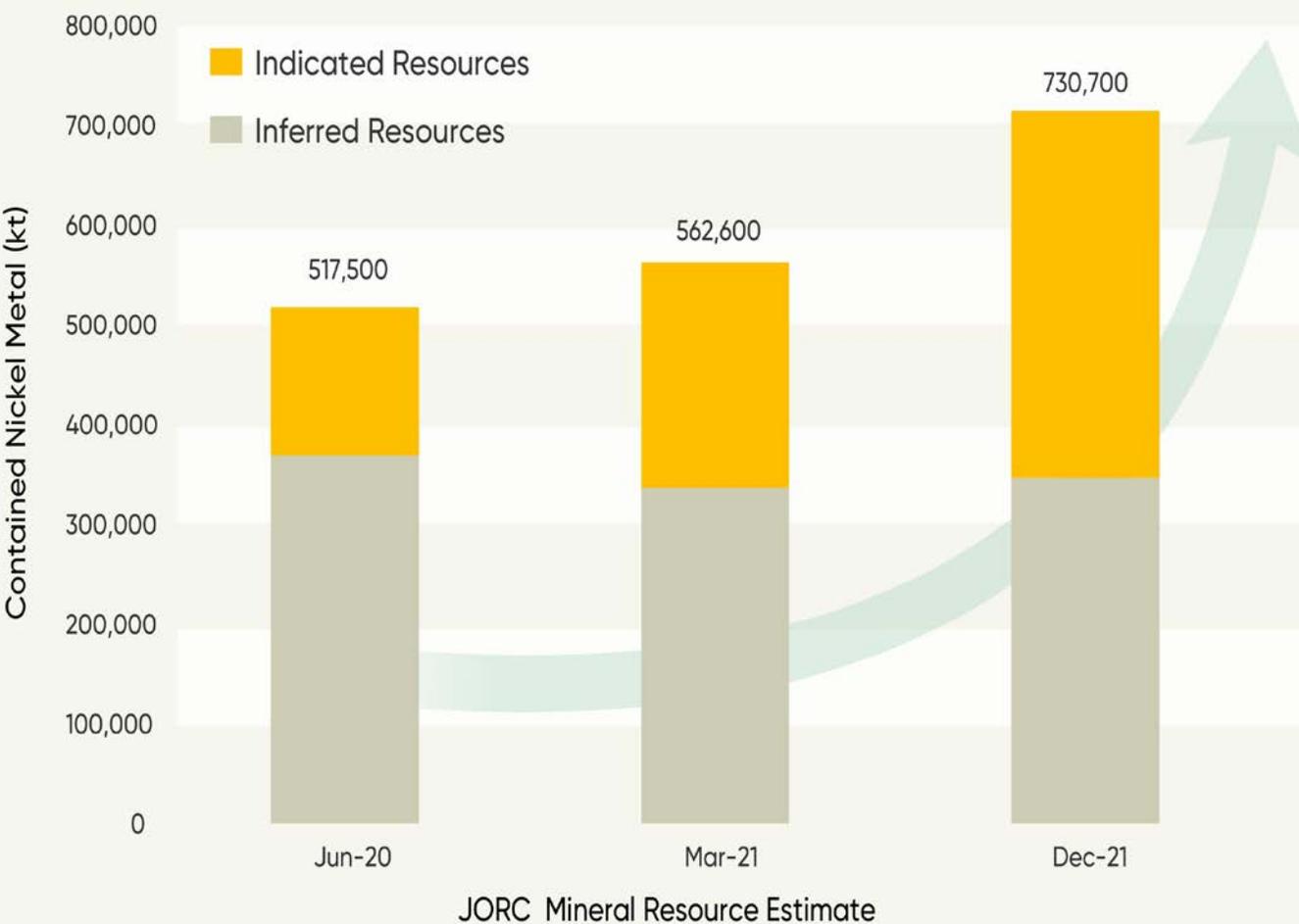
# Jaguar Project – Resource Growth and Upside



