# CHAMPION IRON CAPITAL MARKETS DAY

March 20th, 2024 (Sydney)

A RARE SOLUTION
TO DECARBONIZE STEELMAKING

CHAMPION IRON 🖎

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#### SPECIFIC FORWARD-LOOKING STATEMENTS

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Statements relating to "reserves" or "resources" in sildes 89, 93, 117, 118, 119 and 120 are deemed to be forward-looking statements as they involve the implied assessment, based on certain estimates and assumptions, that the reserves and resources described exist in the quantities predicted or estimated and that the reserves can be profitably mined in the future. Actual reserves and resources may be greater or less than the estimates provided herein.

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#### TECHNICAL REPORTS AND QUALIFIED PERSON

On August 22, 2023, Champion announced the updated mineral resource and reserve estimates for Bloom Lake reported in the technical report prepared pursuant to National Instrument 43-101 - Standards of Disclosure for Mineral Projects ("NI 43-101") and Chapter 5 of the ASXListing Rules entitled "Mineral Resources and Mineral Resources and Lechnical Period "Lot Resources" (Canada" by BBA Inc., SKX Consulting (U.S.), Inc., Soutces and Quebec Iron Ore Inc. dated September 28, 1022 and Filed conditions—3, 2023 trechnical Report and Lot Resources and Mineral Resources and

On January 30, 2024, Champion announced the results of the Kami Project study (the "Kami Project Study"). Champion is not aware of any new information or data that materially affects the information included in the Kami Project Study and confirms that all material assumptions and technical parameters underpinning the estimates in the Kami Project Study continue to apply and have not materially changed. The Kami Project Study will be filed on SEDAR+ at <a href="https://www.sedarglus.ca.within 45 days of January 30, 2024">www.sedarglus.ca.within 45 days of January 30, 2024</a>.

Mr. Vincent Blanchet, P. Eng., Engineer at Quebec iron Ore inc., the Company's subsidiary and operator of Bloom Lake, is a "qualified person" as defined by NI 43-101 and has reviewed and approved, or has prepared, as applicable, the disclosure of the scientific and technical information contained in this Presentation and has confirmed that the relevant information is an accurate representation of the available data and studies for the relevant projects. Mr. Blanchet's review and approval does not include statements as to the Company's knowledge or awareness of new information or data or any material changes to the material assumptions and technical parameters underprinning the 2023 Technical Report or the Kami Project Study, Mr. Blanchet is a member of the Order desinated interpret of Update.

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Reference to P62: Platts TSIIODEX 62% Fe CFR China; P65: Platts IO Fines 65% Fe CFR China.

This Presentation has been authorized for release to the market by the CEO of Champion, David Cataford

All amounts are in Canadian dollars unless otherwise stated.

#### **EXECUTIVES**



MICHAEL O'KEEFFE

Executive Chairman



DAVID CATAFORD

Chief Executive Officer



MICHAEL MARCOTTE Senior Vice-President Corporate Development and Capital Markets

# **DIRECTORS**



GARY LAWLER

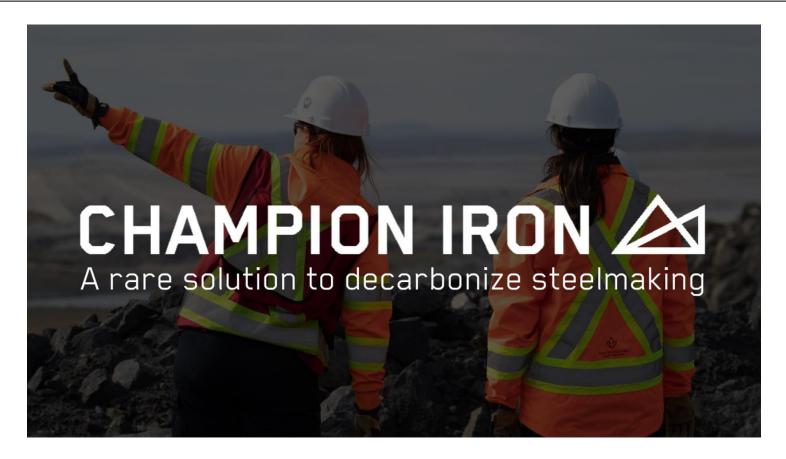
Director



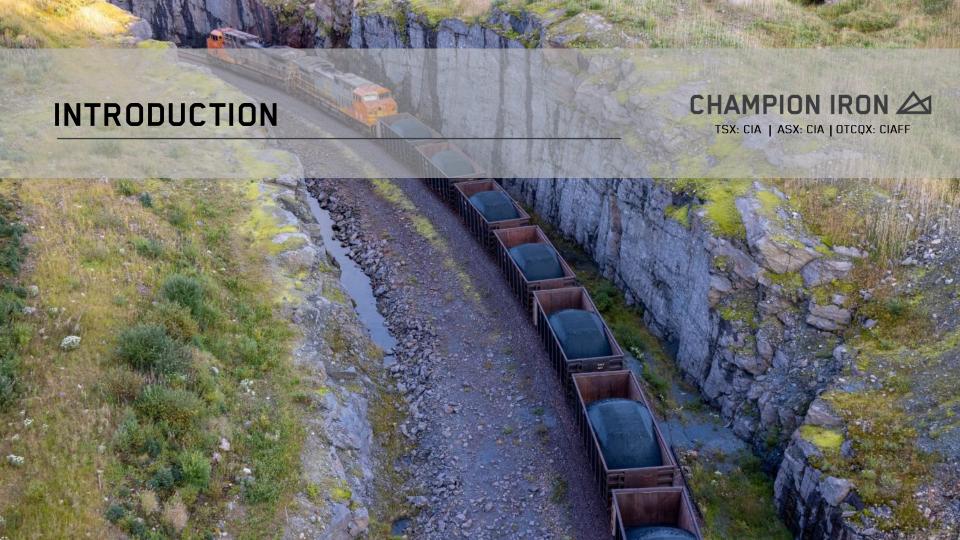
RONNIE BEEVOR
Director

TOPIC	TIME	PRESENTERS
Welcome remarks	5 min	Michael Marcotte
Message from the Executive Chairman	5 min	Michael O'Keeffe
Introduction and sustainability commitment	15 min	David Cataford
Market dynamics	30 min	Michael Marcotte
Industry insights and Q&A	45 min	Jeremy Jones, Continuous Improvement Experts inc.
Break	15 min	
Operational and financial performance	15 min	David Cataford
Growth opportunities	45 min	David Cataford
Q&A and Closing remarks	30 min	David Cataford Michael O'Keeffe













# **MISSION**

Produce responsible materials with ingenuity to reduce the carbon footprint with and for those who seek change.

# UPHOLDING VALUES FOR A SUSTAINABLE FUTURE



**PRIDE** 

Develop a collective sense of belonging in all spheres of iron ore mining



INGENUITY

Leverage employee creativity and expertise to achieve and maintain efficient practices aimed at operational excellence



RESPECT

It is our guiding principle: respect for people, for communities, for the environment, and for the resources at the very core of the organization



**TRANSPARENCY** 

Promote transparent communications through active listening and open dialogue

#### INTRODUCTION

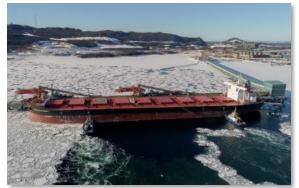


#### LARGEST PUBLICLY LISTED PURE-PLAY HIGH-GRADE IRON ORE PRODUCER GLOBALLY

- → 2<sup>nd</sup> largest hub of high-grade exports globally
- → **High-purity iron ore** produced with renewable power and with one of the lowest carbon intensity
- $\rightarrow$  9.0% $^1$  management ownership
- → 8.4% Québec government shareholding<sup>2</sup>
- → >US\$4.5B cumulative investments at Bloom Lake
- $\rightarrow$  >1,170 employees







Source: Champion Iron Limited





#### THE COMPANY OF TOMORROW NOW









### Health & Safety

Core priority

- → Zero fatalities
- → Introduced training programs to identify and prevent work-related incidents
- → Ultimate target of zero harm

# **Environment**

Minimizing impact

- → No major environnemental violation
- → Achieved 96% recycled water rate at site
- → 100% compliance with the MAC tailings protocol

# Community

Active participation

- → Committed to local sourcing and to First Nations suppliers
- → Active supporter of First Nations communities

# **Inclusion**

More representation

- → Committed to having women represent at least 30% of the Board of Directors
- → Diversity and cultural training completed by 100% of employees

#### GHG

Reduction initiatives

- → 40% emissions reduction target at site by 2030
- → Targeting carbon neutral by 2050



#### DEMONSTRATED CONTRIBUTION TO SOCIETY AND COMMUNITY



Ministers Fitzgibbon and Lafrenière visiting Bloom Lake in March 2023

#### Since Bloom Lake recommissioning (FY 2019)

- $\rightarrow$  \$848M income, mining and municipal taxes paid<sup>1,2</sup>
- → \$484M gains for Investissement Québec from investments since 2016³
- → Approximately \$1.5B sourcing from regional suppliers and \$450M paid out in salaries and benefits¹
- → \$26M community investment¹



Inauguration of the new Fermont skatepark

- $\rightarrow$  > 1,170 employees <sup>4</sup>
- o  $\,$  **59** local and First Nations jobs  $^4$
- → Largest First Nations employer on the Québec Côte-Nord
- → 5-year collective baragaining agreement signed on February 29, 2024
- → Commemorated National Day for Truth and Reconciliation and declared National Indigenous Peoples Day an occasion for employees to honour First Nations culture



#### A SAFE WORKING ENVIRONMENT IS TOP PRIORITY

- ightarrow No major environmental issue since the recommissioning of Bloom Lake in 2018
- → Fully compliant results following multiple regulatory audits by provincial and federal authorities
- → Increased training and awareness programs, resulting in improved health and safety statistics
- → Committed to a 2.0 incident frequency target for QIO's employees, zero fatalities and an ultimate target of zero harm¹

# SAFETY PERFORMANCE 6 35 30 4 30 25 20 15 10 1 FY19 FY20 FY21 FY22 FY23 FY24 YTD Total Recordable Injury Frequency Rate (TRIFR) (left axis) Lost Time Injury Severity (right axis)<sup>2</sup>







RESPONSIBLE TAILINGS CONSTRUCTION METHOD





#### COMMITTED TO REDUCE CARBON EMISSIONS

- → Substantial investments completed since recommissioning in 2018, enabling the Company's CO<sub>2</sub> emission intensity per tonne to be reduced by approximately 30% compared to the previous owner
- → Committing to greenhouse gas (GHG) emission reductions of 40% at site by 2030¹
- → The Company is also committed to be carbon neutral by 2050
- → Targets are in line with the Paris Agreement 2°C scenarios and the Canadian government GHG reduction plan<sup>2</sup>



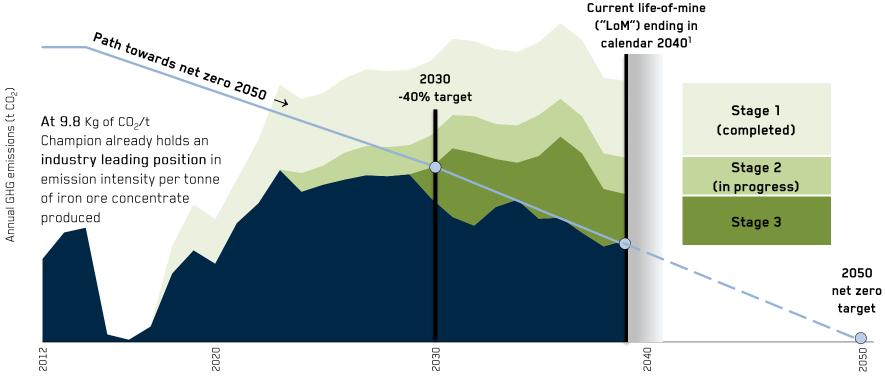






ENVISIONED ROADMAP TO NET ZERO 2050

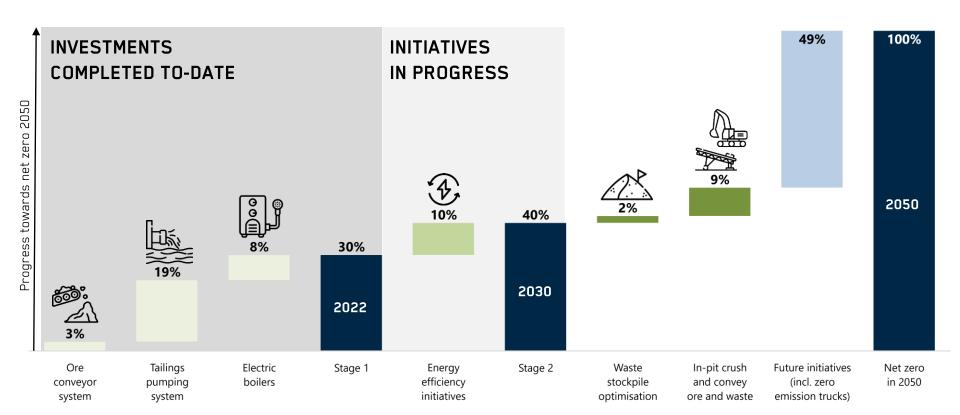
#### VISION TO REDUCE GHG EMISSIONS THROUGH THREE STAGES OF INITIATIVES



Source : Champion Iron Limited



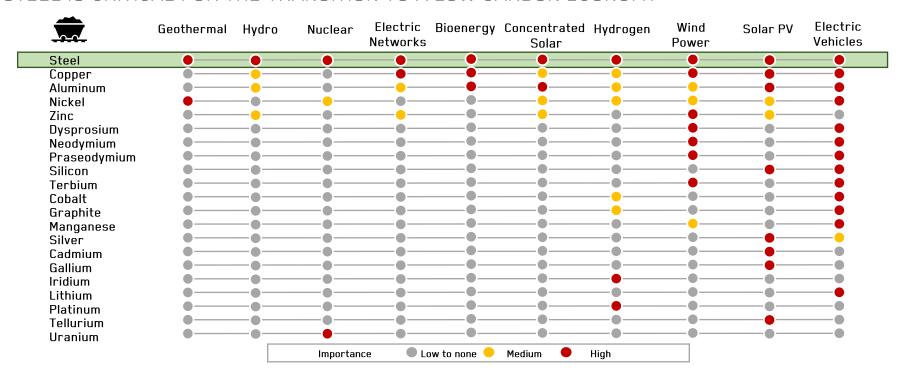
WORK PROGRAMS IDENTIFIED TO REDUCE EMISSIONS IN LINE WITH THE COMPANY'S TARGETS







#### STEEL IS CRITICAL FOR THE TRANSITION TO A LOW CARBON ECONOMY



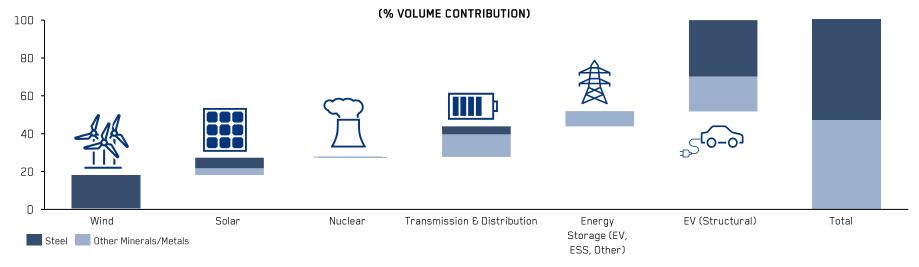
High-Purity Iron ore ("HPI") used in steelmaking is essential for low carbon technologies



#### STEEL IS CRITICAL TO ENABLE INFRASTRUCTURE REQUIRED FOR DECARBONIZATION

→ Under the Accelerated Energy Transition (AET) of 1.5°C, over 3.5 billion additional tonnes of steel will be required by 2050, representing over 50% of total material used across infrastructure and applications

