Horizonte Minerals: Investor Presentation

January 2019



TSX:HZM / AIM:HZM horizonteminerals.com



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Unless otherwise indicated, the scientific and technical information contained in this investor presentation has been prepared by or under the supervision of Frank Blanchfield FAusIMM, Andrew Ross FAusIMM of Snowden Mining Industry Consultants, David Haughton MIMM, C Eng of Ausenco, Nic Barcza HLFSAIMM . All are Qualified Persons within the meaning of Canadian National Instrument 43-101 and have acted as consultants to the Company.

For further details on the Araguaia mineral resource, please refer to the press release dated 29 October 2018, which is available on the Company's website at www.horizonteminerals.com and on SEDAR at www.sedar.com. Mineral resources that are not reserves do not have demonstrated economic viability.





Horizonte Minerals The Leading Nickel Development Company



Vermelho•8 Araguaia

Araguaia Nickel Project (ANP) - World Class Deposit

High grade Mineral Reserve of 27.2 Mt of 1.69% Ni giving a 28 year mine life. 119Mt Resource (M&I) @ 1.27% Ni¹.

Robust Feasibility Study (Stage 1)

NPV₈ US\$401 million and IRR 20% generates over US\$1.6 billion in free cash flow over LOM.

Expanding Araguaia to Double Production (Stage 2)

NPV₈ US\$741 million and IRR 23.8% generates over US\$2.6 billion in free cash flow over LOM.

Fully Permitted and Development Ready

Recent **approval of the Construction Licence** positions Horizonte with the environmental permits required to commence construction at Araguaia. Low Cost Proven Processing Technology ANP will utilise Rotary Kiln Electric Furnace (RKEF) process, currently in operation at 40 mines globally.

Vermelho Nickel Cobalt Project (VNCP) – Tier 1

Acquisition from Vale (estimated US\$200 million of spend), DFS complete. Horizonte's second development project.

District Consolidation with Significant Inventory

Combined metal in the ground (M&I) of 3.21Mt contained Ni and 94kt Co². Potential to produce over 50,000 tonnes of nickel per year. 100% owned deposits.

Strong Nickel Fundamentals

Demand growing and limited new nickel projects. Wood Mackenzie long-term forecast of US\$26,450/tonne Ni.

¹Source: Horizonte Minerals Araguaia Nickel Project Feasibility Study, October 20018: 119Mt Resource, Measured and Indicated, at 1.27% Ni, 0.9% Ni cut-off, inclusive of Reserves ²ANP values at 0.90% Ni Cut-Off, VNCP values at 0.90% NiEq Cut-Off



Araguaia FS Highlights: Stage 1 & Stage 2 Production

Significant cash generation around US\$1.6B net cash flow for Stage 1 and \$2.6B after Stage 2 expansion*

NPV₈ of US\$401M for Stage 1 and US\$741M for Stage 2 at US\$14,000/t Ni

Rapid payback of 4.2 years* (Stage 1), 4.5 years (Stage 2)

IRR over 20% (Stage 1), 23.8% (Stage 2) at Nickel Price of US\$14,000/tonne

Low Capital Intensity US\$443M capital cost

Low cost C1 Cost (Brook Hunt) Years 1-10: US\$6,794/t Ni (Stage 1), US\$6,613/t Ni (Stage 2)

Long life initial mine life 28 years with potential to expand production and/or mine life

*Net cash flow and Payback period results based on nickel price of \$14,000/tonne. Additional results for bank Consensus price of \$16,800/t provided in following slides.

