# EMPEROR METALS

# ADVANCING CANADA'S NEXT

HIGH-GRADE GOLD DEPOSIT

> CSE: AUOZ OTCQB: EMAUF FRA: 9NH

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#### **QUALIFIED PERSON, GOVERNANCE AND RISKS**

John Florek, M.SC., P.GEOL. & Michael Dufresne, M.Sc., P.Geol., P.Geol., P.Geol., serve as Qualified Persons, as defined by National Instrument NI 43-101, responsible for reviewing and approving the technical content of all materials publicly disclosed by Emperor Metals Inc., including the contents of this presentation.

# **ABOUT EMPEROR METALS**





**CSE: AUOZ OTCOB: EMAUF** FRA: 9NH

- HISTORICAL INFERRED MINERAL RESOURCE ESTIMATE: 727,000 ounces of gold at a grade of 5.42 g/t and an average thickness of 5.71 meters in 4.171 million tonnes\*
- **TIER 1 JURISDICTION:** Flagship Duguesne West Gold Project located in the heart of Rouyn-Noranda
- **OPEN PIT MINE POTENTIAL:** new open pit model shows multi million Oz + Au potential on top of the existing high-grade underground Au resource showing opportunity for multiple production scenarios
- **MAIDEN 2023 DRILL RESULTS:** 
  - o 10.8 m of 15.8 g/t Au
- o 25 m of 1.69 g/t Au o 13.2 m of 3.8 g/t Au
- o 15.7 m of .8 g/t Au o 7.2 m of 2.8 g/t Au

- 11.7 m of 5.63 g/t Au

- 10.65 m of 3.97 g/t Au
- o 3.65 m of 6.25 g/t Au
- FULLY FUNDED DRILL PROGRAM: set to begin Q2 2024, will focus on the new open pit model
- STRATEGIC INVESTOR, ROB MCEWEN: Recent C\$1M investment, now owning 8%
- **OPTION TO EARN 100% OWNERSHIP OF THE PROJECT**
- AI MACHINE LEARNING: used to create the first 3D and geological models created in record time
- **OBJECTIVE:** Reduce the stripping ratio within the new open pit model and continue to grow the resource externally and internally to known resources. Update the historic resource to a new 43-101 Mineral Resource Estimate by Q1, 2025. Move the project towards a PEA or more advanced study.

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# **MANAGEMENT AND DIRECTORS**



Management & Advisory of over 20 Public Mining Companies with extensive experience in the Public Mining Sector & Capital Markets

Principals, Directors and Advisors own 13% of Emperor and have raised >\$1Billion for projects throughout exploration, development & production and returns to shareholders

Management awards include TSX Venture 50<sup>™</sup>, 2008 Developer of the year for the NW Ontario Prospectors Association

Management affiliations include BHP, Placer Dome, Barrick, Teck, Kirkland Lake & Agnico Eagle, Thesis Gold and Founders Metals

Successful track record for growing resource deposits, selling them to major and mid-tier mining companies and taking mines into production

#### JOHN FLOREK M.SC., P.GEOL. President, CEO, and Director

+30 years of technical and senior management experience working for major and junior mining companies, including roles as Founder, VP, and Director. He has helped identify and develop significant asset value for mines and exploration projects from grass roots through to development. John has worked for several majors including, BHP, Placer Dome, Barrick, Teck, and Detour Gold/Kirkland Lake Gold/Agnico Eagle

#### ALEX HORSLEY Corporate Development and Director

+18 years experience in the mining sector and capital markets with a focus on finance, marketing, management, corporate development, and communications. Extensive network of Investment Bankers, Mining Analysts, Investment Advisors, High-net worth investors and Mining Professionals. Founder and former CEO of Emperor Metals. Assisted in Raising >\$30 M CAD for exploration and development mining companies

#### JOHN WILLIAMSON P.GEOL. Independent Director and Chairman

+35 years experience in the mining sector, chairman and founder of more than 20 successful companies in Canada and around the globe. Founder of Metals Group and Founder of Thesis Gold – TAU.V and Founder of Founders Metals – FDR.V

#### SEAN MAGER B.COMM. CFO and Director

+30 years mining sector, extensive corporate development, stakeholder relations, regulatory, financial, operating expertise and current CFO of Thesis Gold – TAU.V. Co-Founder of Metals Group