#### GLOBAL VOLUME OF MATERIAL REQUIRED TO REACH AET 1.5 ACROSS SELECT ENERGY TRANSITION APPLICATIONS<sup>1</sup>



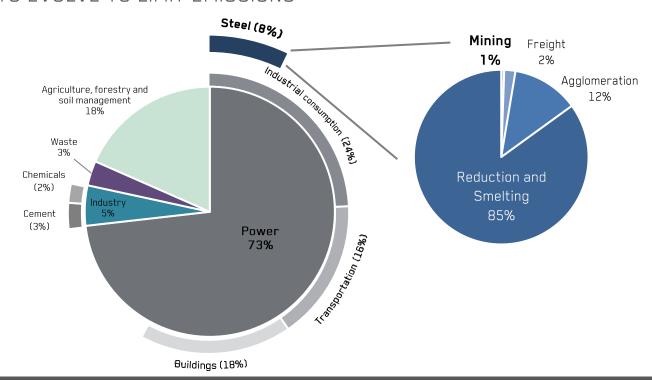


Canada will need an additional 113Mt of steel by 2050 to reach net zero targets



#### THE STEEL INDUSTRY NEEDS TO EVOLVE TO LIMIT EMISSIONS.

- → Steelmaking increased its share of global emissions in the last 20 years, now representing 8%-10% of global CO<sub>2</sub> emissions<sup>1</sup>
- → 85% of steelmaking emissions are generated by the reduction and smelting of iron ore<sup>2</sup>



High-Purity Iron ore contributes to reducing emissions in steelmaking

#### STEELMAKING METHODS AND REQUIRED SUPPLY CHAIN

#### **METHOD INPUTS PROCESS** BF-BOF Sintering Lower grades 66.2% Blast Furnace Fe Basic Oxygen Furnace Iron ore concentrate\* BOF -2.2t CO2e/t Pelletizing emissions Coke

#### **CHAMPION'S IMPACT**



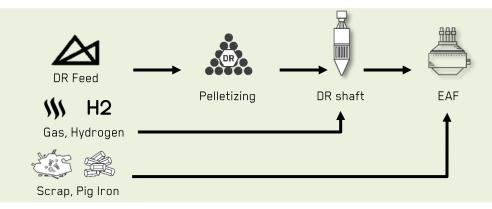
\*Bloom Lake's iron ore concentrate enables emissions reduction by ~10% in BF-BOF<sup>2</sup>



Direct Reduced Iron Electric Arc Furnace **0.3-1.0t**<sup>1</sup> CO<sub>2</sub>e/t

emissions

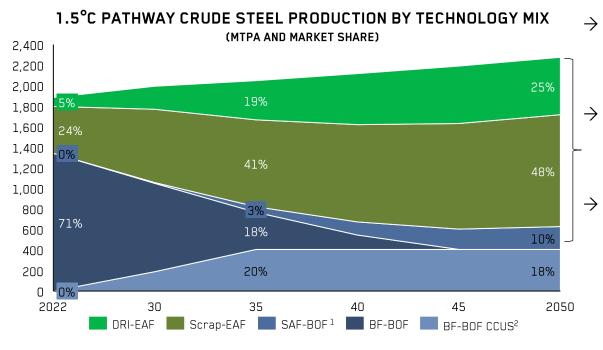




69% Fe DR Pellet Feed
(DRPF) enables the
DRI-EAF route to
reduce emissions by
2-7x compared to
BF-BOF<sup>1</sup>



#### DR QUALITY IRON ORE DEMAND WILL INCREASE ACROSS STEELMAKING METHODS

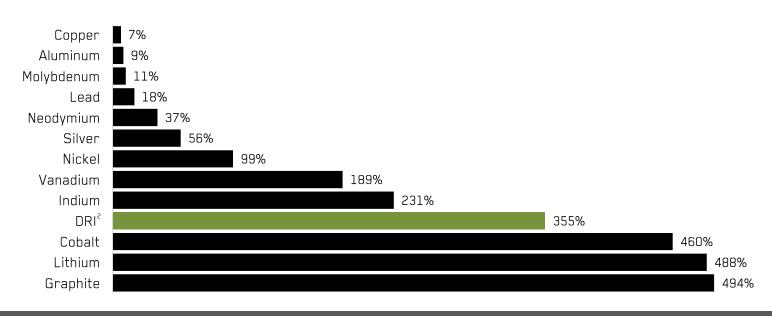


- To decarbonize the steel industry, a major transition away from BF-BOF to DRI-EAF must occur by 2050
- DRI-EAF steelmaking market share is expected to increase from 5% to 25% by 2050
- Due to limited availability of scrap steel traditionally used in EAFs, highquality DRI will be required to supplement the industry and achieve the emission reduction targets in line with the 1.5°C pathway



#### SIGNIFICANT DRI DEMAND GROWTH IS EXPECTED

# METAL DEMAND GROWTH BY 2050 EXPECTED UNDER A GLOBAL ENERGY TRANSITION (AET 2.0°C SCENARIO)¹



Expected DRI demand growth compares favorably with other metals required for the global energy transition required to limit global warming to 2.0 degrees Celsius<sup>1</sup>



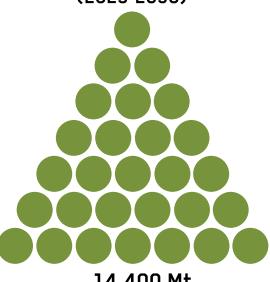
DRI-FAE STEEL MAKING WILL INCREASE DEMAND FOR PELLETS AND HIGH-PURITY IRON

#### **CUMULATIVE HISTORICAL** PRODUCTION<sup>1</sup>



More demand for DR pellets by 2050 than the cumulative historical production to support the steel industry's transition to DRI-FAF steelmaking

FORECAST DEMAND (2023-2050)



14,400 Mt

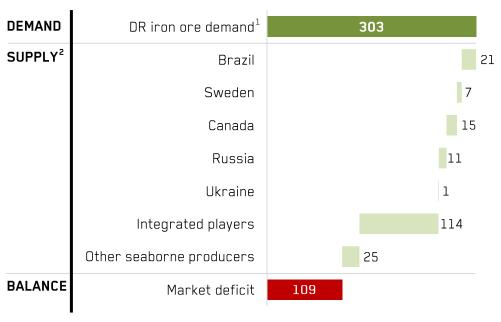
2.300 Mt

The increase in demand translates into an additional 348 Mtpa of high-purity iron needed by 2050<sup>2</sup>, equivalent to an additional -40 average scale mines



SIGNIFICANT DEFICIT OF DR GRADE IRON ORE EXPECTED AS A RESULT OF DRI DEMAND GROWTH

# DR GRADE IRON ORE SUPPLY/DEMAND BALANCE BY 2031 (Mtpa)



- → Global DR quality iron ore concentrate demand is expected to exceed 300 Mtpa by 2031
- → As a result of limited expected supply, the market deficit is expected to be approximately 109 Mtpa by 2031, representing approximately 50% of current supply and 2x current seaborne market
- → Potential suppliers of DR quality iron ore concentrate expected to be concentrated in a few countries including Brazil, Russia, Sweden, Canada and Ukraine

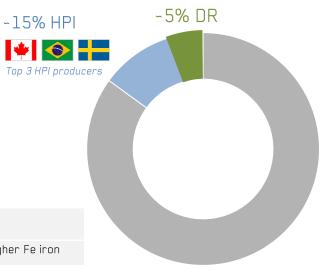


#### DR QUALITY IRON ORE SUPPLY GROWTH IS REQUIRED FOR THE GREEN STEEL TRANSITION

#### WHY IS HIGHER GRADE AND LOWER IMPURITY IRON ORE IMPORTANT?

- Reduces energy consumption and coal in traditional steelmaking
- Processed in a more energy efficient manner as fewer impurities need to be processed
- Qualifies for lower emitting steelmaking methods, including DRI/EAF steelmaking

#### **GLOBAL IRON ORE SUPPLY**



#### IRON ORE CONCENTRATE SPECIFICATIONS

HIGH-PURITY IRON (HPI)	DIRECT REDUCTION (DR)	COMMENTS
> 65% Iron Content	> 67% Iron Content	Not all ore can be economically upgraded to a higher Fe iron ore concentrate
< 5.5% Alumina & Silica	< 2.5% Alumina & Silica	Lower acid-gangue increases energy efficiency and iron yield
< 0.1% Phosphorus	< 0.1% Phosphorus	Lower impurities increases quality and usability in steelmaking
< 1.4% Impurities	< 1.4% Impurities	Impurities can include copper, manganese, titanium, vanadium etc.

-85% lower grade



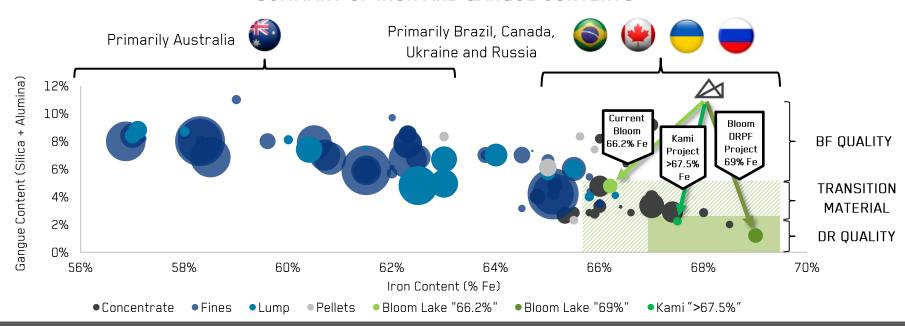






MARKET LEADING HIGH-PURITY DR QUALITY PRODUCT IN A GROWING MARKET

#### **SUMMARY OF IRON AND GANGUE CONTENTS**

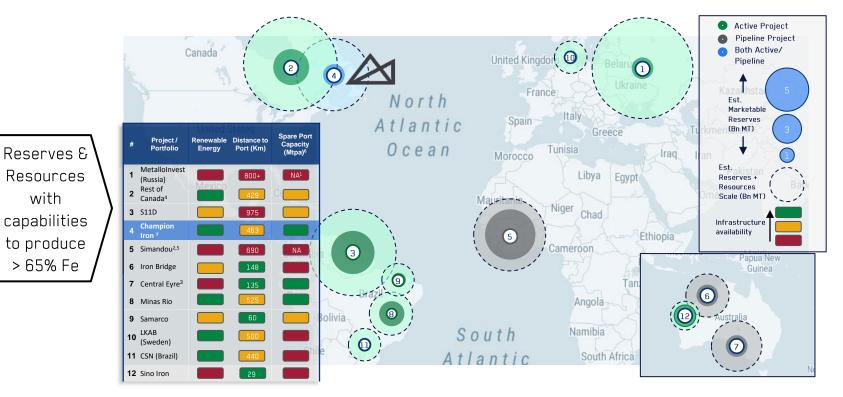


Few deposits can produce DR quality iron ore concentrate required in DRI-EAF steelmaking to produce advanced steels. Champion's 69% Fe iron ore concentrate is expected to be a market leading DR quality product

Sources: Champion Iron Limited, Wood Mackenzie 2022 data

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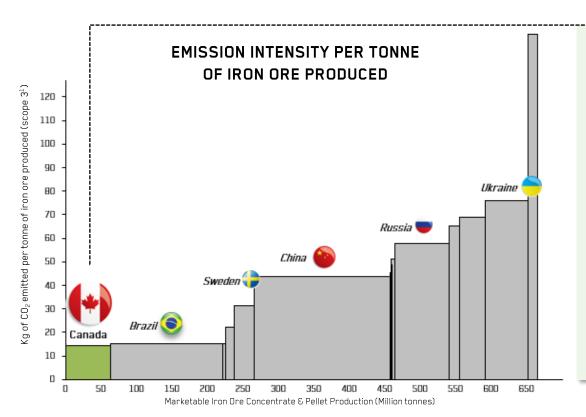
#### THE LABRADOR TROUGH IS STRATEGICALLY POSITIONED TO MEET DEMAND FOR HIGH-PURITY IRON ORE



Sources: Wood Mackenzie, Corporate Reports, PFS Studies, Public Information (can include estimates); Data as of 2022.



#### CANADIAN IRON ORE IS PRODUCED WITH ONE OF THE LOWEST CARBON INTENSITY GLOBALLY





Benefiting from renewable
hydropower capacity generating
53% of all energy consumed on
site<sup>2</sup>, Champion has an industry
leading position in emission
intensity per tonne of iron ore
produced of 9.8 Kg of CO<sub>2</sub>/t



EXTRACTING HPI IN CANADA WILL HELP REDUCE STEELMAKING EMISSIONS GLOBALLY



O.018t of CO<sub>2</sub>e emitted by HPI production in Canada<sup>1</sup>





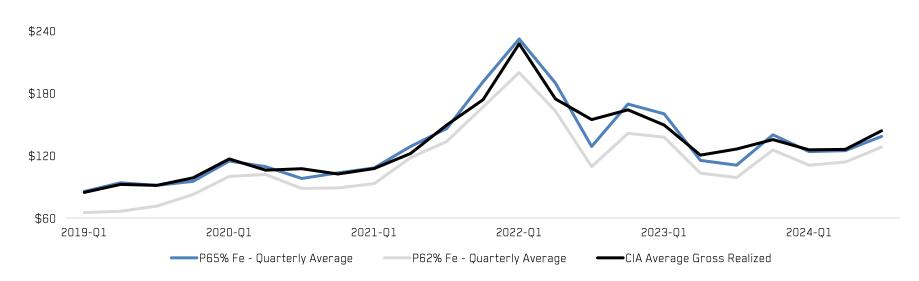
1.96t of CO<sub>2</sub>e/t
steel-related emissions<sup>1</sup>
abated with DRI-EAF steel
produced with HPI in
Canada

A possible transition of Bloom Lake's total 15 Mtpa nameplate capacity to DRPF quality could reduce nearly 9.7 Mt of CO<sub>2</sub>e/year in the steelmaking process<sup>2</sup>, representing over 100x the emissions generated by the Company



CHAMPION'S 66.2% FE IRON ORE CONCENTRATE ATTRACTS A PREMIUM OVER THE P62 INDEX

# CHAMPION'S GROSS REALIZED PRICE VS P65 AND P62 INDEX (US\$/DMT)

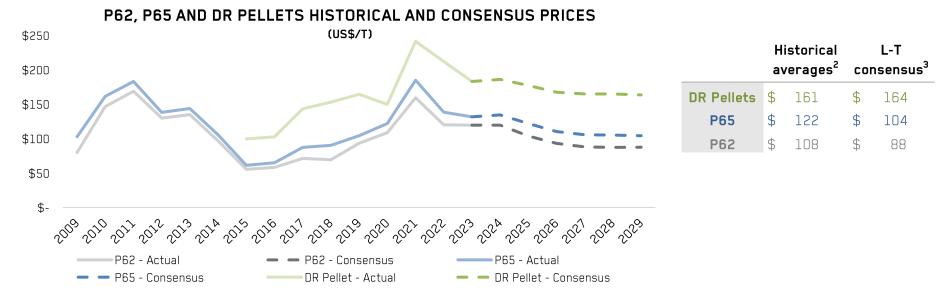


→ <u>Since 2018 restart:</u> Champion's quarterly gross realized price averaged US\$130.6/dmt<sup>1</sup>, compared to the P65 high-grade index average of US\$130.5/dmt, representing an average premium of 15% compared to the P62 index



#### LONG-TERM IRON ORE CONSENSUS PRICES FORECAST A SIGNIFICANT DECLINE IN PRICES

- $\rightarrow$  P62 and P65 index consensus prices are 32.3% and 26.9% below current prices<sup>1</sup>
- → Iron ore supply growth is limited by low price expectations, inflationary pressures, rising cost of capital, increasing ESG expectations and long lead time to deliver projects compared to other commodities