A unique deposit with sustainable growth

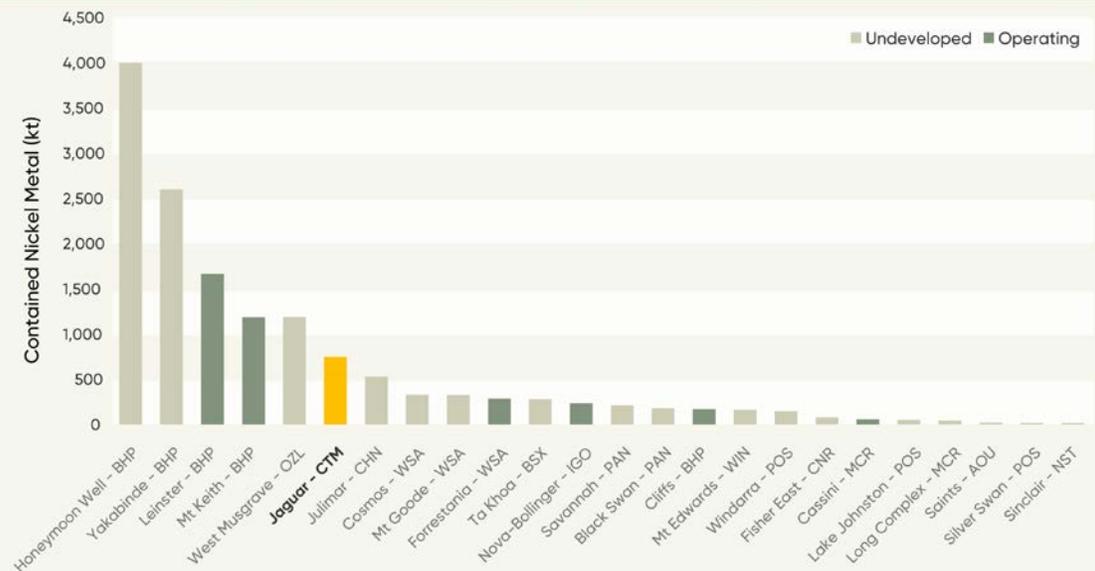
**+40% since the Company’s maiden Resource in June 2020 – that’s 213kt of contained nickel in 18 months**

## Jaguar Nickel Project Global MRE



- Currently adding 140,000tpa of Ni metal in resources
- Targeting 1 million tonnes of nickel metal by EOY 2023
- The largest nickel sulphide deposit on the ASX not held by the majors

