CentaurusMetals Limited
ASX : CTM

Fase atual do Projeto Jaguar de Sulfeto de Níquel, na Província de Carajás - PA

SimeXmin
XI SIMPÓSIO BRASILEIRO DE EXPLORAÇÃO MINERAL
XI BRAZILIAN SYMPOSIUM ON MINERAL EXPLORATION

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Gerente de Geologia

Maio 2024

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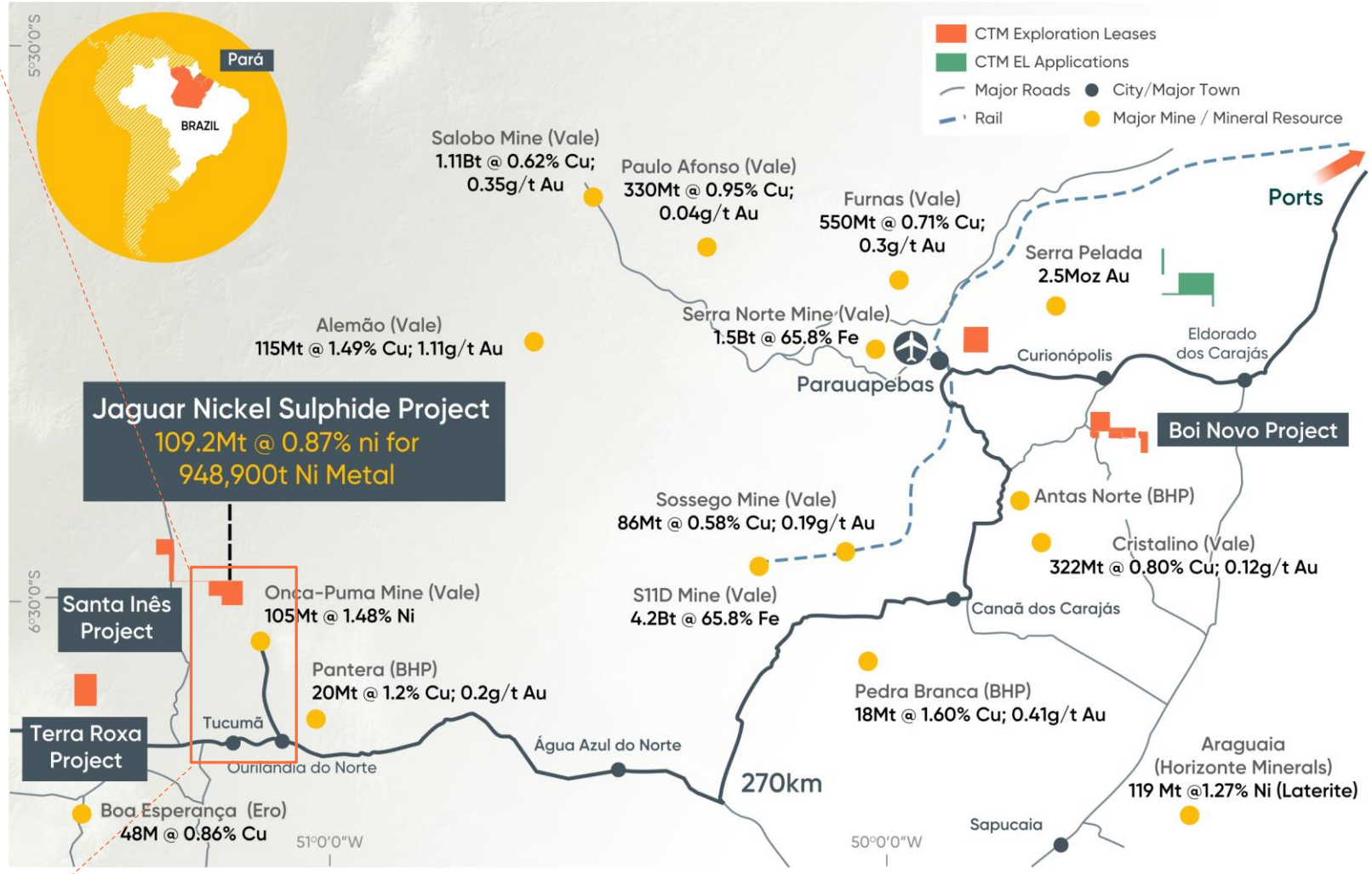
- The Scoping Study referred to in this presentation has been undertaken for the purpose of initial evaluation of a potential development of the Jaguar Nickel Sulphide Project. It is a preliminary technical and economic study (±40%) of the potential viability of the Jaguar Nickel Sulphide Project. The 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.
- Assumptions also include assumptions about the availability of funding. While Centaurus considers that all the material assumptions are based on reasonable grounds, there is no certainty that they will prove to be correct or that the range of outcomes indicated by this study will be achieved. To achieve the range of outcomes indicated in the Scoping Study, pre-production funding in the order of US$288M will likely be required. There is no certainty that Centaurus will be able to source that amount of funding when required. It is also possible that such funding may only be available on terms that may be dilutive to or otherwise affect the value of Centaurus's shares. It is also possible that Centaurus could pursue other value realisation strategies such as a sale, partial sale or joint venture of the Jaguar Nickel Sulphide Project. This could materially reduce Centaurus's proportionate ownership of the Jaguar Nickel Sulphide Project.
- 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 November 2022 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. 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.

