

# Low-Carbon Nickel. Made in Canada.

Q2 2024

fpxnickel.com

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#### **TECHNICAL INFORMATION**

All technical information in this presentation was prepared under the supervision of FPX Nickel's SVP, Projects & Operations, Andrew Osterloh, P.Eng., a qualified person consistent with Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43 101")



#### BAPTISTE PROJECT

## Low-Carbon Nickel. Made in Canada.

Low Projected Costs	High-Value, Strategic Nickel Product	Value Drive
<ul> <li>Potential for low operating costs (US\$3.70/lb Ni)</li> <li>Low capital intensity compared to recent global nickel mines</li> </ul>	<ul> <li>High-grade nickel product (60% Ni) with low impurities</li> <li>Suited for direct feed to stainless steel and/or for EV battery market</li> </ul>	<ul> <li>Potential for low operating costs (US\$3.70/ lb Ni)</li> <li>Low-carbon nickel production (2.4 t CO<sub>2</sub>/t Ni)</li> </ul>
The Green Choice for Nickel	Excellent Location	<ul> <li>Nickel and cobalt production for the EV battery market</li> </ul>
<ul> <li>Targeting lowest carbon intensity in global nickel industry</li> <li>No significant acid-generating host rock</li> <li>Potential to lower carbon footprint based on CO<sub>2</sub> sequestration in tailings</li> </ul>	<ul> <li>Located 80 km west of Mt. Milligan mine (first production 2013) in Central B.C.</li> <li>Collaborative local relationships</li> <li>Close proximity to green hydro power and rail</li> <li>Aligned with Canada's critical</li> </ul>	
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rivers

Nickel

### WHY NICKEL? Nickel Demand Set For Exponential Growth

ELECTRIC VEHICLES TO DRIVE SIGNIFICANT DEMAND GROWTH FOR DECADES TO COME



### **3.7x Demand Growth**

Glencore foresees 3.7x growth in nickel demand by 2050 as compared to 2019 levels

#### Needs significant metals supply growth

Forecast commodity demand under a rapid Transition 1.5C pathway

#### Growth rates required:





#### DECAR NICKEL DISTRICT

### Unique Opportunity to Develop a Fully Integrated Nickel Operation

#### STRATEGIC PRODUCT

- High-value, clean Ni product bypasses smelters to achieve high payability
- Direct integration into both the stainless steel and EV battery markets
- Low-carbon footprint

#### STRATEGIC LOCATION

#### Multiple transport options to customers in Asia and North America:

- Accessible Site With Existing Infrastructure
  - Road accessible
  - Rail alignment within 5 km of site
- Sea Transport
  - Established deep water ports at Prince Rupert and Vancouver

- Rail Network
  - Multiple rail routes and service providers to easily connect throughout the entirety of North America
  - Existing rail network to multiple deep water ports





### DECAR NICKEL DISTRICT. Potential for Multiple Large-Scale Nickel Deposits

#### **Baptiste Deposit**

Status	PFS Completed September 2023
Indicated Resource	1,815 Mt at 0.129% DTR Ni, 0.211% Total Ni
Inferred Resource	339 Mt at 0.131% DTR Ni, 0.212% Total Ni
Concentrate	60% Ni, 30% Fe, 1% Co
Mine Life	29 years
Drilled meterage	33,695

#### Van Target

Status	Inaugural Drill Programs (2021 and 2022)
Average Grade	~35% of surface samples in Van Target area grading over 0.12% DTR Ni
Dimensions	~2.5km <sup>2</sup> based on 54 bedrock samples
Drilled meterage	5,200





### BAPTISTE DEPOSIT 2022 Mineral Resource Estimate

- 2022 mineral resource model incorporates the results of step-out drilling completed in 2017 in the Southeast Zone and 2021 in-fill drilling
- Significantly improves Baptiste mine plan by incorporating near-surface higher-grade tonnage in starter pit, crystallizes 6% increase in DTR Ni grade vs. 2020 PEA estimate



\* Davis Tube Recoverable Nickel"; 0.06% cutoff

2022 mineral resource estimate prepared by Richard Flynn, P.Geo of NMC using ordinary kriging within grade shell domains and inverse distance squared in dike domains.. See FPX news release, November 14, 2022.