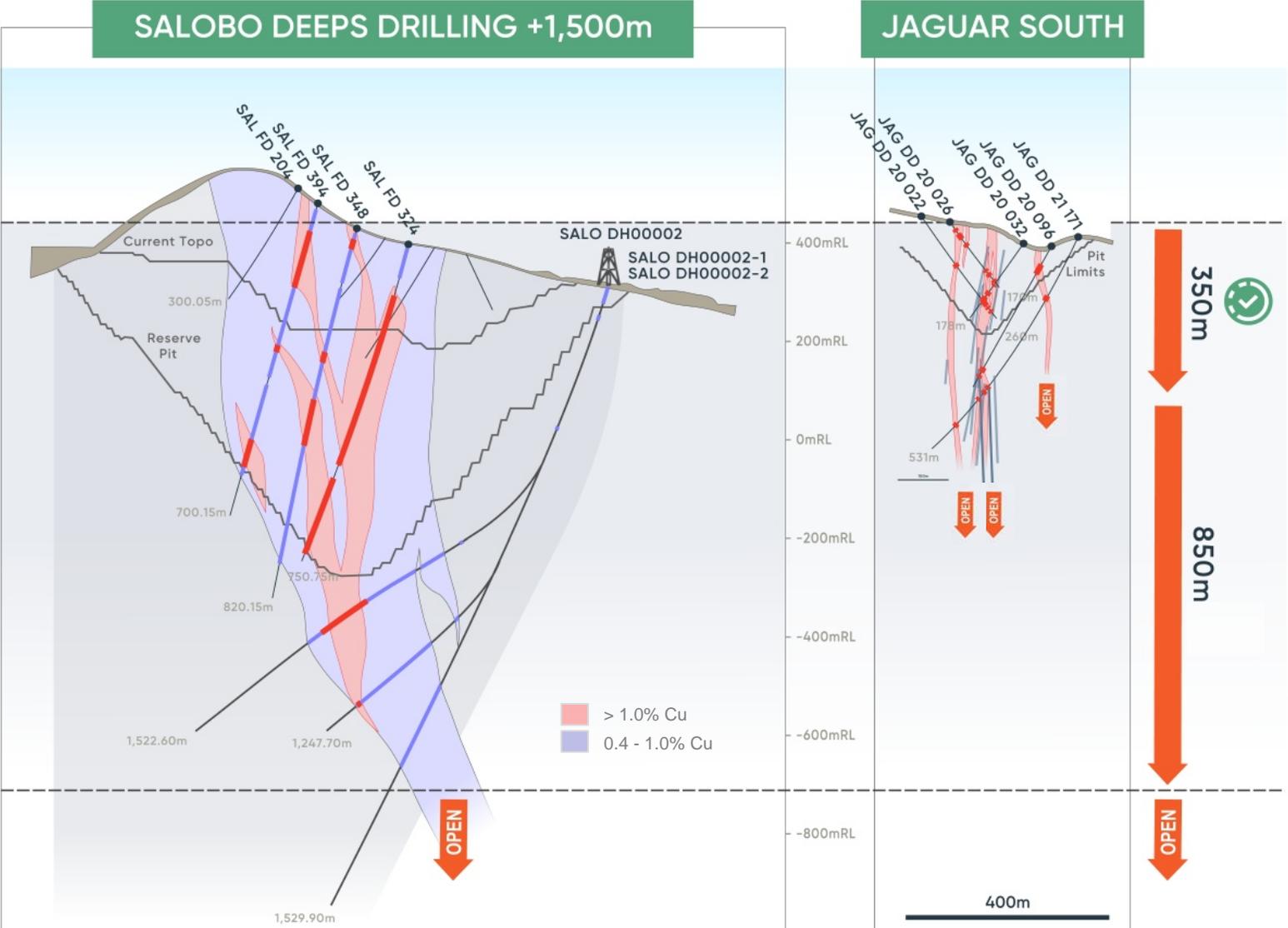
## Nickel Sulphide Projects (operating and undeveloped) held by ASX listed companies based on contained nickel (kt)



# Jaguar Project – Resource Growth and Upside



## Deep plumbing systems in the Carajás



**World-class Carajás IOCG deposits hosted in deep regional-scale structures.**

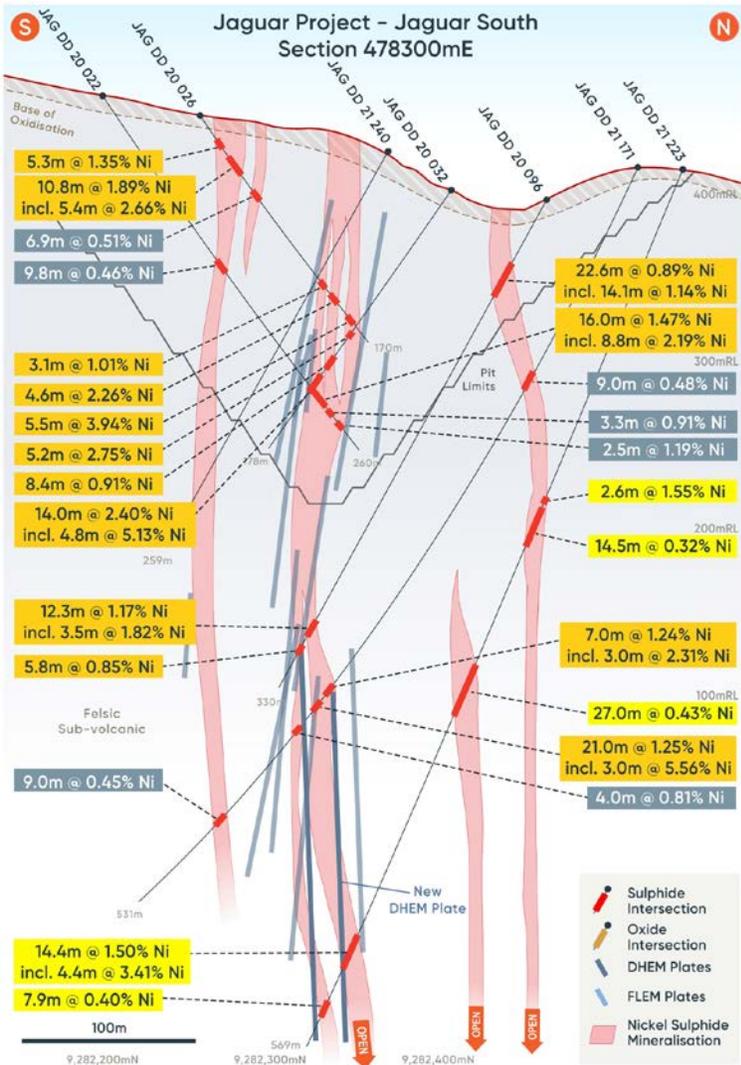
**Salobo (Cu-Au) Mine, mineralisation to depths of +1,400m and remains open!**

