LIFEZONE METALS

The Solution for Cleaner Metals

TD Securities

2025 16th Annual Global Mining Conference

January 14-16, 2025

Toronto, Canada



Forward-Looking Statements

Certain statements made herein are not historical facts but may be considered “forward-looking statements” within the meaning of the Securities Act of 1933, as amended, the Securities Exchange Act of 1934, as amended and the “safe harbor” provisions under the Private Securities Litigation Reform Act of 1995 regarding, amongst other things, the plans, strategies, and prospects, both business and financial, of Lifezone Metals Limited and its subsidiaries and/or affiliates.

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Certain information in this Presentation is sourced from the Kabanga 2024 Mineral Resource Update Technical Report Summary (2024MRU) with an effective date of December 4, 2024, which has been prepared in accordance with the U.S. Securities and Exchange Commission (US SEC) Regulation S-K subpart 1300 rules for Property Disclosures for Mining Registrants (S-K 1300) for Lifezone Metals Ltd on the Kabanga nickel project. The 2024 MRU is a preliminary technical and economic study of the economic potential of the Project mineralization to support the disclosure of Mineral Resources. The Mineral Resource estimates are current as at December 4, 2024. Sharron Sylvester, BSc (Geol), RPGeo AIG (10125), Technical Director – Geology at OreWin Pty Ltd and Bernard Peters, BEng (Mining), FAusIMM (201743), Technical Director – Mining at OreWin Pty Ltd. served as the Qualified Persons as defined in S-K 1300 and are considered independent of Lifezone Metals. The reader is encouraged to review the 2024MRU, which is available on our website.

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The Solution for Cleaner Metals

Lifezone's Hydromet Technology

- A more sustainable, efficient, and cost-effective approach to metal refining and recycling[1]
- New opportunities to deliver cleaner metals

Partnership with BHP to develop the Kabanga Nickel Project in Tanzania

- One of the largest and highest-grade undeveloped nickel sulfide deposits

Partnership with Glencore to recycle platinum, palladium and rhodium in the United States

- Enabling a circular economy for precious metals

Supported by industry-leading partners, investors and governments

- Cinctive, BlackRock, GMO, US DFC, Japan's JOGMEC, Government of Tanzania





1 – Relative to smelting and refining.

Benefits of Lifezone's Hydromet Technology

Lower emissions

- Reduces greenhouse gas emissions by eliminating the emissions-intensive smelting phase, leading to a cleaner process[1]

Energy efficiency

- Lowers energy requirements and minimizes environmental footprint through direct-to-metals extraction

Cost effectiveness

- Minimizes capital and operating costs by using lower-temperature processes with less extensive infrastructure requirements

In-country processing

- Allows for complete processing of metals within the host country to enhance local economic benefits and reduce transportation costs

Fully traceable value chain

- Produces finished metals products ensuring a sustainable and traceable metals value chain



1 – Nickel Class 1 downstream processing CO2 eq. emissions baseline from 2020 Nickel Institute LCA. Estimated Kabanga refinery expected emissions from internal Company analysis. Expected reductions are lower for PGMs, as they utilize a more complicated flowsheet and are more energy intensive. For example, a study from EY Cova (an independent South African National Accreditation System accredited energy Measurement and Verification inspection body) found 46% lower emissions utilizing our Hydromet Technology compared to traditional smelting and refining (EY Cova studied PGM metals at the originally proposed 110 ktpa concentrate feed rate refinery at the Sedibelo plant site in South Africa under the then-applicable conditions in 2020 and assuming reagents not manufactured on-site; actual results could differ). Results will vary for specific PGM projects.

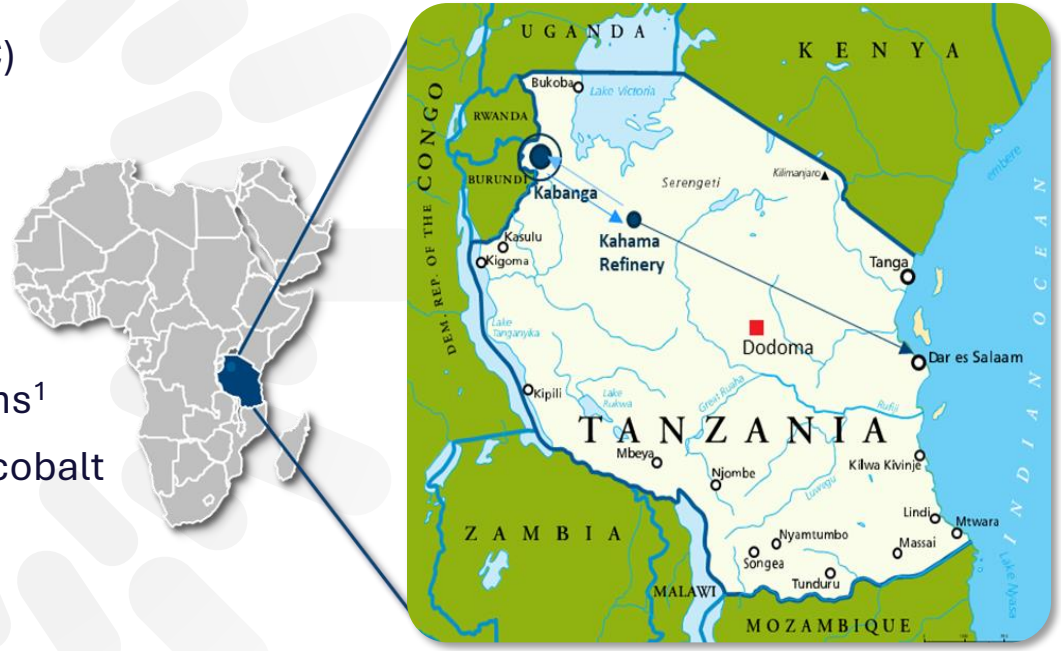

Kabanga
Nickel
Project

Kabanga Nickel Project in Tanzania

Kabanga nickel deposit and Kahama Hydromet refinery

- One of the largest and highest-grade undeveloped nickel sulfide deposits
- More than $400 million invested with over 620 kilometers of drilling completed
- Partnership with BHP and the Government of Tanzania
- Special Mining Licence and Refinery Licence in-hand
- Supported by US International Development Finance Corporation (DFC) and Japan Organization for Metals and Energy Security (JOGMEC)
- Societe Generale selected by Lifezone and BHP to run the project financing process for the Kabanga Nickel Project

Located in Tanzania, the “hub” of West Africa



Hydromet Technology: low emissions relative to traditional smelting

- Low carbon dioxide emissions and zero harmful sulfur dioxide emissions[1]
- Reduced carbon footprint from mine to LME Grade nickel, copper and cobalt