#### STEEL OUTPUT OUTPACED IRON ORE SUPPLY IN THE LAST ECONOMIC CYCLE



Over the last economic cycle, steel output grew at a faster rate than iron ore supply



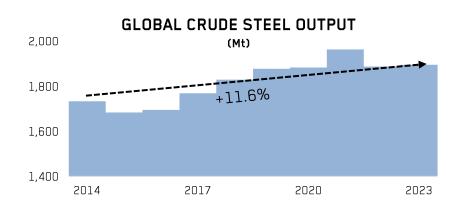
This disconnect is partly attributable to increased use of scrap in steelmaking

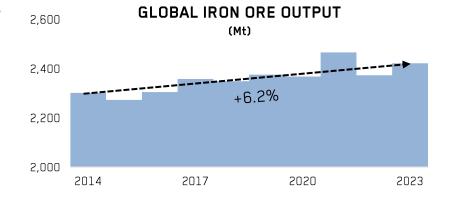


Scrap use is becoming a growing challenge considering increased protectionism and quality issues



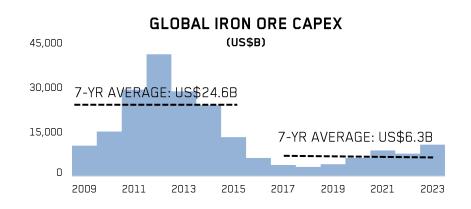
Iron ore supply growth remains low in the near-term with the 'Big 4' implying a cumulative production increase of 0.8% in their forward guidance, less than half the rate of production increase in the trailing vear1



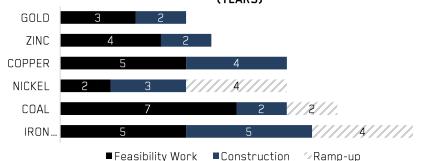




#### LOW INVESTMENTS AND LONG LEAD TIME TO LIMIT NEAR TERM SUPPLY GROWTH



#### GREENFIELD PROJECTS - LEAD TIMES (YEARS)





The iron ore industry continues to suffer from a structural lack of investments in growth projects



Average annual development capital deployed in the industry collapsed ~74% in the last 7 years compared to the previous cycle peak 7 years



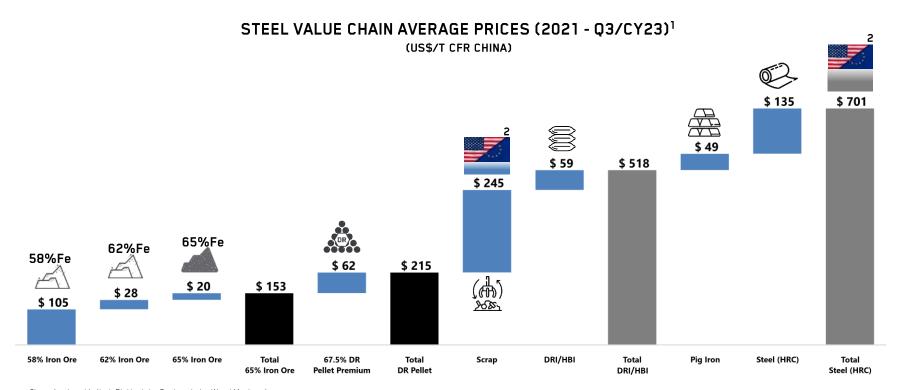
This lack of investments is expected to limit additional near-term iron ore supply, as large-scale infrastructure required by projects traditionally require 5-14 years of lead-time for project completion



As most industry participants benefit from higher iron ore prices, most continue to commit to shareholder return policies as opposed to accelerating development capital



HIGH-PURITY IRON OFFERS THE OPPORTUNITY TO CAPTURE PREMIUMS ACROSS THE GREEN STEEL SUPPLY CHAIN



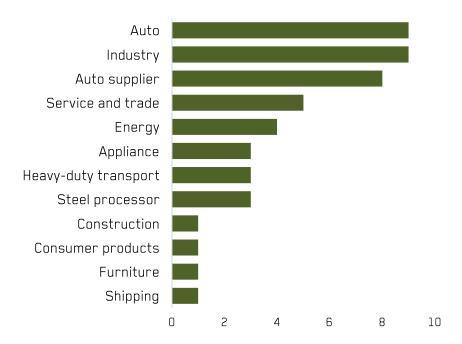
#### MARKET DYNAMICS



#### RISING DEMAND AND EMERGING PREMIUMS FOR GREEN STEEL

- → Recent acceleration in announcements related to green steel supply agreements
- → Prominent steelmakers and commodity index providers recently introduced green steel premium mechanisms, including:
  - A Nordic based steelmaker initiated an anticipated €300/tonne premium for near-zero emission steel
  - A US-based steelmaker initiated a US\$40/tonne surcharge for steel produced with DRI/HBI
  - First European flat green steel premium¹ index launched with an inaugural assessment at €200-300/tonne of CO² reduced steel

#### TRACKED GREEN STEEL SUPPLY AGREEMENTS

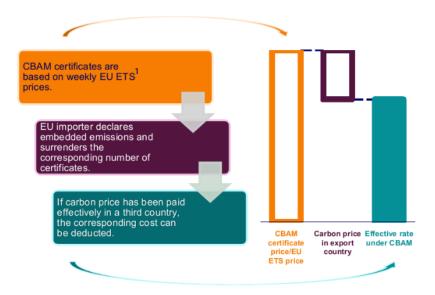


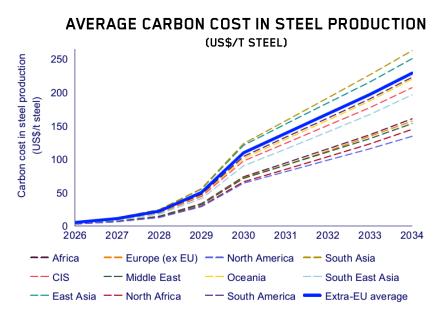
#### MARKET DYNAMICS



#### CARBON COSTS ADJUSTMENTS

- → Carbon Border Adjustment Mechanism (CBAM) implemented by the EU aims to address the issue of carbon leakage and encourage decarbonization practices globally
- → CBAM will be implemented in 2026, and reach its full impact by 2034, which will impact the iron and steel sector
- → As CBAM financial obligations are progressively deployed, carbon emission considerations will be an increasingly important cost component in international steel trade

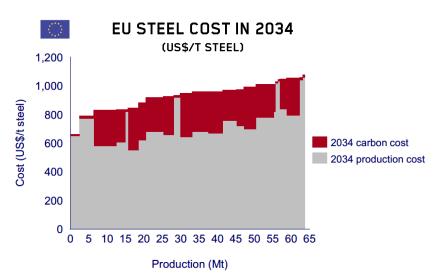




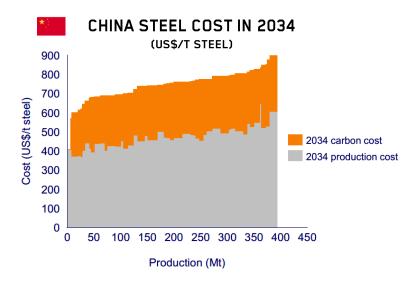


#### CARBON COSTS ADJUSTMENTS CASE STUDIES: EU AND CHINA

- → Post-2034, all EU steel producers will be exposed to carbon cost obligations
- → BOF producers carbon costs are forecasted to be nearly 16 times higher than their EAF peers once CBAM is fully deployed



- → In China, significant CBAM will be expected to be passed onto steel producers who want to export to the FU market
- → Similar legislation recently proposed in the US with "Foreign Pollution Fee Act of 2023"



#### **GOVERNMENTS SUPPORTING THE GREEN STEEL TRANSITION**



#### LOCAL SUPPORT

→ Québec & Labrador and

Newfoundland listed high-purity iron

ore on their critical minerals lists,

joining other minerals such as

copper, nickel and cobalt

#### GLOBAL ALIGNMENT TO INCREASE DEMAND FOR GREEN STEEL

- → At COP28, several countries including Canada, Germany, UK and US, pledged to procure green steel for public infrastructure construction, which is responsible for 25% of global construction revenue
- → Europe's Carbon Border Adjustment Mechanism (CBAM), which initiated its first phase in 2023, aims to address carbon leakage for raw materials, including steel
- → USA, Canada, Australia and Latin America announced public consultations and measures to introduce a mechanism similar to CBAM

#### **INDUSTRY INSIGHTS**





#### Disclaimer:

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#### PRESENTER BIO



- → Jeremy was born in Tonbridge, England in 1961 and emigrated to Canada in 1966. Jeremy grew up in Ottawa and attended Queen's University in Kingston, Canada, earning a BSc in Chemical Engineering in 1983 followed by an MSc in Chemical Engineering in 1985.
- → Jeremy is a founding partner and President of Continuous Improvement Experts (CIX). Previously, he has held senior positions at Transfield Services, Tenova, WorleyParsons, Nupro Corporation, Bechtel Corporation, Florida Steel and Hatch Associates.
- → Jeremy was made an honorary member of the American Institute of Mining, Metallurgical and Petroleum Engineers. He is a distinguished Member of the AIST, a recipient of the John Bell Award for advancing EAF technologies and a Fellow of the International Iron Metallics Association (IIMA). He is the past chairman of the AIST EAF Committee and the past chairman of the WorldSteel EAF Technology Committee. He is also a frequent contributor to AIST conferences, a frequent session chairman at its annual convention and the author of over 100 technical papers and articles.
- → Jeremy's steelmaking experience spans direct reduction, smelting reduction, EAF steelmaking, blast furnace operations, BOF operations, ladle metallurgy, vacuum treatment and casting operations for all grades of steel.



Jeremy Jones
President, CIX

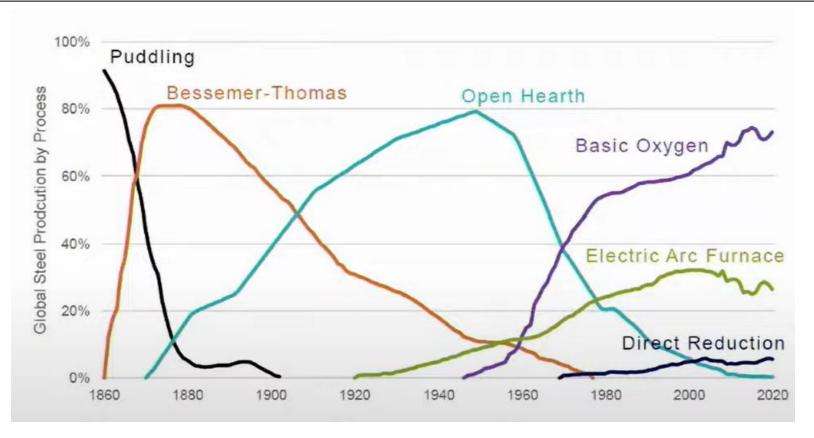




### STEELMAKING PROCESSES

#### HISTORICAL STEELMAKING PRODUCTION BY PROCESS



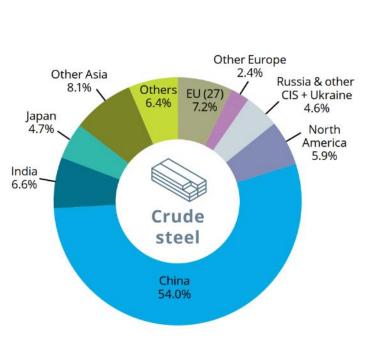


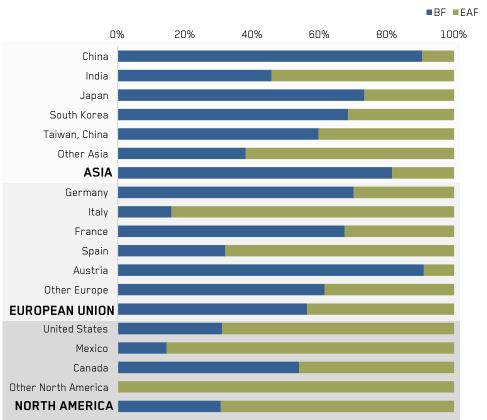
#### **CURRENT ANNUAL STEELMAKING PRODUCTION BY PROCESS**



#### **CRUDE STEEL PRODUCTION IN 2022**

#### **CRUDE STEEL PRODUCTION BY PROCESS IN 2022**

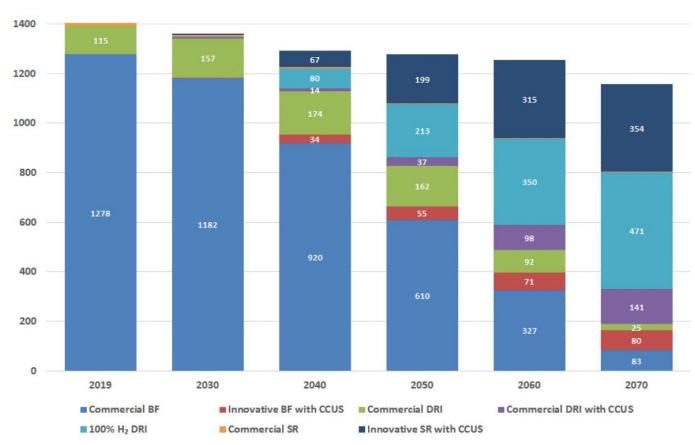




Source: WorldSteel

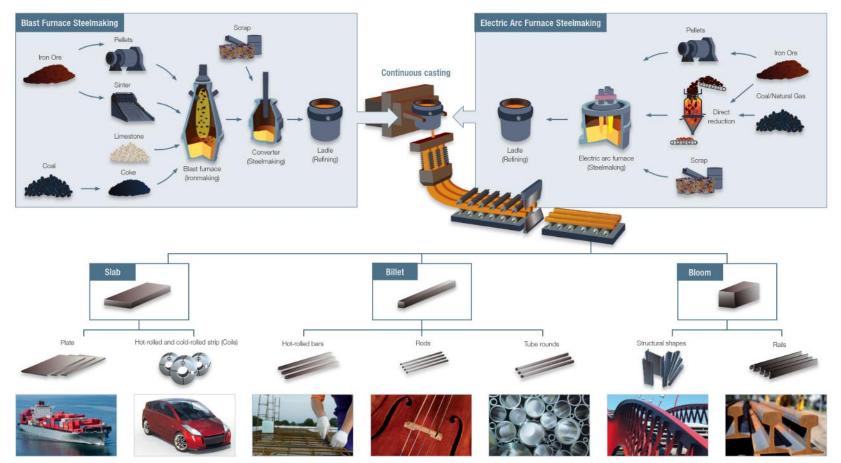
#### **FUTURE STEELMAKING PRODUCTION BY PROCESS**





#### **OVERVIEW OF THE STEELMAKING PROCESS**





#### EAF VS INTEGRATED STEEL PLANT

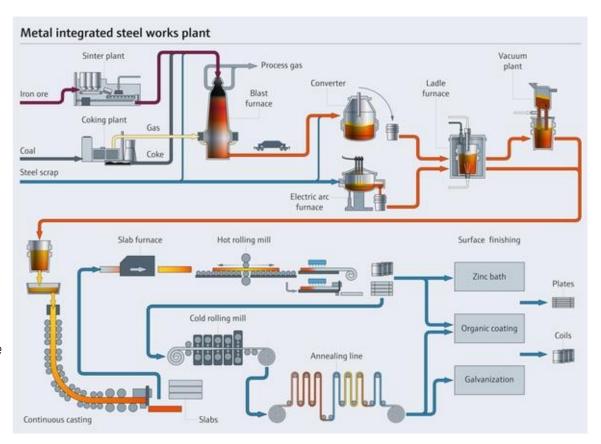


#### INTEGRATED STEEL PLANT

- → Huge associated infrastructure high cost of investment
- → Several environmental concerns
- → Utilizes 70-85 % hot metal in BOF charge, 15-30 % scrap (depends on HM chemistry)