**JAGUAR IS JUST GETTING STARTED**

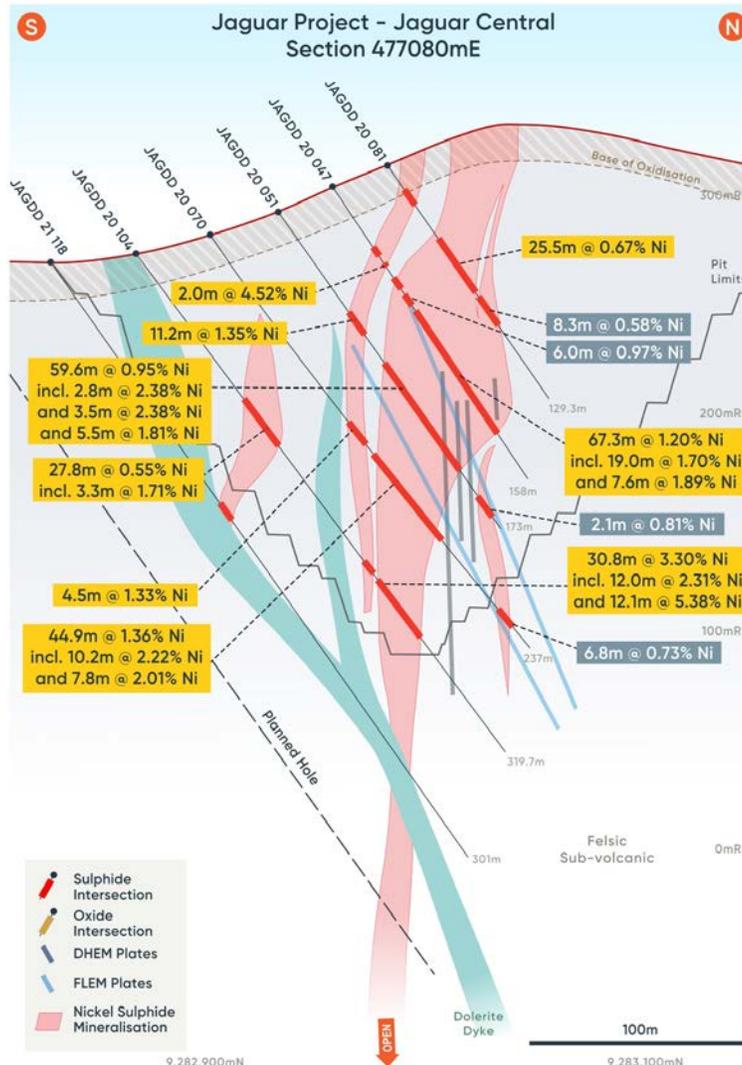
Source: Wheaton Precious Metals: Salobo Cu-Au Mine, Technical Report, December 2019

