

# **Cautionary Statements**



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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.

# A Significant, Near-Term Nickel Producer







NICKEL IN DEMAND



SIGNIFICANT PRODUCTION PROFILE



WORLD CLASS
MINING
JURISDICTION



SUSTAINABILITY FOCUSED

High grade

Critical metal in clean energy transition

Scalable to ~50,000/t per year

Developed infrastructure of Carajas mining district

Low carbon

Low cost

Limited new supply outside of Indonesia

Araguaia is construction ready

Access to labour, roads & ports Local employment & social investment

Long mine life

HZM able to supply stainless steel & battery markets

Vermelho is at feasibility stage

Hydroelectric power

Transparent reporting aligned with international standards

# Our Resource Growth in Brazil Over 800% in 7 Years



0.90% NiEq Cut-Off

0.90% NiEq Cut-Off

NI MINERAL RESOURCES (MT) ■ Total Measured (MT) ■ Total Indicated (MT) ■ Total Inferred (MT) Vermelho 163.54 107.57 Araguaia **Teck** GLENCORE INTERNATIONAL plo # HORIZONTE 193.87 179.57 101.89 71.98 39.3 18.17 2012 2010 2014 2018 2016 2019 **Technical Report** Exploration PFS PFS Araguaia 0.90% Ni Cut-Araguaia & SdT 0.90% Ni Cut-0.95% Ni Cut-Off Grassroots 0.95% Ni Cut-Off 0.90% Ni Cut-Off Off + Vermelho Off + Vermelho

# Developing a New Nickel District in an Established Mining Region



Itaqui Port

(contingency port)



VALE

**VERMELHO** 100% HZM Owned

Approved construction decision to build an HPAL plant to produce 46,000t/pa Ni and 2,800t/pa Co with a LOM of 40 years

Belo Monte Dam (hydropower)

Tucuruí Dam (hydropower)

**GLENCORE** 

**ARAGUAIA NORTH** 100% HZM Owned

PFS to produce 32,000t/pa ferronickel grading 35% Ni with a LOM of 26 years

Onça Puma (Vale)





Araguaia North

Marabá

Vermelho



Xinguara

Floresta

Araguaia South

Conceição



**ARAGUAIA SOUTH** 100% HZM Owned

**CHORIZONTE** 

FS Stage 1 and Stage 2 to produce 29,000t/pa ferronickel and matte grading 28% Ni with a LOM of 30 years

Araguaia South



500 kV

Power Line (500 kV)

Railway

Paved Road

Horizonte Nickel District

Carajás Mining District

Copper Mines

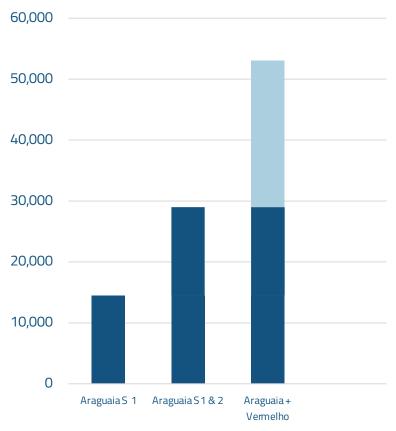
**Gold Mines** 

**Nickel Mines** 

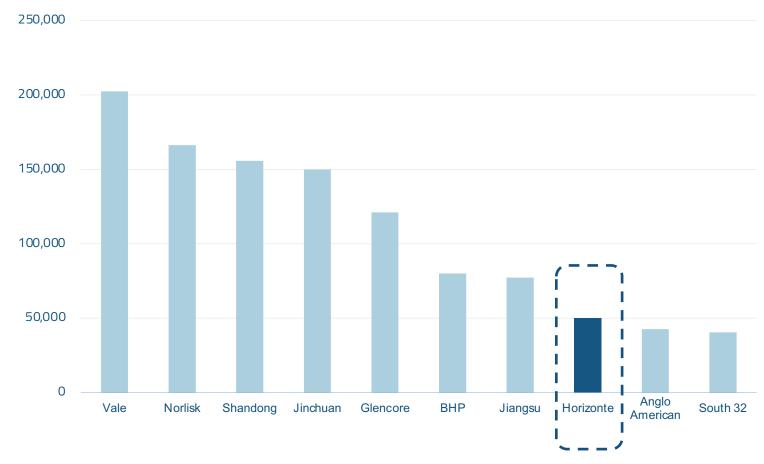
# **Significant Scalable Production Profile**



# Combined production potential ~50,000t/pa



#### **Annual Nickel Production 2019**



Source: S&P Global

## **Committed to Best Practice Sustainability Standards**



**E**nvironmental Stewardship

Our **People** 

Our **Communities** 

Hydroelectric power
Lowest quartile CO<sub>2</sub>/t nickel producers

Local employer

53% Brazil based employees from Parà

Catalyst for socio-economic change **\$700M contribution** LOM of Araguaia

Optimised resource efficiency ~90% of water at Araguaia will be recycled

Inclusive employer 38% female employees

Local Development Agenda thriving, diversified local economies

**Biodiversity** Action Plan in place goal of net positive impact

**Upskilling** partnership with local technical schools

Local supply chain 79 local suppliers

Transparent **GHG reporting**Brazil GHG Protocol Program & TCFD

Health & Safety is a priority

O fatalities or LTIs

Community support COVID, COPAG, Barong

#### Governance











**S**ocial Investment



# **Nickel is a Critical Metal** ~323M EVs expected to be in operation globally by 2040 (2)

A 60kwh NMC battery needs 39kg of nickel (3)