#### **EAF**

- → Less associated infrastructure requires large electrical power supply
- → Can utilize up to 100 % orebased metallics ("OBMs") or 100 % scrap depending on the product being made
- → EAF route can produce any product currently made by integrated route



Source: Endress+Hauser 50

#### **H2-DRI-EAF: PREFERRED SOLUTION TO DECARBONIZE STEEL**

kg CO2 per ton of

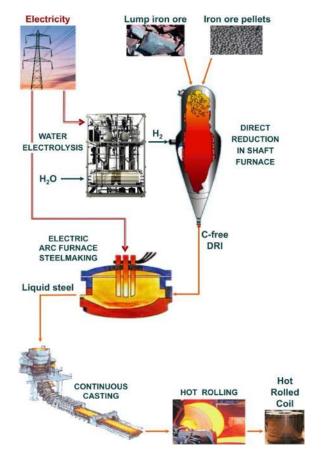
liquid steel





(Green hydrogen, fossil-free electricity,

heat generation, and transport)



Sources: Primetals, ULCOS

**HYDROGEN** 

BASED

#### **USE OF BF PELLETS AND INTERMEDIATE ELECTRIC SMELTING**



- → A potential solution for the use of lower grade BF pellets as DRI feedstock is an intermediate smelting/melting step between DR plant and steel plant. This technology is already offered by suppliers and plant builders (Tenova, Primetals, Metso Outotec, Hatch and SMS) whereby lower grade DRI is refined under reducing conditions in an electric smelter (e.g. submerged arc furnace, open slag bath furnace) prior to being charged to the steel plant or cast into pig iron ingots. This technology is expected to be utilized by Thyssenkrupp Steel, ArcelorMittal (Dunkerque and Gijon), Acciaerie d'Italia (Taranto). Aggregate volume of DRI from these plants is estimated at ~11 mt (requiring ~16 mt pellets)
- Tata Steel Ijmuiden's transition to green steelmaking will involve DR plants coupled with intermediate electric smelting capability. This solution is under active consideration for the medium term by iron ore producers in Western Australia whose Pilbara ores are difficult and expensive to beneficiate

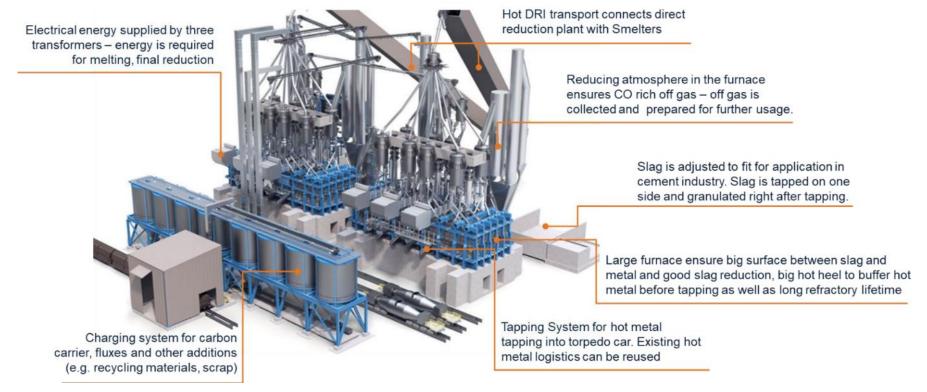
# ALTERNATIVE DR PROCESS ROUTES 1-step process Molten electrolysis (Boston Metals) Electrolytic process (Electra) Primetals C Barrington ALTERNATIVE DR PROCESS ROUTES OTHER POTENTIAL ROUTES A Molten electrolysis (Boston Metals) Plasma process SIGNIFICANT ADDITIONAL ENERGY REQUIREMENTS

#### INTERMEDIATE ELECTRIC SMELTING



53

USING AN INTERMEDIATE STEP TO ENABLE THE USE OF LOW-GRADE IRON ORE IN DRI-EAF IS SIGNIFICANTLY MORE COMPLEX AND COSTLY



Source: Primetals Technologies



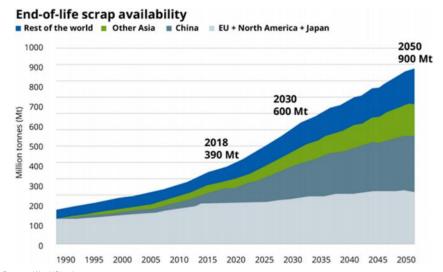


## THE PROBLEM WITH SCRAP

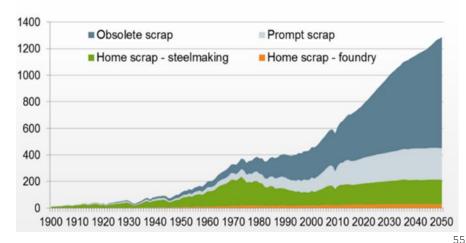
#### SCRAP SUPPLY CHALLENGES



- Rising residual levels copper, tin, nickel, molybdenum/chrome
- Extraneous materials dirt, oil, grease fluff, coatings
- Proximity of scrap to steelmaking hubs logistics of collection/transportation and associated CO<sub>2</sub> footprint
- Lack of common global nomenclature for scrap grades and large degree of variability in obsolete scrap
- Declining availability of prime/prompt scrap
- Copper content in products expected to rise with increased electrification



#### Global scrap availability, Mt



Source: WorldSteel

#### A SOLUTION IS NEEDED TO ACHIEVE HIGH SCRAP RECYCLE RATE



- → In North America, the short-term solution is dilution; this is evidenced by the high use of ore-based materials (pig iron, DRI and HBI) in the charge mix to dilute residual levels in the recycled steel
- → The added benefits of DRI and HBI on GHG emissions will also be a factor leading to increased use
- Currently, OBMs enable the recycling of high-residual obsolete scrap; without OBMs, a significant amount of obsolete scrap would not be recycled, but would be destined for landfills
- → "Prime" scrap availability is shrinking in many mature economies as manufacturers become more efficient and generate lower quantities of scrap
- → As steel technology evolves (i.e. advanced high-strength steels), the quantity of steel used is also shrinking
- → At the same time, several automakers are calling for high quality flat products made without pig iron



#### THE CHALLENGE WITH RESPECT TO SCRAP RESIDUAL LIMITS



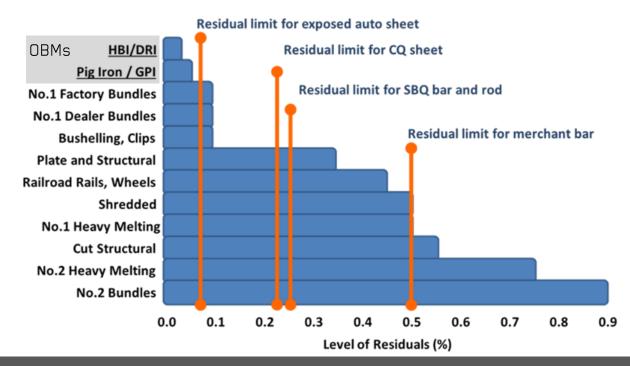
#### **Key Drivers**

- → A shortage in prime scrap
- → Rising copper levels in obsolete scrap
- → Increased EAF based steel production

#### **Impacts**

- → Result in shortages of higher quality scrap to support the steel industry
- → The demand for "clean" iron units will grow considerably
- → This demand can only be satisfied with OBMs (MPI, GPI, DRI and HBI)

#### SCRAP PRODUCTS AND RESIDUAL LIMITS FOR CERTAIN STEEL



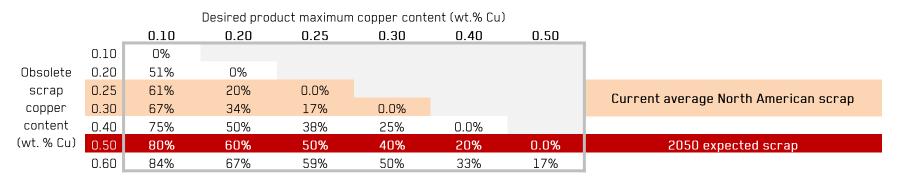
As the average copper content in recycled scrap increases, more ore-based material is required to dilute the residuals in the scrap to produce certain steel products

#### AN EXAMPLE WITH COPPER RESIDUALS IN SCRAP



- → Currently, the average copper content of scrap recycled in North America is about 0.25–0.30 weight %
- → Even at this level, to make a product with 0.10 wt. % Cu max, it is necessary to blend around 65% OBM to achieve the targeted chemistry
- → It is expected by 2050, the average copper content in obsolete scrap could reach 0.50 wt.%

#### **NECESSARY OBM CONTENT OF THE CHARGE MIX**



By 2050, it may not be possible to produce even basic steel products such as rebar using only obsolete scrap, without the use of OBMs to dilute the scrap residual impurities

Source: CIX





# THE SOLUTION: ORE-BASED METALLICS ("OBMs")

#### A HISTORICAL PERSPECTIVE OF OBMs



#### **PAST**

- → Ore based metallics "OBMs" (pig iron, DRI and HBI) are derived from iron ore as opposed to scrap
- → OBMs have been utilized in EAF operations for many years
- → In the early days, geographical areas lacked sufficient scrap to support EAF operations turned to DRI
- → This was most prominent in areas that have access to cheap and plentiful natural gas
- → Chronologically, the next phase in OBM utilization involved the use of pig iron in the EAF
- → The reasons for this were many improved carbon yield to the bath, increased productivity and more consistent operations

- → Eliminated the need for charge carbon
- → Resulted in increased oxygen utilization in the EAF
- → The next big milestone in OBM utilization occurred when EAF operations transitioned to the production of flat products
- → Insufficient supply of prompt scrap necessitated the utilization of DRI, HBI and pig iron to achieve the desired product chemistry
- → This trend continued as EAFs moved into the production of higher and higher quality flat products resulting in the use of larger and larger quantities of OBMs

#### PRESENT AND FUTURE

→ As the world moves into the next evolution of steelmaking, and consider the scrap market out to 2050, OBMs are no longer a luxury, but have become a core feedstock for EAF steelmaking

Source: CIX

#### OTHER CONSIDERATIONS FOR OBM UTILIZATION

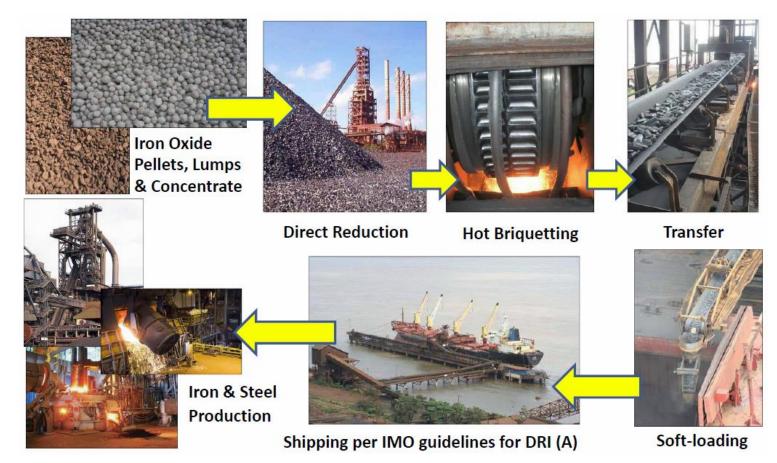


- → Helps to close the loop on the circular economy
- → Enables utilization of more medium/low grade scrap
- → Greater steelmaking capacity moving to EAF based production
- → Consistency of EAF operations
- → Pacing of operations



#### **EXAMPLE OF MERCHANT MATERIAL FLOW FOR HBI**





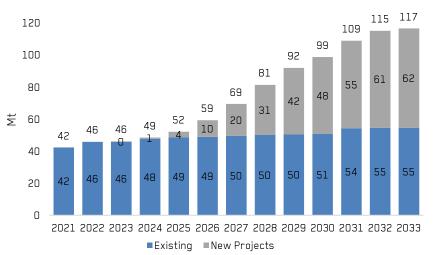
Source: Midrex

#### MERCHANT DR PELLET SHORT-TERM DEMAND PROJECTION

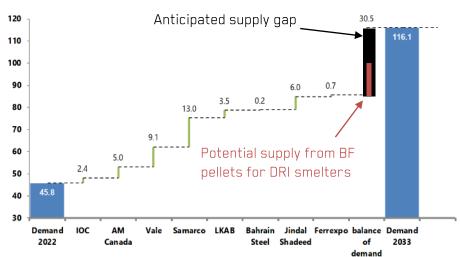


- > Iron ore pellet prices are largely a function of demand for the Chinese steel industry
- → In the latter part of 2021, as China reduced integrated steel production, pellet prices have dropped
- → However, increased demand globally for EAF based steelmaking has placed increased demand on EAF feedstocks

#### MERCHANT DR PELLET DEMAND



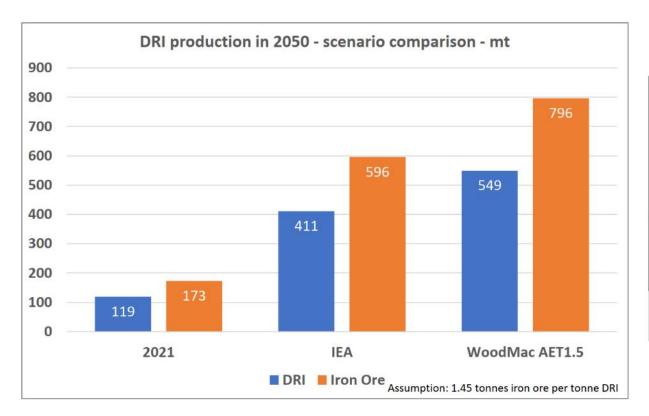
#### MERCHANT DR PELLET SUPPLY



Source: C Barringto

#### DRI DEMAND LONG-TERM PROJECTIONS







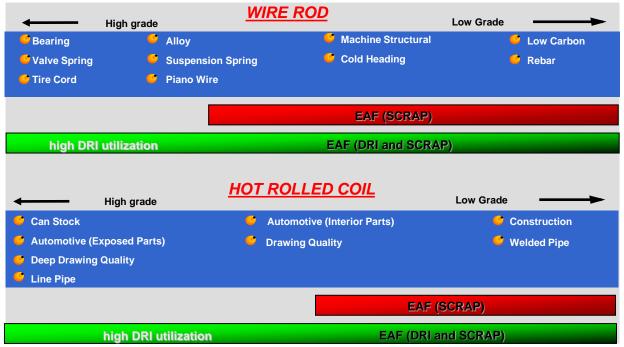
AET = Accelerated Energy Transition

Sources: C Barrington, IEA, Wood Mackenzie

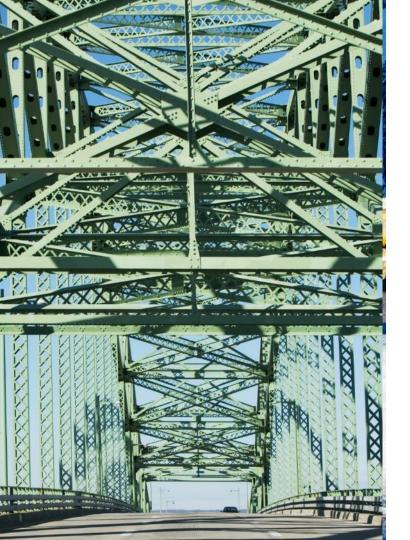
#### DRI UTILIZATION ENABLES HIGHER GRADE STEEL PRODUCTS



- → For flat products, wires, springs, there is a much greater need for OBMs to reduce residual contents
- → Demand is higher in developed countries for flat products vs. lower grade products like rebar
- → Many announced EAF projects in North America are for higher flat products