# Jaguar Project – Resource Growth and Upside

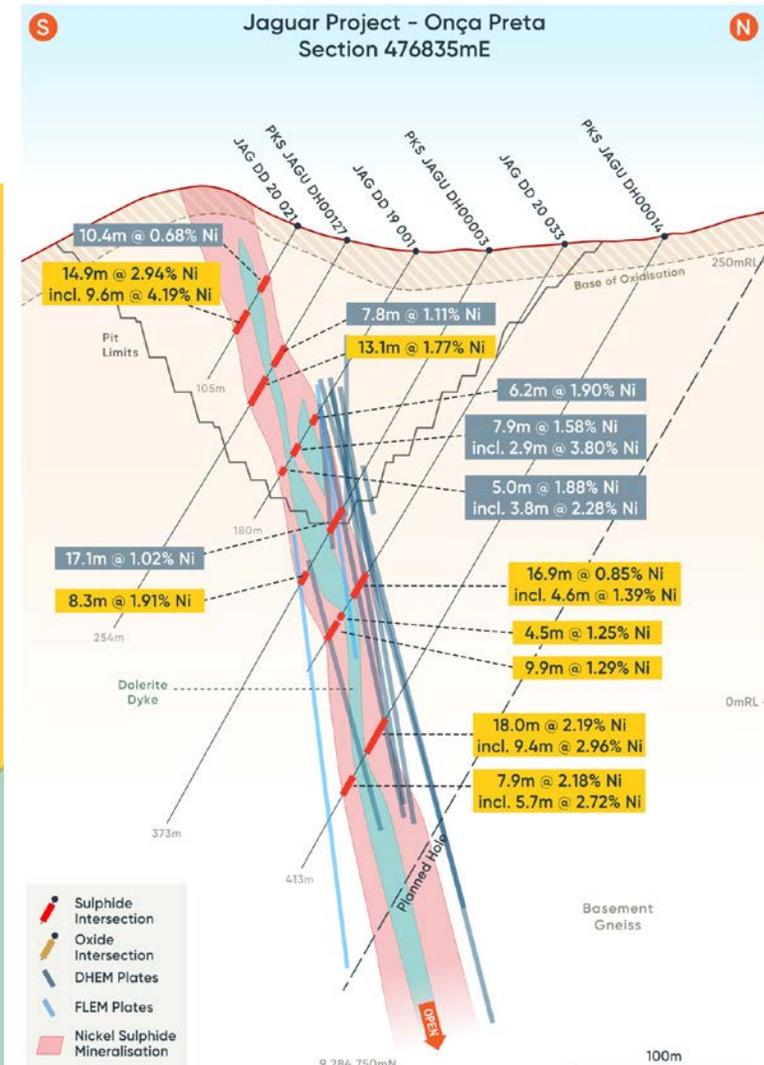
## Deep plumbing - open at depth & below UG stope limits