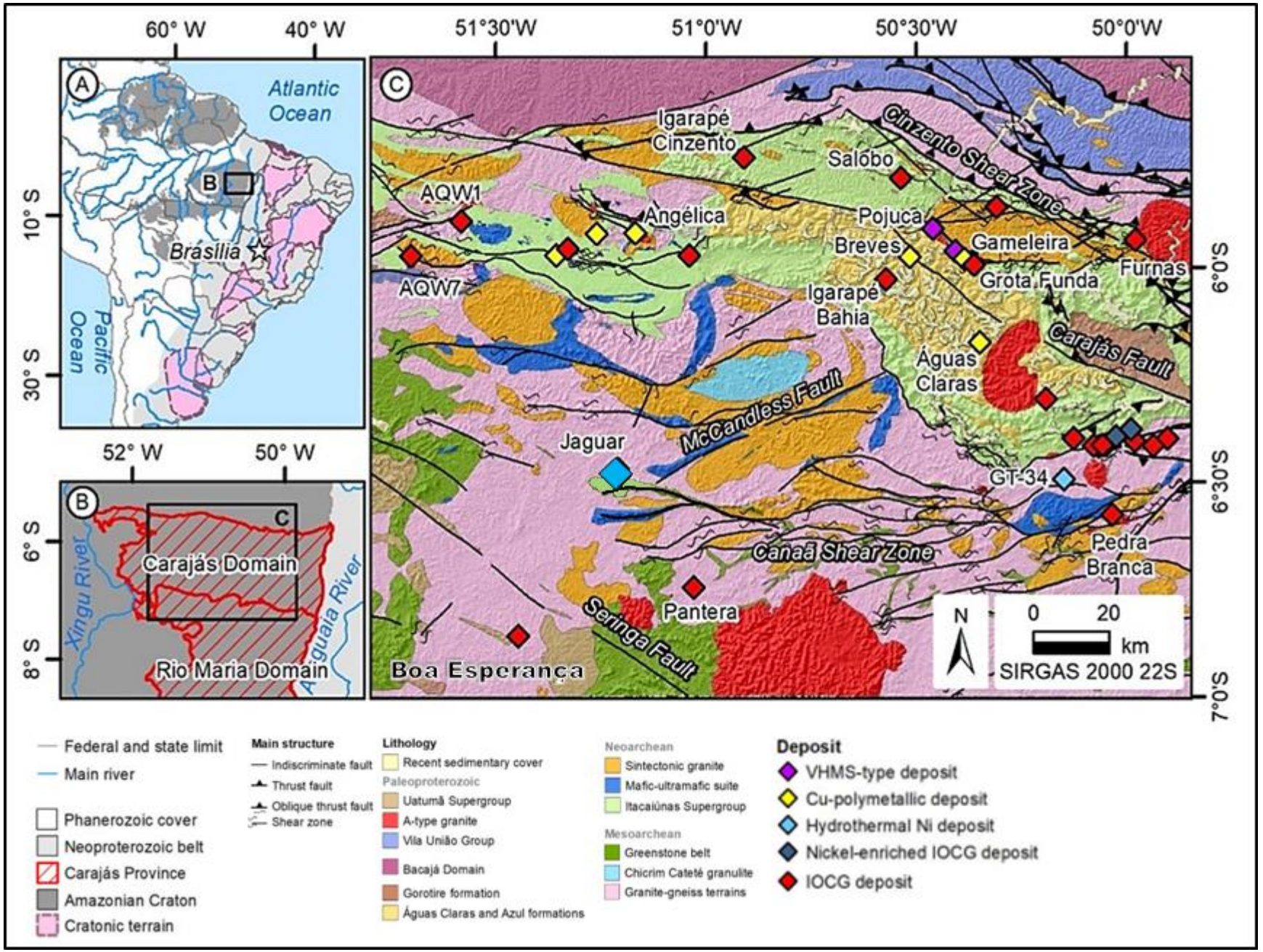
Localização

Província Mineral de Carajás



A Província Mineral de Carajás é uma região relevante globalmente no cenário da mineração por abrigar diversos depósitos de classe mundial

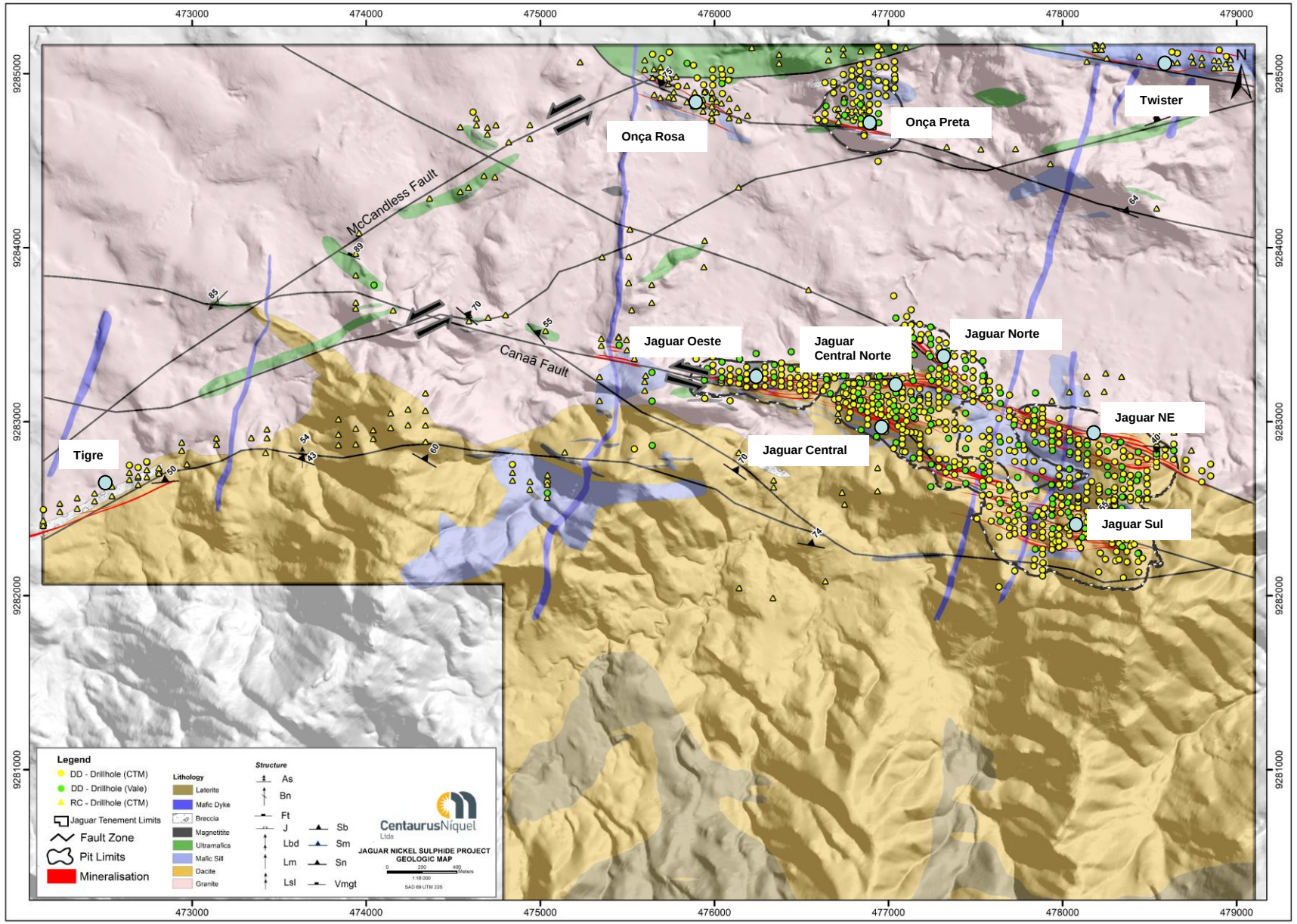
Contexto Geológico Regional: Província Mineral de Carajás



- Localizado na porção Oeste, próximo limite sul do Domínio Carajás
- Na interseção entre as Falhas Canaã e McCandless (Carapanã)
- Na região de contato de unidade Vulcano-sedimentar (Neoarqueana) correlata ao Gr. Grão Pará do Sg. Itacaiúnas e os Tonalitos/Granodioritos Mesoarqueanos do Complexo Xingú
- Entre os corpos Máfico-Ultramáficos Acamadados Neoarqueanos Onça e Puma