Nickelcontaining alloys prevent corrosion in geothermal energy (1) generation

Solar Energy

Nickel

Nickel

Nickel alloys play an important role in ensuring the integrity, durability & long-term performance of

Carbon capture & storage

~200t of nickel required to capture & store 1.5Mt CO<sup>2</sup>/pa<sup>(4)</sup>

Ni

Hydropower

nuclear power stations (5)

Global expansion plans: 50 under construction 100 on order/planned |300 proposed <sup>(6)</sup>

Ni

Ni

**Biomass** 

Hydro-electric plants need durable nickelrich stainless steel turbines

Global hydro-electric capacity expected to grow 70% by 2040 (7)

Nickel improves strength & toughness of wind turbines

HORIZONTE

Each turbine requires ~2,000kg nickel (8)



Electric Vehicles





6. World Nuclear Org., Plan for New Reactors Worldwide (2021)

7. Nickel Institute, Nickel Magazine Vol 36 (2021) 8. Nickel Institute, Nickel Magazine Vol 36 (2021)

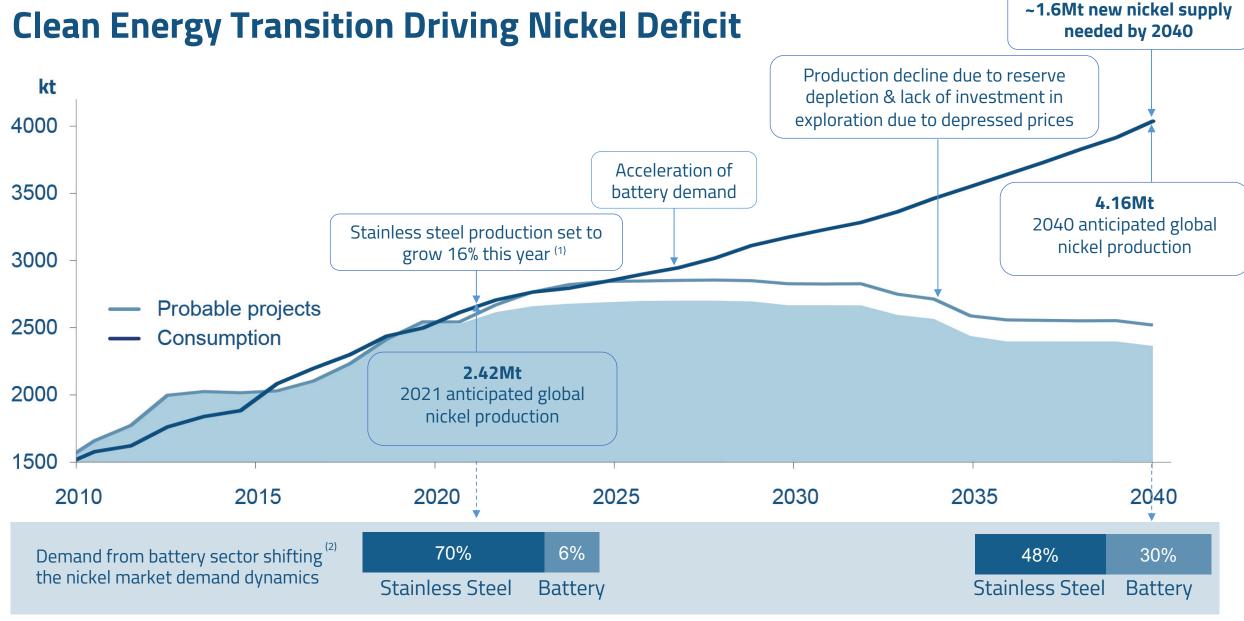
**Nuclear Power** 

1. Nickel Institute, Nickel Magazine Vol 36 (2021)

2. Wood Mackenzie (August 2020)

4. Nickel Institute, Nickel Magazine Vol 36 (2021)

5. Nickel Institute, Nickel Alloys in Energy and Power





<sup>1.</sup> Macquarie, Feeding the battery and stainless dragons (2021)