400m



300m



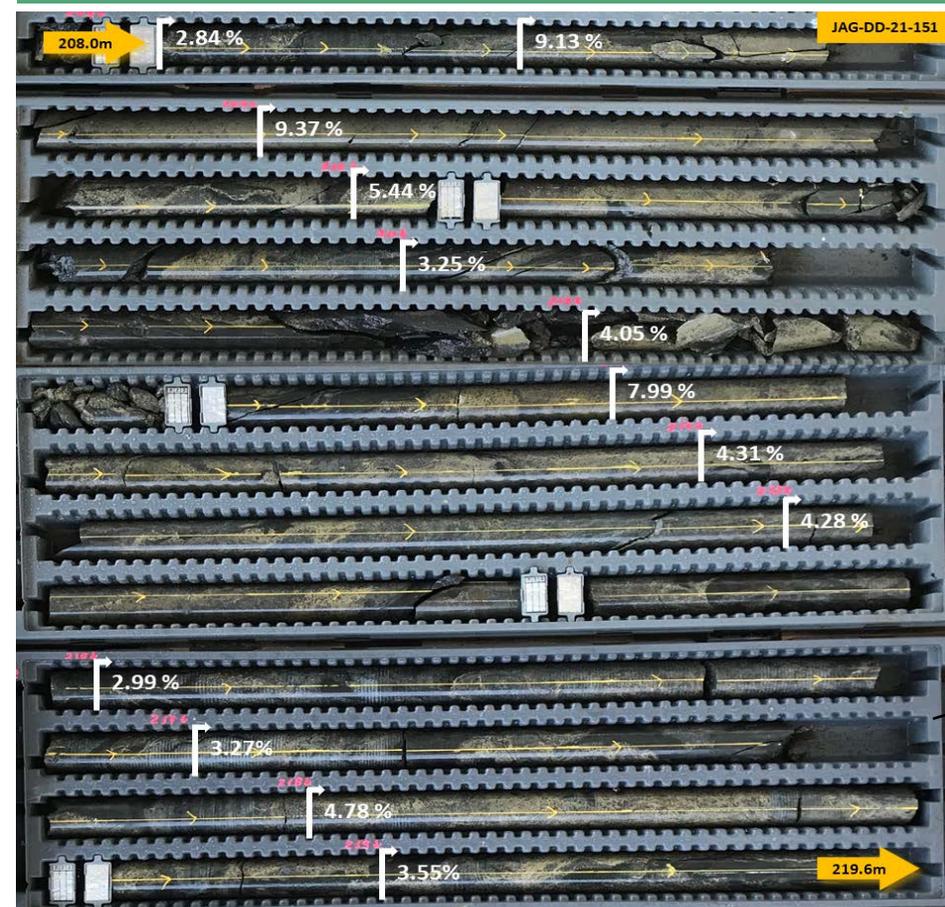
**Onça Preta**

# Jaguar Project – Resource Growth and Upside