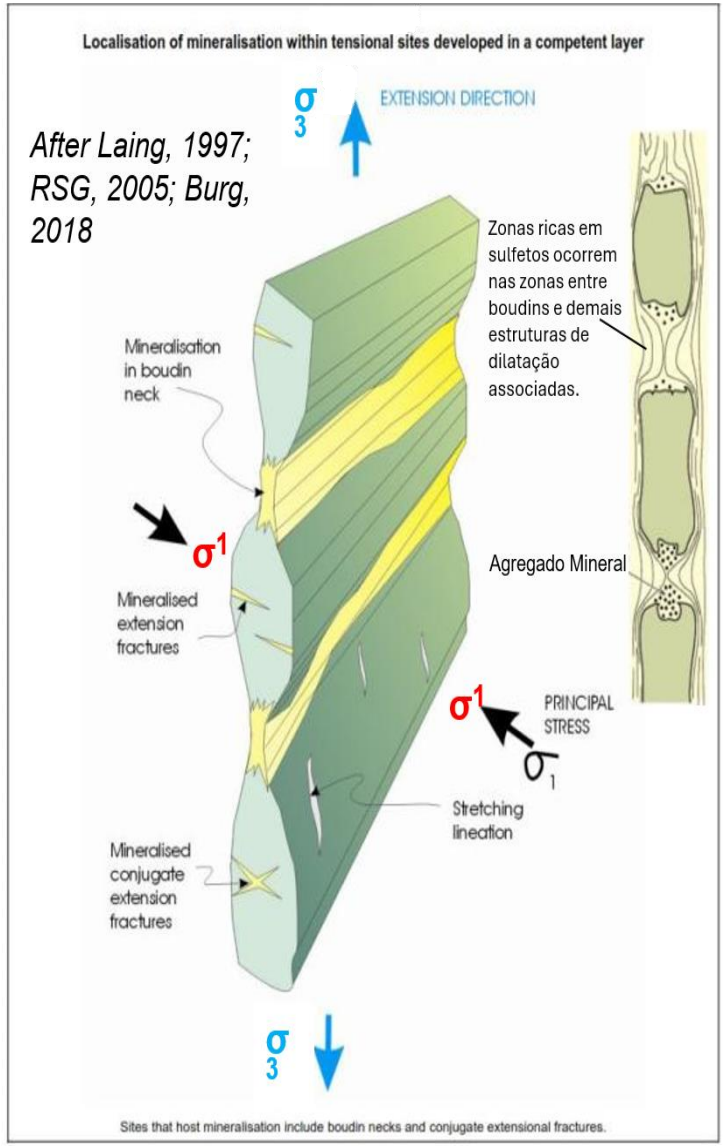
(Modificado de *Fraga et al. 2020*)

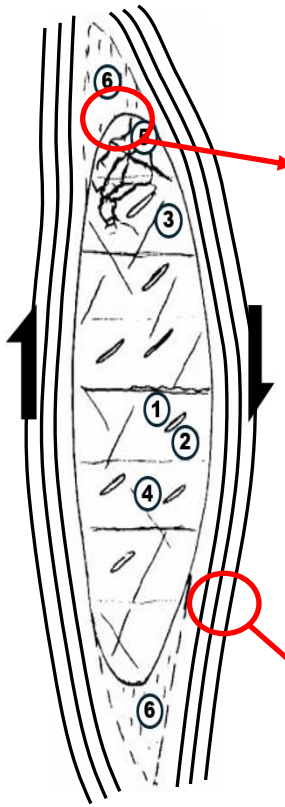
Contexto Geológico Local: Escala de depósito



- Os corpos mineralizados ocorrem hospedados em:
  - *Sub-vulcânica ácida porfiritica*
  - *Contato Sub-vulcânicas com Granitóides*
  - *Granitóides*
  - *Soleiras Máficas e lentes ultra-máficas*
- Principais minerais de alteração:
  - *Magnetita-Quartzo-Apatita (proximal)*
  - *Biotita-Clorita-Anfibólio-Talco (intermediária)*
  - *Albita-K Feldspato (distal)*
- ***Sulfetos:***
  - *↑ Milerita e pentlandita*
  - *↓ Violarita, polidmita e vaesita*
    - *Py, Po, Sph, Cpy*