Mineral resources are not mineral reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the mineral resources will be converted into mineral reserves. The estimate of mineral resources may be materially affected by environmental permitting, legal, title, taxation, sociopolitical, marketing or other relevant issues.

		Grade				Contained Metal			
Category	Tonnes (Mt)	DTR Ni (%)	Total Ni (%)	DTR Co (%)	DTR Fe (%)	DTR Ni (kt)	Total Ni (kt)	DTR Co (kt)	DTR Fe (Mt)
Indicated	1,815	0.129	0.211	0.0035	2.40	2,435	3,828	64.4	43.5
Inferred	339	0.131	0.212	0.0037	2.55	444	720	12.5	8.6



### VAN TARGET Major New Nickel Discovery

- 2021 Maiden Drill Program, 2022 Step-Out Program
- Van Target measures ~2.5 km<sup>2</sup> based on 54 bedrock surface samples
- Van Target located 6 km north of Baptiste
- Baptiste Target was ~2 km<sup>2</sup> prior to initial drilling in 2010

### 2021 and 2022 Drilling Results

Results confirm that strong mineralization in previously reported outcrop samples continues to depth, with higher-grade nickel near surface

#### 21VAN-001:

 101 m at 0.150% DTR nickel (0.207% total nickel), starting at an approximate vertical depth of 27 m, among the 8 highest grading, near surface intervals in the history of Decar

#### 22VAN-016:

 427 m at 0.127% DTR nickel (0.204% total nickel), starting at an approximate vertical depth of 9 m





# What is Awaruite Nickel?

Not a Sulphide, Not a Laterite

### Serpentinized Ultramafic Host Rock

- Present in host rock at placement: Ni & Co
- <u>Not</u> present at placement: Sulphur
- Very homogenous Total Ni grade
- Serpentinization mobilized Ni, Co, & Fe

### Α

### What's Different About Awaruite?

- More physical characteristics to utilize in mineral processing = easier to recover
- Higher characteristic resolution vs. background gangue

bsence of Sulphur	Nickel Sulphide Mineralization (Pentlandite)	Awaruite Nickel Mineralization	
minerals would have formed	Nickel content	25%	76%
Without sulphur, <b>awaruite</b> (Ni <sub>3</sub> Fe) formed	Ferromagnetic		×
	Conventional flotation response	•	•
	Density (specific gravity)	4.6 - 5.8	8.2





### DECAR NICKEL DISTRICT Mineralization Advantages

#### Style of Nickel Mineralization

Key Attributes & Value Drivers	<b>Nickel Sulphide</b> HIGH-GRADE (e.g., Western Australia)	Nickel Sulphide LOW-GRADE (e.g., Canada)	Awaruite FPX NICKEL
<b>Long Mine Life</b> Greater Than 15 years		~	<b>V</b>
<b>Large volume of production</b> Greater than 20,000 tonnes Ni per year		×	<b>V</b>
<b>Low-cost mining</b> Near-surface, large deposits		×	<b>V</b>
<b>High nickel recoveries</b> Greater than 50% of total nickel	×		<b>V</b>
<b>gh-grade, clean nickel concentrate</b> Ni content great than 60%			<b>V</b>
<b>Direct feed to EV market</b> No smelting or HPAL required			<b>V</b>
<b>High payability for nickel product</b> y greater than 90% LME nickel price			×
<b>Low-carbon nickel production</b> 5 tonnes CO <sub>2</sub> per tonne Ni produced		×	<b>V</b>



#### Baptiste Nickel Project

# Simple Process, High Recoveries

#### **Robust Metallurgical Program**

- Multiple bench-and pilot-scale programs with leading labs & met team
- Demonstrated 4% increase in DTR Ni recovery
  - > 88.7% for PFS (vs. 84.7% from PEA)

#### **Conventional Process**

- SAG-mill grinding
- Magnetic separation sequentially rejects a total of 95% of fresh plant feed
- Flotation then separates magnetite and awaruite to produce a 60% Ni concentrate

#### **New Flotation Tails Leach Circuit**

- Mild, atmospheric leach
- Simple purification to a high-Ni MHP product
- Accounts for 7% of total Ni production





#### Baptiste Nickel Project

# Strategic Flexibility

Premium Nickel Product Suitable for Stainless Steel and EV Battery Material Supply Chains