<sup>2.</sup> Reuters



# ARAGUAIA HORIZONTE'S FERRONICKEL PROJECT



**Scalable production** ~28,000/t Ni per year



Supply **established** stainless steel market



High grade FeNi product produced in successful pilot plant



Established **RKEF** technology



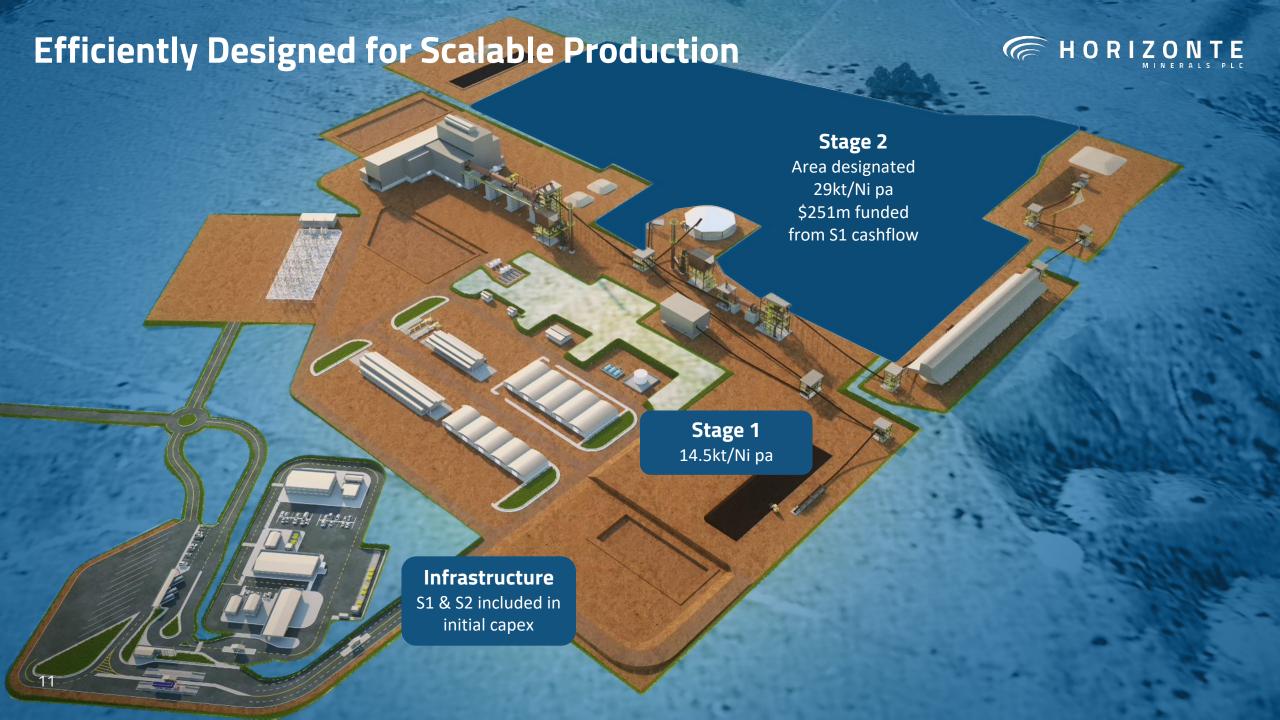
Shallow open pit with topsoil stocked for rehabilitation



**Inert by-product** Silica slag



Long mine life 28 years with resources to extend

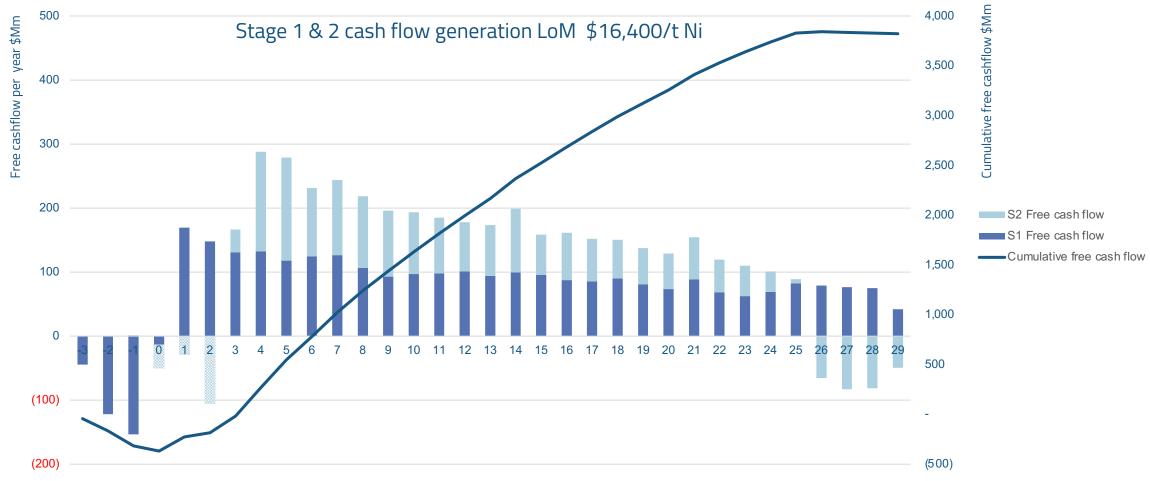


#### **Robust FS Economics**

STAGE 1 STAGE 2 US\$16,400/tonne Ni US\$16,400/tonne Ni Capital Cost **US\$251M** US\$443M \* **Net Cash Flow** US\$2.4Bn US\$3.8Bn Post-Tax IRR 27.0% 30.7% Post-Tax NPV<sub>8</sub> US\$691 M **US\$1.2B** Production Payback ~3 years ~4 years Lowest quartile C1 Cash Yr 1-10 (Ni Laterite) **US\$6,613**/t Ni **US\$6,794**/t Ni Average PBT per annum **US\$94M US\$174M** 