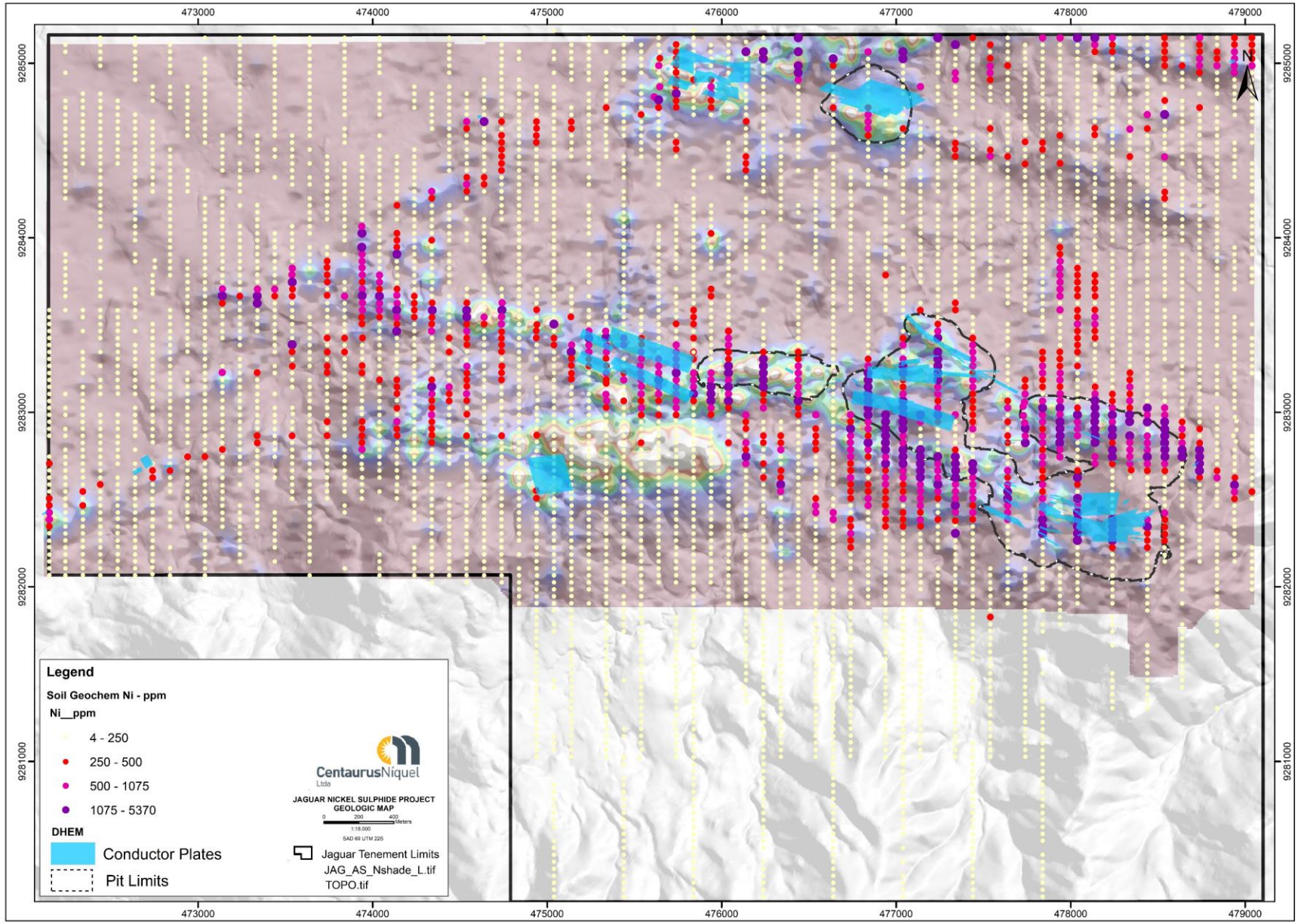
Controles da Mineralização



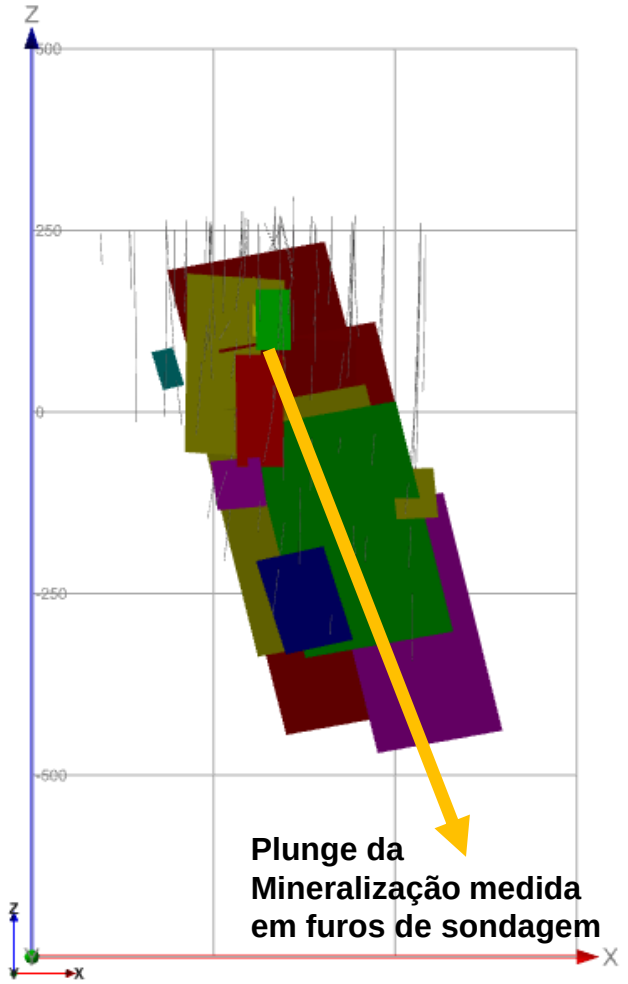


Fraturas e zonas de dilatação associadas ao Boudinamento:
1 – Fraturas Pull-apart
2 – Fraturas por Tração
3 – Fraturas Riedel
4 – Fraturas de cisalhamento
5 – Brechação interna
6 – Zonas de dilatação nas extremidades dos boudins

Modelo Exploratório: Mag - EM - Geoquímica - Geologia Estrutural



Mapa – Mag Terrestre (ASA), Condutores EM e Geoquímica (Ni) de Solo



Seção Longitudinal com Condutores EM (Onça Preta)

Projeto Colaborativo Centaurus - ADIMB: Resultados

"Understanding the controls and processes associated with the origin of the hydrothermal Jaguar nickel deposit"

- **Pesquisadores envolvidos:** César Ferreira Filho, Lena Monteiro, Luiz Dutra, Lizeth Hernandez Tasco, Eduardo Mansur, Marco Delinardo, Bruno Ribeiro e Sarah Dare
- **Suporte a duas teses de doutorado:** Luiz Dutra e Lizeth Tasco Hernandez
- **Relevantes avanços no entendimento geológico do Jaguar:** Metalogenia, Química Mineral, Geocronologia e Geologia Estrutural

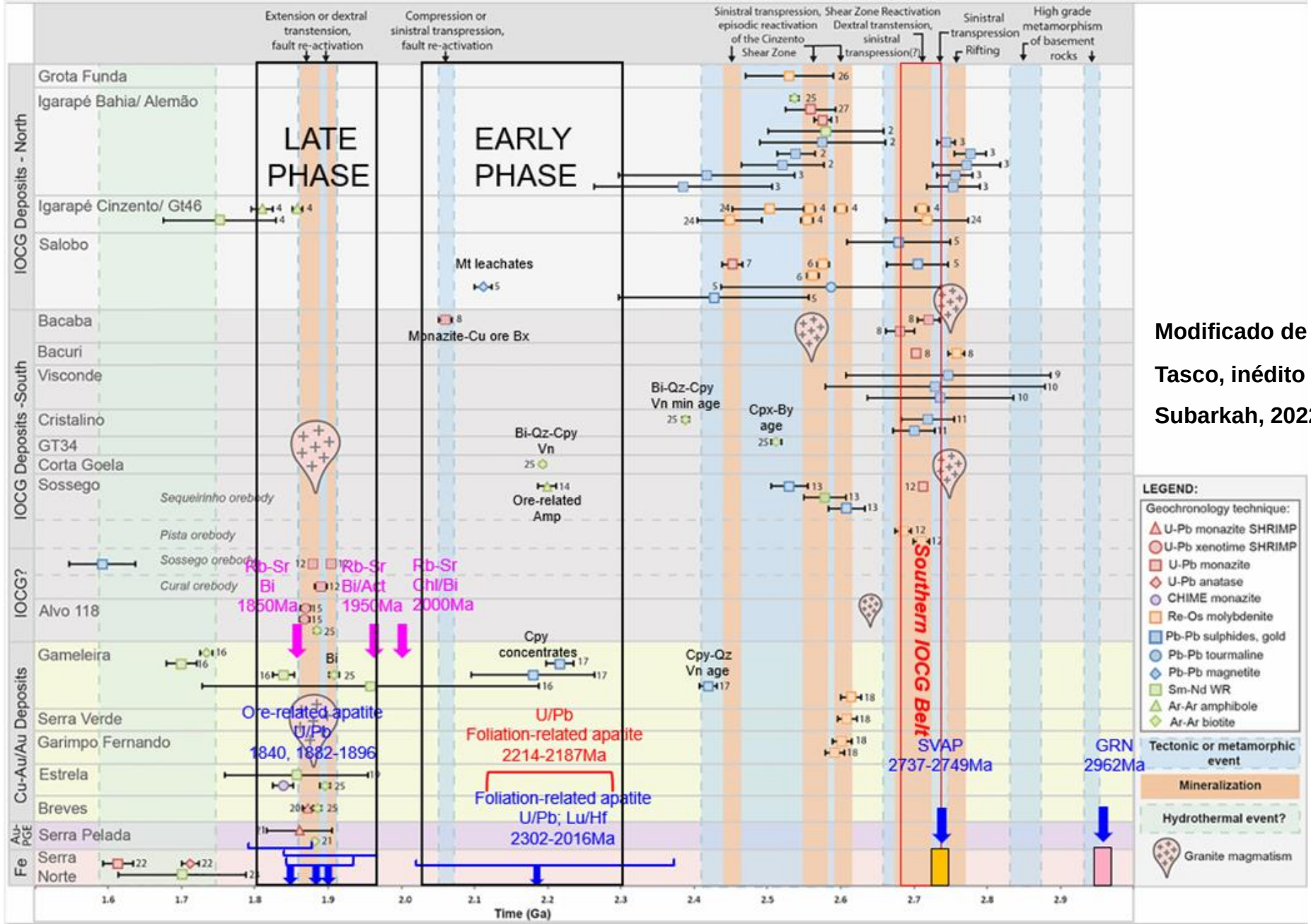
ADIMB
Agência para o Desenvolvimento e Inovação do Setor Mineral Brasileiro

Projeto Colaborativo Centaurus - ADIMB: Resultados

"Understanding the controls and processes associated with the origin of the hydrothermal Jaguar nickel deposit"