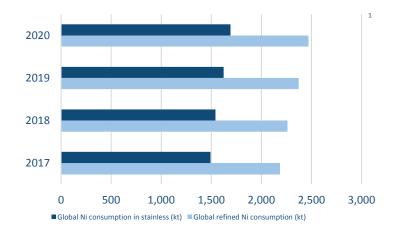


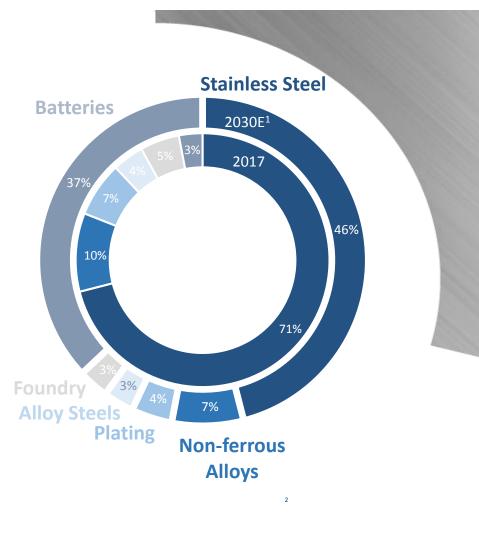


Nickel Market

Current demand vs 2030E – Stainless to dominate

- Approximately two thirds of global nickel production is currently used to produce stainless steel.
- Demand for nickel from the battery market will reshape the nickel industry over the next decade, however stainless growth is forecast to be 12% over the next 4 years.
- Stainless steel industry will continue to be the largest nickel consumer and will remain the main nickel price driver.





² Source: Vale's expected demand growth from the battery market by 2030.

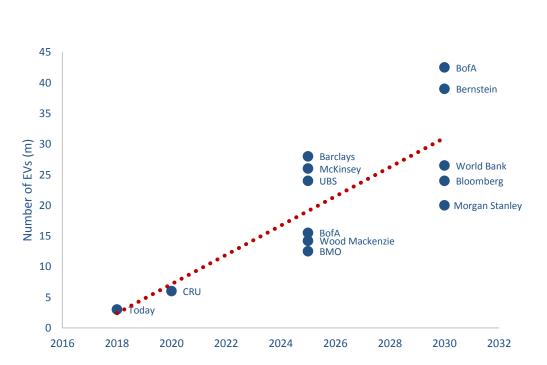


¹ Source: Wood Mackenzie

Future EV Demand Nickel Implications

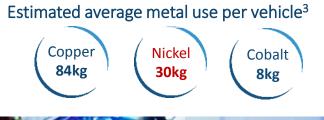
Growing EV Market

The number of EVs is set to increase from 3 million today to approximately 30 million by 2030 (consensus forecast¹), which will require approximately **1.1 million tonnes of new nickel²**, a 50% increase on current global nickel



Nickel Demand Implications

	Grid Storage			Non-ICE Vehicles		
	2020	2025	2030	2020	2025	2030
Ni (kt)	20	71	150	66	299	985





consumption (~2.2Mt).

² Glencore forecast by 2030 to meet the Clean Energy Ministerial's EV 30@30 sales target of 30 million vehicles ³ Glencore, BAML 2018 Global Metals, Mining & Steel Conference

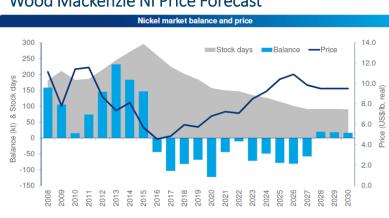
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¹ Source: Consensus forecasts from public announcements and media



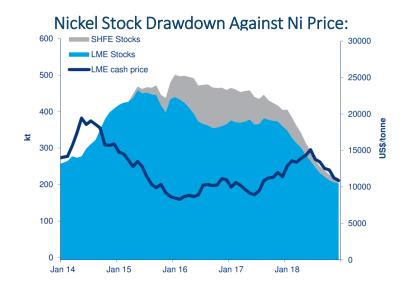
- Nickel production is expected to reach 2.34 Mt in 2019, up 4.1% on 2018, with continued growth forecast, reaching 2.69 Mt by 2025¹.
- Wood Mackenzie have a short term Ni price forecast of US\$13,000 - US\$15,600 / t Ni, increasing to a long term incentive price of US\$26,450 / t Ni.
- LME and SHFE stocks have fallen steadily from 368kt in Dec 17 to 207kt in Dec 18.
- Fundamentals indicate real underlying demand from both stainless and non-stainless sectors (EV) is strong.