Source: A. Manenti





### VALUE-IN-USE ("VIU") CONCEPT

#### VALUE-IN-USE MODEL INPUT PARAMETERS



#### LOW IS GOOD

- → % ACID GANGUE (SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>) Higher gangue results in increased kWh, higher yield losses, higher flux requirements, higher slag generation
- → % OTHER GANGUE May consider % P if over a target level, % S in some cases. Ore source determines S and P levels want low levels
- → % OTHER RESIDUAL May assign additional value due to lack of Cu and other residuals
- → % FeO This can be recovered but takes reductant and energy
- → % H<sub>2</sub>O Represents a yield loss and impacts energy consumption
- → % FINES Some fine materials will be lost to the offgas system (yield loss)
- → % C Requirements depend on how you operate the EAF

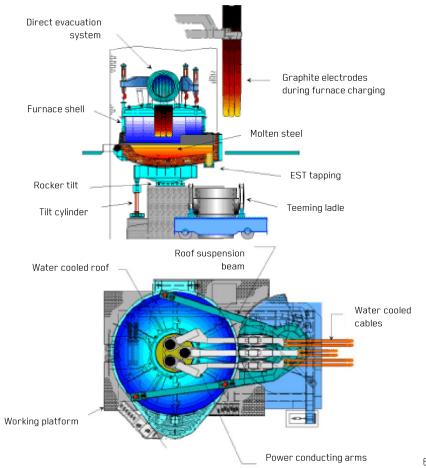
#### HIGH IS GOOD

- → % Fe TOTAL As high as possible
- → **% METALLIZED Fe (PURE Fe)** Want this as high as possible
- → DRI/HBI QUALITY Use of high % of DRI/HBI is only economical if the quality is high (QASCO/SULB)
- → DRI TEMPERATURE Hot charging is preferred temperature as high as practical (integrated site advantage)
- → % C Requirements depend on how you operate the EAF

#### IMPACT OF ACID GANGUE CONTENT IN EAF EXPLAINED



- → The higher the gangue content, the greater the flux requirement in the EAF
- → Fluxes combine to form calcium silicate, di-calcium silicate consumes about 740 kWh per tonne of slag
- → Larger slag quantity results in greater yield loss both FeO in the slag and Fe droplets trapped in the slag
- → Need more MgO in order to protect furnace refractories
- → + 0.5% acid gangue in DRI result in approximately + 20 Kwh/t melting power in EAF
- → + 0.5% acid gangue in DRI result in + 0.09 kg/t electrode consumption in EAF
- → + 0.5% acid gangue in DRI result in approximately
  - + 2-4 minutes of Power On time



#### DR PELLET VIU CALCULATION INPUTS



DR pellet provenance	Bloom Lake	Lead competitor 1	Lead competitor 2	Lead competitor 3
Assumed purchase cost (US\$/t)	400	400	400	400
Fe Tot	93.1%	92.1% 92.0%		92.4%
Fe Met	87.5%	86.6% 86.5%		86.8%
Metallization	94.0%	94.0%	94.0%	94.0%
С	2.0%	2.0%	2.0%	2.0%
SiO <sub>2</sub>	1.5%	1.7%	2.4%	1.7%
Al <sub>2</sub> O <sub>3</sub>	0.3%	0.8%	0.5%	0.7%
MgO	0.5%	0.1%	0.4%	0.1%
CaO	0.9%	1.0%	0.9%	1.0%
Р	0.01%	0.05%	0.01%	0.07%
Fines < 4 mm	3.0%	3.0% 3.0%		3.0%
FeO	7.2%	7.1%	7.1%	7.1%
Metallic Fe	87.5%	86.6%	86.5%	86.8%
H <sub>2</sub> O	0.5%	0.5%	0.5%	0.5%
wt. % Cu	0.002%	0.002%	0.002%	0.002%
Other	0.1%	0.7%	0.2%	0.4%
C required to reduce 100 % FeO	1.2%	1.2%	1.2%	1.2%

<sup>ightarrow</sup> A VIU model attempts to determine the value of the commodities under consideration

<sup>→</sup> The result of such model is a value to be compared to the prevailing alternatives

#### DR PELLET VIU CALCULATION OUTPUTS



	UNITS	BLOOM LAKE	COMPETITOR 1	COMPETITOR 2	COMPETITOR 3
Assumed DRI purchase cost	US\$/t	400	400	400	400
(+) ADJUSTMENTS					
Change C	US\$		-0.03	-0.03	-0.02
Dolo Lime	US\$		2.48	2.32	2.47
Lime	US\$		-0.41	0.83	-0.52
Kwh	US\$		0.7	1.03	0.66
Productivity	US\$		0.38	0.56	0.36
(÷) Fe YIELD	Kg Fe/Kg DR pellet	0.876	0.859	0.853	0.862
(=) VIU adjusted cost to steelmaker to produce a tonne of steel (lower = better)	US\$/t Fe	457	469	474	467
Implied DRI break-even purchase cost to steel producers based on Bloom Lake Quality VIU <sup>1</sup>	US\$/t Fe		411	415	409

Bloom Lake's expected DR quality iron ore would result in cost savings for steelmakers compared to competing products



#### **STEELMAKING**

- → DRI and HBI have evolved into a high-quality charge material for the EAF with multiple benefits
- → Benefits are highly dependent on practices and local plant parameters
- → Benefits are best quantified using a VIU model
- → Roof feeding gives considerable benefits

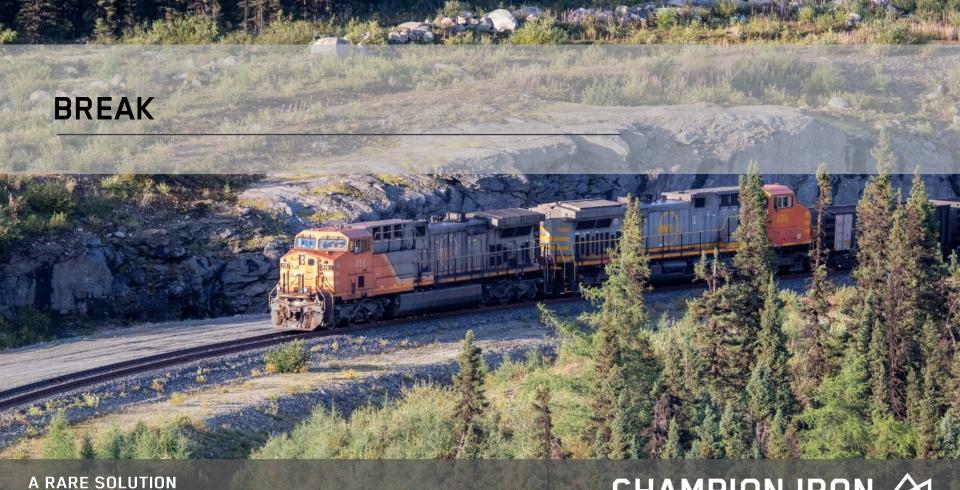
#### SCRAP vs. OBMs

- → Demand for OBMs will continue as OBMs will be used to increase the recycling rate of steel scrap
- → Currently, hydrogen based DRI/HBI is projected to have the lowest carbon footprint for production
- → Gangue level in DRI/HBI has a significant impact on Scope 3 emissions for the EAF steelmaking process
- → Demand for OBMs will be a function of the quality of the recycled scrap

#### **CHAMPION'S SOLUTION**

- The projected chemistry of DRI/HBI produced using Champion's DR quality iron ore is projected to bring significant benefits to the EAF steelmaking process beyond what are currently achieved utilizing current DR grade pellets
- → DRI/HBI made using Champion's DR quality iron ore is projected to provide energy savings, increased Fe yield and reduced operating costs as compared to current commercial DR grade pellets
- → DRI/HBI made using Champion's DR quality iron ore is projected to provide reduced carbon footprint for EAF steelmaking





A RARE SOLUTION
TO DECARBONIZE STEELMAKING

CHAMPION IRON 🖎



#### BLOOM LAKE A WORLD CLASS ASSET

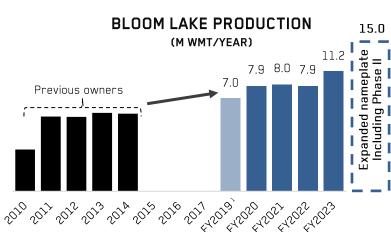
- → Significant investments completed to recommission the Bloom Lake Phase I in 2018 and complete the Phase II expansion in 2022
- → Increased operational stability, resulting in record quarterly iron ore concentrate production of 4.0M wmt in Q3/FY24, surpassing Bloom Lake's expanded nameplate capacity of 15 Mtpa (equivalent to an average quarterly nameplate capacity of 3.75 Mt)
- → Record quarterly iron ore concentrate sales of 3.2M dmt in Q3/FY24, up 12% from the previous quarter



Proven and completed processing plant



Commissioned third-party infrastructure





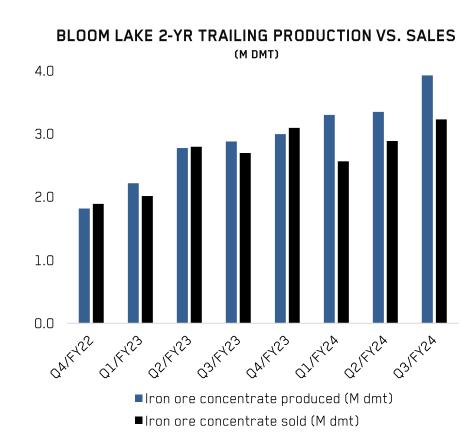


#### RAIL TRANSPORTATION AND LOGISTICS



#### **RAIL OVERVIEW**

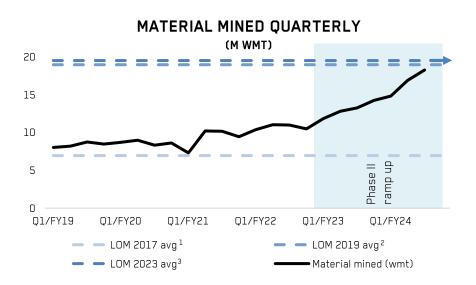
- → Champion signed a long-term contract with QNS&L, providing haulage capacity exceeding Bloom Lake's nameplate capacity of 15 Mtpa
- → Slower than anticipated ramp-up in railway services resulted in cumulative stockpiled iron ore concentrate of 2.4M wmt stockpiled as of December 31, 2023
- → The Company is engaging with the rail operator to ramp-up services and access its contracted shipping capacity to ensure it can haul Bloom Lake's increased production in future periods and gradually ship iron ore concentrate currently stockpiled at Bloom Lake

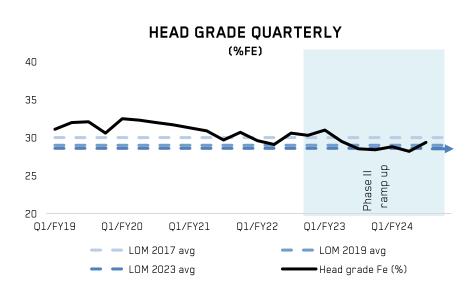




#### PRODUCTION AND OPERATIONS

- → <u>Since 2018 restart</u>: Bloom Lake mine consistently exceeded mining tonnage targets set out in the Phase I restart study, demonstrating bulk mining expertise, while ore grades reconciled with expectations
- → Recent performance: Material mined and hauled increased 8% quarter-on-quarter and 38% year-on-year. Stripping activities expected to gradually increase to maintain available ore in accordance with the life of mine plan

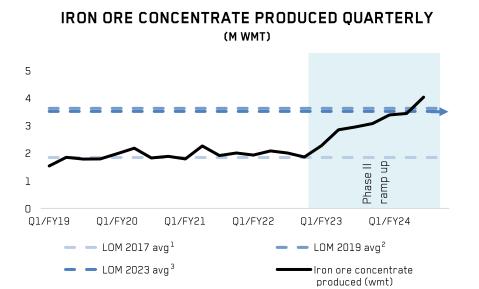


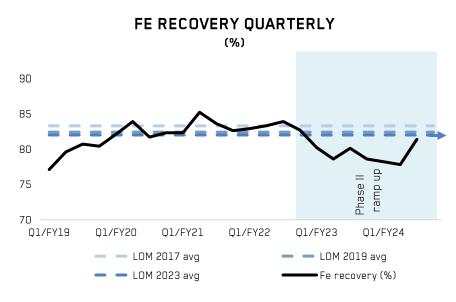




#### PRODUCTION AND OPERATIONS

- → Since 2018 restart: Iron ore concentrate production in line with Phase I restart study, including low variability quarter over quarter
- → Recent performance: Record quarterly iron ore production of 4.04M wmt in Q3/FY24. Work programs and optimizations significantly improved iron ore recoveries which are now approaching the Company's 82% target





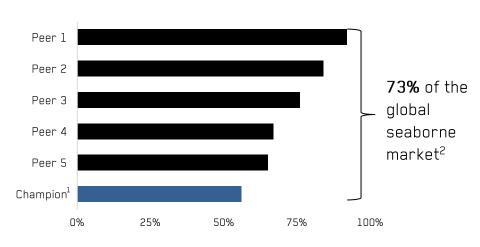
# **SALES PERFORMANCE**

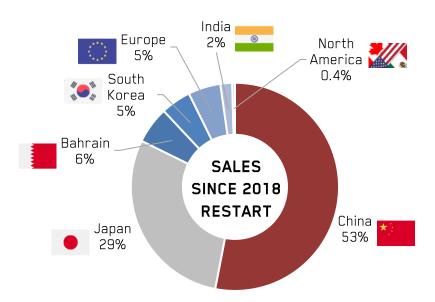


#### DIVERSIFIED GLOBAL CUSTOMER BASE

- → Benefiting from its high-purity iron ore concentrate, Champion completed sales to a large array of global customers, including over 35 customers since the 2018 recommissioning
- → A significant portion of sales are secured with long-term sales agreements based on market prices

#### IRON ORE PRODUCERS' % SALES TO CHINA<sup>1</sup>





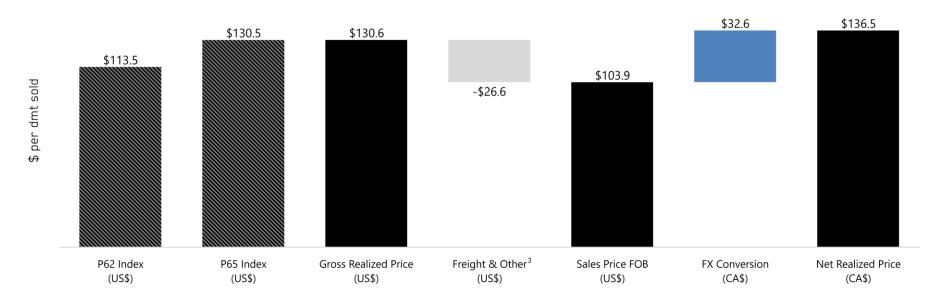
# **SALES PERFORMANCE**



#### PREMIUM PRODUCT PRICING

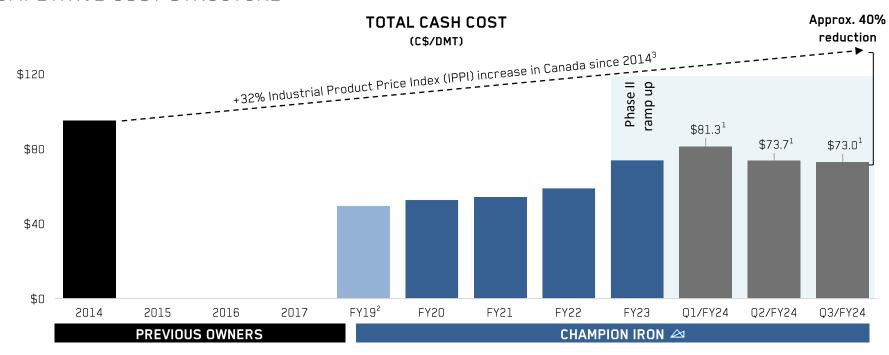
 $\rightarrow$  Gross realized price of US\$130.6/dmt<sup>1</sup> since 2018 restart, which compares favourably with the P65 high-grade index average of US\$130.5/dmt and 15% premium over P62