FPX Nickel

#### ALIGNED WITH CANADA'S CRITICAL MINERALS STRATEGY

# FPX Receives Critical Minerals Funding from Government of Canada

- Grant received at PDAC in March 2023 to accelerate demonstration of nickel sulphate production for the EV battery supply chain
- Non-dilutive and non-repayable funding of \$725K marks one of the first instances of direct funding for mining under Canada's critical minerals strategy
- Funding will be used for the pilot-scale demonstration of nickel sulphate and cobalt production for the EV market
- Demonstrates that FPX's Baptiste Nickel Project is aligned with Canada's critical minerals strategy
- Sets the stage for potential additional funding opportunities from the government of Canada



Jonathan Wilkinson (Canada's Minister of Natural Resources) and Martin Turenne (FPX Nickel's CEO) at PDAC 2023



### Q1 2024 – MAJOR NEW STRATEGIC INVESTMENT \$14.4M Strategic Equity Investment from Major Nickel Producer Sumitomo Metal Mining

- Sumitomo Metal Mining (US\$9B market cap) is an integrated producer covering mineral resource development, mining, smelting and refining to the production of battery materials in Japan & internationally
- SMM's business strategy of partnering with high-quality operators is evidenced by its portfolio of JV assets with Tier 1 partners including Teck Resources, Freeport-McMoRan and Lundin Mining
- SMM has advanced expertise in producing nickel products for the stainless steel and electric vehicle battery markets and aims to increase its annual nickel production from 82kt currently to 150kt in the long-term
- Investment in FPX represents significant technical validation of Baptiste and underscores FPX's critical role as a partner of choice to allied industrial partners in Japan and internationally
- Sumitomo granted a right on negotiation of future nickel offtake agreement with FPX for a cumulative total of up to 60,000 tonnes of nickel, representing ~3.5% of Baptiste's estimated LOM nickel production



### SUMITOMO METAL MINING



### Q2 2023 – MAJOR STRATEGIC INVESTMENT

# **\$16M Strategic Equity Investment from Major Global Stainless Steel Producer Outokumpu**

- Outokumpu (US\$3.5 billion market cap) is a highly-regarded global operator, with a robust track record producing the world's most sustainable stainless steel, and one of the world's largest single consumers of nickel
- FPX is Outokumpu's preferred partner for sustainable nickel, testifying to Baptiste's potential to produce a premium nickel product that can bypass the smelting stage
- Significant technical validation of Baptiste and underscores FPX's critical role as a supplier of choice to allied industrial partners in Europe and the United States
- Outokumpu granted a right of first offer on negotiation of future nickel offtake agreement with FPX for a cumulative total of up to 60,000 tonnes of nickel, representing ~3.5% of Baptiste's estimated LOM nickel production

# OUTOKUMPU high performance stainless steel





### GLOBAL EXPLORATION ALLIANCE JOGMEC Partnership Validates FPX's Approach

Global Exploration Alliance with JOGMEC formed in April 2023, focused on the discovery of new awaruite nickel deposits on a worldwide basis

- JOGMEC is a highly regarded international exploration group, conducting global exploration activities on behalf of the Japanese government
- JOGMEC will solely fund exploration activities for the next two years (until March 2025)
- FPX will manage exploration activities and will earn an operator fee
- Global Exploration Alliance will leverage the extensive global database developed by FPX during the 2010-14 period, when FPX performed reconnaissance exploration activities for awaruite nickel targets in over a dozen countries worldwide
- JOGMEC partnership represents a significant endorsement of the technical and economic viability of awaruite nickel deposits





#### STRATEGIC COLLABORATION FOR EV BATTERY SUPPLY CHAIN

# Battery Supply Chain Agreement with Toyota/Panasonic Joint Venture (PPES) & JOGMEC



- FPX, PPES and JOGMEC will work collaboratively to share technical information and to explore strategic arrangements and business structures
- Potential binding agreements among the parties would provide FPX with additional funding to advance the Baptiste Project
- First North American collaboration agreement signed by PPES, one of Japan's leading EV battery companies formed between Toyota and Panasonic







# BAPTISTE PROJECT 2023 PFS

Confirms Baptiste as One Of The World's Most Robust Largescale Nickel Projects

### Results

\$2.01 Billion

After-tax NPV(8% discount rate)