## ~US\$3.8B Cumulative Free Cashflow over LoM



**US\$145M/pa** average unleveraged free cash flow years 1-4

S1 cashflow funds S2 construction to come online in year 5

**US\$96M/pa** average unleveraged free cash flow LoM

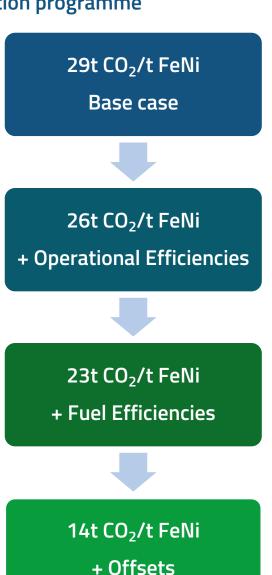
Combined cashflow ~US\$210M/pa average unleveraged LoM

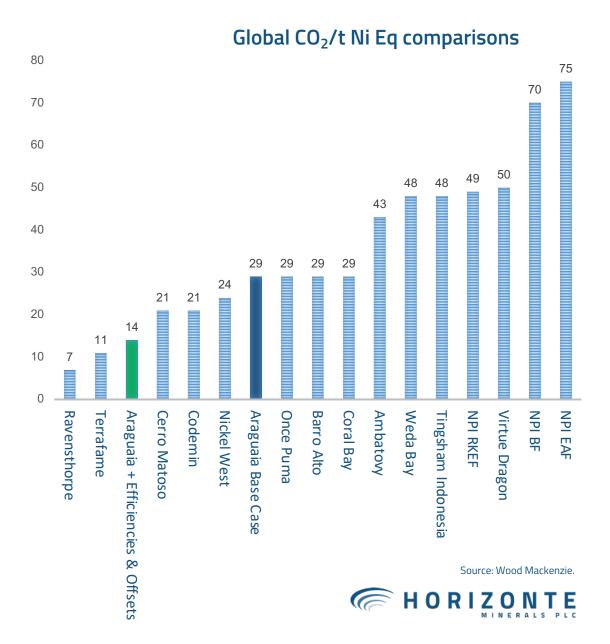
## Pathway to Become One of the Lowest Carbon Projects Globally

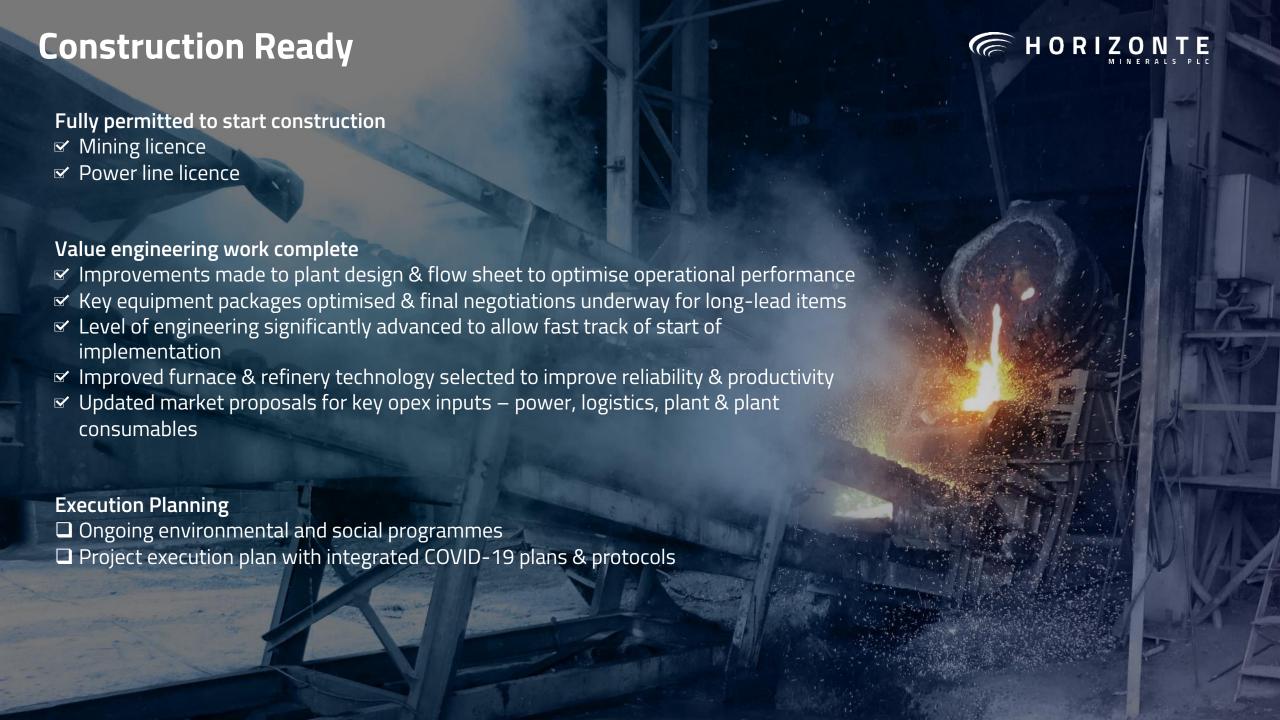
#### CO<sub>2</sub> emissions reduction programme