#### **AVERAGE REALIZED SELLING PRICE SINCE 2018 RESTART<sup>2</sup>**





COMPETITIVE COST STRUCTURE

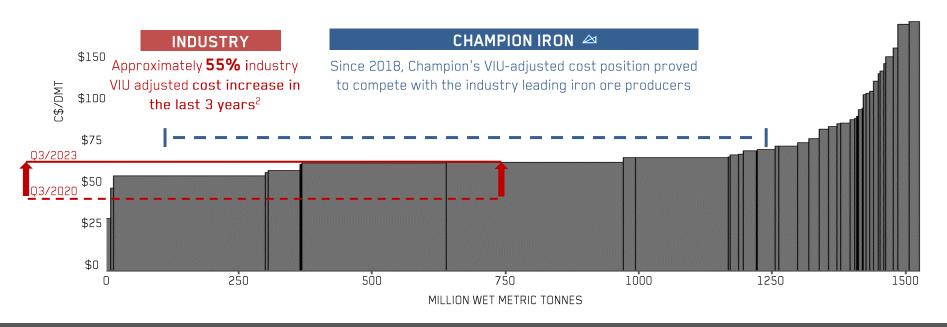


Despite 32% industrial products inflation since 2014, Champion reduced total cash costs per tonne compared to Bloom Lake's previous owners by completing significant investments and optimizing operations while completing the Phase II expansion project



COMPETITIVE COST STRUCTURE

#### VALUE-IN-USE (VIU) ADJUSTED IRON ORE COST CURVE (CFR, 62% FE FINES EQUIVALENT)1

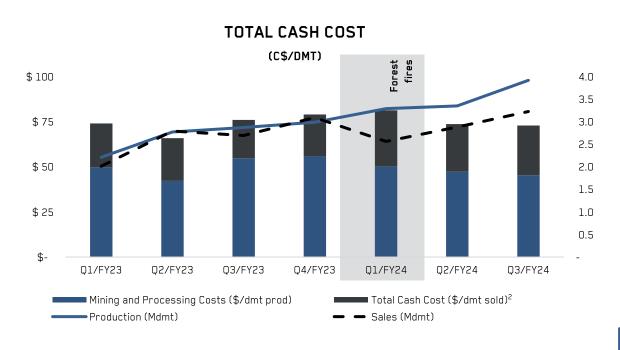


Competitive cost profile, adjusted for VIU, compared to global iron ore producers despite recent transitional costs required for Bloom Lake's ramp-up expanded capacity and current high-grade quality premium at historical low level

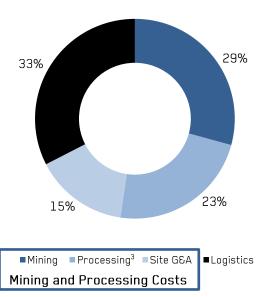


#### COMPETITIVE COST STRUCTURE

→ <u>Near-term outlook</u>: Ongoing work programs to optimize operations as the Company completes the ramp-up of the Phase II expansion project are expected to benefit total cash cost per tonne in the near-term



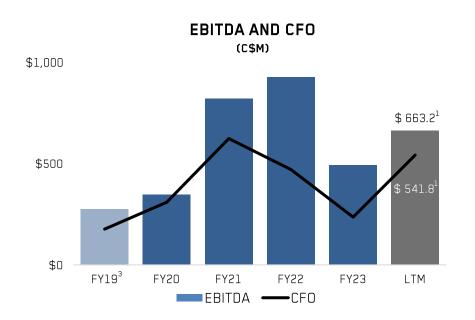
# TOTAL CASH COST BREAKDOWN<sup>1</sup> (Q1/FY23 - Q3/FY24)

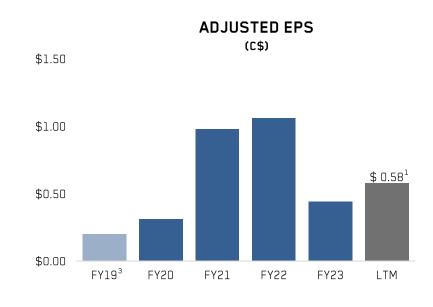




#### FINANCIAL RESULTS

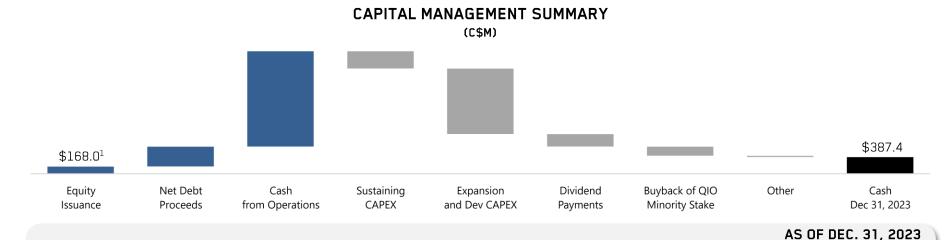
- → Total cash flow from operations ("CFO") represents 66% of total EBITDA since Bloom Lake restart in 2018<sup>2</sup>
- → Near-term outlook: Financial results expected to benefit in the near-term from increasing production volumes and normalizing operating costs per tonne







#### CHAMPION HAS A TRACK RECORD OF RESPONSIBLE CAPITAL MANAGEMENT



#### **BALANCE SHEET**



\$387.4M Cash and cash equivalents \$228.0M Working capital<sup>2,3</sup>



\$549.5M Short-term & Long-term debt4

## **LIQUIDITY POSITION**



Cash net of debt of \$65.9M (including working capital)



\$550.3M Available & undrawn loans<sup>5</sup>

# **OVERALL PERFORMANCE**



### FINANCIAL YEAR 2024-2025 FOCUS



Ongoing sustainable environmental management and priority on the health and safety of employees, partners and communities



Optimize operations at Bloom Lake to sustain expanded nameplate capacity of 15 Mtpa while mitigating inflationary pressures



Advance the DRPF project and position the Company to consider other growth opportunities



Diligent capital management and shareholder returns



# **GROWTH OPPORTUNITIES**



TSX: CIA | ASX: CIA | OTCQX: CIAFF



# **WORLD CLASS INFRASTRUCTURE**



RARE SOLUTION FOR THE GREEN STEEL SUPPLY CHAIN IN A PROVEN OPERATING HUB AND NEAR AVAILABLE INFRASTRUCTURE



Mining hub perduring since 1960s with proven skilled labor

Renewable energy and power transmission infrastructure

Proximity to rail with available capacity, including the common carrier rail network (QNSL)

Deepwater port of Sept-Iles provides capacity to accommodate large vessels

Source: Champion Iron Limited

# **WORLD CLASS INFRASTRUCTURE**



GLOBAL OPPORTUNITY FOR THE GREEN STEEL SUPPLY CHAIN



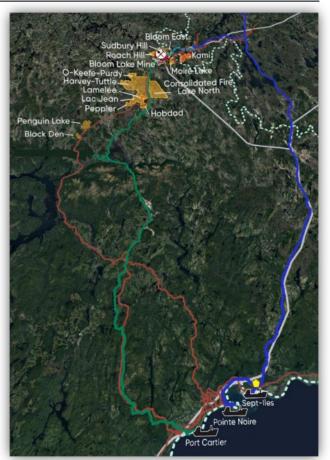
#### **GLOBAL SCALE OPPORTUNITY**

- ightarrow 7 iron-rich properties within 60 km of Bloom Lake
- → 2.2Bt¹ current and 1.5Bt² historical Measured and Indicated resources, and 0.4Bt¹ current and 4.9Bt² historical Inferred resources



#### **DEMONSTRATED LOCAL EXPERTISE**

- → Proven ability to deliver projects on time and on schedule
- → Local partnerships to create a positive impact for all stakeholders
- → Ability to attract and retain skilled workforce and contractors



# **GREEN STEEL SUPPLY CHAIN SOLUTIONS**



DE-RISKING A VAST PROJECT PORTFOLIO REQUIRED FOR THE GREEN STEEL SUPPLY CHAIN

#### PRODUCTS OPTIMIZATION



#### **UPGRADE BLOOM LAKE**

Concentrator(s) to
Direct Reduction Pellet Feed (DRPF)
quality iron ore



#### POINTE-NOIRE PELLET PLANT

Study to rebuild and produce DR grade pellets



#### COLD PELLETIZING

Invested and collaborating with Binding Solutions Limited ("BSL")





#### BLOOM LAKE → BEYOND 15 MTPA

Significant mineral resources creating opportunities beyond Life of Mine ("LoM")



#### KAMI → 9 MTPA PROJECT

Recently completed Study



#### **CLUSTER II**

Sizeable opportunity comparable in scale to Simandou Block 3 & 4<sup>1</sup>



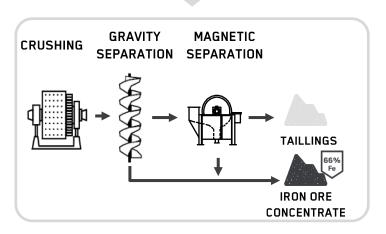
# MINING VOLUME INCREASE



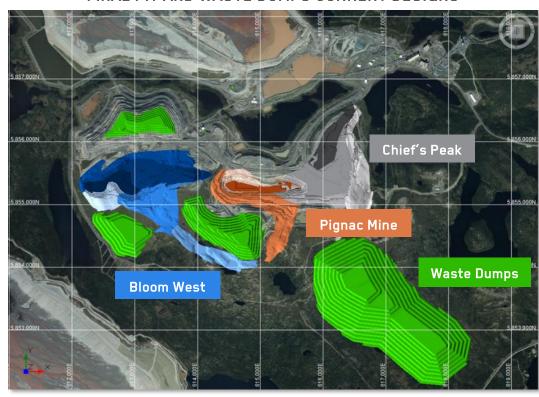
#### BLOOM LAKE MINE: A LONG-LIFE ASSET WITH A PROVEN FLOWSHEET

#### SIMPLIFIED FLOWSHEET





#### FINAL PIT AND WASTE DUMPS CURRENT DESIGNS



# MINING VOLUME INCREASE



## 2023 BLOOM LAKE TECHNICAL REPORT HIGHLIGHTS

- ightarrow Confirmed 18 years' LoM based on the mineral reserves
- → 40% increase in Measured and Indicated ("M&I")
  Resources
- → 360% increase in Inferred Resources
- → Mineral resources and reserves based on a longterm price of US\$110.24/t and US\$99.0/t, respectively, compared to the 3 and 5-years average P65 iron ore price of US\$148.6/t and US\$128.5/t¹
- → Technical Report mineral reserves exclude DRPF and nearby exploration potential
- → Sizeable resources offers opportunity beyond LoM, including debottlenecking Bloom Lake to produce beyond its 15 Mtpa expanded nameplate capacity

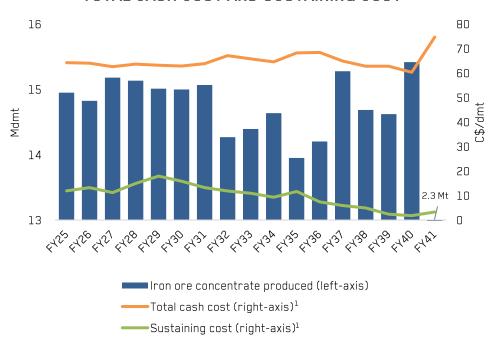
MINERAL RESOURCES (15% Fe Cut-Off Grade, Undiluted)						
Category	Tonnes (M dmt)	Fe (%)	CaO (%)	Sat (%)	MgO (%)	Al <sub>2</sub> O <sub>3</sub> (%)
Measured	186.7	30.4	1.3	5.5	1.3	0.3
Indicated	1,065.5	28.4	1.3	6.1	1.2	0.5
Total M+I	1,252.2	28.7	1.3	6.0	1.2	0.5
Inferred	246.3	26.6	1.4	6.4	1.2	0.5

MINERAL RESERVES (15% Fe Cut-Off Grade, Diluted)						
Category	Diluted Ore Tonnes (M dmt)	Fe (%)	CaO (%)	Sat (%)	MgO (%)	Al <sub>2</sub> O <sub>3</sub> (%)
Proven	183.7	30.0	1.3	5.6	1.3	0.3
Probable	532.5	28.1	2.1	9.2	2.0	0.5
Total P&P	716.2	28.6	1.9	8.3	1.8	0.4

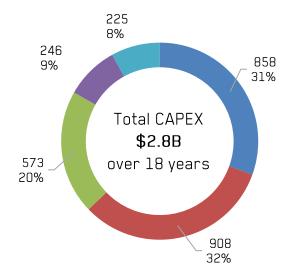


#### 2023 BLOOM LAKE TECHNICAL REPORT HIGHLIGHTS

# LOM PRODUCTION, TOTAL CASH COST AND SUSTAINING COST



# LOM CAPITAL EXPENDITURES (C\$M)



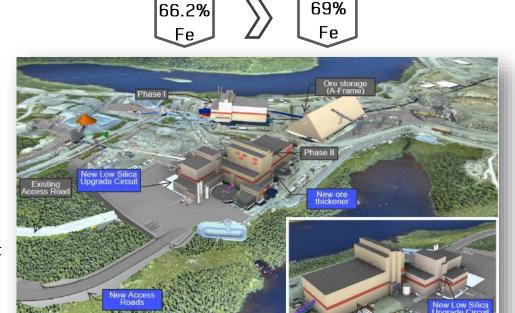
- Capitalized Stripping and Mining Activities
- ■Mining Equipment
- Tailings, Water Management and Waste Dumps
- ■Processing
- Closure, Compensation and Various Improvement Projects





#### POSITIVE IMPACT FOR ALL STAKEHOLDERS

- → Project to upgrade the Phase II plant (7.5 Mtpa) from 66.2% to a 69% Fe (industry leading DR quality iron ore)
- → Expected to attract significant additional pricing premium over the P65 index
- → One of the few iron ore deposits in the world capable of upgrading to DR quality
- → Project designed to be carbon neutral and not expected to create additional environmental impact
- → Construction phase of the Project expected to create approximately 150 jobs with 70 permanent quality jobs once completed

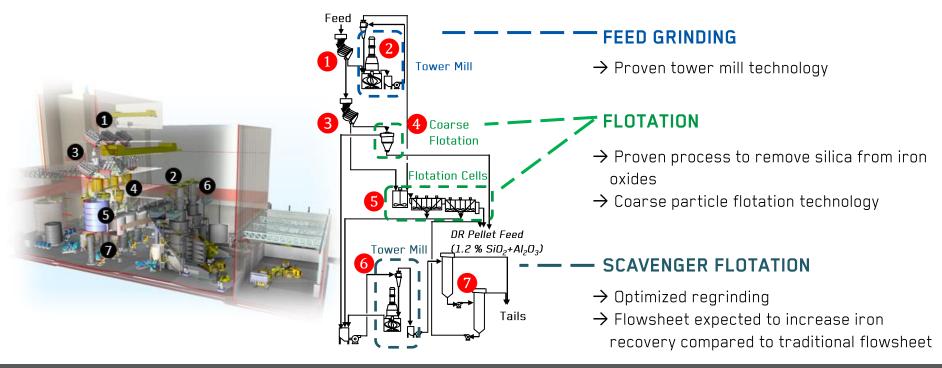


Opportunity for regional communities to benefit from the transformation to DRPF, while creating a positive impact globally by contributing to greener steelmaking