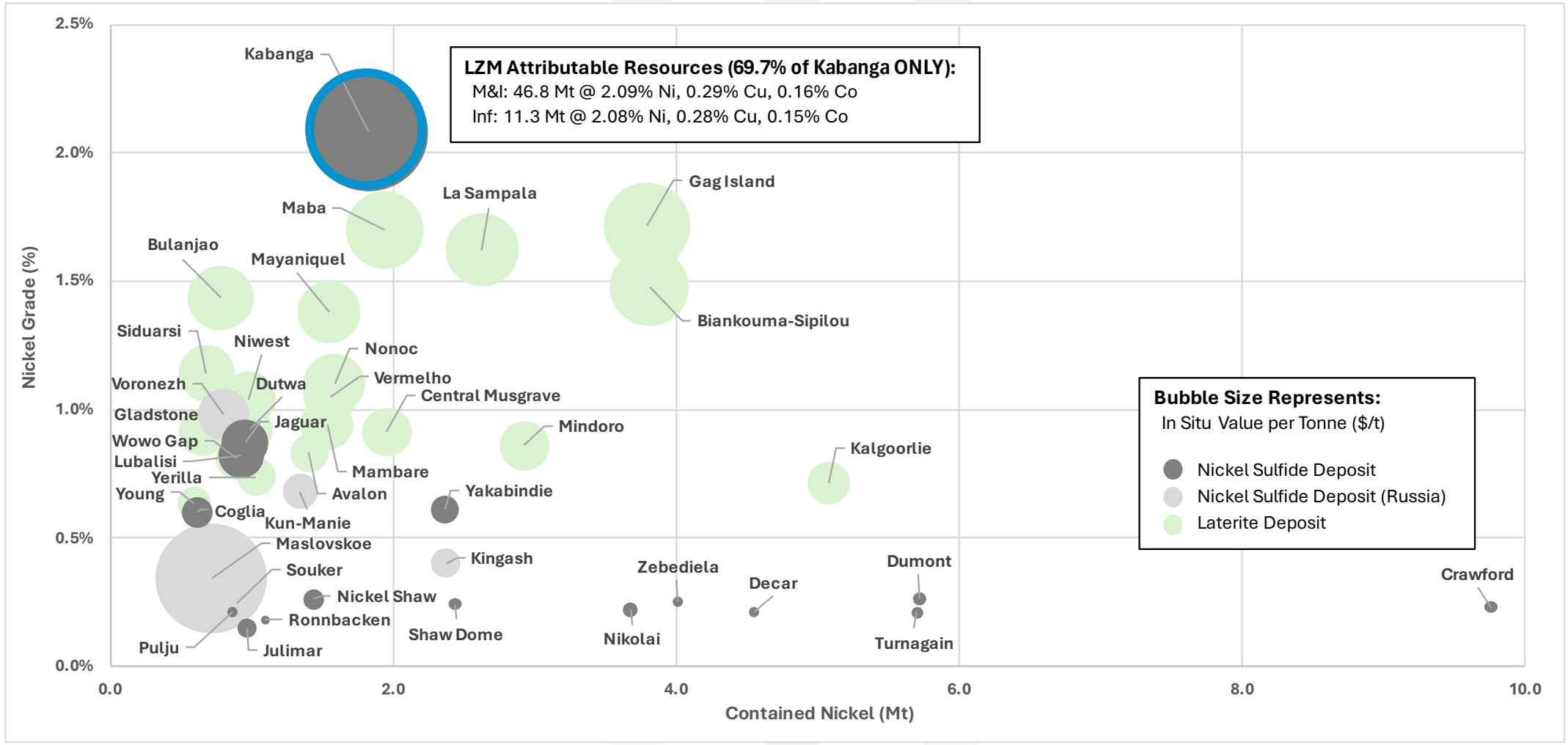
Refined metals produced locally in Tanzania

- Eliminates need to transport concentrates globally
- Ability for Tanzania to capture increased in-country value benefits
- Tanzania is a 16% owner of the Kabanga Nickel Project and Kahama Hydromet Refinery

1 – Nickel Class 1 downstream processing CO_2e emissions baseline from 2020 Nickel Institute LCA. Estimated Kabanga refinery expected emissions from internal Company analysis.

A World-Scale, High-Grade Nickel Deposit

One of the largest and highest-grade undeveloped nickel sulfide deposits

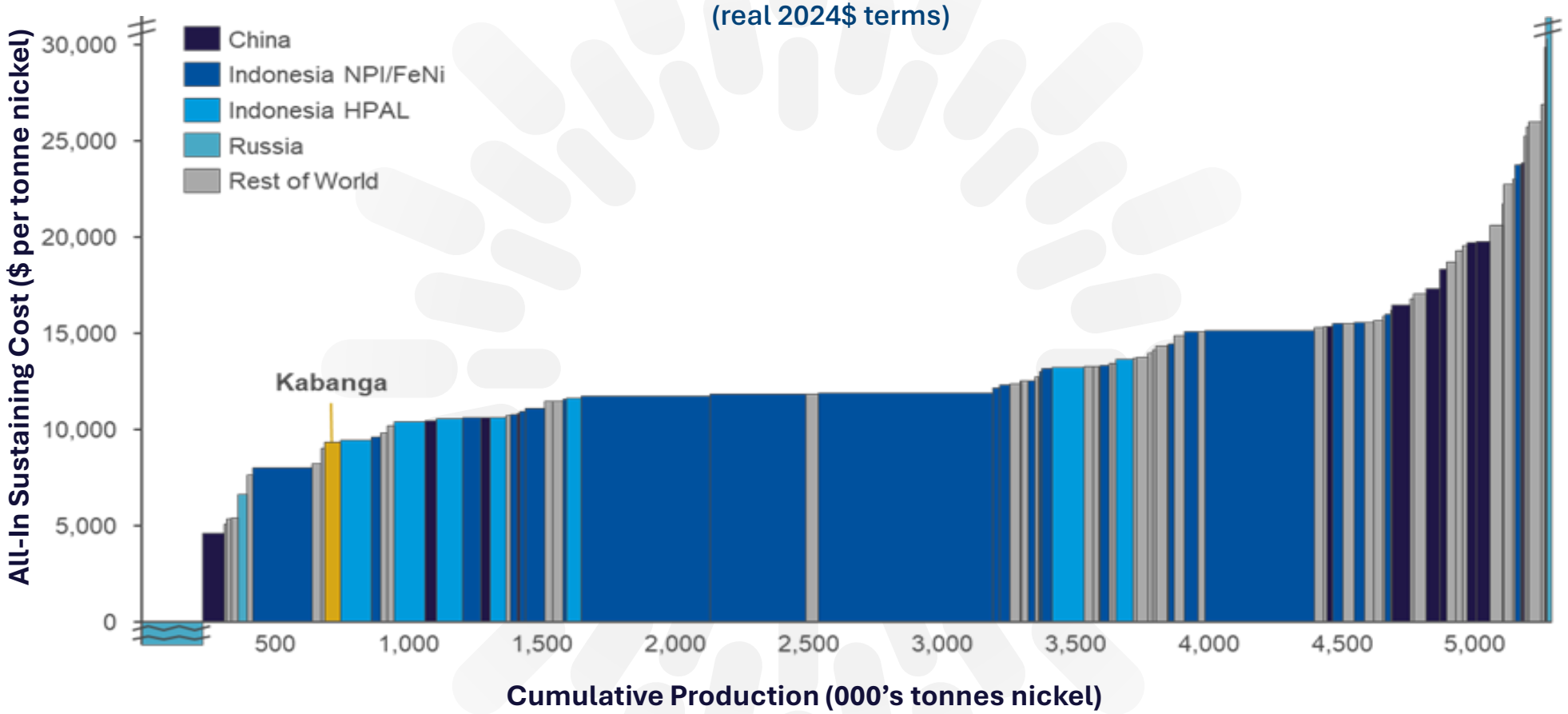


Data source: S&P Capital IQ. Copyright © 2024, S&P Global Market Intelligence (and its affiliates, as applicable). In Situ Value per Tonne is Total In Situ Value divided by Total Tonnage. Total In Situ Value is the combined value of all commodities in reserves and resources at S&P Global Market Intelligence nominal prices for the current year. Largest projects by contained nickel shown with nickel as the primary commodity, active status and early- or late-stage development.
For additional information on the Kabanga resources refer to the December 2024 Kabanga Mineral Resource Update Technical Report Summary.