- Metalogenia:
  - Classificação como depósito de Ni Hidrotermal, com presença de PGEs, mesmo que em baixos teores, sugerindo remobilização de sulfetos magmáticos;
  - Identificação de texturas que indicam mobilização, fluxo mecânico, arredondamento e recristalização dos minerais-minério.
- Química Mineral:
  - Comparação das características químicas de minerais de alteração entre Jaguar, GT-34 e IOCGs do cinturão sul de Carajás e os resultados mostram diferenças significativas do Jaguar e GT-34 em relação aos demais;
  - Dificuldade em enquadrar as características físico-químicas dos minerais de alteração em modelos já existentes criou a necessidade de propor novos diagramas para classificação.
- Geocronologia:
  - Encaixantes (U-Pb em Zircões): Granitoides ≈ 2.96Ga e Sub-vulcânicas ácidas ≈ 2.74Ga
  - Famílias de apatita (U-Pb e Lu-Hf): Em dobras intrafoliais associadas a sulfetos ≈ 2.0-2.2Ga / Em bolsões mineralizados ≈ 1.8Ga
- Geologia Estrutural: Deposito formado por uma combinação de cisalhamento sinistral e extrusão vertical com posterior retrabalhamento

Projeto Colaborativo Centaurus - ADIMB : Geocronologia



Modificado de Trunfull *et al*, 2020

Tasco, inédito – U-Pb, Lu-Hf

Subarkah, 2022 – Rb-Sr, U-Pb

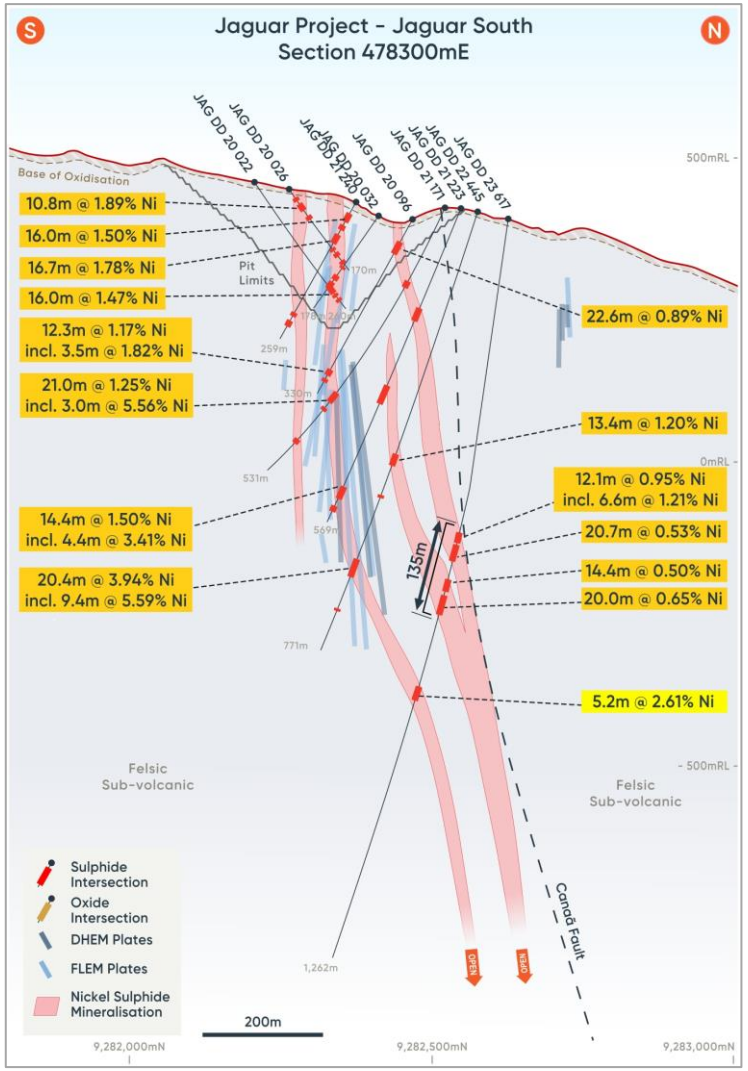
Histórico do Projeto

Descoberta e Sondagem

	Vale	Centaurus	Total	Geral
DD	55,000	155,000	210,000	245,000
RC		35,000	35,000	

Projeto Jaguar – Recurso Mineral de Classe Mundial

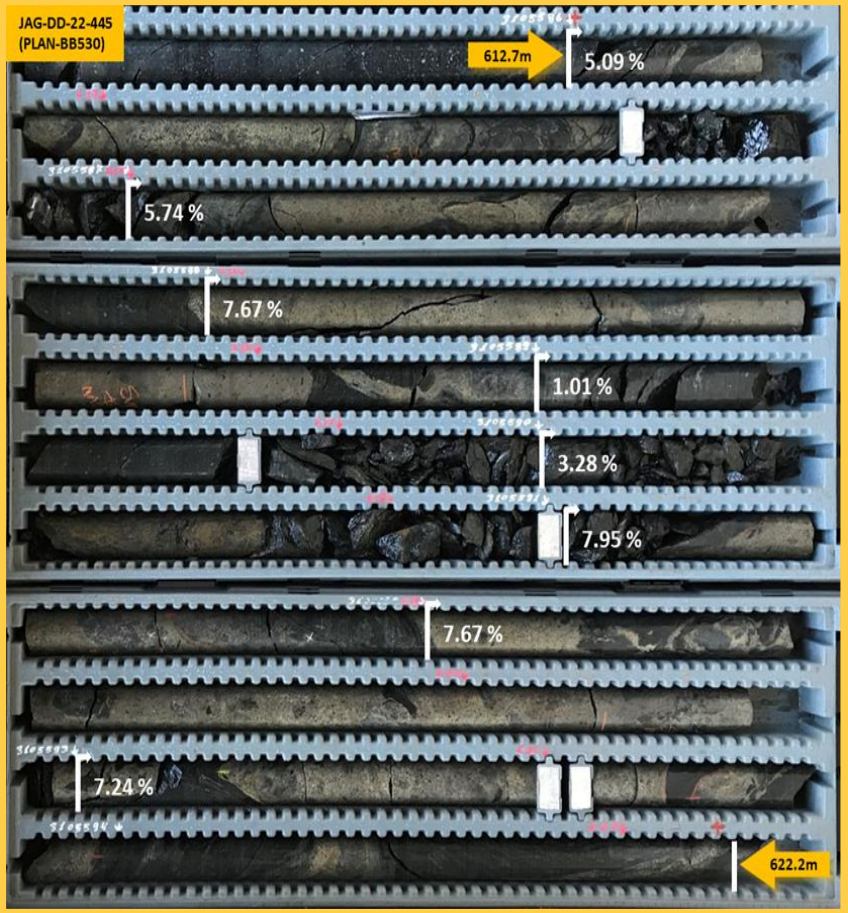
Altos teores de Sulfeto de Níquel Aflorantes e Contínuos