- Commence operating Araguaia using the lowest-risk and most efficient route to produce ferro-nickel
- Will evolve Araguaia to becoming one of the lowest carbon footprint producers per tonne of nickel within our FeNi peer group
- Estimate possibilities to reduce up to 70kt of CO<sub>2</sub> per annum, ~16% of total footprint once in operation
- Proven operational efficiencies such as heat transfer capture combined with efficient fuel substitutes in the dryer and reductant processes
- HZM has committed to reporting & transparency measures, including monitoring GHG and reporting to the Brazilian GHG Protocol programme

Source: IGEO Report, GHG ANP - Benchmark 05 ABR 21









## HORIZONTE

#### Building an industry-leading operations team

- ✓ Includes leading ferro-nickel construction & operational technical management in Brazil
- ☑ Appointment of experienced Head of Projects to lead team
- ☐ Large-scale recruitment programme underway with senior appointments being finalised

#### Placing orders on long-lead items

- ☐ Final stages of furnace selection & award of contract
- ☐ Final stages of rotary kiln & balance of plant equipment selection & award of contract

#### Advancing critical path items

- Detailed engineering on power line
- ☐ Finalising selection & award of EPCM contract

# **Funding Pathway to Commence Construction**



Endeavour Financial engaged to target Project Finance package of 60-65% debt with the balance in equity.

**US\$25M** upfront cash payment in exchange for a 2.25% royalty

August 2019



# Credit approval for US\$346.2M Senior Debt Facility secured September 2021 Tranche A Tranche B

US\$146.2M to be guaranteed by ECAs in relation to key equipment & service contracts

> 10.5 years LIBOR +1.80%



**FINNVERA** 

Tranche B **US\$200M** 

8.5 years LIBOR + 4.25-4.75%











#### OFFTAKE

Finalising negotiations for 100% of product

#### **EQUITY**

# Cornerstone investor

Non-binding, conditional term sheet negotiated

December 2020

#### Capital markets

Interest from new investors and support from shareholders

US\$25M fundraise to commence early works

February 2021

#### **Lead Team**



**Michael Drake Head of Projects** 

Mechanical Engineer with over 25 years experience specialising in large capex project build. A global leader in nickel project implementation. Led the complete furnace rebuild at Cerro Matoso (BHP) in South America & leadership of BHP Nickel unit US\$5bn capital West's investment program in Australia.



**Juan Fañas Furnace Lead** 

Chemical Engineer with over 30 years experience in the laterite smelting operation, maintenance, Fe-Ni refining, furnace rebuild, plant start up. Previously Manager of Cerro Matoso (BHP).



Leo Vianna **Araguaia Project Director** 

Mechanical Mechatronic & Engineer with over 24 years experience project in implementation & management. Previously Project Director for Vale's B\$1.9B Bahodopi nickel Additional project in Asia. experience with Vale in Mozambique & Brazil.



**Lead Process Engineer** 

Material Metallurgical & Engineer, with over 20 years experience. Previously Anglo Process Engineer at Barro Alto (Anglo American) reviewing refractories project for electrical workforce furnace. refinery, development, training department monitoring process for ore preparation, rotary kilns, refractories & RKEF.



Marcia Weisen **Commissioning & Business Readiness Manager** 

Electrical Engineer with over 30 experience build & years commissioning electrical Commissioning furnaces. Manager of Onça Puma FeNi plant. Commissioning Director of Koniambo Nickel FeNi plant.



**Luiz Fernandes** Safety and Health Manager

Chemical Engineer, postgraduated in Safety Engineering and Quality Engineering, with an international MBA Environment and Sustainability. 30 years experience leading safety, health, environment disciplines including social affairs, community relations, corporate governance, compliance, risk management and auditing.



**Katie Millar** Head of ESG

Corporate Responsibility Social specialist with experience in Brazilian Australian mining experience: sectors. Resource & Feasibility Niobium \$400M construction project (Anglo **Phosphates** Brazil); American, Feasibility (Brazil); Nickel, Niobium & phosphates operations (Brazil).



HORIZONTE

**Anthony Finch Study Manager** 

Over 30 years experience in mining engineering, mining operations consulting. & Competent and qualified person. Notable nickel experience: Sorowako (Vale, Indonesia), Ravensthorpe (BHP, Austalia) & Eagle Mine (Rio Tinto, USA).



Mechanical Engineer with over 30 years experience in pryo & smelting. Held Engineering Manager roles at Anglo American, HATCH and Kumba Iron ore. An extensive career managing small & large scale projects from inception to final handover, developing project plans and ensuring efficient project completion & close-out.



Brazilian social & environmental permitting specialist . Significant experience working in the mining sector in Parà. Previously a consultant for ERM working on projects across Brazil.