Low Cost per Tonne of Nickel

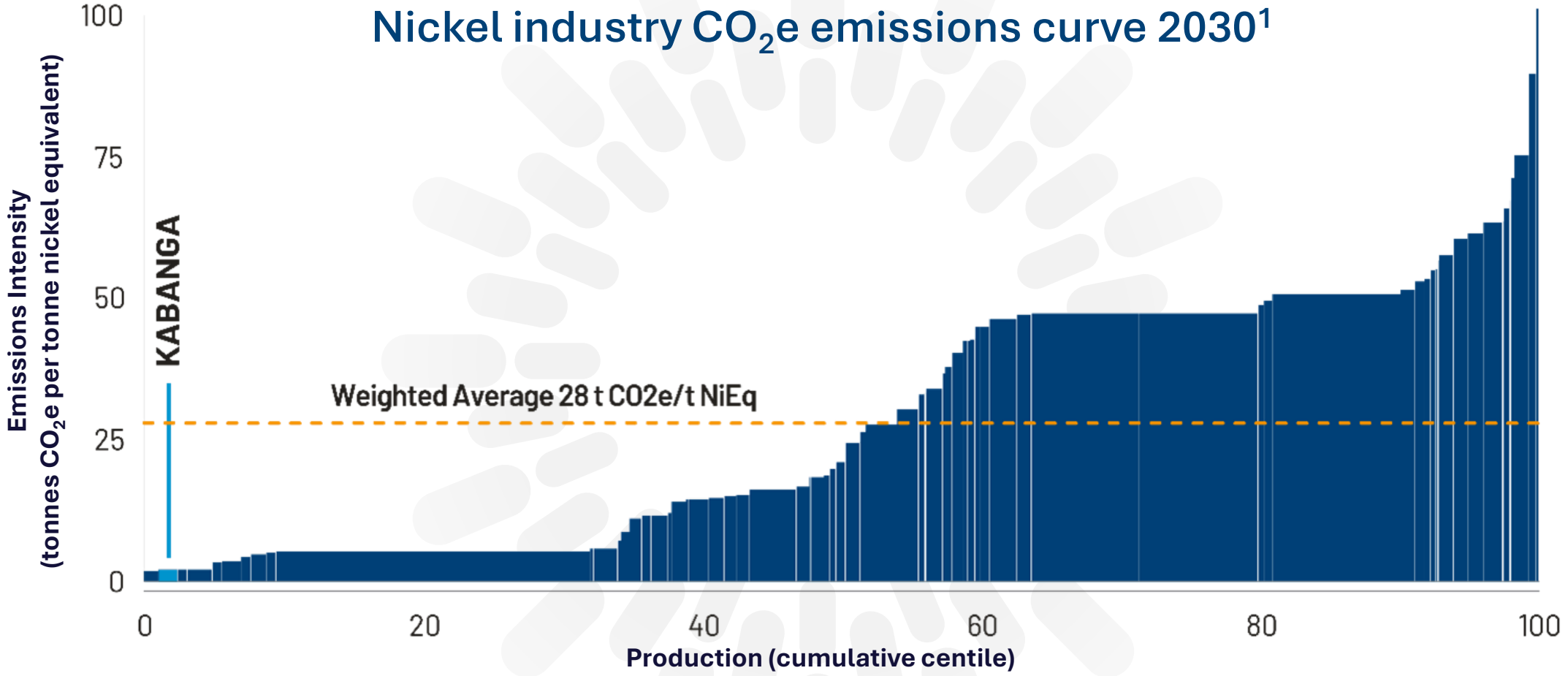
Nickel industry all-in sustaining cost curve for 2032[1]

(real 2024$ terms)



1 – Data: CRU Cost Analysis Tool, 2024 Q2. Note: curve excludes outlier PGM miners with nickel by-products.

Low Carbon Dioxide Emissions per Tonne of Nickel



1 – Bespoke Nickel Market Outlook for Lifezone, a product of Wood Mackenzie, August 2022. The population is based on Wood Mackenzie's view on which current operations will be in production by 2030 and their base case projects. The estimates for Kabanga are based on a mine size of 2.2 Mt/a. The data for nickel production is taken through to a finished product and accordingly includes certain Scope 3 emissions to allow for comparisons between various kinds of operations. Analysis assumes 2.2 Mt/a mine size.

Nickel, copper and cobalt produced from Kabanga using Hydromet

- Lifezone team has developed Hydromet Technology over +40 years of research and implementation
- Four main processing steps applied at scale in other operations
  - Pressure oxidation (POX), copper solvent extraction/electrowinning (SX/EW), cobalt SX/EW, nickel EW
- Favorable test results achieved from concentrate samples at Lifezone's labs in Perth, Australia
  - Demonstrated high recoveries for nickel, copper and cobalt are possible[1]
  - Showed that short processing times are achievable

First nickel, copper and cobalt from Kabanga



Tanzanian Minister of Minerals visits Lifezone's labs in Australia



1 –Refer to LZM's Feb 26, 2024, news release.

Partnership with BHP to Develop the Kabanga Nickel Project

BHP invested $100 million to-date into Lifezone and Kabanga[1,2]

- $10 million into Lifezone
- $90 million into the Kabanga Nickel Project

BHP's Kabanga Nickel Project investment option

- Option to increase ownership to 60.7% of Kabanga Nickel Ltd.
  - 51% indirect ownership in the Kabanga Nickel Project

BHP to contribute cash at 0.7x Kabanga Nickel Ltd. NAV valuation

- Valuation determined by three independent experts
- Based on the results of the Definitive Feasibility Study and the Joint Financial Model

*"Turning to the longer–term fundamentals, we still believe that **nickel will be a substantial beneficiary of the global electrification megatrend**"*