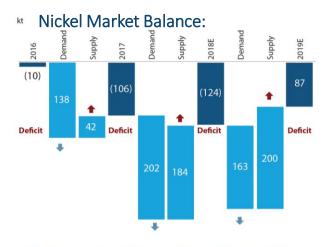


Wood Mackenzie Ni Price Forecast

Source: Wood Mackenzie







Deficit forecast for 2018E revised from -15kt⁽¹⁾ to -124 kt:

Faster-than-expected expansion of stainless output in Indonesia and China

NPI output curtailments due to environmental restrictions in China

HORIZONTE



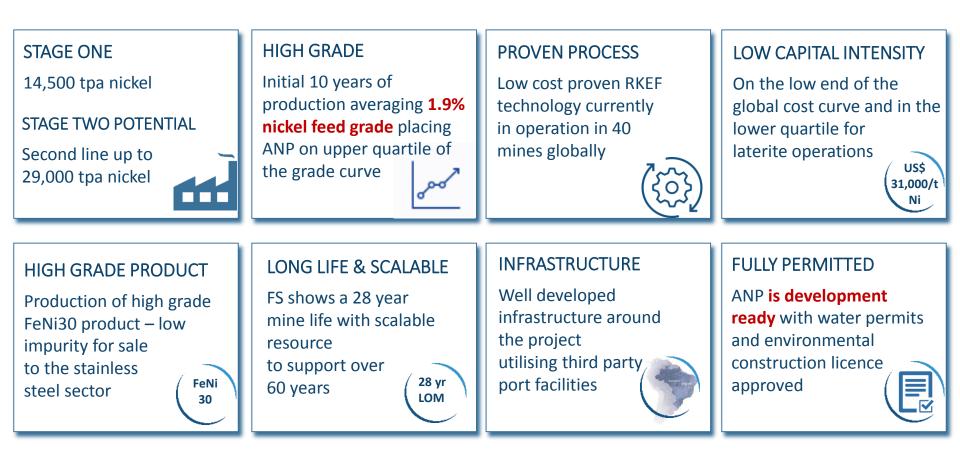


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Araguaia Nickel Project (ANP)





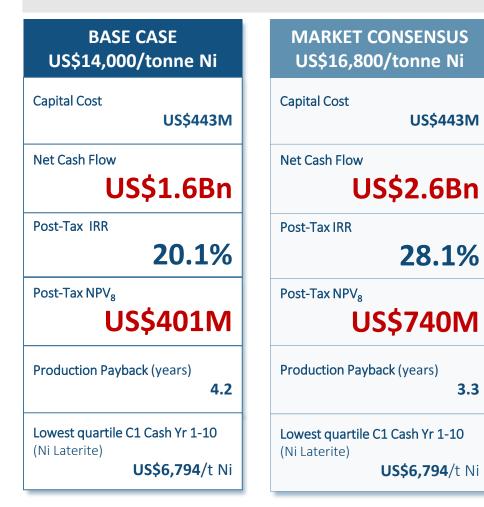
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Feasibility Study in Numbers

Stage 1 (FS) = 14,500 tonnes per annum



Notes:

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- Short-Term Wood Mackenzie forecast of \$14,000 applied as base case.
- Market Consensus: Canadian Imperial Bank of Commerce ("CIBC") Capital Markets consensus forecast long term Nickel price compiled by 21 international banks as of September 2018
- FS to AACE Class 3 costs combined accuracy of 10%+15%
- Brazilian Real to US \$ exchange rate applied = 3.5:1



Designed for Stage2: second RKEF process line doubling production

Stage 1, FS released October 2018

Stage 2 Expansion

Stage 1 **designed to accommodate the addition of a second RKEF process line** with potential to double production from 14,500 t/a Ni up to 29,000 t/a Ni.

Mineral resource **inventory has the grade and scale** to support the Stage 2 expansion from 900 kt/pa throughput (Stage 1) to the rate of 1.8 Mt/a (Stage 2).

The Stage 2 expansion gives a **26-year mine life** generating cash flows after taxation of **US\$2.6 billion.**

No increase in upfront capital cost which remains at the same level at the FS Stage 1 of US\$443 million.

Nickel grade of 1.82% for the first 10 years of the Stage 2 operation.

C1 (Brook Hunt) cash cost year 1 to Year 10 of US\$3.00 per pound ('/lb') of nickel (US\$6,613/t), making Araguaia **a low-cost producer**.