# VERMELHO

HORIZONTE'S NICKEL AND COBALT PROJECT



~25,000t Nickel & ~1,250t Cobalt per year



Post beneficiated feed grade >1.5% Ni for initial 17 years

27k/t

**Low Capital Intensity** (/t ni)



Improved HPAL technology being developed by Chinese



Testwork completed battery grade product



**Additional Revenue** Fertiliser by-product (kieserite)



**Long Mine Life** 38 years



Scheduled to come online to coincide with predicted EV demand



Can use HPAL or RKEF to supply stainless steel or battery market

## **PFS Economics**

	BASE CASE NICKEL PRICE US\$16,400/tonne Ni	CURRENT SPOT PRICE US\$19,800/tonne Ni
Capital Cost	US\$652M	US\$652M
Net Cash Flow	US\$7.3Bn	US\$9.5Bn
Post-Tax IRR	26.3%	31.5%
Post-Tax NPV <sub>8</sub>	US\$1.7Bn	US\$2.3Bn
Production Payback	4.2 years	3.6 years
Lowest quartile C1 Cash Yr 1-10 (Ni Laterite)	<b>US\$7,286</b> /t Ni	<b>US\$7,286</b> /t Ni
All In Sustaining Costs	US\$7,933/t Ni	US\$7,933/t Ni
Average Production	24kt Ni/a	24kt Ni/a

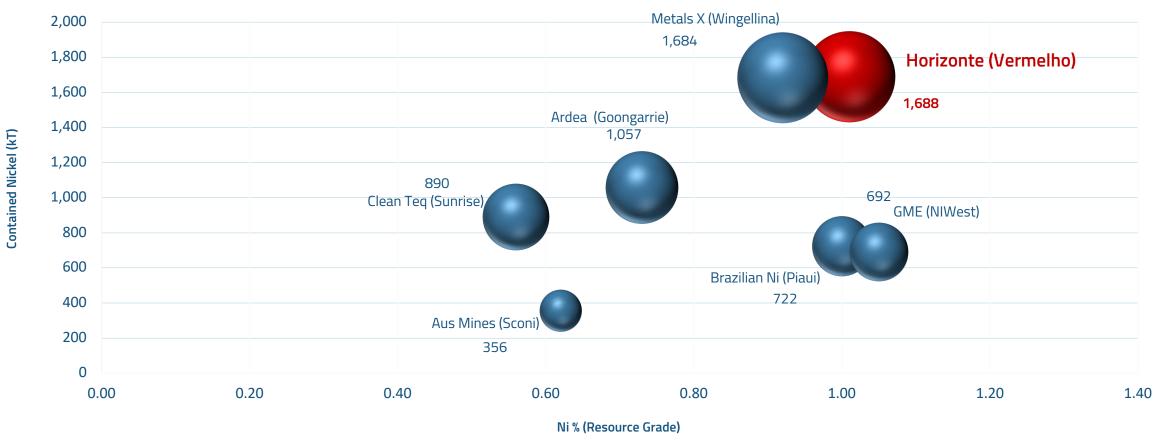
	Ore (mT)	Ni (%)	Contained Ni metal (kT)
Reserves	141.3	0.91	1,286
Measured + Indicated	145.7	1.05	1,526
Inferred	3.1	0.96	29



# A Tier 1 Project







Note: Resources based on published reports in 2018, for Measured and Indicated resources. The category(s) of the MRE for Metals X Limited - Wingellina Project has not been presented in Measured, Indicated and Inferred categories so is unknown if includes Inferred resources.

Sources include: Snowden NI 43-101 - June 2018 (Vermelho); Clean TeQ ASX announcement 28 Sept. 2020 (Sunrise Project); Ardea Resources 2019 Annual Report, ASX announcement 24 Oct. 2019 (Goongarrie Project); Australian Mines 2020 Annual Report (Sconi Project); Brazilian Nickel Piaui fact sheet 2021 (Piaui Project); Metals X Limited Annual Report June 2020 (Wingellina Project); GME Resources Press Release on NiWest PFS August 2018, Website Deb. 20021 (NiWest Project).

# **Moving to Feasibility Stage**



#### COMPLETED

Acquisition from Vale

Update N1 43-101 Mineral Resource Estimate

Test work to produce battery grade product

Pre-Feasibility Study

#### IN PROGRESS

Advance permitting

Feasibility Study

#### **FUTURE WORKSTREAMS**

Value engineering & early works

Secure funding & start construction

# Our Transition into a Next Generation Producer

New exploration targets to increase resource base

Scalable resource base to become a major nickel producer – 50,000 tpa Ni

First production from Vermelho inline with expected acceleration of EV battery demand

Araguaia Stage 2 – construction decision to double production – 29,000 tpa Ni

Strong nickel price supported by stainless steel demand in clean energy transition

Araguaia first nickel expected late 2023/early 2024

Vermelho to progress to Feasibility Stage in 2021

Araguaia construction commences 2021

~65% of Araguaia Stage 1 financing secured from 5 international banks – 14,500tpa Ni



#### Horizonte's Potential Value





Market cap based ongAugust 2021 valuation Araguaia Stage 1 & 2 anticipated production Average C1 cash costs S1 & 2 Average grade for first 10 years of production S1 & 2



Market cap based on August 2021 valuation. 1 AUD: 0.55 GBP 2020 total nickel production attributable to Nickel Mines Average C1 cash costs June 2021 Quarter