-- BHP's Economic and Commodity Outlook, August 2024[3] --

Tanzania highlighted as a BHP exploration region

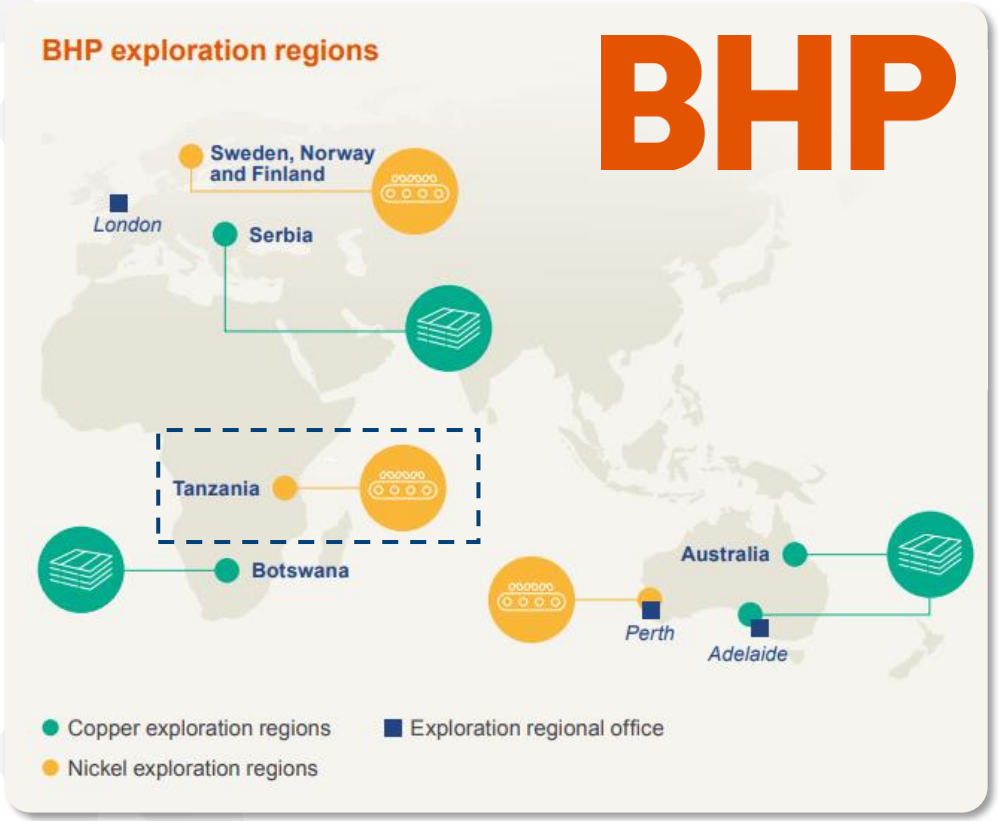
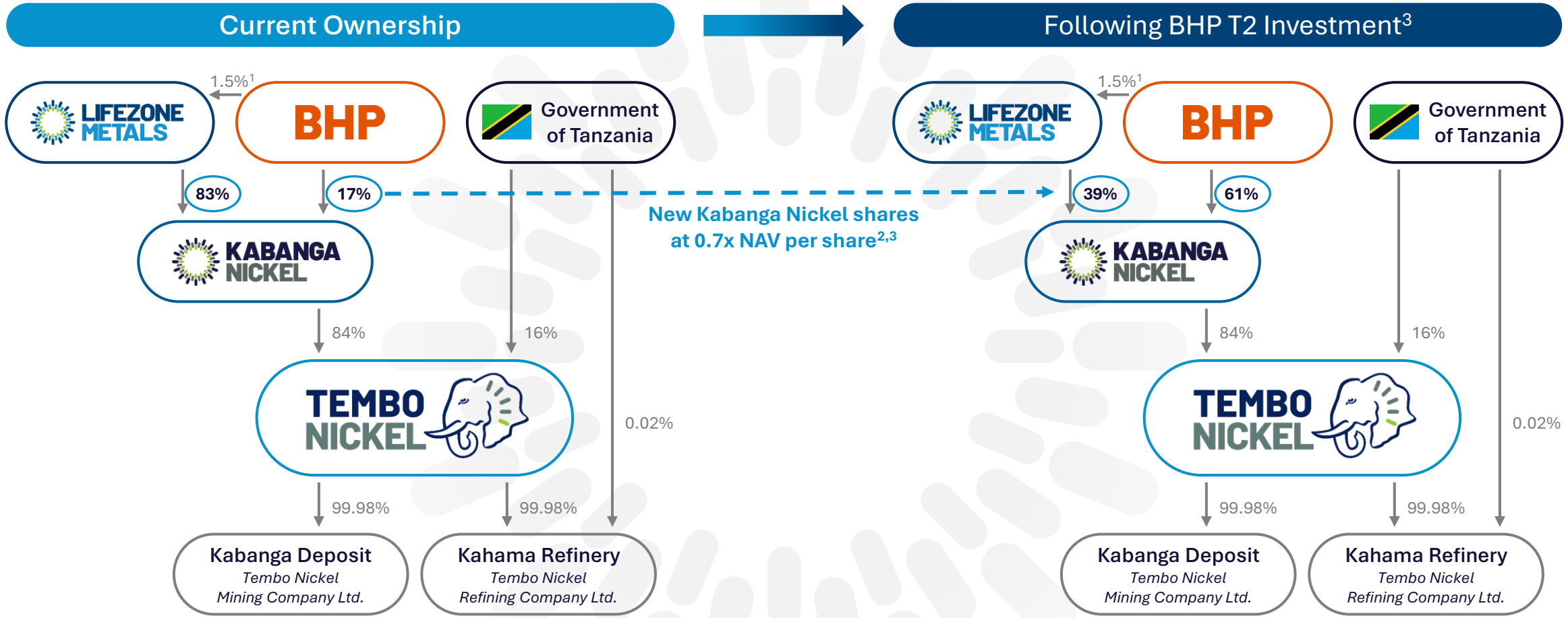


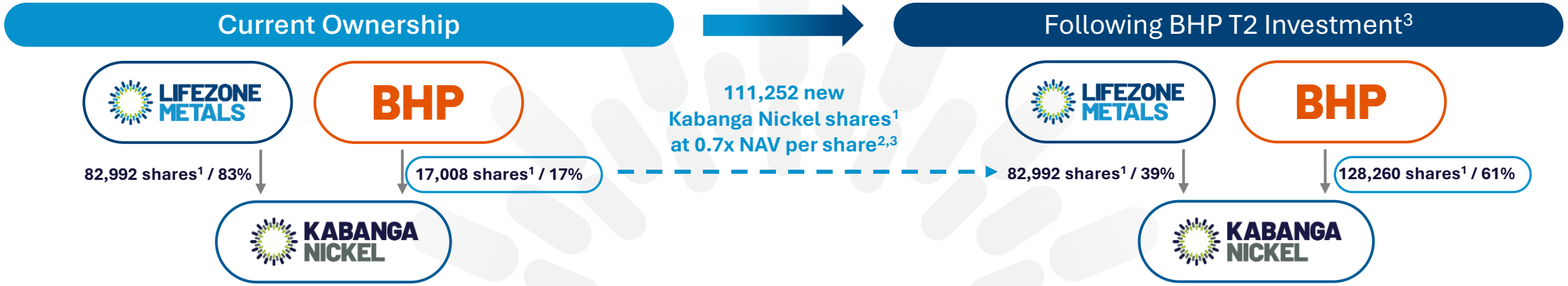
Image source: BHP Annual Report 2024 p15. 1 – BHP agreement dated December 24, 2021. 2 – Based on implied valuation of $161 million for Lifezone Metals (excluding interest in Kabanga Nickel) and $466 million for the implied value of Kabanga Nickel to Lifezone Metals for a total of $627 million. 3 – Source: BHP's Economic and Commodity Outlook, August 2024 p19.

BHP Option to Majority Control of Kabanga Nickel Project



1 – Source: Bloomberg. 2 – BHP agreement dated December 24, 2021. 3 – BHP's potential future investment is in BHP's sole discretion and is subject to certain conditions being satisfied, in particular, the satisfactory completion of and agreement on the feasibility study, agreement on the joint financial model in respect of the Kabanga project, the completion of an independent valuation of Kabanga Nickel Limited and receipt of any necessary regulatory and tax approvals.

BHP Option Exercise Example



Illustrative calculation based on a range of hypothetical valuations[1]

Net Asset Value for Kabanga Nickel 100% Basis (US$M)	0.7x Multiple to Kabanga Nickel Net Asset Value (US$M)	Kabanga Nickel Share Price (nominal 100,000 existing shares)[1]	BHP T2 Investment into Kabanga Nickel (US$M)[2,3]
$0	$0	$0 / share	**$0**
$500	$350	$3,500 / share	**$389**
$1,000	$700	$7,000 / share	**$779**
$1,500	$1,050	$10,500 / share	**$1,168**
$2,000	$1,400	$14,000 / share	**$1,558**
$2,500	$1,750	$17,500 / share	**$1,947**
$3,000	$2,100	$21,000 / share	**$2,336**

1 – Illustrative share amounts only. 2 – BHP agreement dated December 24, 2021. 3 – BHP's potential future investment is in BHP's sole discretion and is subject to certain conditions being satisfied, in particular, the satisfactory completion of and agreement on the feasibility study, agreement on the joint financial model in respect of the Kabanga project, the completion of an independent valuation of Kabanga Nickel Limited and receipt of any necessary regulatory and tax approvals.

International Relations through Responsible Minerals Development

Kabanga is supported by bipartisan US initiatives

- Supported by the Partnership for Global Infrastructure and Investment (PGI)
- Recognized as a Project within the Minerals Security Partnership (MSP)
- Supported by US International Development Finance Corporation (DFC)
  - Letter of Interest for loan application, evaluation of political risk insurance coverage

Memorandum of Understanding with Japan Organization for Metals and Energy Security (JOGMEC)

- Strategic partnership to secure cleaner nickel, copper and cobalt for the Japanese battery industry

*"**The Kabanga Nickel Project represents a significant opportunity to advance responsible mineral development in Tanzania**, diversifying critical supply chains and fostering economic resilience in the region."*

-- Scott Nathan, CEO of DFC, 09/23/2024 --



From left to right: Benedict Busunzu (CEO, Tembo Nickel), Chris Showalter (CEO, Lifezone), Hon. Anthony Mavunde (Tanzanian Minister of Minerals), Helaina Matza (Acting Special Coordinator, PGI), Michael Battle (U.S. Ambassador to Tanzania) in Dar es Salaam, Tanzania on August 26, 2024.