Stage 2 Expansion will utilise existing infrastructure, including:

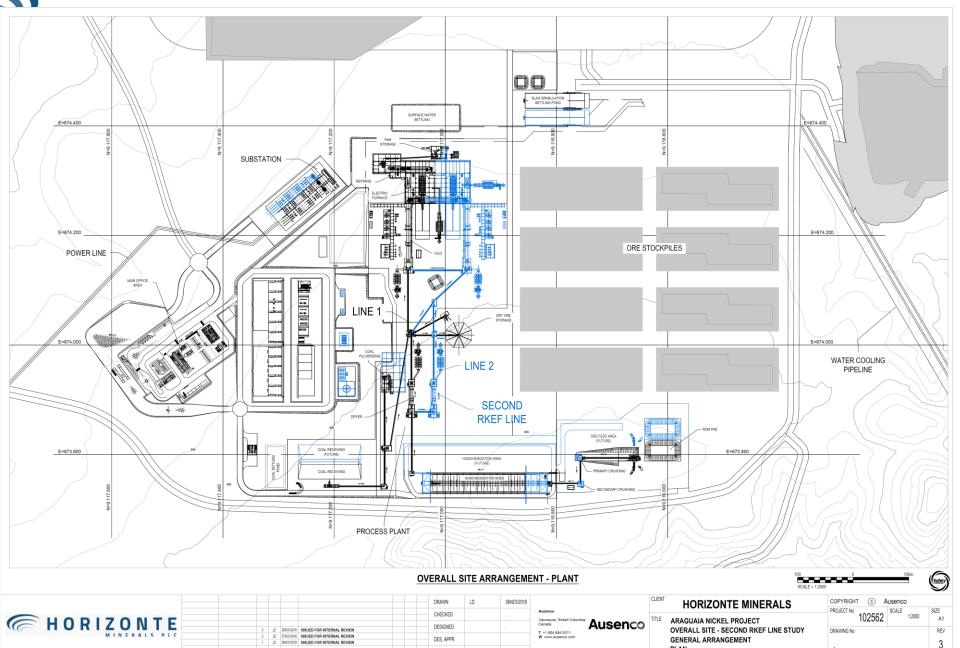
- Main power line to the plant;
- Principle road and bridge infrastructure inbound and outbound to the mine site;
- Overall plant site layout, plant road / offices / stores / workshops;
- Refinery facility;
- The slag storage facility; and
- Water abstraction pipeline.



Second RKEF line is financed through operational cash flow.



Stage 2 Expansion – In Blue



CHKD ENG APPR PROJ APPR

PLAN

DRAWING No. REF. DRAWING No BY DATE REVISION DETAILS

Staged Production Economics

Stage 1 (FS) = 14,500 tonnes per annum

Stage 2 = 29,000 tonnes per annum

BASE CASE	MARKET CONSENSUS	BASE CASE	MARKET CONSENSUS
US\$14,000/tonne Ni	US\$16,800/tonne Ni	US\$14,000/tonne Ni	US\$16,800/tonne Ni
Capital Cost US\$443M	Capital Cost US\$443M	Capital Cost US\$443M	Capital Cost US\$443M
Net Cash Flow	Net Cash Flow	Net Cash Flow	Net Cash Flow
US\$1.6Bn	US\$2.6Bn	US\$2.6Bn	US\$4.0Bn
Post-Tax IRR	Post-Tax IRR	Post-Tax IRR	Post-Tax IRR
20.1%	28.1%	23.8%	31.8%
Post-Tax NPV ₈	Post-Tax NPV ₈	Post-Tax NPV ₈	Post-Tax NPV ₈
US\$401M	US\$740M	US\$741M	US\$1,264M
Production Payback (years) 4.2	Production Payback (years) 3.3	Production Payback (years) 4.5	Production Payback (years) 3.8
Lowest quartile C1 Cash Yr 1-10 (Ni Laterite)			
US\$6,794 /t Ni	US\$6,794 /t Ni	US\$6,613 /t Ni	US\$6,613 /t Ni

Notes:

17

- Short-Term Wood Mackenzie forecast of \$14,000 applied as base case.

 Market Consensus: Canadian Imperial Bank of Commerce ("CIBC") Capital Markets consensus forecast long term Nickel price compiled by 21 international banks as of September 2018
 Brazilian Real to US \$ exchange rate applied = 3.5:1



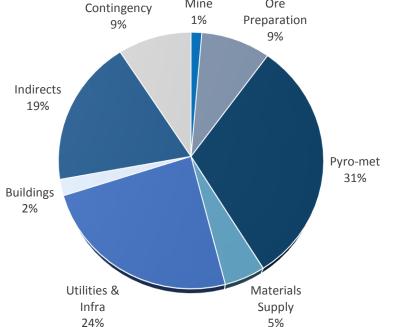
Capital Funding Requirement^{*}

The Preliminary Economic Assessment for Stage 2 Expansion of Araguaia does not require any additional upfront capital. The expansion will be funded from Araguaia's own cashflow.