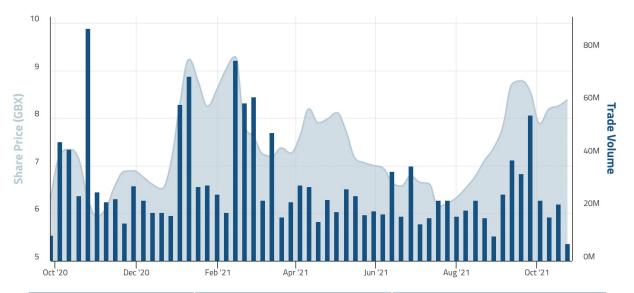




#### Share price performance LTM



<b>Top Shareholders</b> as of 30 September 2021				
Shareholder   Number of shares		% of issued capital		
Hargreaves Lansdown	265,361,101	15.61%		
Interactive Investor	211,096,522	12.42%		
Teck Resources	210,207,179	12.36%		
Canaccord Genuity WM	168,930,000	9.94%		
HSDL	95,028,933	5.59%		
Glencore	88,362,682	5.20%		
AJ Bell	77,922,099	4.58%		



Ticker	AIM: HZM	TSX: HZM
Share price	GBP8p*	C\$0.14*
Shares in issue	1,700,155,740	1,700,155,740
Market Cap	£138.6M	C\$246M
Cash + Equivalents	~£22.2M	~C\$38.5M
52 week trading	AIM: 5.10p – 10.10p	(C\$0.10 – C\$0.18)
Analyst coverage	Peel Hunt (TP 14p) Cantor Fitzgerald (TP 29p) BMO (TP 12p)	Paradigm (TP C\$0.50) Cantor Fitzgerald (TP C\$0.50) Cormark (TP C\$0.70)

<sup>\*</sup>As of 28 October 2021





#### **Board of Directors**





#### **David Hall, Chairman**

- 40 years experience in exploration, projects and operations in 50 countries with extensive South America and Brazil experience.
- Major company experience with Anglo American, Minorco and AngloGold Ashanti.
- Established AngloGold in South America leading to major discoveries in Colombia.



#### **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).



#### Sepanta Dorri, Non-Executive Director

- 15 years of experience in mining & metals in the areas of corporate development, financial & investment banking.
- VP, Corporate Development of Teck Resources since 2018.
- Canadian Chartered Professional Accountant and holds a Bachelor of Accountancy and a Master of Accountancy, from the University of Waterloo.



#### Jeremy Martin, CEO

- Over 21 years experience as corporate geologist with demonstrable track record across Latin America and Europe.
- Strong technical experience across early-stage exploration, feasibility study, project evaluation, permitting through to project development and mine operation.
- Diverse exposure across capital markets, M&A, funding on AIM, the TSX, IPO's, RTO's and established JVs with a number of major mining companies.



#### **Allan Walker, Non-Executive Director**

- Over 35 years experience in investment banking and funds management focussed mainly on energy and natural resources project finance and private equity in emerging markets.
- Previously held leadership positions with Masdar Capital in Abu Dhabi, Black River AM, ING Barings and Credit Suisse First Boston in London and Brazil. Received financial training with JP Morgan in New York.



#### 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.

# Araguaia Mineral Resources & Ore Reserves Statement



	Category	Tonnage (kT)	Contained Ni metal (kT)	Ni (%)	Co (%)	Fe (%)	MgO (%)	SiO <sub>2</sub> (%)
	Measured	18,168	261	1.44	0.05	16.26	17.51	39.91
Resources	Indicated	101,169	1,264	1.25	0.06	19.39	16.90	36.26
	Measured + Indicated	119,337	1,525	1.27	0.06	18.91	16.99	36.81
	Inferred	12,920	154	1.19	0.06	20.21	14.90	36.77

		Proved	Probable	TOTAL
	Ore (Mt)	7.33	19.96	27.29
Bacamiras	Ni (%)	1.72	1.68	1.69
Reserves	Fe (%)	16.01	17.57	17.15
	SiO2:MgO	3.01	2.36	2.52
	Al2O3 (%)	6.00	4.56	4.94

Note: Totals may not add due to rounding. Mineral Resources are inclusive of Mineral Reserves. Mineral resource estimate at 0.9% nickel cut-off (Source: Araguaia - HZM 2016 Pre Feasibility Study)

**Note:** All economic Indicated Resources within the pit designs were classified as Probable Reserves and all Measured Resources at Pequizeiro were classified as Proved Reserves. Measured Resources at Vale dos Sonhos were classified as Probable Reserves due to higher levels of uncertainty around the modifying factors for this pit.