*"Although a Trump presidency is likely to prompt stakeholder and policy changes at the US International Development Finance Corporation, **the agency is unlikely to backtrack on commitments to finance and insure the Kabanga Nickel project in Tanzania**."*

-- Africa Practice, Africa: Trends to watch in 2025[1] --

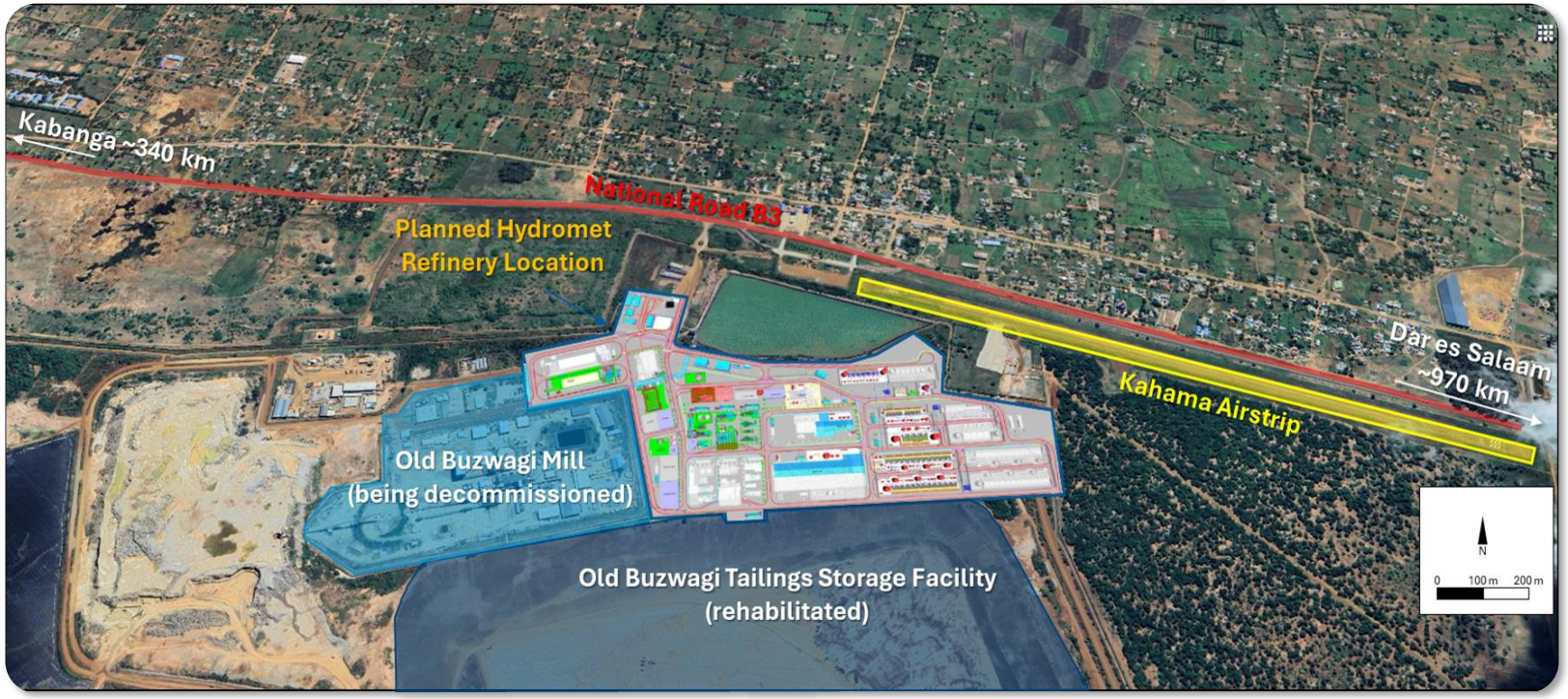
1 – Source: https://africapractice.com/africa-trends-to-watch-in-2025/.

Collaborating with Tanzania for Enhanced Economic Growth

Critical milestones achieved with our Government of Tanzania partner

- Kabanga Special Mining Licence received October 2021
- Kahama Multi-Metal Refinery Licence received March 2024
- Kahama Area declared a Special Economic Zone (SEZ), providing certain tax and other economic benefits
- Environmental Impact Assessment Certificates received Kabanga, Kahama and Relocation Sites

Preliminary view of Kahama Hydromet refinery within the Special Economic Zone



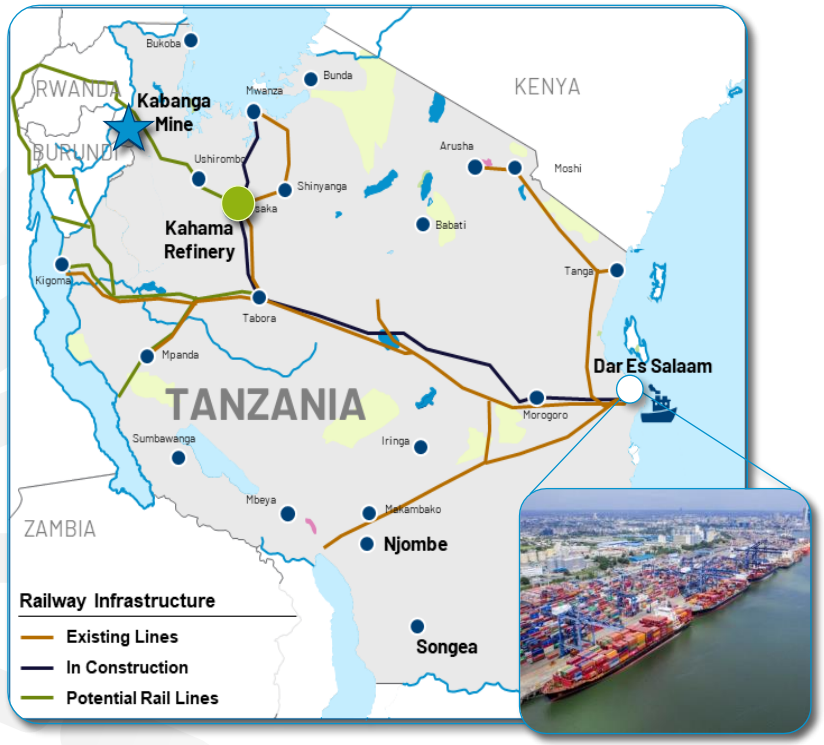
Leveraging Significant Investments in Tanzanian Infrastructure

Kabanga: Connected to regional infrastructure and grid power

- Existing camp with 200-person capacity
- Connected to Tanzanian power grid, 80 km from 220 / 33kV substation
- 340 km by road to Kahama Hydromet refinery

Kahama: A modern metals production facility in a Special Economic Zone

- Located at Barrick's Buzwagi gold mine (closed)
- 30 km from rail terminal for transport to Dar es Salaam port (970 km)
- Existing airstrip and connection to regional highways



Tanzania Power System Master Plan

- Increase grid reliability, become a regional power exporter
- 80 MW Rusumo Hydroelectric Power Station; 2.1 GW Julius Nyerere Hydropower Station (commissioning underway); 88 MW Kakono Hydroelectric Power Station (expected 2028)

Tanzania Standard Gauge Railway (SGR) project

- Modernization and expansion of railway to facilitate faster and more reliable movement
- Replacing outdated meter-gauge railway system with a new, electrified standard gauge railway


PGM
Recycling
Project

Hydromet To Recover Precious Metals from Recycled Catalytic Converters

Responsible platinum group metals recycling partnership with Glencore

- A faster, more efficient and less emissions-intensive way to recycle PGMs[1]
- Profitably deliver high purity, refined PGMs from 100% recycled sources

Phased project implementation

- Phase 1:
  - $3 million cost jointly funded (complete)
  - Confirmatory program of pilot work (underway)
- Phase 2 (following successful completion of Phase 1):
  - Construction of commercial-scale facility in USA
  - Initial capital ~$15-20 million for ~115,000 oz/year PGMs
  - Joint funding of the initial capital
  - Glencore working capital facility and marketing expertise

Testing underway at Lifezone's labs in Perth, Australia



1 – Relative to smelting and refining.