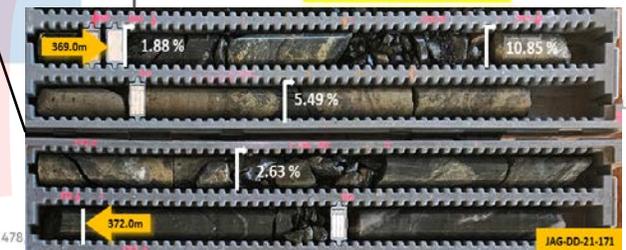
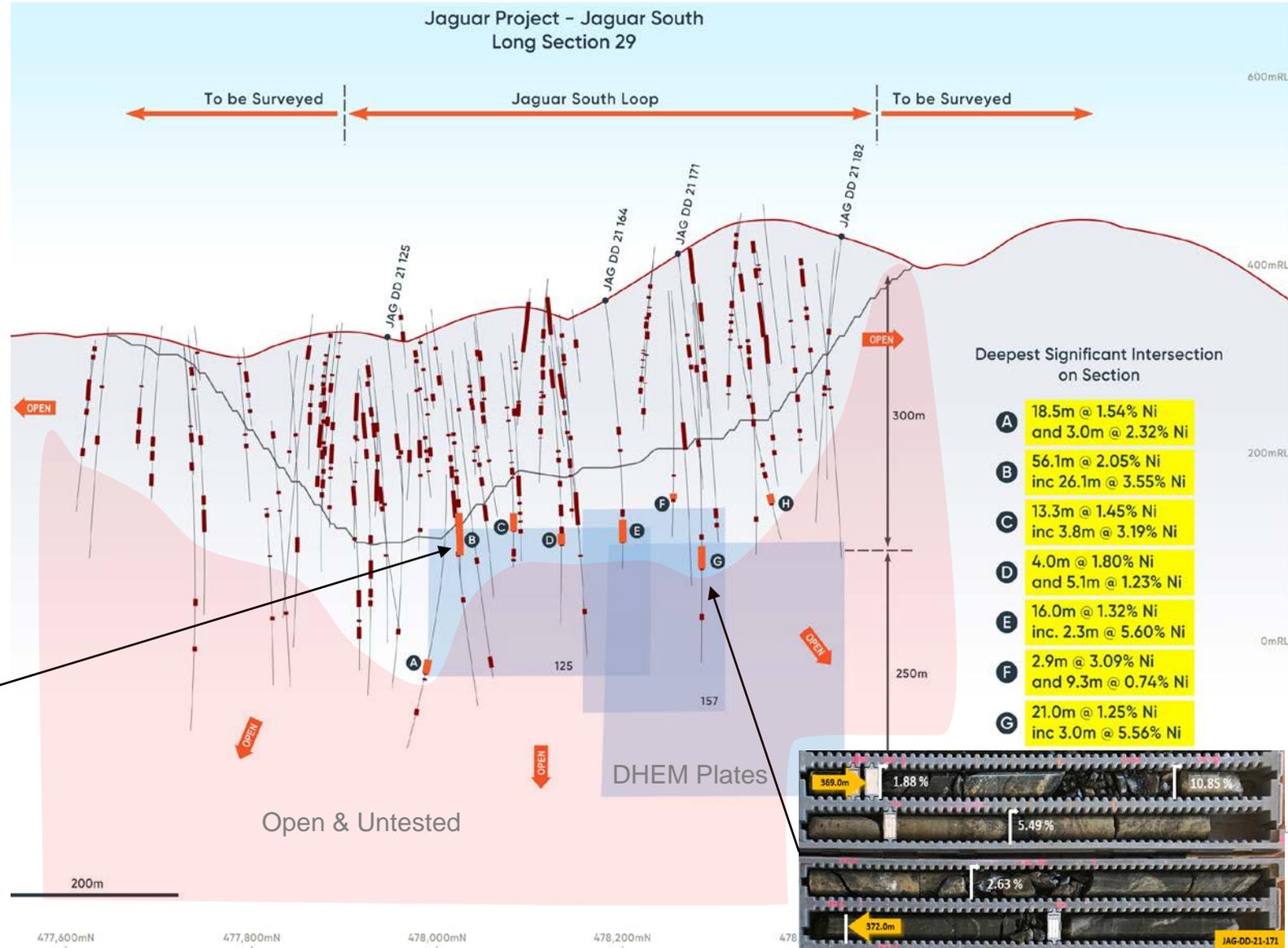
## DHEM to drive more deep massive sulphide discoveries