Capital Cost Estimates*

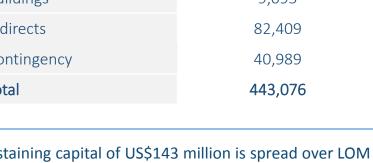
Initial capital cost of US\$443 million is estimated for Araguaia

Costs (US\$'000)	
6,003	
38,731	
137,518	
21,413	
106,918	
9,095	
82,409	
40,989	
443,076	



Sustaining capital of US\$143 million is spread over LOM for the Stage 1 FS. This number increases to \$394 million in sustaining capital over LOM for the Stage 2 expansion.

*Undertaken to AACE class 3 standard with combined accuracy of - 10%+15%. The capital and operating costs are as of Q3 2018.



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Capital Cost Breakdown

Mine

Ore



Low Capital Intensity

Proven RKEF process – low capital intensity of US\$31,000/t Ni.

Scalable

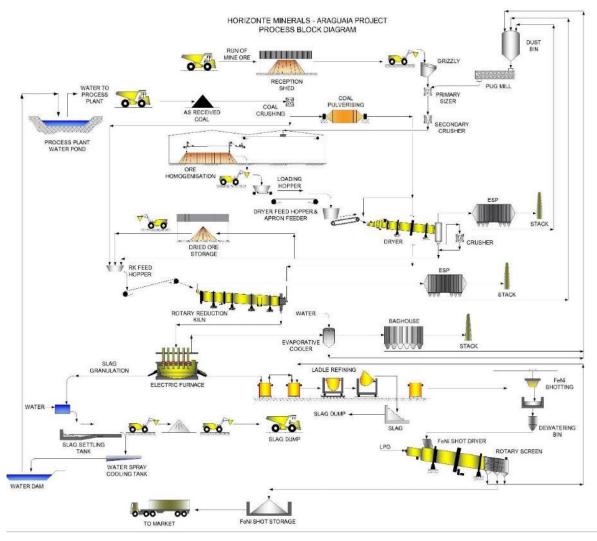
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Stage 1 flow sheet designed to process 900,000t producing 14,500tpa Ni. Designed for addition of a second RKEF line increasing production up to 29,000tpa Ni.

High Grade Product

FeNi30 product for the stainless steel sector – containerised and shipped directly to clients via Vila do Conde Port.







Araguaia is Construction Ready

ANP is development ready with water abstraction permits and environmental Construction Licence (Licença de Instalação) granted: allows development to commence on the process plant and associated infrastructure.

High sustainability standards applied, including CONAMA legislation (Brazilian); IFC Performance Standards 1,2, & 5 and Equator Principles

Approved Social and Environmental Impact Assessment (SEIA), multiple years of baseline data and system of Environmental Control Plans approved by agency.

Multiple years of community engagement conducted in the region and ongoing social programmes.

Limited regional impacts, mine is located in a farming area, no state forest or Indigenous reserves.



Extensive baseline data collection in the region.



Araguaia Funding and Development Plan

Funding Strategy

"Araguaia is currently unleveraged and in a strong position with no agreed offtake, royalty or nickel stream, giving maximum value and flexibility going into the financing process"

Project Development

- Currently funded until the beginning of project finance
- Pre-production capital of US\$443 million
 - Target project finance package of 60 to 65% debt balance equity

Debt

- Undertake project finance discussions / negotiations
- Target syndicate of commercial banks
- ECA options for equipment: UK, Germany & China