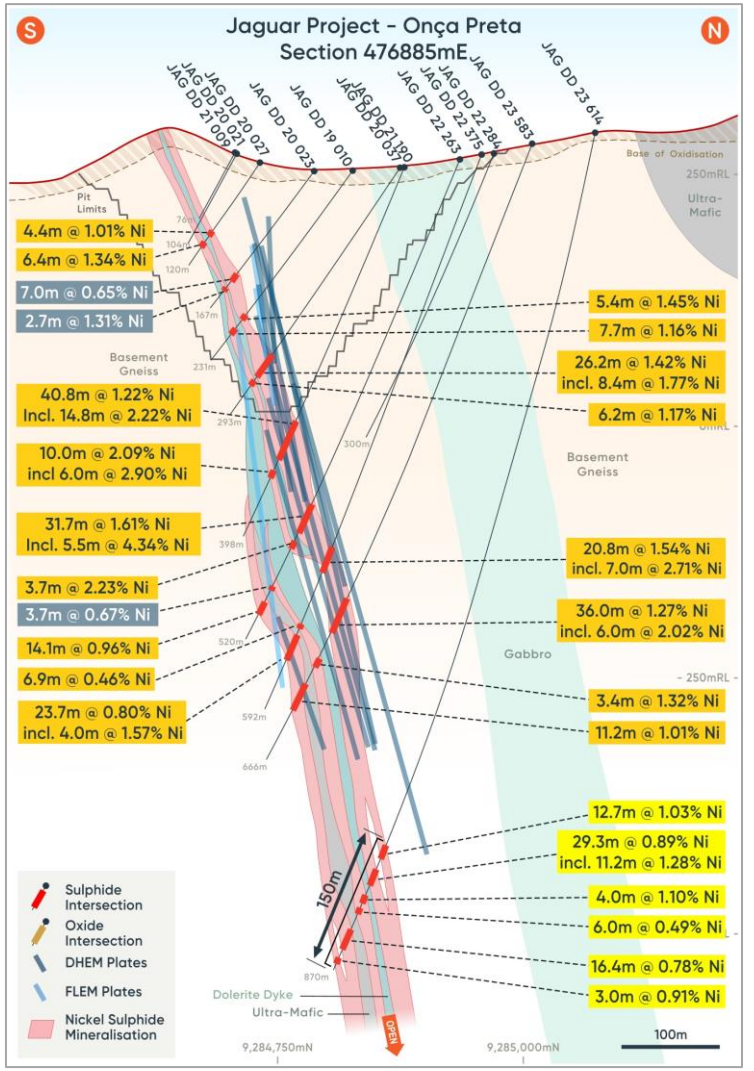
Jaguar South

20.4m @ 3.94 % Ni from 612m

1000m



800m

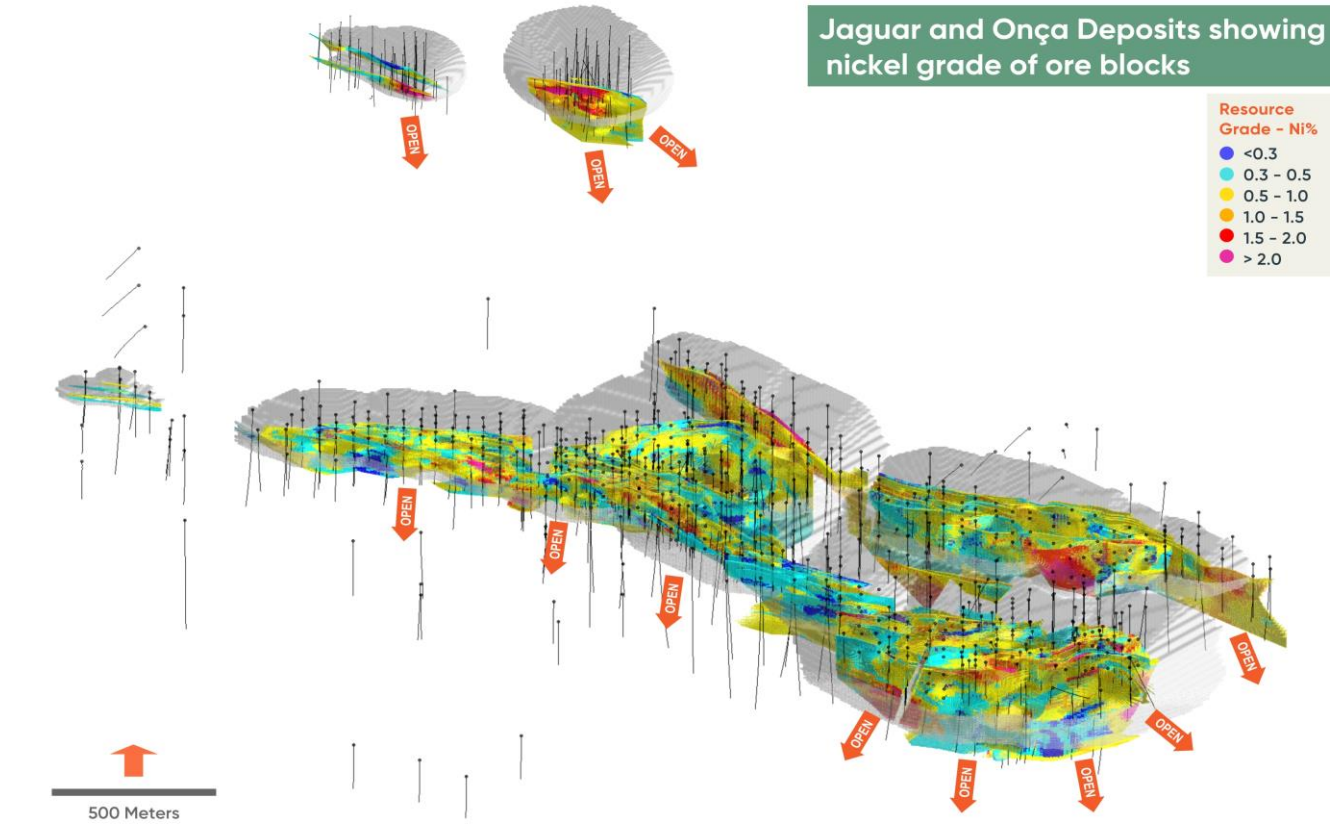


Onça Preta

Projeto Jaguar – Depósito Mineral de Classe Mundial

Recurso de Grande Volume e Qualidade

Recurso JORC: 109.2Mt @ 0.87% Ni com 948,900 toneladas de níquel contido



- Alto-teor - **28.6Mt @ 1.51% Ni** com **431,800t** de Ni metálico
- **30%** do recurso de alto-teor até **100m de profundidade**

- Medido & Indicado **86.6Mt @ 0.85% Ni** com **737,800t** Ni - 83% do Recurso Global
- **+500kt** Ni contido até **200m** de profundidade em Recurso M&I