Source: Champion Iron Limited



PROJECT USING PROVEN AND OPTIMIZED TECHNOLOGIES



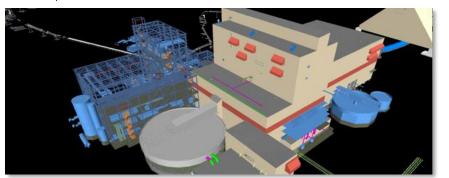
Significant research and development, combining local and global expertise, resulting in an efficient project expected to significantly reduce energy consumption



#### A TRANSFORMATIONAL PROJECT SUPPORTED BY ROBUST ECONOMICS

#### PROJECT MILESTONES

- → Positive findings of the study released in January 2023
- → Cumulative investment of \$59.9M as of December 31, 2023, from the \$62M initial budget approved by the Board
- → Project's final investment decision provided in January 2024 with commissioning expected in calendar H2/2025 subject to key construction milestones to be completed in mid-2024



#### **PROJECT ECONOMICS**

Valuation	C\$M	US\$M	
Net Present Value ("NPV")	Pre-tax NPV <sub>8%</sub> \$1230.1M After-tax NPV <sub>8%</sub> <b>\$738.2M</b>	Pre-tax NPV <sub>8%</sub> \$918.0M After-tax NPV <sub>8%</sub> <b>\$550.9M</b>	
Internal Rate of Return ("IRR")	Pre-tax IRR of 30.1% After-tax IRR of 24.0%		

CAPEX Pre-Production	C\$M	US\$M
Phase II circuit optimization	348.1	259.8
Electrical upgrade and port related infrastructure	46.4	34.6
Contingencies	76.2	56.9
TOTAL	470.7	351.3



# 5 LEVERS TO JUSTIFY PREMIUMS FOR DR PELLET FEED QUALITY IRON ORE



Premium pricing for DR quality iron ore over BF feed



Higher Fe content versus DR benchmark should attract additional premiums vs other DR quality iron ore



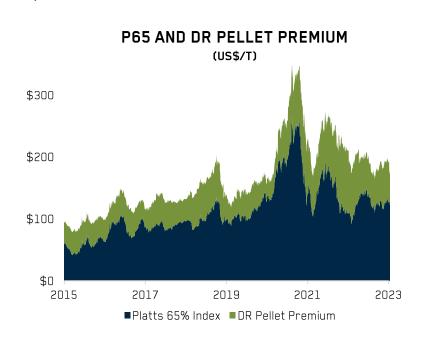
Lower gangue versus DR benchmark should attract additional premium vs other DR quality iron ore



Potential freight savings to service leading DRI/EAF hubs in EU and US

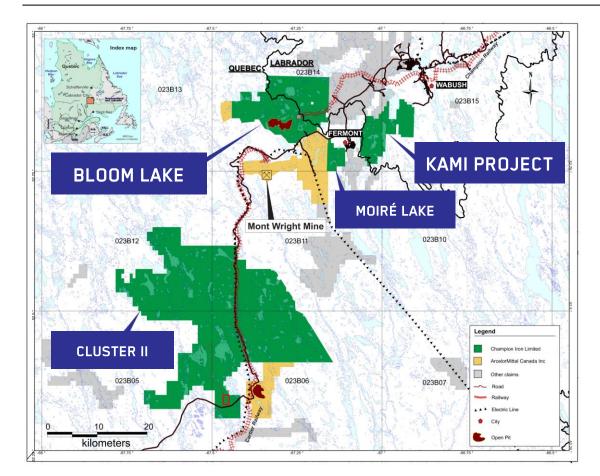


Potential carbon cost savings in steelmaking



Labrador Trough DRPF is expected to capture a significant portion of the DR pellet premium and attract additional premiums compared to other DR quality iron ore due to its higher quality specifications; this premium is expected to expand over time as the transition to EAF occurs





- → Sizeable high-purity iron resource, significantly de-risked by the Project's previous owners
- → Strategically located near available infrastructure only a few kilometers southeast of Bloom Lake in the province of Newfoundland and Labrador
- → Expected access to hydroelectric power
- Mining friendly jurisdiction with a long history of supporting iron ore operations
- → Benefits from permitting work completed by the previous owner





Completed a study evaluating the opportunity to construct a mining operation, including a concentrator, a tailings management facility and related infrastructure to produce DR grade pellet feed iron ore from the Kami mine



Project estimated to **produce 9.0M wmt per year of DR grade** pellet feed iron ore at above 67.5% Fe, with a 25-year life of mine



Project flowsheet to rely on proven technologies, including equipment currently installed at Bloom Lake



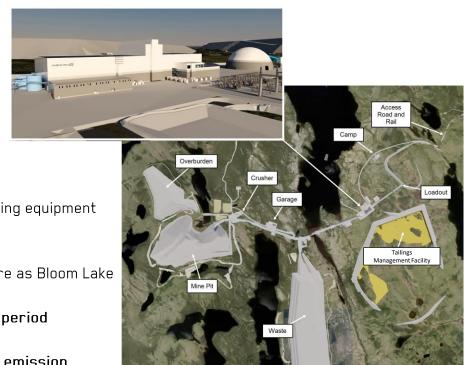
Potential to access the same rail and port infrastructure as Bloom Lake



Project is estimated to require a 48-month construction period



Project expected to hold an **industry leading position for emission intensity per tonne** of high purity iron ore concentrate produced





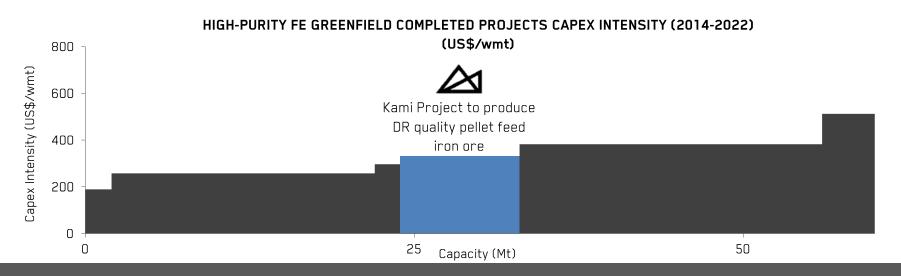
- → Positive findings of the study, resulting in after tax economics of:
  - Base case NPV of \$541M and IRR of 9.8%
  - 3-year trailing prices NPV of \$2,195M and IRR of 14.8%
- → Completion of the study enables the Company to consider the project in relation to its portfolio of organic growth projects while aiming to maintain a prudent balance sheet and avoid equity dilution
- → The Company expects to continue refining the Project, engage with stakeholders, including prospects to improve economics, advance permitting and work on strategic partnership opportunities prior to considering a final investment decision



PROJECT ECONOMICS	BASE SCENARIO		MARKET PRICE SCENARIO 3-Year trailing scenario <sup>3</sup>		
	C\$	US\$	C\$	US\$	
P65 Index price assumption <sup>1</sup>	156.0/t	120.0/t	197.9/t	152.2/t	
	PRE	-TAX			
NPV8% (\$M)	1,482M	1,140M	4,034M	3,103M	
IRR (%)	12.1%		18.0%		
	AFTER-TAX				
NPV8% (\$M)	541M	416M	2,195M	1,688M	
IRR (%)	9.8%		14.8%		

CAPEX AND OPEX	C\$	US\$
Initial Capex (M)	3,864	2,972
C1 Total Cash Cost per dmt <sup>2</sup>	76.1	58.5
Total All-in Sustaining Costs per dmt (AISC) <sup>2</sup>	89.5	68.9

- → Kami Project's expected capital intensity of US\$331/wmt of production capacity is competitive with recently completed high-grade concentrate greenfield projects' capital intensity average of US\$328/wmt¹
- → Recently completed project's capital intensity implies a replacement value for Bloom Lake of nearly US\$5B, equivalent to C\$12.3/share, without consideration for other assets in the Company's portfolio²

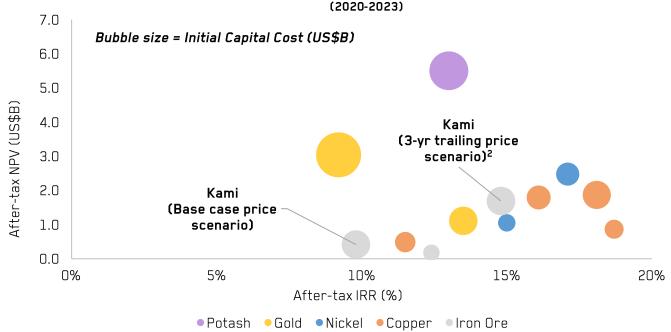


High-grade iron ore projects, critical for the green steel transition, require significant capital investments

# KAMI ECONOMICS BENCHMARKING



# BASE AND BULK, LONG-LIFE MINES IN TIER I JURISDICTION STUDY RESULTS<sup>1</sup>

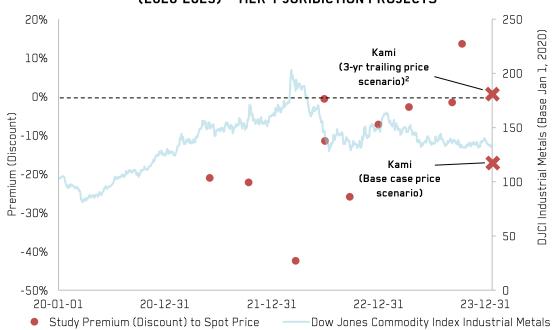


- → Inflationary pressures since 2020 resulted in lower IRRs outcomes for mining projects across the industry
- → IRR as a metric does not reflect opportunities created by long-life assets, including the potential to benefit from multiple economic cycles

Kami Study's 3-year trailing economic scenario competes favorably with recently completed study in the industry



# STUDY PRICE PREMIUM (DISCOUNT) TO SPOT PRICE AT TIME OF RELEASE (2020-2023) – TIER 1 JURIDICTION PROJECTS<sup>1</sup>



- → The Kami Project base case scenario, using US\$120/t for P65, represents a 19% discount to spot price<sup>3</sup>
- → The 3-year trailing price scenario represents a 2% premium over spot price<sup>3</sup>, which is closer to industry pricing dynamics used in recent industry studies
- → As the DJCI Industrial Metals index stabilized from 2021-2023, most studies converged to using prices closer to spot as a result of the trailing price effect (i.e. studies most often use trailing prices as base case scenarios)

Kami's base case economic scenario appears conservative when compared to the trend of study prices used over the last 3 years.

The 3-year trailing price scenario would be in line with recently published study price dynamics.





TSX: CIA | ASX: CIA | OTCQX: CIAFF



# **REGIONAL EXPLORATION**



CHAMPION IRON A

DE-RISKING ONE OF THE WORLD'S LARGEST HIGH-PURITY IRON ORE RESOURCE OPPORTUNITIES

- → One of the largest undeveloped hubs of high-purity iron ore resources globally
- → \$9.3M in exploration and evaluation expenditures in FY23, including over 2,200 meters drilled
- → Repurchased most royalties on regional resources in recent years

# Champion Iron Limited (Quiese) ArcelorMittal Canada inc Other Consolidated Fire Lake North Lamêlée North Quinto Claims Fire Lake Mine (ArcelorMittal Canada Inc)

**CLUSTER II** 

Source: Champion Iron Limited





CHAMPION IS EVALUATING THE OPPORTUNITY FOR ADDITIONAL PRODUCT TRANSFORMATION TO INCREASE ITS PARTICIPATION IN THE GREEN STEEL SUPPLY CHAIN

### **DIRECT REDUCTION PELLETS**



STUDY STAGE

Study to produce DR pellets at the Pointe-Noire pellet plant

## **COLD BONDED PELLETS**



**SEMI-INDUSTRIAL PROTOTYPE** 

Collaborating with BSL to de-risk a promising cold pelletizing technology

## POINTE-NOIRE PELLET PLANT



#### ADVANCING A STUDY WITH A MAJOR INTERNATIONAL STEELMAKER



Opportunity to leverage the DR quality iron ore from the DRPF project and produce DR pellets



Direct access to port and Champion's existing loadout



Potential to reconnect to renewable power and water access



High end metallization and metallurgical properties

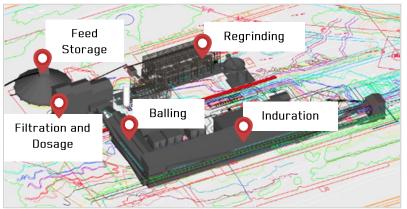


Champion's ore is proven to be able to produce a **high** strength pellet



High tumble index with lower degradation during handling





Source: Champion Iron Limited

# POINTE-NOIRE PELLET PLANT



## STUDY COMPLETION EXPECTED IN THE NEAR-TERM



The project study is expected in the near-term with significant required investments and it represents another growth opportunity in keeping with Champion's prudent capital management approach

Source: Champion Iron Limited

# **CLOSING REMARKS**



TSX: CIA | ASX: CIA | OTCQX: CIAFF



## A GLOBAL SOLUTION FOR THE GREEN STEELMAKING TRANSITION

Champion Iron is strategically positioned to deliver the critical materials required to decarbonize steelmaking



**Efficient** 

Ramp-up

Debottleneck





**DRPF** 

Kami

Pellet Plant

**Cold Pelletizing** 

Cluster II

Exploration

**Evaluation** 

Research





# THANK YOU!



TSX: CIA | ASX: CIA | OTCQX: CIAFF



**国际国际组织制度是以内部和图片的制度等处理美术型内的由于发展的形成设计** 

# Contact us for more information

David Cataford, CEO Michael Marcotte, Senior Vice-President Corporate Development and Capital Markets