**3.7 Years** Payback period (after-tax)

\$3.70/lb. Nickel C1 operating costs<sup>1</sup>

### Assumptions

29 Years Mine Life

# 132 Million Ibs.

Life-of-mine average annual nickel production

\$8.75/Ib. (0.76 US\$/C\$)

Nickel price (exchange rate)

1. C1 operating costs are the costs of mining, milling and concentrating, on-site administration and general expenses, metal product treatment charges, and freight and marketing costs less the net value of by-product credits, if any. These are expressed on the basis of per unit nickel content of the sold product. 2. AISC of all-in sustaining costs comprise the sum of C1 costs, sustaining capital, royalties and closure expenses. These are expressed on the basis of per unit nickel content of the sold product. 3. Nickel price based on the average of six long-term analyst forecast prices.



#### Baptiste Nickel Project

### **PFS Base Case Economics**



**PX** Nicke

SX-V:FPX

Note: Above CI Operating Costs exclusive of any byproduct credits

# BAPTISTE PROJECT

- Baptiste's enormous scale and low C1 operating costs of US\$3.70/lb, has the potential to deliver robust operating margins throughout the nickel price cycle, generating average earnings of an after-tax NPV<sub>8</sub> of US\$2.0 billion.<sup>II</sup>
- The Baptiste project represents a significant opportunity for First Nations, the governments of British Columbia and Canada, and FPX to work together to develop a project that creates substantial and sustainable benefits while protecting the environment for future generations.

#### Capital Costs (US\$, millions)

Category	Initial	Expansion	Sustaining
Mining	325	68	643
Processing	845	409	421
Infrastructure	233	34	-
Total Direct Costs	1,403	511	1,064
Indirect Costs	507	149	20
Contingency	272	103	97
Total Capital Costs	\$2,182	\$763	\$1,181

#### **Operating Costs** (US\$/t milled)

	Phase 1	Phase 2	Total
	Years 1-9	Years 10-29	LOM
Mining	2.59	3.31	3.14
Processing	3.75	3.59	3.63
G&A	1.23	1.05	1.09
Concentrate Transport	0.31	0.29	0.29
Total	\$7.88	\$8.24	\$8.15
Cl Operating Cost (US\$ /lb Ni)	\$3.48	\$3.76	\$3.70

**1.** C1 operating costs are the costs of mining, milling and concentrating, on-site administration and general expenses, metal product treatment charges, and freight and marketing costs. No byproduct credits are included in the above figures. These are expressed on the basis of per unit nickel content of the sold product.



### BAPTISTE PROJECT Low Initial Capital Intensity

Compared to other recent large nickel mine construction



US\$ pre-production capital cost per tonne initial annual Ni production

\$48,000 **BAPTISTE** CANADA 2023 PES estimate US\$2.2 Billion \$53,000 **BARO ALTO BRAZIL** 2011 US\$1.7 Billion \$56,000 **RAMU** PAPA NEW GUINEA 2012 US\$1.8 Billion \$60,000 ONCA PUMA BRAZIL 2011 US\$3.2 Billion \$73,000 **GORO** NEW CALEDONIA 2010 US\$6 Billion \$79,000 **RAVENTHORPE** AUSTRALIA 2011 US\$3 Billion \$83,000 KONIAMBO NEW CALEDONIA 2013 US5.5Billion \$92,000 **AMBATOVY** MADAGASCAR 2013 US\$5.57 Billion



### BAPTISTE PROJECT The Green Choice For Nickel



Source: 1 FPX analysis based on September 2020 PEA; 2 "Life Cycle Assessment of Nickel Products" (Mistry et al., 2016); 3 "Assessing the Energy and Greenhouse Gas Footprints of Nickel Laterite Processing" (Norgate et al., 2010); 4 "Ferronickel Life Cycle Data" (Nickel Institute, 2020), 5 "Energy Consumption and Greenhouse Gas Emissions of Nickel Products" (Wei et al.,



#### Baptiste Nickel Project

# **The Green Choice For Nickel**

#### Lowest Decile Carbon Intensity

- FPX calculations indicated a 2.4 tCO2/t Ni carbon intensity on a Scope 1 & 2 basis
- BC's hydro-powered grid carries very low carbon intensity
- PFS includes electrified pit
- Post-PFS trade-off study will evaluate haulage decarbonization