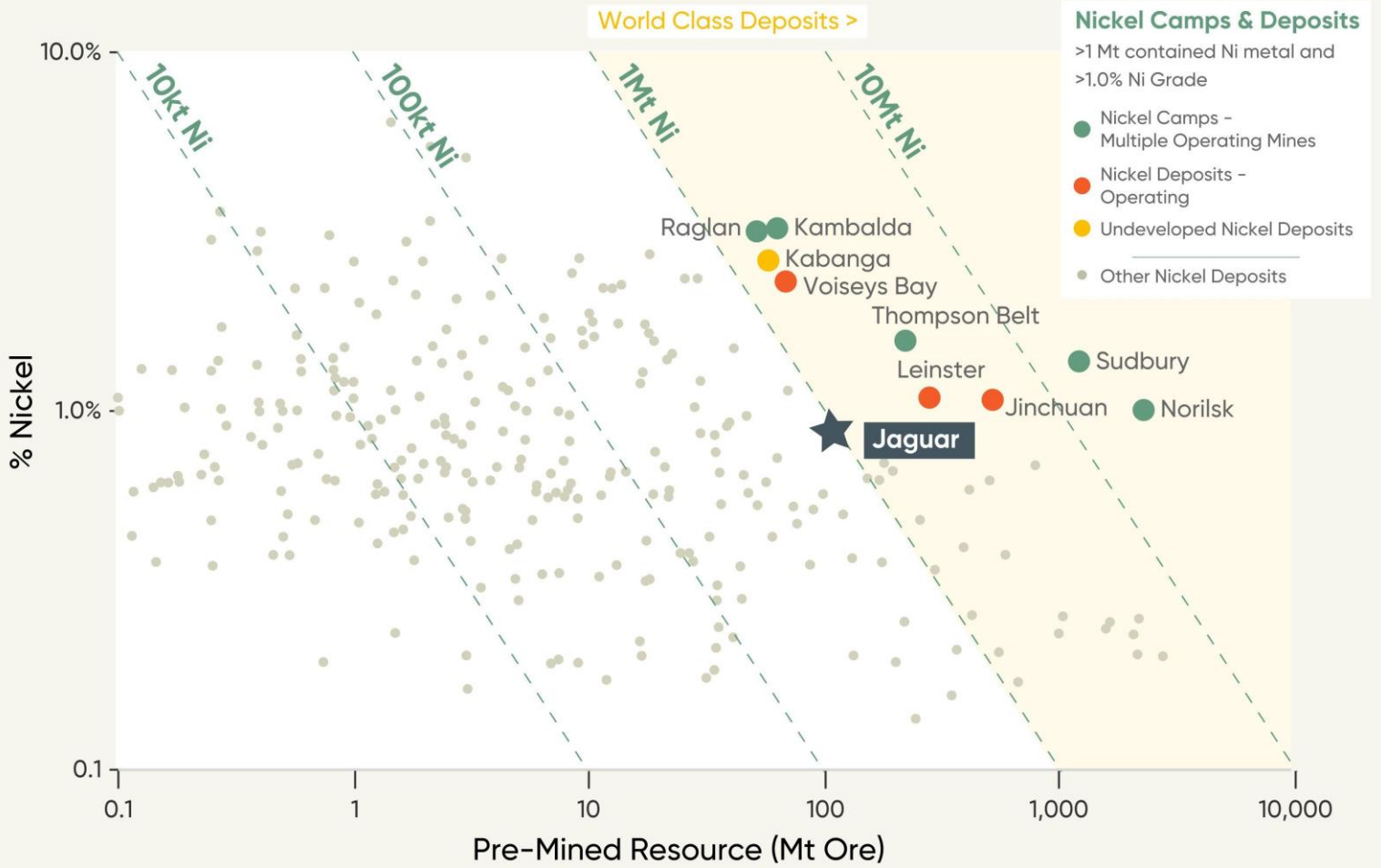
Classification*	Mt	Ni %	Ni Metal
Measured	14.0	1.06	149,400
Indicated	72.6	0.81	588,500
Measured & Indicated	**86.6**	**0.85**	**737,800**
Inferred	22.6	0.93	211,000
Total	**109.2**	**0.87**	**948,900**

** Within pit limits cut-off grade 0.3% Ni; below pit limits cut-off grade 0.7% Ni; Totals are rounded, subtotals may not reflect global totals. All oxide material is considered as waste.*

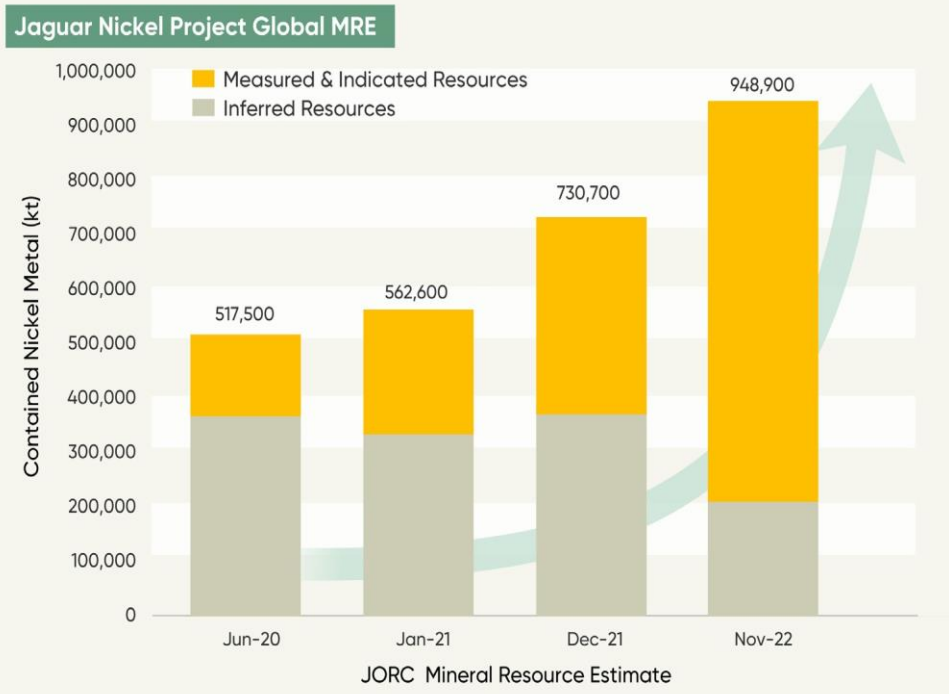
Projeto Jaguar – Depósito Mineral de Classe Mundial

Recurso de Grande Volume e Qualidade

+80% desde a primeira estimativa de recursos de Junho 2020



A próxima atualização da estimativa de recursos será finalizada nos próximos meses para incluir a sondagem realizada em 2023 com expectativa de ultrapassar 1Mt de Ni contido.