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## **APPENDIX 1**



#### NOTES ON HISTORICAL ESTIMATES USED IN THE PRESENTATION

- 1. The historical Moiré Lake resource estimates are based on the NI 43-101 technical report entitled "Technical Report and Mineral Resource Estimate on the Moire Lake Property" by PSE Mining Consultants Inc. dated May 11, 2012 and having an effective date of March 28, 2012. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with NI 43-101 and the JORC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources", "mineral reserves" or "ore reserves", as such terms are defined in NI 43-101 and the JORC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral resources, mineral reserves or ore reserves. These reserves and resources are not material mining projects and are for properties adjacent to or near the Company's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 2. The historical Lac Lamêlée resource estimates are based on the NI 43-101 technical report entitled "NI 43-10 Technical Report and Mineral Resource Estimate on the Lac Lamêlée South Resources Quebec Canada" by Met-Chem, a division of DRA Americas Inc. dated July 28, 2017 and having an effective date of January 26, 2017. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with NI 43-101 and the JORC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources", "mineral reserves" or "ore reserves", as such terms are defined in NI 43-101 and the JORC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral resources, mineral reserves or ore reserves in accordance with NI 43-101 or the JORC Code (2012 edition). Champion Iron Limited is not treating the historical estimates as current mineral resources, mineral reserves or ore reserves and resources are not material mining projects and are for properties adjacent to or near Champion Iron Limited's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 3. The historical Consolidated Fire Lake resource estimates are based on the National Instrument 43-101 technical report entitled "Preliminary Feasibility Study of the West and East Pit Deposits of the Fire Lake North Project" by BBA Inc., P&E Mining Consultants Inc. and Rail Cantech Inc. dated February 22, 2013 and having an effective date of January 25, 2013. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with Ni 43-101 and the JORC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources", "mineral reserves" or "ore reserves", as such terms are defined in Ni 43-101 and the JORC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral reserves or ore reserves in accordance with Ni 43-101 or the JORC Code (2012 edition). Champion Iron Limited is not treating the historical estimates as current mineral resources, mineral reserves and resources are not material mining projects and are for properties adjacent to or near Champion Iron Limited's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 4. The historical Quinto Claims resource estimates are based on the National Instrument 43-101 technical reports entitled "Mineral Resource Technical Report, Quebec" (as regards Lamêlée) and "Mineral Resource Technical Report, Hobdad Project, Quebec" (as regards Hobdad), each by G H Wahl & Associates Consulting dated February 15, 2013 and having an effective date of December 31, 2012. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with NI 43-101 and the JORC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources," "mineral reserves" or "ore reserves", as such terms are defined in NI 43-101 and the JORC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral resources, mineral reserves or ore reserves in accordance with NI 43-101 or the JORC Code (2012 edition). Champion Iron Limited is not treating the historical estimates as current mineral resources, mineral reserves or ore reserves. These reserves and resources are not material mining projects and are for properties adjacent to or near Champion Iron Limited's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 5. The historical Harvey Tuttle resource estimates are based on the National Instrument 43-101 technical report entitled "Technical Report and Resource Estimate on the Harvey-Tuttle Property Québec, Canada" by PSE Mining Consultants Inc. dated April 13, 2011 and having an effective date of February 25, 2011. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with NI 43-101 and the JORC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources," "mineral reserves" or "ore reserves", as such terms are defined in NI 43-101 and the JORC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral resources, mineral reserves or ore reserves in accordance with NI 43-101 or the JORC Code (2012 edition). Champion Iron Limited is not treating the historical estimates as current mineral resources, mineral resources or ore reserves. These reserves and resources are not material mining projects and are for properties adjacent to or near Champion Iron Limited's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 6. The historical Penguin Lake resource estimates are based on the National Instrument 43-101 technical report entitled "43-101 Technical Report and Mineral Resource Estimate on the Penguin Lake Project" by MRB & Associates dated February 3, 2014 and having an effective date of May 1, 2013. The historical mineral resources mentioned are strictly historical in nature, are non-compliant with NI 43-101 and the JURC Code (2012 edition) and should therefore not be relied upon. A qualified person or competent person has not done sufficient work to upgrade or classify the historical estimates as current "mineral resources," imineral reserves" or "ore reserves", as such terms are defined in NI 43-101 and the JURC Code (2012 edition), and it is uncertain whether, following evaluation and/or further exploration work, the historical estimates will be able to be reported as mineral resources, mineral reserves or or reserves. These reserves and resources are not material mining projects and are for properties adjacent to or near Champion Iron Limited's existing mining tenements and therefore the reports on these mineralisations have not been prepared in accordance with the JORC Code (2012 edition) and the ASX Listing Rules.
- 7. Certain resources mentioned are foreign estimates from an Australian perspective.



#### CHAMPION IRON LIMITED MINERAL RESOURCES AND MINERAL RESERVES

	CHAMPION IRON LIMITED - MIN	NERAL RESOURCE	S (MILLION D	RY METRIC TO	INNES)					
PROPERTY	GROUP	MEASURED			INDICATED		MEAS + IND		ERRED	SOURCE
		Mt	Fe%	Mt	Fe%	Mt	Fe%	Mt	Fe%	SUURCE
										Bloom Lake measured, indicated and inferred resources are based on the 2023 Technical Report
Bloom Lake	Bloom Lake	187	30.4	1 066	28.4	1 252	28.7	246	26.6	"Mineral Resources and Mineral Reserves for the Bloom Lake Mine", with effective date as at April
										Lst, 2023.
Consolidated Fire Lake North*	Fire Lake North (West Area)	24	35.4	405	32.6	429	32.7	329	30.9	distorical estimates. See note 3.
	Fire Lake North (East Area)	3	34.2	262	29.6	265	29.6	192	28.7	
	Fire Lake North (Subtotal)	27	35.2	667	31.4	694	31.5	522	30.1	
	Bellechasse	-	-	-	-	-	-	215	28.7	
	Dil can	-	-	-	-	-	-	967	33.2	
	Tota	27	35.2	667	31.4	694	31.5	1 704	31.7	
Moiré Lake*	Moiré Lake	-	-	164	30.5	164	30.5	417	29.4	Historical estimates. See note 1.
Quinto Claims*	Peppler Lake	-	-	327	28.0	327	28.0	216	27.5	Historical estimates. See note 4.
	_amêlée North	-	-	272	29.4	272	29.4	653	30.5	
	Hobdad	-	-	-	-	-	-	508	27.4	
	Tota	-		599	28.6	599	28.6	1 377	28.9	
Lamêlée South*	Lamêlée South	-	-	75	31.6	75	31.6	229	30.5	Historical estimates. See note 2.
Harvey Tuttle*	Harvey Tuttle	-	-	-	=	-	-	947	23.2	Historical estimates. See note 5.
Kami	Rose North	82	31.0	339	29.9	420	30.1	90	29.9	Kami measured, indicated and inferred resources are based on the 2024 Pre-Feasibility Study "Pre-feasibility Study for the Kamistiatusset (Kami) Iron Ore Property", with effective date as at December 22nd, 2023.
	Rose Central	94	29.3	364	28.9	457	29.0	60	28.0	
	Mills Lake	37	30.5	61	30.3	98	30.4	13	29.6	
	Tota	212	30.2	763	29.5	975	29.6	163	29.2	
Penguin Lake*	Penguin Lake (45% CIA interest)	-	-	-	-	-	-	239	33.1	Joint Venture with Cartier Iron Corporation. Champion has 45% interest in the mining claims, therefore 45% of the total resources are listed. Historical estimates. See note 6.
•	Grand total	426	30.6	3 333	29.5	3 759	29.6	5 322	29.0	Partially historical estimates. See notes 1 through 7.

	CHAMPION IRON LIMITED - MIN	IERAL RESERVES	(MILLION DR'						
PROPERTY	GROUP	PROVEN		PROBABLE			Р&Р	SOURCE	
		Mt	Fe%	Mt	Fe%	Mt	Fe%		
Bloom Lake	Bloom Lake	184	30.0	533	28.1	716 2	20.6	Bloom Lake proven and probable reserves are based on the 2023 Technical Report "Mineral Resources and Mineral	
							20.0	Reserves for the Bloom Lake Mine", with effective date as at April 1st, 2023.	
Consolidated Fire Lake North*	Fire Lake North (West Pit)	21	36.2	268	33.4	289	33.6	6	
	Fire Lake North (East Pit)	3	34.2	173	30.2	176	30.3	Historical estimates. See note 3.	
	Fire Lake North (Subtotal)	24	36.0	441	32.2	465	32.4		
Kami	Rose deposits (Single Pit)	167	29.7	476	29.0	643	29.2	Kami proven and probable reserves are based on the 2024 Pre-Feasibility Study "Pre-feasibility Study for the	
				4/6			29.2	Kamistiatusset (Kami) Iron Ore Property", with effective date as at December 22nd, 2023.	
	Grand total	374	30.2	1 449	29.6	1 824	29.8	Partially historical estimates. See note 3.	

<sup>\*</sup> The historical mineral resources and reserves are historical estimates and should not be relied upon. A qualified person has not done sufficient work to upgrade or classify the historical estimates as current mineral resources or mineral reserves and Champion Iron is not treating the historical estimates as current mineral resources or mineral reserves

<sup>\*\*</sup> Certain reserves and resources mentioned are foreign estimates from an Australian perspective.

## **APPENDIX 3**



#### NOTES ON MINERAL RESOURCES AND MINERAL RESERVES FOR THE BLOOM LAKE MINE

#### Mineral Resources

1. Mineral resources are not mineral reserves and have not demonstrated economic viability under the assumptions contained in the 2023 Technical Report. All figures have been rounded to reflect the relative accuracy of the estimates.

2.The resource estimate is reported undiluted at a cut-off grade of 15% iron.

3.The 2023 resource shell is based on a long-term P65 iron price of US\$110.24/dmt, a premium of US\$2.04/dmt for the 66.2% Fe concentrate and an exchange rate of 1.27. It was made using Geovia Whittle (software version 4.7.2).

4.The qualified person ("QP") for the mineral resource estimate, as defined by NI 43-101, is Erik Ronald, P. Geo., of SRK. The effective date of the estimate is April 1, 2023.

5.The geological interpretations for the Bloom Lake deposit were based on lithological logging, analyses from drill core, grade control data, geological maps, historical models, and ground magnetic surveys. The geology and controls on the mineralization are considered well understood.

6.The mineralized iron formation units in the lithology model include iron formation, silica iron formation, and limonite. The iron formation model further differentiates the iron formation units into operational quality categories of low (under 0.6%,), moderate and elevated (over 16%) CaO + MaO values.

7.All 3D digital geological modelling was performed using Leapfrog Geo<sup>™</sup> software. In the QP's opinion, the geological model is appropriate for the size, grade distribution, and geometry of the mineralized zones and is suitable for mineral resource estimation of the Bloom Lake project.

8.The mineral resource model is based on 6.0 m composite intervals within the iron formation. Grade capping was reviewed but deemed unnecessary and was not applied. Ordinary kriging (OK) was used for the estimation of CaO, Fe, MgO, and SAT. Al203 was estimated into the block model using inverse distance weighting to a power of three (ID3) estimation.

9.Mineral Resources were classified into measured, indicated, and inferred mineral resources categories based on the geological understanding of mineralization and structure on the property, the quality of the underlying drilling data, history of mining production and reconciliation, mineralization and grade continuity, and drillhole spacing.

10.The QP is satisfied that the mineral resources were estimated following CIM Estimation of Mineral Resource and Mineral Reserves Best Practices Guidelines (November 2019). The mineral resources may be affected by further infill and exploration drilling that may result in increases or decreases in subsequent mineral resource estimates. The mineral resources may also be affected by subsequent assessments of mining, environmental, processing, permitting, taxation, socio-economic, and other factors.

#### Mineral Reserves

1. The mineral reserves were estimated using the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Standards for Mineral Resources and Reserves, Definitions and Guidelines prepared by the CIM Standing Committee on Reserve Definitions and adopted by the CIM Council on May 10, 2014.

2.The QP for the mineral reserve estimate, as defined by NI 43-101, is Olivier Hamel, P. Eng., of Quebec Iron Ore Inc. ("Q10"), a subsidiary of the Company. The effective date of the estimate is April 1, 2023.

3.In the ultimate pit design, all measured resources and associated dilution/ore loss were converted to proven mineral reserves. All indicated resources and associated dilution/ore loss were converted into probable mineral reserves.

4.Stockpiles are excluded from reserve calculations due to their small size (<1 Mt).

5.Bulk density of ore is variable but averages 3.39 t/m3 (pre-dilution).

6.Remaining strip ratio is 0.96:1 (including overburden).

7.Mining dilution was calculated using a 2-m contact skin.

8.The average mining dilution is 1.73% at a grade of 0% Fe. Dilution was applied block by block and shows a wide range of local variability.

 $9. The average ore loss is 1.91\% \ at a grade of 29\% \ Fe. \ Ore loss was applied block by block and shows a wide range of local variability.$ 

10.Mineral reserves are based on a mining surface projected to April 1, 2023. The last survey was done in Q3 2022.

11. Mineral reserves are estimated at a cut-off grade of 15% Fe (diluted), which has historically been used. Current cost/revenue model allows to calculate a break-even cut-off grade and the result of 14.1% Fe supports the current practices.

12.Mineral reserves are estimated using a long-term iron ore reference price (Platt's 65%) of USD99/dmt and an exchange rate of 1.27 CAD/USD. A price adjustment to 66.2% of USD1.83/dmt was added.

13.Reserve open pit optimization was conducted using Geovia Whittle (software version 4.7.2) to determine the optimal economic shape of the open pit to guide the pit design process.

14.SAT stands for SATMAGAN, an industry standard device that measures the magnetic content by weight of a sample. This value is assumed to be the magnetite content by weight.

15.The author is not aware of any known environmental, permitting, legal, title-related, taxation, socio-political or marketing issues, or any other relevant issues not reported in the 2023 Technical Report, that could materially affect the mineral reserve estimate.

16.Numbers may not add up due to rounding.

## **APPENDIX 4**



#### NOTES ON MINERAL RESOURCES AND MINERAL RESERVES FOR THE KAMI PROJECT

#### Mineral Resources

- 1. The Mineral Resource estimate described above has been prepared in accordance with the CIM Standards (Canadian Institute of Mining, Metallurgy and Petroleum, 2014) and follows the Best Practices Guidelines outlined by the CIM (2019).
- 2.The qualified person for this Mineral Resource Estimate is Christian Beaulieu, P.Geo., consultant for G Mining Services Inc. Mr. Beaulieu is a member of the Professional Engineers and Geoscientists of Newfoundland & Labrador (#10653) and of l'Ordre des géologues du Québec (#1072).
- 3. The effective date of the Mineral Resource Estimate is November 15, 2022.
- 4. The cut-off grade used to report Open Pit Mineral Resources is 15.0% total iron (TFe).
- 5.Density is applied by rock type and is related to the amount of iron in each block.
- 6.Pit optimization parameters are described as follows:
  - I. I. Based on a P65 index iron price of US\$115/dmt
  - II. Concentrate grade of 65.2% Fe
  - III. Exchange rate of 1.30 C\$:US\$
  - IV. Metallurgical recoveries of 83.55%
  - Mining costs of US\$2.11/t mined
  - VI. Total ore based costs of US\$5.33/dmt
  - VII. Overall slope angle varies from 48.4° to 51.6° for the footwall and hanging wall domains respectively.
- 7.Measured, indicated and inferred mineral resources have been defined mainly based on drill hole spacing.
- 8.Mineral resources (Rose Central, Rose North and Mills Lake combined) have a stripping ratio of 2.0:1 (W:0).
- 9.The tonnages and grades outlined above are reported inside a block model with parent block size of 10 m x 20 m x 10 m, and subblocks of 5 m x 10 m x 5 m.
- 10. Tonnages have been expressed in the metric system and metal content as percentages. Totals may not add up due to rounding.
- 11.Mineral resources are not mineral reserves as they have not demonstrated economic viability. The quantity and grade of reported inferred mineral resources are uncertain in nature.
- 12. The qualified person is not aware of any factors or issues that materially affect the mineral resource estimate other than normal risks faced by mining projects in the province in terms of environmental, permitting, taxation, socio-economic, marketing, political factors and additional risk factors regarding indicated and inferred resources.
- 13.See the appendix to the Company's quarterly activities report filed on January 31, 2024, on the ASX at www.asx.com.au on January 31, 2024, for additional information regarding Joint Ore Reserves Committee ("JORC").

#### Mineral Reserves

- 1. The qualified person for this Mineral Reserve Estimate is Alexandre Dorval, mining engineer at G Mining Services Inc. Mr. Dorval is a member of the Professional Engineers and Geoscientists of Newfoundland & Labrador (#11042), of the Professional Engineers of Ontario (#100214598) and of l'Ordre des Ingénieurs du Québec (#5027189).
- 2.Mineral Reserves based on an updated Lidar dated September 2011.
- 3.Mineral Reserves are estimated using a long-term iron price reference price (Platt's 62%) of US\$ 80/dmt and an exchange rate of 1.30 C\$/US\$. An Fe concentrate price adjustment of US\$ 20/dmt was added as an iron grade premium.
- 4.The effective date of the Mineral Reserve Estimate is November 15, 2022.
- 5.Bulk density of ore is variable but averages 3.1 t/m3.
- 6.Cut-Off Grade of 15% TotFe used to calculate reserves.
- 7. The average stripping ratio is 1.6:1 W:0.
- 8.The Mineral Reserve includes a 1.4% mining dilution.
- 9.The number of metric tonnes was rounded to the nearest thousand. Any discrepancies in the totals are due to rounding; with rounding following the recommendations detailed in National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101").
- 10.See the appendix to the Company's quarterly activities report filed on January 31, 2024, on the ASX at www.asx.com.au on January 31, 2024, for additional information regarding Joint Ore Reserves Committee ("JORC").