#### • Class 1 Nickel figures from Mistry et al, 2016

• Baptiste Nickel figures based on FPX internal calculation considering PFS configuration

#### **Other Environmental Strengths**

- Product quality suitable for direct feed to stainless steel
  - Totally eliminates any need for intermediate smelting
- Low mine strip ratio
- Mine waste integrated into tailings facility
- Geochemistry of waste rock and tailings materials (very low potential for acid rock drainage)
- PFS footprint reduced by 33% (vs. PEA)
- Utilize existing FSR network as foundation for an all-season access road
- PFS water modelling indicates a zero-discharge basis (only modest quantity of fresh water required for potable and make-up purposes)
- PEA's impact to Lower Baptiste and Nickel Lakes minimized through inclusion of buffer zones



### BAPTISTE PROJECT TIMELINE

### **Advancing Two Deposits from Exploration to Development**





# **Overview of Global Nickel Projects**

BAPTISTE STANDS OUT AS A LARGE, LOW COST, LONG MINE LIFE NICKEL ASSET





# **Overview of Global Nickel Projects**

DECAR'S BAPTISTE PROJECT RANKS HIGHLY AMONG GLOBAL NICKEL PROJECTS

### Ratio of Mine Life to Payback (After-Tax)

for Selected Nickel Projects

29-year mine life, 3.7-year payback 7.8





## **Price to Asset Value Comparisons**

### **P/NPV for Nickel Project Developers**





# **Share Structure & Financial Position**

**Capital Structure** TSX-V: FPX | OTCOB: FPOCF 52-week Range: C\$ 0.25 -C\$ 0.61 Shares Outstanding: 314.9 M (basic) ; 335.0 M (diluted) Market Capitalization (basic): C\$110 million Cash and working capital: ~C\$43 million No debt, No warrants | Funded for 2024 & 2025 Management 14% Corporate Strategic Investor Institutional / 9.95% Retail Share 38% Outokumpu **Ownership** 9.9% Sumitomo Metal Mining 9.9% High-Net Worth 18% **ETF Inclusion Analyst Coverage** PARADIGM Sprott ETFS 

# FPX (TSX-V): 2020-2024 Price Chart (C\$/share)





# **Executive Team**

### Martin Turenne

#### President, CEO & Director

- Chartered Professional Accountant (CPA, CA) with 20+ years' experience in the commodities industry.
- Board member, Elemental Altus Royalties Corp.

#### Andrew Osterloh SVP, Projects and Operations

- 20+ years' experience in process engineering, plant metallurgy and project management
- Former Project Director and Head of Studies for Fluor Canada leading study work for large projects

### Tim Bekhuys

#### SVP, Sustainability and External Relations

- 40+ years experience in community engagement, environmental assessment and permitting
- Responsible for environmental assessment and permitting for Mt. Milligan & Blackwater mines in BC

#### **Felicia de la Paz** Chief Financial Officer & Corporate Secretary

- Former Corporate Controller, Equinox Gold
- Previously Senior Manager in mining practice at KPMG LLP Vancouver

# **Board of Directors**

### Peter Bradshaw (CHAIR)

- 45+ years' experience in exploration, member Canadian Mining Hall of Fame
- Led the discovery of Deca

### **Peter Marshall**

- 30+ years' experience in mine development and construction as mining engineer
- Notable project completions include: Blackwater feasibility study (New Gold) & development of Mt. Milligan Cu-Au mine

### Anne Currie

- 30+ years in permitting & environment assessments as Senior Partner (ERM) & B.C.'s Chief Gold Commissioner
- Steered the environmental assessment and permitting processes for KSM, Brucejack, Kemess Underground, and Blackwater projects in BC

### **Jim Gilbert**

 MBA with 30+ years experience in international M/A and finance including senior positions with Rothschild, Gerald Metals and Minera S.A. Former Director, AQM Copper Inc.

### **Kim Baird**

- Former Chief of Tsawwassen First Nation, distinguished expert in Indigenous policy, governance and economic development
- Member of both the Order of Canada and the Order of British Columbia, and former board member with BC Hydro

### **Rob Pease**

- 30+ years' experience as a geologist in exploration, mine development and construction
- Former CEO of Terrane Metals (Mt. Milligan copper gold mine, central B.C.)
- Former director, Richfield Ventures Corp (Blackwater gold project, central B.C.)



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