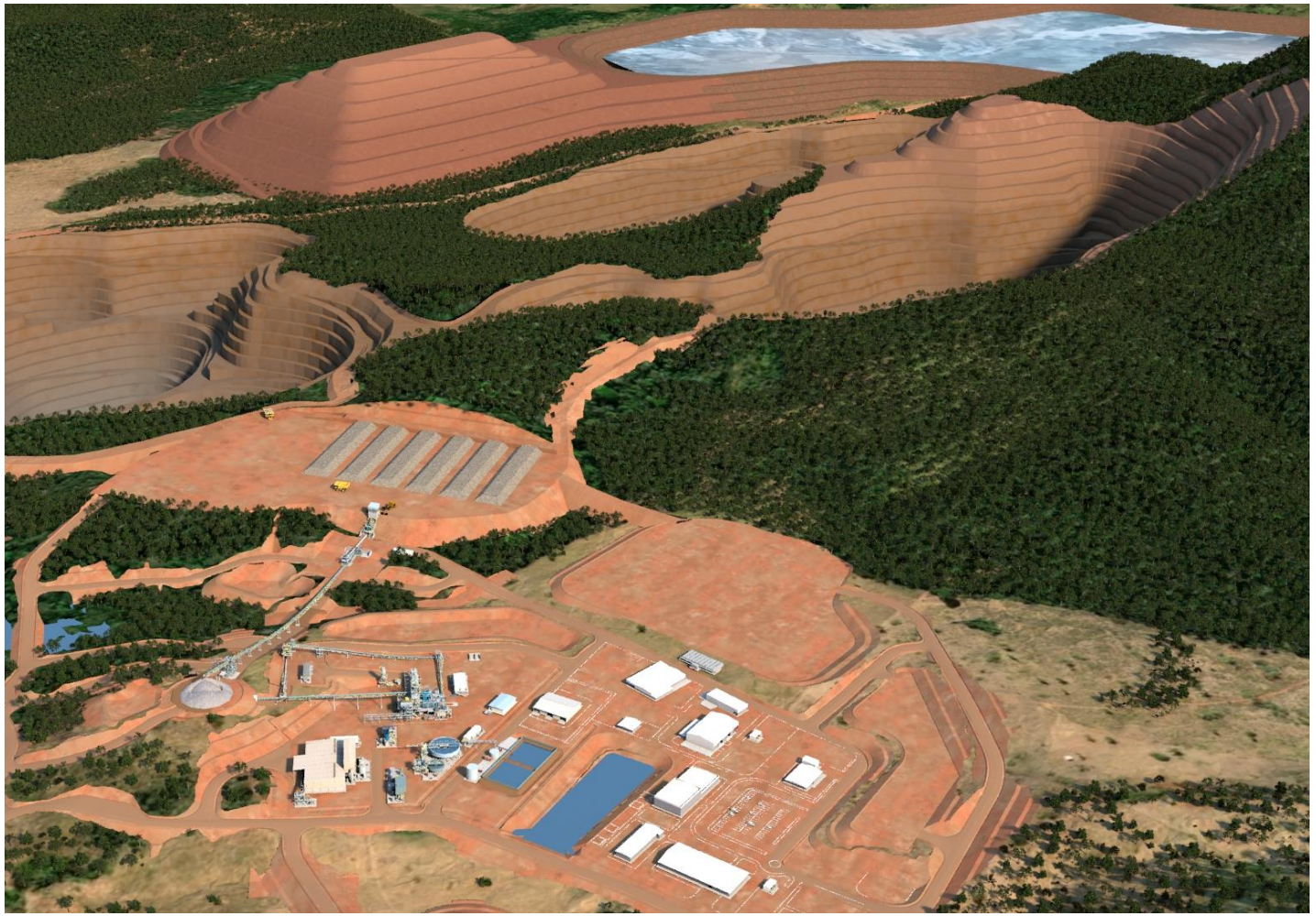
Refer to the table on slide 23 for Underlying Data References

Projeto Jaguar – Estudo de Viabilidade

Estudo de Viabilidade para Operação Céu Aberto em Fase Final

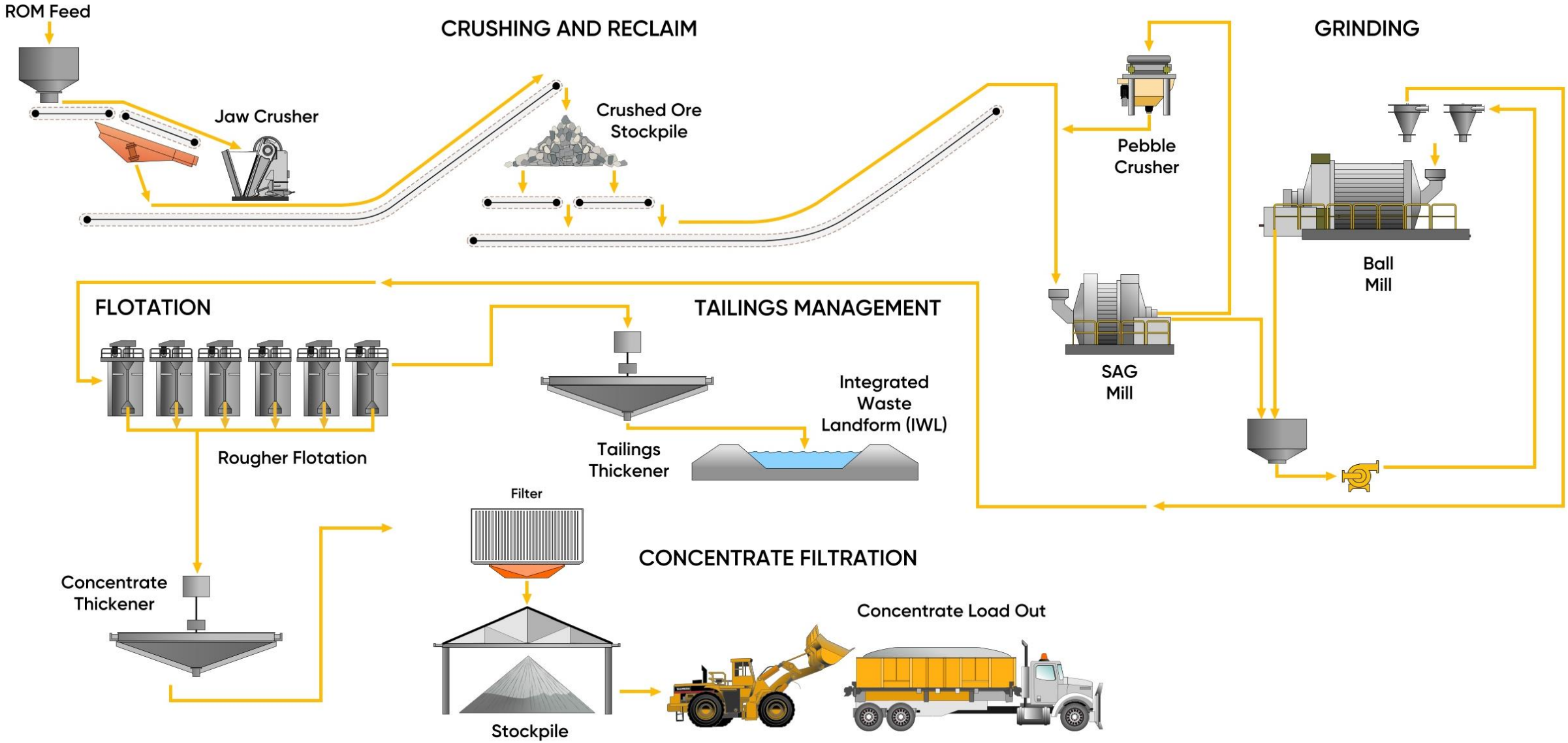
Projeto com baixo OPEX

- Estudo de viabilidade focado em operação de lavra a céu aberto
- Rota metalúrgica convencional com concentração de sulfetos por flotação
- Expectativa de baixo custo operacional
- Finalização e divulgação do DFS até o final de Junho 2024



Projeto Jaguar – Estudo de Viabilidade

Rota de Beneficiamento Convencional



Licenciamento e demais avanços do Projeto

Licenciamento Ambiental em Andamento

- LP obtida em Fevereiro de 2024
- RCA/PCA protocolado em Abril 2024
- Estimativa de obtenção da LI para o segundo semestre de 2024

Outros Programas

- Viveiro de mudas nativas e mais de 13.000 mudas já plantadas em áreas de recomposição definitiva próximo de alcançar equilíbrio entre áreas suprimida e área revegetada.
- Treinamento de cerca de 1000 moradores locais para demandas de construção. (150 em treinamento atualmente)

Fase atual do Projeto Jaguar de Sulfeto de Níquel, na Província de Carajás – PA

Contatos

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