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Backed by Industry-Leading Partners, Investors and Governments

Project partners

- BHP: Kabanga Nickel Project
- Glencore: PGM Recycling Project in the US

Convertible debentures investors

- Harry Lundin (Bromma Asset Management)
- Rick Rule

Key institutional shareholders[1]

- Cinctive, Grantham Mayo van Otterloo (GMO), Blackrock

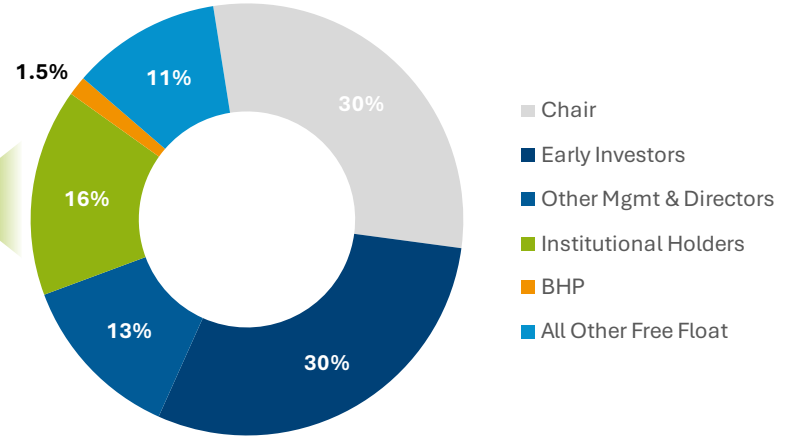
Kabanga: a globally significant project

- Bipartisan US support through DFC, MSP, PGI
- Strategic partnership with JOGMEC
- Government of Tanzania is a 16% free-carried partner

Shareholder composition (basic)[2]

Includes:

CINCTIVE
GMO
BlackRock



Basic shares outstanding[3]	**80.8M**
Warrants (NYSE:LZMW; $11.50 exercise price; Jun 2028)	14.4M
Earnout shares (50% $14.00 / 50% $16.00 trigger; Jun 2028)[4]	25.1M
Fully-diluted total shares	**120.3M**
Market Capitalization (basic; $6.56/share Jan 14, 2025)	**$524.8M**
Cash (Jun 30, 2024)	$63.5M
Conv. Debt & Embedded Derivatives (Jun 30, 2024)	$50.4M
Enterprise Value	**$511.7M**

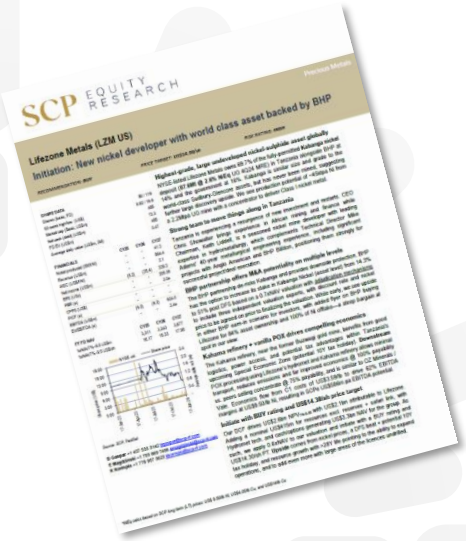
1 – Each own >1% of basic shares outstanding as per Bloomberg. 2 – Source: Bloomberg. 3 - As at July 30, 2024, includes 1,725,000 earn-out shares (862,500 at $14.00 / $16.00 trigger respectively) held in escrow. 4 - Held by previous LHL shareholders.

Research Analyst Coverage



BTIG – Greg Lewis:

"The company has a tier 1 asset in the Kabanga Nickel Project in Africa, which is underpinned by a ~$100M investment from a global mining partner in BHP."



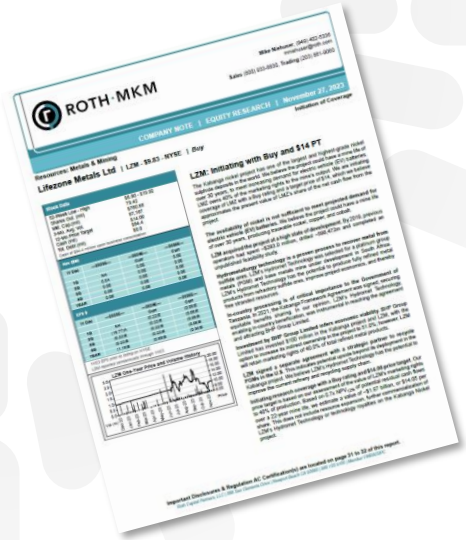
SCP – Brandon Gaspar:

"Why we like Lifezone: 1. One of the largest and highest-grade undeveloped nickel-sulphide assets globally; 2. BHP partnership de-risks project and provides downside protection."



Hannam & Partners – Roger Bell:

"We expect [LZM's] expertise to unlock the value of the asset and deliver one of the world's cheapest, least CO_2-intensive sources of Class I nickel, into a market which we expect will see steep supply deficits over the coming decade."



ROTH MHM – Mike Niehuser:

"We believe that at current nickel prices, high-cost nickel producers should come under pressure, possibly reducing supply, resulting in stable or higher prices and a favorable outlook for low-cost nickel producers like the Kabanga Nickel Project."

1 – Refer to Analysts' research reports for full disclosures and determination of valuations, ratings and target prices. Quotes are the opinions of the respective Analysts and do not reflect the opinion of Lifezone.



lifezonemetals.com
info@lifezonemetals.com
lifezone-metals
@LifezoneMetals



Appendix

Track Record of Achieving Key Milestones

2023

- Feb: BHP's 2nd investment tranche of $50 million (1st tranche of $50 million received Oct. '21)
- Jul: Public listing on the New York Stock Exchange
- Jul: Acquisition of Simulus Labs in Perth, Australia
- Nov: Kabanga Mineral Resource Update
- Dec: US PGM recycling partnership with Glencore

2024

- Mar: Tanzania issues Kabanga Refinery Licence
- Mar: $50 million convertible debt placement
- Apr : Inaugural Annual Report for 2023 published
- Jul: First-ever metal from Kabanga mineralization via Hydromet pilot program
- Dec: Kabanga Mineral Resource Update with 11% increase in contained nickel in M&I



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FOUNDER AND CHAIR



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CHIEF EXECUTIVE OFFICER, DIRECTOR



ROBERT EDWARDS
LEAD INDEPENDENT DIRECTOR



JOHN DOWD
DIRECTOR



GOVIND FRIEDLAND
DIRECTOR



JENNIFER HOUGHTON
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MWANAIDI MAAJAR
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SPENCER DAVIS
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INGO HOFMAIER
CHIEF FINANCIAL OFFICER