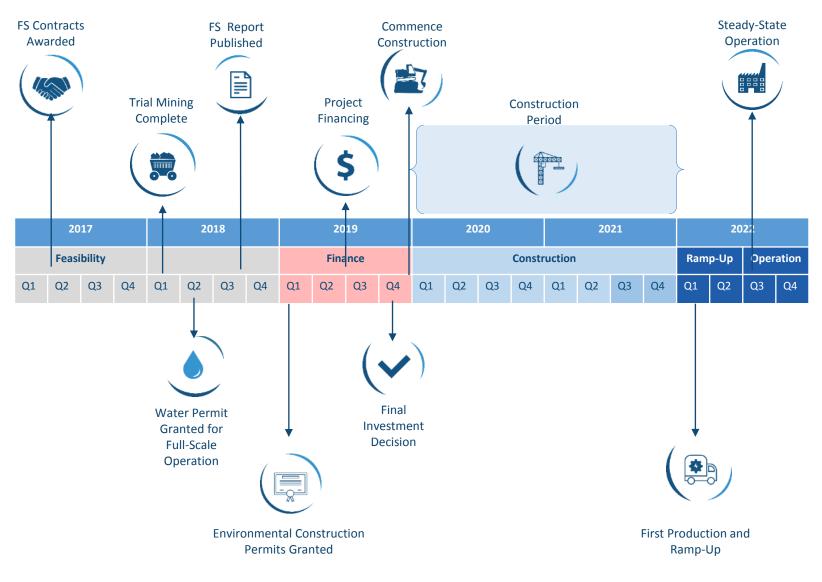
Offtake Agreement

- Part of wider finance package to maximise value to existing shareholders
- Target stainless steel mills and end users











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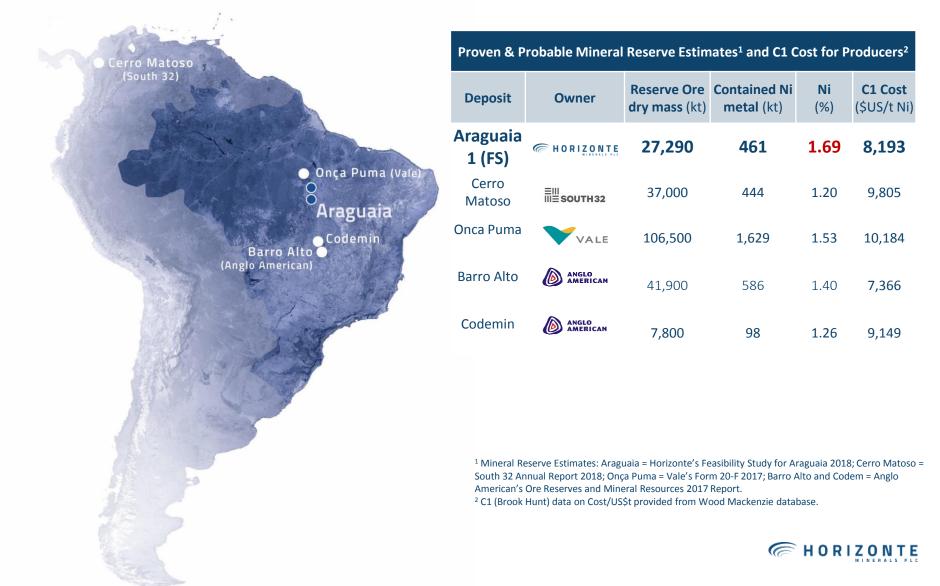
Benchmarking Araguaia



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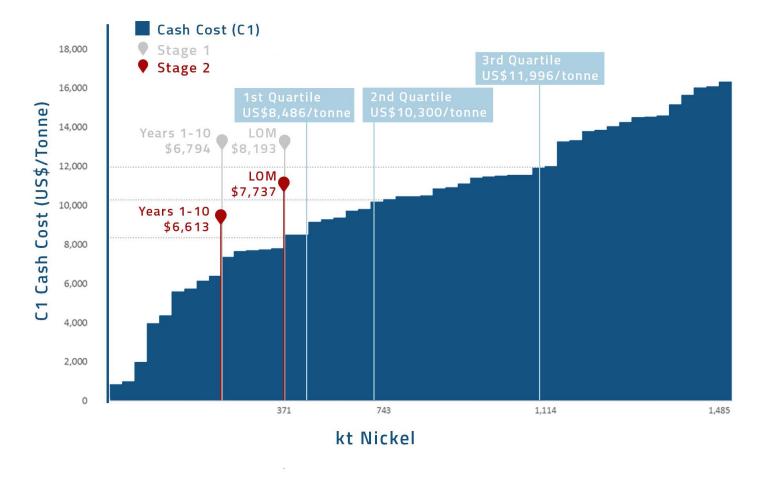


Araguaia benchmarked with South American producing ferronickel operations: *ANP - higher grade and lower potential C1 cost.*