#### IAN HARRIS B.SC. ENG. – Mining Engineer Independent Director

+25 years experience in the global mining sector, accomplished senior mining executive leading mining projects from open-pit and underground development to processing operations. Previously VP and Country Manager for Corriente which was taken over for \$690 million USD. Ian is the current COO of Thesis Gold – TAU.V and CEO of Libero Copper – LBC.V

# **CAPITAL STRUCTURE**

As of April 2024

#### **SNAPSHOT**

Shares Outstanding	100,606,324
Working Capital Est.	\$3.6 M CAD
Warrants	* <b>3</b> 1,340,633
Options	* 8,725,000
Fully Diluted	140,671,957

\* Avg Warrant price .23 cents and 1.7-years remaining life \* Avg Option price .14 cents and 2.8-years remaining life





- Management
- Rob McEwen
- High Net Worth
- Retail
- Property Vendor



# **12 MONTH AUOZ:CSE STOCK CHART**



As of April 23rd, 2024



# **DUQUESNE WEST GOLD PROJECT**





### RICH HISTORY OF PROLIFIC MINING

- The Abitibi Region is one of the world's most prolific gold producing districts with ~200 million ounces of gold produced to date<sup>1</sup>
- The Porcupine-Destor fault zone (PDFZ) transects the property
- Total historical gold production from the many high-grade gold deposits along the east-west trending PDFZ exceeds 110 million ounces<sup>1</sup>

TOP TIER MINING JURISDICTION

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- Located in the Noranda Mining Camp surrounded by 50 historical and active mines
- Mining-friendly, low-risk and safe location
- Located near highway, power, mills, and a skilled local work force
- Government-maintained road access to the property
- Low-cost green energy solutions (Hydro-electric)
- Local Mills under capacity or sitting idle, potential toll agreements or M&A opportunities in the future



<sup>1</sup> Resident Geology Reports and Other Public Sources. Ontario Geological Survey Open File Report 6384 Report of Activities, 2021 Resident Geologist Program

### **TIER 1 DISTRICT – Abitibi Greenstone Belt** HISTORIC PROLIFIC AND PRODUCTIVE MINING



### TIER 1 DISTRICT – Abitibi Greenstone Belt INFRASTRUCTURE



### DISTRICT OWNERSHIP NEIGHBORHOOD DEPOSITS



### AI MACHINE LEARNING AT THE DUQUESNE WEST GOLD PROJECT



#### **Advantages of Al**

- Increased Efficiency: Al automates data analysis, expediting exploration workflows and optimizing resource allocation
- Improved Accuracy and Precision: Machine learning minimizes human bias, ensuring accurate identification of mineralization patterns and structural controls
- Enhanced Resource Estimation: AI and machine learning handle large datasets, enabling efficient and accurate resource calculations

#### **Emperor Metals use of A.I. to date**

- Successfully implemented AI and machine learning for the Duquense West Gold Project
- First 3D Model: AI and machine learning created a comprehensive 3D model of the deposit, improving visualization and project communication
- Geological Model and Drill Target Definition: Al algorithms interpreted data, generating a precise geological model and assisted in identifying highpriority drill targets



### **EXAMPLE OF POTENTIAL STOPE GRADE AND THICKNESS**



GRADE (Au, g/t)	STOPE THICKNESS (m)		
22.043	5.40		
16.255	11.11		
15.860	11.38		
15.669	11.37		
15.399	14.68		
14.249	14.75		
13.991	16.81		
13.701	19.41		
12.854	15.76		
10.850	15.80		
7.381	17.13		
6.661	17.85		
5.256	20.80		

### **CRITERIA USED**

- Minable Shape Optimizer (MSO) used Gold Cutoff of 3 g/t Au and Gold Cap of 30 g/t Au
- Minimum dimensions 2.5 m (width) x 8 m (length) x 4 m (height)
- We used ID3 (Inverse Distance Cubed) for estimation in the AI modeled grade shells