GERICK MOUTON
CHIEF OPERATING OFFICER



BENEDICT BUSUNZU
TEMBO NICKEL
CHIEF EXECUTIVE OFFICER



DAYNA DANKBAAR
HEAD OF PEOPLE



CHRIS MEDWAY
SENIOR VICE PRESIDENT: PROJECTS



ANTHONY VON CHRISTIERSON
SENIOR VICE PRESIDENT: COMMERCIAL AND BUSINESS DEVELOPMENT



EVAN YOUNG
SENIOR VICE PRESIDENT: INVESTOR RELATIONS AND CAPITAL MARKETS

Multiple Opportunities Identified to Continue to Grow the Resource

More than $400 million invested with over 620 kilometers of drilling

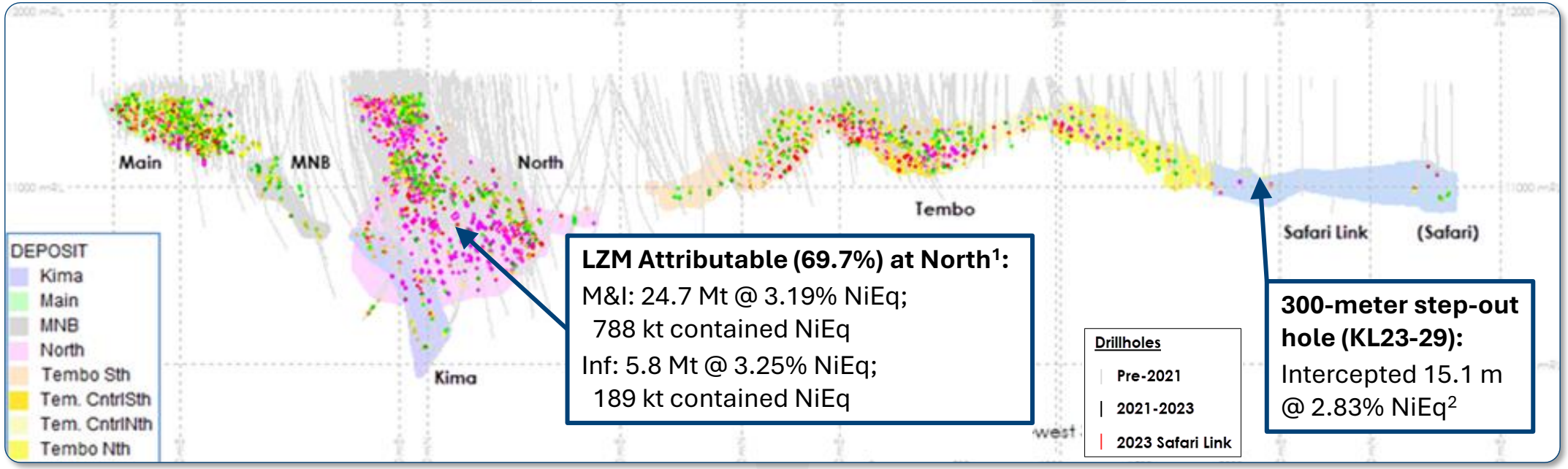
Lifezone attributable Mineral Resources (69.7% of total)[1]

- 46.8 million tonnes Measured and Indicated grading 2.09% nickel, 0.29% copper and 0.16% cobalt (2.62% nickel equivalent)
- Plus 11.3 million tonnes Inferred grading 2.08% nickel, 0.28% copper and 0.15% cobalt (2.59% nickel equivalent)

Safari Link is a possible strike-extension of Tembo, as indicated by an electromagnetic anomaly

- High-priority regional targets include multiple identified geophysical anomalies, such as Rubona Hill

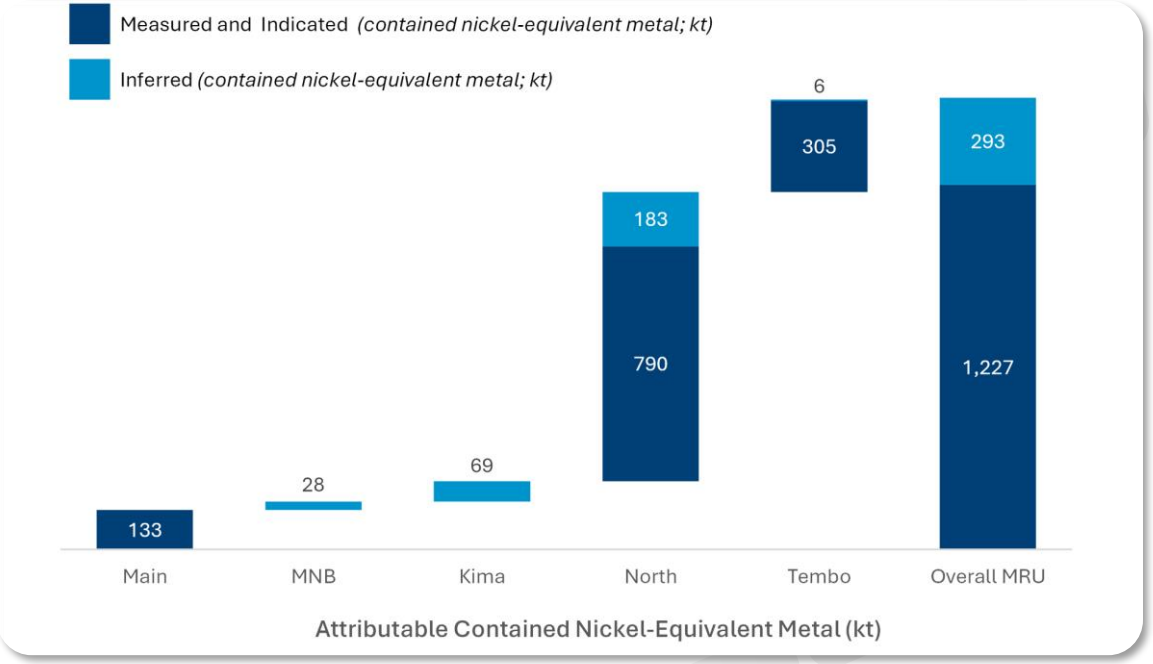
Schematic projected long-section of the Kabanga mineralized zones[1] (looking north-west)

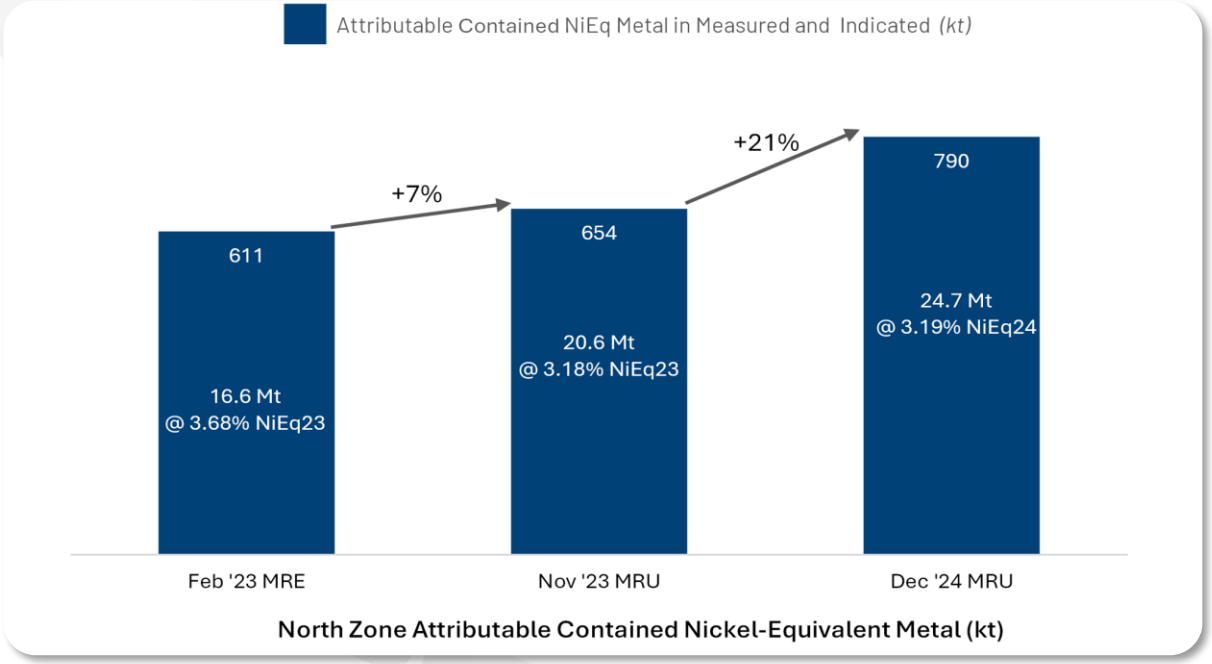


1 – Refer to the December 2024 Kabanga Mineral Resource Update Technical Report Summary. 2 – Refer to LZM news release dated January 29, 2024.