Lower quartile of C1 cost curve for laterites

Araguaia positioned in the lower quartile for laterite production C1 (Brook Hunt) Cash Cost

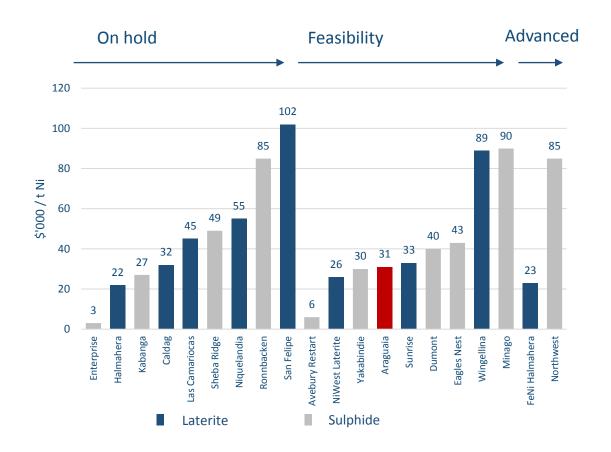


Source:Wood Mackenzie





Capital intensity as \$US'000 /t Ni of annual production



IRR at US\$20,000/tonne

- UBS Research estimates that 26 out of 41 nickel projects deliver a 15% IRR at a long term Ni price of US\$20,000/t.
- Araguaia has an IRR of 36.2% at this price.

Capital Intensity

- Average capital intensity of US\$44k/t Ni.
- Araguaia US\$31k/t Ni.



Source: Wood Mackenzie, UBS analysis

Investment Highlights

Scalable Production

Total district potential nickel production 55,000 to 60,000 tpa nickel

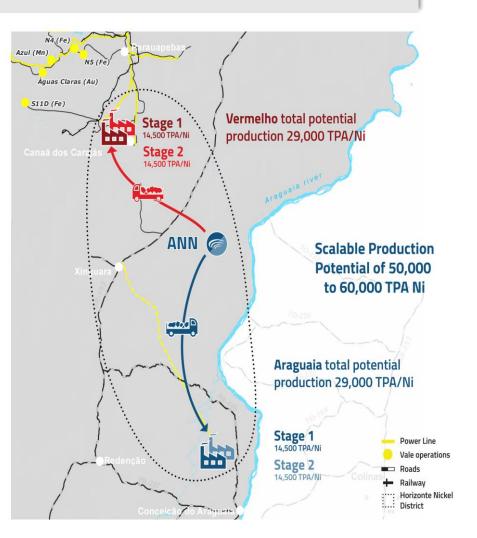
Combination of two 100% owned Tier 1 projects – creating a large, high-grade and flexible resource, consolidating a nickel district.

ANP Potential Production 29,000 tpa nickel

- Araguaia Stage 1 RKEF plant 14,500 tpa nickel - planned production 2022.
- Araguaia Stage 2 second RKEF line doubling capacity.

VNCP Potential Production 29,000 tpa nickel

- Vermehlo Stage 1 RKEF plant to produce 14,500 tpa with the option of a leach circuit to recover the cobalt in the limonite ore.
- Vermehlo Stage 2 second RKEF line doubling capacity.







Economics

- ANP Stage 1 FS robust economics US\$1.6 billion free cash flow, NPV US\$401 million, IRR of 20%.
- ANP Stage 2 economics US\$2.6 billion free cash flow, NPV US\$741 million, IRR of 23.8%.

Process

- De-risked low cost process route, RKEF used in over 40 operations today.
- Produce high grade low impurity FeNi30 supply stainless steel sector.

Location

- Proactive Government support, construction licence granted, project is development ready.
- Close to Carajás mining district, well developed infrastructure including roads, rail, hydroelectric power.

Commodity

- Robust nickel demand expected to grow 2-3% short to mid term and LME inventory levels drawn down to lowest levels witnessed in past five years.
- Limited new short term supply Wood Mackenzie long-term forecast of US\$26,450/tonne.

Scalability

- ANP designed for Stage 2 expansion potential to increase production to 29,000 tpa nickel.
- VNCP Stage 1 & Stage 2 RKEF plant 14,500 to 29,000 tpa total potential 50,000 to 60,000 tpa nickel.