# **NEW TARGETS FROM AI MODELLING**



### Preliminary Model - Grade x Thickness (Looking North) – Long Section



# **2023 DRILLING HIGHLIGHTS**



# Maiden 2023 drilling completed November 2023, for a total of 8,579m

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t Au)	Resource Expansion Target	
DQ23-01	661.8	663.85	4.15	2.77	Underground expansion	
DQ23-01	531.3	543	11.7	5.63	Underground expansion	
DQ23-02	540.25	550.9	10.65	3.97	Underground expansion	
DQ23-02	677.1	679.6	2.5	2.69	Underground expansion	
DQ23-02	814	839	25	1.69	Underground bulk tonnage	
DQ23-02	909.35	913	3.65	6.25	Underground expansion	
DQ23-03	941.2	943.2	2	6.14	Underground expansion	
DQ23-04	318.5	336	17.5	0.45	Open pit expansion	
DQ23-04	433.7	436.45	2.75	6.23	Underground expansion	
DQ23-04	449	452	3	4.24	Underground expansion	
DQ23-05	556	566.8	10.8	15.85	Underground expansion	
DQ23-05	133	135.5	2.5	5.01	Open pit expansion	
DQ23-05	257.2	281.6	24.4	0.5	Open pit expansion	
DQ23-05	391.9	395	3.1	2	Open pit expansion	
DQ23-07	54	69.7	15.7	0.8	Open pit expansion	
DQ23-07	228.2	235.3	7.2	2.8	Open pit expansion	
DQ23-09	26	39.2	13.2	3.8	Open pit expansion	
DQ23-10	108.75	120.5	11.75	0.61	Open pit expansion	

### OPEN PIT CONCEPT SHOWING BOTH PHASE 1 AND ULTIMATE PIT SCENARIO



Due to multiple zones of mineralization of both high-grade and lower grade bulk tonnage we have focused our remaining drilling towards the open pit concept that has been envisioned over the 2023 summer drilling program.

Future Drilling will focus on primarily the open pit mine with the intention of proving up 2-3 + million ounces within it. Potential for open pit mine production and underground mine production after open pit is exhausted by building a ramp.





### **OPEN PIT CONCEPT** HISTORICAL DRILLHOLES (DDH) IN OPEN PIT



It is estimated that up around 70% of historical drill core from surface to 500 meters is unsampled/assayed because they overlooked the open pit potential. We plan to send historic core for assays





Historical Drillholes (DDH) in Open Pit, showing lack of sufficient sampling for proper resource characterization

Unassayed Quartz-Feldspar-Porphyry (QFP) in Open Pit environment CSE AUOZ 17

### LONG SECTION OF DQ-23-05 INTERCEPT 10.8 m of 15.8 g/t Au



### Long Section of DQ23-05 Intercept (Looking North) **Potential Stopes** W Е **DDH Pierce Points** DQ23-05 117 m to nearest DDH 556.0 to 566.8 (10.8 m @ 15.8 g/t Au) **Blue Sky Potential** (No DDH pierce points)

Figure showing DQ23-05 intercept-expanding ounces +100 meters along plunge of deposit

This intercept adds ounces & stopes along this trend

Exciting 2024 follow up drilling on this target!

# AI GEOLOGICAL MODEL





CSE AUOZ 19

- First Ever Geological Model on Property (Al Developed)
- Illuminates' competency contrast for previously unrecognized additional mineralized zones/ targets
- Enlightens the controls to mineralization, with better targeting
- Helps in the understanding to resource expansion
- Image shows the AI GEOLOGICAL MODEL and drill hole DQ 23-05 highlighting 10.8 m of 15.8 g/t Au incl. 3.4 m of 27.2 g/t Au
- Gold mineralization within many rock types showing widespread gold mineralization and potential for significant resource expansion

# **DQ23-02 DRILL HOLE INTERCEPT**





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### PHASE I ASSAYS AND CORE SUMMER 2023 DRILLING – DQ23-01 & DQ23-05





Representation of mineralized & altered core from DQ23-01 (11.7 m of 5.63 g/t Au) core depth of 531.3 m (1

Representation of mineralized & altered core from DQ23-05 (10.8 m of 15.8 g/t Au (includes 3.4 m of 27.24 g/t Au)) – core depth of 563 m

### PHASE I ASSAYS AND CORE SUMMER 2023 DRILLING – DQ23-02





Representation of mineralized and altered core from DQ23-02 (10.65 m of 3.97g/t Au (includes 5.0 m of 5.34 g/t Au))- core depth of 540.25 m



Representation of mineralized and altered porphyry core from **DQ23-02 (25.0 m of 1.69 g/t Au)**; bottom of hole ended in mineralization and this zone is subsequently being extended by additional drilling. – core depth of 814 m

# **2023 DRILLING PROGRAM**



Arrows indicate where the resource body is still open

Open Pit with Stopes Looking North



# **GEOPHYSICS 2023**

- ✓ A 424 line-km aeromagnetic geophysical survey comprising of 14.5 km2 was completed at the Duquesne West Gold Project in February 2024.
- The survey enhances Emperor's exploration strategy by refining geological models and targeting capabilities for gold deposition.
- Used to assist the company in expanding the footprint of known mineralization and defining near surface targets ahead of the 2024 drill program.