**DHEM Conductor plates extend +270m below deepest drilling**

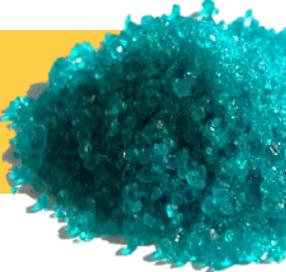
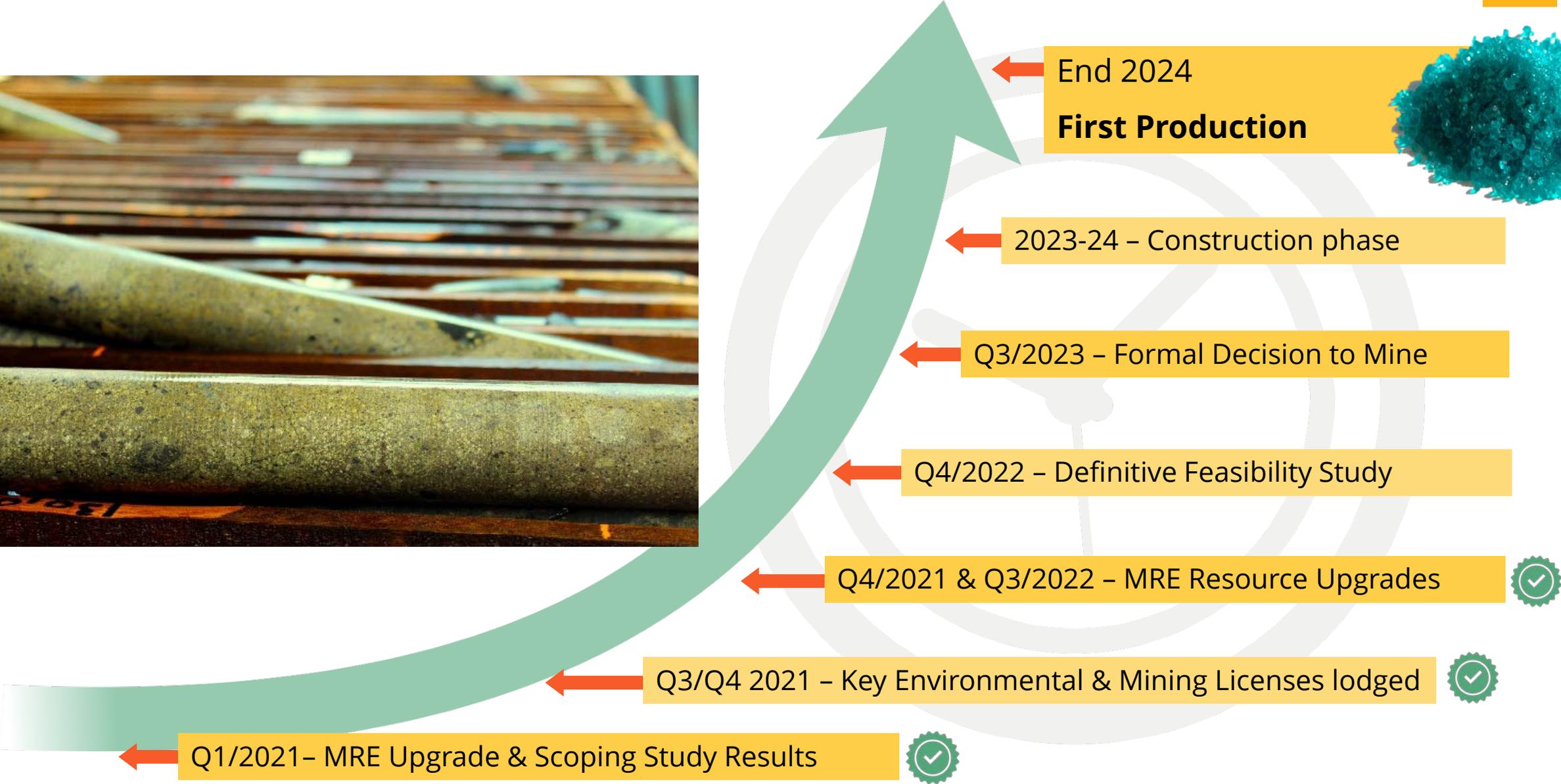


**17.6m @ 4.86% Ni from 208m, within 56.1m @ 2.05 Ni**





# Jaguar Project Targeted Development Timeline



# Corporate Summary



## Capital Structure

March 2022

Shares on Issue	423m
Unlisted Options	12m
Top 20 Holders	68%
Market Capitalisation (\$1.30)	A\$550m
Cash	A\$75m
Other Significant Assets	Jambreiro Iron Ore Project

## Substantial Shareholders

McCusker Holdings Pty Ltd	10.1%
Sprott Inc.	9.6%
Dundee Goodman	5.1%
Harmanis Holdings	4.8%
Board and Management	3.8%

# Centaurus

## Key investment takeaways

- **Nickel focus** – sustainable nickel sulphide asset leveraged to strong long-term Class-1 nickel market outlook
- **Extremely low carbon footprint** – estimated to be lower than 97% of global nickel production
- **Favourable infrastructure-rich project location** – the world-class Carajás Mineral Province
- **Globally Significant JORC Resource** – 80.6Mt @ 0.91% Ni for 730,700 tonnes of contained nickel
- **Project Scope** currently shows Mill Feed of **33.7Mt @ 1.01% Ni for 341,300t** of nickel to produce **+20ktpa of nickel** in sulphate and a MSP over initial mine life of **13 years. Likely to grow with new Resource**
- **Strong returns and cash flow generation with massive leverage to rising nickel price – pre tax EBITDA of ~US\$365m (~A\$500m) per annum nickel price of US\$11/lb**
- **Outstanding growth potential** – deposits open at depth and along strike with further drilling underway
- **The right team and well funded with ~A\$75m for exploration & DFS work**

Centaurus represents a rare opportunity to invest in what is quickly becoming the world's premier near-surface nickel sulphide development project with class-leading GHG emission credentials, at the perfect time in the nickel market cycle.





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## Jaguar: Accelerating towards the world's next green nickel project

March 2022

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