Experienced Team in Resource Projects & Operations

Non-Exec Board



David J. Hall - Chairman

- 30 years in exploration, projects and operations in over 40 countries. Extensive South America and Brazil experience. Previously Minorco, Anglo American Plc and AngloGold.
- Responsible for exploration around the Cerro Vanguardia gold mine in Argentina, Morro Velho and Crixas mines in Brazil and the La Recantada gold deposit in Peru.

Owen Bavinton - Non Executive Director

- Previously Group Head of Exploration and Geosciences at Anglo American Plc.
- Extensive nickel experience both in Brazil and internationally.
- Notable resource projects include: Lisheen (zinc in Ireland); Skorpion (zink in Namibia); Loma de Niquel / Barro Alto (nickel in Venezuela/Brazil).

Alexander N Christopher - Non Executive Director

- Over 30 years of experience in mineral exploration and mining.
- Teck Resources Senior Vice President of Exploration, Projects and Technical Services.
- Extensive resource experience on Tier 1 projects and operations in Canada, Chile and USA, including: copper, zinc & lead, oil sands and steelmaking coal commodities.



William Fisher - Non Executive Director

- Extensive industry experience in major and junior exploration and mining companies.
- Currently on the Boards of Goldquest and Treasury Metals.
- Led GlobeStar Mining Corp. from exploration to become a base metal producer in the Dominican Republic which developed and operated the Cerro de Maimon mine.

Allan M Walker - Non Executive Director

- Over 30 years of experience in energy and natural resources project finance.
- Director of Credit Suisse's project finance team in Brazil.
- Mr. Walker was head of power and infrastructure in London for Standard Bank Plc, a world leader in emerging markets resource banking.

Senior Management



Jeremy J. Martin - CEO and Director

- 20 years geology and mining experience.
- Manged open pit gold mine in Sweden and development stage base metals projects.
- Corp finance and funding experience.
- Founding director in a number of TSX and AIM listed Resource Companies.



Simon Retter - CFO and Company Secretary

- Chartered Accountant.
- Director on a number of listed Resources Companies.
- Experience in public markets, mining sector, reverse takeovers.
- Previously Deloitte and Touche LLP.



Anthony Finch - Feasibility Study Manager

- Over 30 years experience in mining engineering, mining operations and consulting.
- Competent and gualified person in most commodities and most jurisdictions.
- Resource experience includes FS's for : Syrah Resources (Graphite in Mozambique) -Sunridge (Copper Lead Zinc), La Mancha (Gold - Sudan), Uranium One (Tanzania).



Katie Millar - Sustainability & External Affairs Manager

- Corporate Social Responsibility specialist, specialised in Brazilian mining.
- Resource experience (Anglo American Plc): Niobium Feasibility and \$400M construction project (Brazil); Phosphates Feasibility (Brazil); Nickel, Niobium & Phosphates operations (Brazil); Metallurgical Coal Dawson operation (Australia).



Fabiano Araujo - Brazil Country Manager

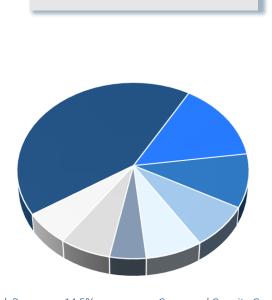
- Brazilian national, over 25 years experience in mining operations and projects.
- Mining engineer with prior senior positions held in Vale, Snowden and Accelor.
- Significant experience on major iron ore projects including :S11D, Brucutu & Serra Azul (Brazil); Mt Wright expansion (Canada) and Yekepa (Liberia).





Corporate Snapshot

Key Shareholders



- Teck Resources 14.5%
- JP Morgan 8.1%
- Lombard Odier 4.8%
- Glencore 6.1%

- Canaccord Genuity Group 9.9%
- City Financial 7.5%
- Richard Griffiths 6.7%
- Other 42.4%



Ticker	AIM: HZM	TSX: HZM	
Share price	2.35p	C\$0.04	
Shares in issue (M)	1,446	1,446	
Market Cap	£33.9M	C\$63.4M	
Cash + Equivalents	£7.9M	C\$13.4M	
52 week trading	AIM: 1.74p-4.98p	(C\$0.03 – C\$0.09)	
Nomad & Broker	Numis	n/a	
Analyst coverage	Numis/Shard	Paradigm Capital	
(SP data from 24 01 19)			

(SP data from 24.01.19) (Cash at 30 Sept 2018)



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