#### SURVEY HIGHLIGHTS

- Enhanced Aeromagnetic Resolution: Achieved with 50 meter and 25 m line spacing providing new and improved detail.
- Advanced Geological Understanding: Advances Emperor's understanding of the structural framework and lithological controls crucial to mineralization
- **Revealed Greenstone Belt Architecture**: Illustrates the underlying architecture of the greenstone belt; pinpointing areas to favorable ore environments.
- **Discovery of Unknown Structural Features**: Reveals unknown structural features not identified by past explorers, offering new exploration targets.





## **COMPANY COMPARABLE ANALYSIS**





PROJECT	Duquesne West	Douay	Marban	Perron	Fenn-Gib	Novador
LOCATION	Rouyn-Noranda	Val-d'Or	Val-d'Or	Rouyn-Noranda	Val-d'Or	Timmins
	Quebec	Quebec	Quebec	Quebec	Quebec	Ontario
STAGE	Advanced	Advanced	Advanced	Advanced	Advanced	Advanced
	Exploration	Exploration	Exploration	Exploration	Exploration	Exploration

### **OPTION AGREEMENT TO EARN** 100% INTEREST DUQUESNE WEST GOLD PROJECT



Year	Due Date	Cash	Shares	Work Commitment	Work Commitment Date
0	* <del>Agreement</del> <del>Signing</del>	* <del>\$500,000</del>	* <del>1,500,000</del>	* <del>\$250,000</del>	* <del>Oct 1, 2023</del>
1	*Anniversary Date	* <del>\$500,000</del>	* <del>1,500,000</del>	* <del>\$750,000</del>	* <del>Oct 1, 2024</del>
2	Jan 20 <sup>th</sup> , 2025	\$500,000	1,500,000	* <del>\$1,250,000</del>	Oct 1, 2025
3	Anniversary Date	\$1,000,000	3,000,000	\$2,000,000	Oct 1, 2026
4	Anniversary Date	\$2,500,000	3,500,000	\$3,250,000	Oct 1, 2027
5	Anniversary Date	\$5,000,000	4,000,000	\$4,500,000	Oct 1, 2028
Total		\$10,000,000	15,000,000	\$12,000,000	

3.00% GMR with buydown to 2.00% for \$1M CAD or pro rata; Globex covers existing 1% NSR, and a first right of refusal should Globex decide to sell the remaining 2% GMR.

The deemed value of each share payment is determined using a deemed price of \$0.20 per share. If the VWAP of Emperor shares for the 20 trading days prior to an anniversary date is below \$0.20, the number of shares to be paid will be determined by dividing the deemed value of the payment by the actual 20-day VWAP.

# **OPTION AGREEMENT COST/OUNCE - CAD**







- Proven management team with a track record of growing gold deposits and
- Proven management team with a track record of growing gold deposits an successfully selling them to major gold-producing mining companies.
- Exploring in a prime mining jurisdiction, surrounded by 50 active and historical mines.
- ✓ The flagship Duquesne West Gold Project presents the opportunity to build gold resources in multiple production scenarios. High-grade gold - historical inferred Mineral Resource Estimate (MRE) of 727,000 ounces of gold at a grade of 5.42 g/t and an average thickness of 5.71 meters in 4.171 million tonnes\*
- The compilation of 2023 data resulted in the creation of our first AI 3D Geological and Open Pit Models, revealing even greater potential for resource expansion. This success led to a highly effective maiden drilling program that exceeded expectations in both grade and thickness, adding ounces to our existing resource.
- ✓ Fully funded for a 5,000 m drilling program in Q2 2024, focusing primarily on reducing the stripping ratio and continuing to build ounces within the open pit model.
- ✓ \$15 M CAD market cap, recent strategic investment of C\$1M by Rob McEwen