December 2024 Mineral Resource Upgrades High-Grade Resources

Lifezone's attributable Mineral Resources shown (69.7% of total)





- 81% of Kabanga's tonnes now classified as higher confidence Measured and Indicated relative to Inferred
- Only Measured and Indicated Resources can support the conversion to Proven and Probable Reserves

- 21% increase in contained nickel in M&I at North Zone
- North Zone represents +50% of Kabanga's total resources
  - 24.7 million tonnes of attributable Measured and Indicated Resources grading 3.19% nickel-equivalent

1 - This table reports the Mineral Resources for the combined massive sulfide and ultramafic mineralization types. 2- Mineral Resources are reported exclusive of Mineral Reserves. There are no Mineral Reserves to report. 3 - Mineral Resources are reported showing only the Lifezone Metals attributable tonnage portion, which is 69.713% of the total. 4 - Cut-off uses the NiEq23 using a nickel price of $9.50/lb, copper price of $4.00/lb and cobalt price of $26.00/lb with allowances for recoveries, payability, deductions, transport and royalties. NiEq23% = Ni% + Cu% x 0.411 + Co% x 2.765. 5 - The Mineral Resource metallurgical recovery assumptions are: nickel 87.2%, copper 85.1% and cobalt 88.1% 6 - The point of reference for Mineral Resources is the point of feed into a processing facility. 7 - All Mineral Resources in the 2023MRU were assessed for reasonable prospects for eventual economic extraction by reporting only material above a cut-off grade of 0.58% NiEq23. 8 - Totals may vary due to rounding.

Mineral Resource Update (December 4, 2024)

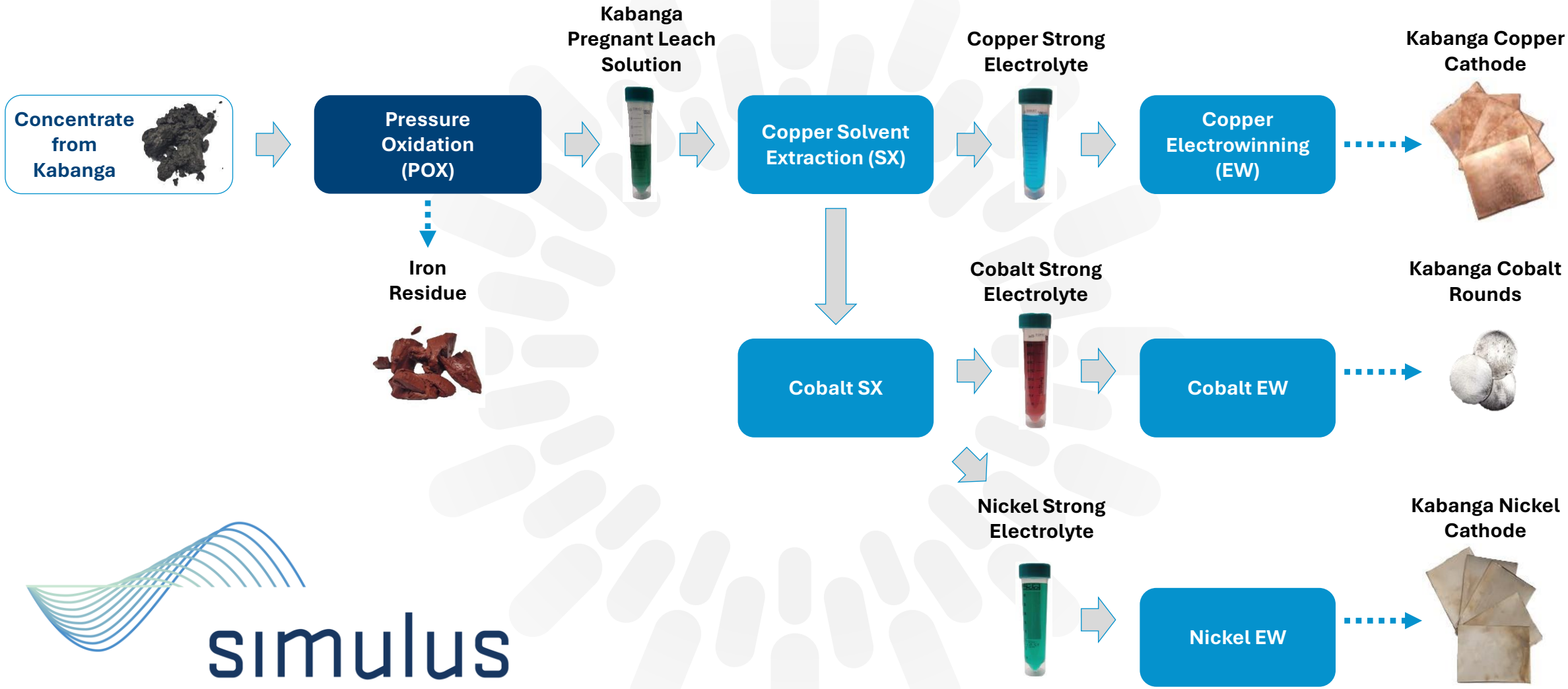
Kabanga is 69.7% owned by Lifezone and all Mineral Resources are shown on an attributable to Lifezone basis

- 46.8 million tonnes M&I grading 2.09% nickel, 0.29% copper and 0.16% cobalt (2.62% nickel-equivalent)
- Plus 11.3 million tonnes Inferred grading 2.08% nickel, 0.28% copper and 0.15% cobalt (2.59% nickel-equivalent)
- 81% of tonnes are classified in the higher confidence M&I relative to Inferred
- Six identified mineralized zones: Main, MNB, Kima, North, Tembo and Safari, over a +7.5-kilometer strike length

Mineral Resource Classification	Attributable Tonnage (Mt)	Grades				Attributable Contained Metals			
		NiEq24 (%)	Ni (%)	Cu (%)	Co (%)	NiEq23 (kt)	Ni (kt)	Cu (kt)	Co (kt)
MAIN ZONE – All Mineralization Types									
Indicated	**8.7**	**1.53**	**1.18**	**0.19**	**0.10**	**133**	**102**	**17**	**9**
MNB ZONE – All Mineralization Types									
Inferred	1.8	1.59	1.25	0.18	0.10	28	22	3	2
KIMA ZONE – All Mineralization Types									
Inferred	3.4	2.01	1.60	0.24	0.12	69	55	8	4
NORTH ZONE – All Mineralization Types									
Measured	7.9	2.66	2.12	0.28	0.16	211	168	22	13
Indicated	16.8	3.44	2.80	0.37	0.19	579	470	63	32
Measured + Indicated	**24.7**	**3.19**	**2.58**	**0.34**	**0.18**	**790**	**638**	**84**	**45**
Inferred	5.8	3.25	2.62	0.35	0.19	183	152	20	11
TEMBO ZONE – All Mineralization Types									
Measured	8.0	2.30	1.79	0.25	0.15	184	143	20	12
Indicated	5.5	2.22	1.75	0.24	0.14	122	96	13	8
Measured + Indicated	**13.5**	**2.27**	**1.78**	**0.24**	**0.15**	**305**	**239**	**33**	**20**
Inferred	0.3	2.49	2.01	0.23	0.15	6	6	1	0
OVERALL MINERAL RESOURCE – All Mineralization Types									
Measured	15.9	2.48	1.95	0.26	0.16	394	311	42	25
Indicated	31.0	2.69	2.16	0.30	0.16	833	668	93	49
Measured + Indicated	46.8	2.62	2.09	0.29	0.16	1,227	979	134	74
Inferred	11.3	2.59	2.08	0.28	0.15	293	235	32	17

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Hydromet Flowsheet Tailored for Kabanga through Pilot Testing



simulus

1 –Refer to LZM's Feb 26, 2024, news release.

Notes

Notes

LIFEZONE METALS

lifezonemetals.com

info@lifezonemetals.com

lifezone-metals

@LifezoneMetals