### **Vermelho Mineral Resources & Ore Reserves Statement**

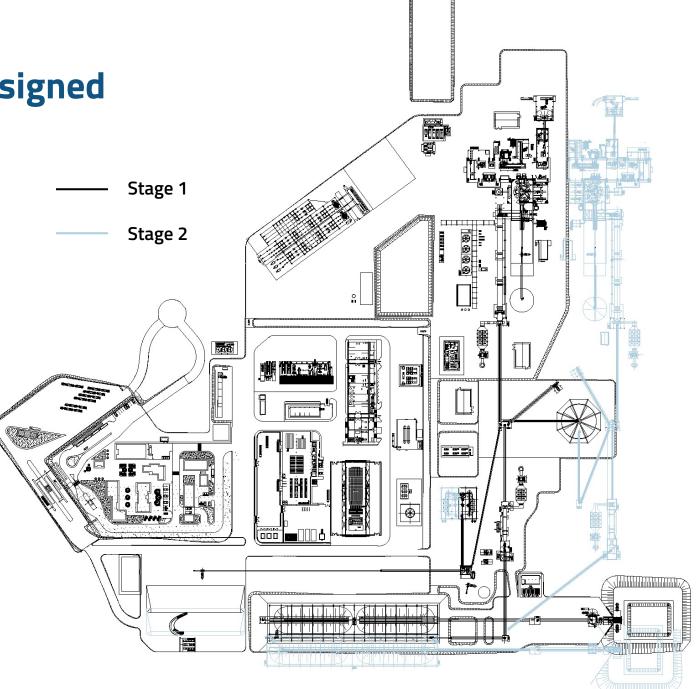


	Category	Tonnage (mT)	Contained Ni metal (kT)	Ni (%)	Co (%)	Fe (%)	MgO (%)	SiO <sub>2</sub> (%)
	Measured	140.8	1,477	1.05	0.05	31.1	11.3	41.0
Resources	Indicated	5.0	49	0.99	0.06	26.3	8.6	49.0
	Measured + Indicated	145.7	1,526	1.05	0.05	30.9	11.2	41.3
	Inferred	3.1	29	0.96	0.04	24.0	15.5	42.2

		Probable
	Ore (Mt)	141.3
	Ni (%)	0.91
Reserves	Co (%)	0.052
	Fe (%)	23.1
	Mg (%)	3.81
	AI (%)	0.79

**Note:** Totals may not add due to rounding. Mineral Resources are inclusive of Mineral Reserves. Mineral resource estimate at 0.9% nickel cut-off (Source: Vermelho - Pre Feasibility Study)





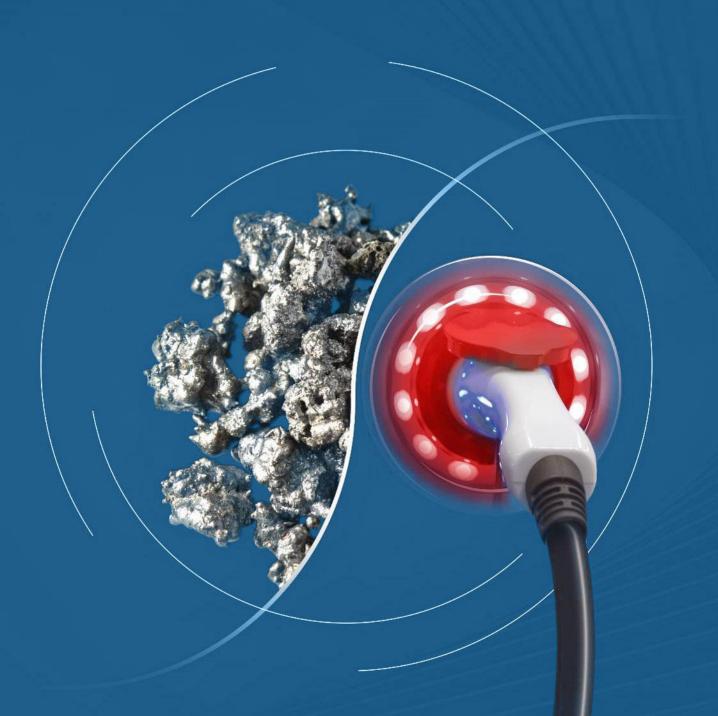


# International Sustainability Standards



Annual Sustainability Report published in accordance with Global Reporting Initiative (GRI) standards 'core' option

A CONTRACTOR OF THE PROPERTY O	
Environment	<ul> <li>Equator Principles 4, principles 1-10 applied</li> <li>CONAMA Brazilian Environmental Legislation</li> <li>Brazil Greenhouse Gases Protocol Programme</li> <li>The World Bank Group Environmental Health and Safety Guidelines</li> <li>International Finance Corporation EHS Guidelines for Mining</li> </ul>
Stakeholder engagement	<ul> <li>IFC Sustainability Framework – IFC Performance Standards</li> <li>International Council of Mining &amp; Metals Stakeholder Research Toolkit</li> <li>International Organization for Standardization (14001:2015) (45001:2018)</li> <li>Equator Principles IV</li> <li>IFC/EBRD Works Accommodation</li> </ul>
Resettlement	<ul> <li>IFC Performance Standard 5: Land Acquisition &amp; Involuntary Resettlement</li> <li>Equator Principles III &amp; IV</li> <li>Brazilian land acquisition regulations</li> </ul>
Human rights	<ul> <li>United Nations Guiding Principles on Business &amp; Human Rights -UN Declaration on Human Rights</li> <li>International Labour Organisation Declaration on Fundamental Principles &amp; Rights at Work</li> <li>UN Global Compact</li> <li>Organisation for Economic Co-operation &amp; Development Guidelines for Multinational Enterprises</li> </ul>
Health and safety 31	<ul> <li>WBG EHS Guidelines</li> <li>IFC Environmental Health &amp; Safety Guidelines for Mining</li> <li>CONAMA Brazilian H&amp;S Legislation</li> <li>IFC Performance Standard 4: Community, health, Safety &amp; Security</li> <li>ISO 24001:2018</li> </ul>





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