

GOODMAN GOLD CHALLENGE

DÉFI D'OR GOODMAN









Forward Looking Statement

According to applicable securities laws, some of the material presented in this presentation contains "forward-looking information," such as "future-oriented financial information" and "financial outlook" (collectively referred to herein as forward-looking statements). Except for statements of historical fact, information contained herein constitutes forward-looking statements and includes, but is not limited to, the (i) projected financial performance of the Company; (ii) completion of, and the use of proceeds from, the sale of the shares being offered hereunder; (iii) the expected development of the Company's business, projects and joint ventures; (iv) execution of the Company's vision and growth strategy, including with respect to future M&A activity and global growth; (v) sources and availability of third-party financing for the Company's projects; (vi) completion of the Company's projects that are currently underway, in development or otherwise under consideration; (vi) renewal of the Company's current customer, supplier and other material agreements; and (vii) future liquidity, working capital, and capital requirements. Forward-looking statements are provided to give potential investors the chance to understand management's beliefs and opinions about the future so they can use those beliefs and opinions as one consideration in assessing an investment, forward-looking statements are offered.

These assertions are not promises of future performance; therefore, you shouldn't rely on them too much. The estimates of future performance or results indicated or inferred by such forward-looking statements may differ considerably from actual performance and financial results in future periods because of known and unknown risks and uncertainties. There can be no guarantee that the forward-looking statements in this presentation will prove to be accurate. This is because actual outcomes and future events may differ materially from what is projected in the forward-looking statements, even though management of the company believes that these assumptions are reasonable. Except as required by relevant securities laws, the Company disclaims any duty to update any forward-looking statements if events or management's estimates or opinions should change. The reader is cautioned not to place undue reliance on forward-looking statements.

Meet the team



Agenda

Introduction

Investment Alternatives

The Pitch

* Analysis

Conclusion



Introduction



INVESTMENT CRITERIA

Operations:

Management Expertise	Deposit Quality and Quantity	Cost Structure
Previous Experience	Measured Deposit	CAPEX / OPEX
Diverse Knowledge	Type of Metal	Predictability
Ability to Adapt		

Introduction

Comparison

Pitch

Analysi





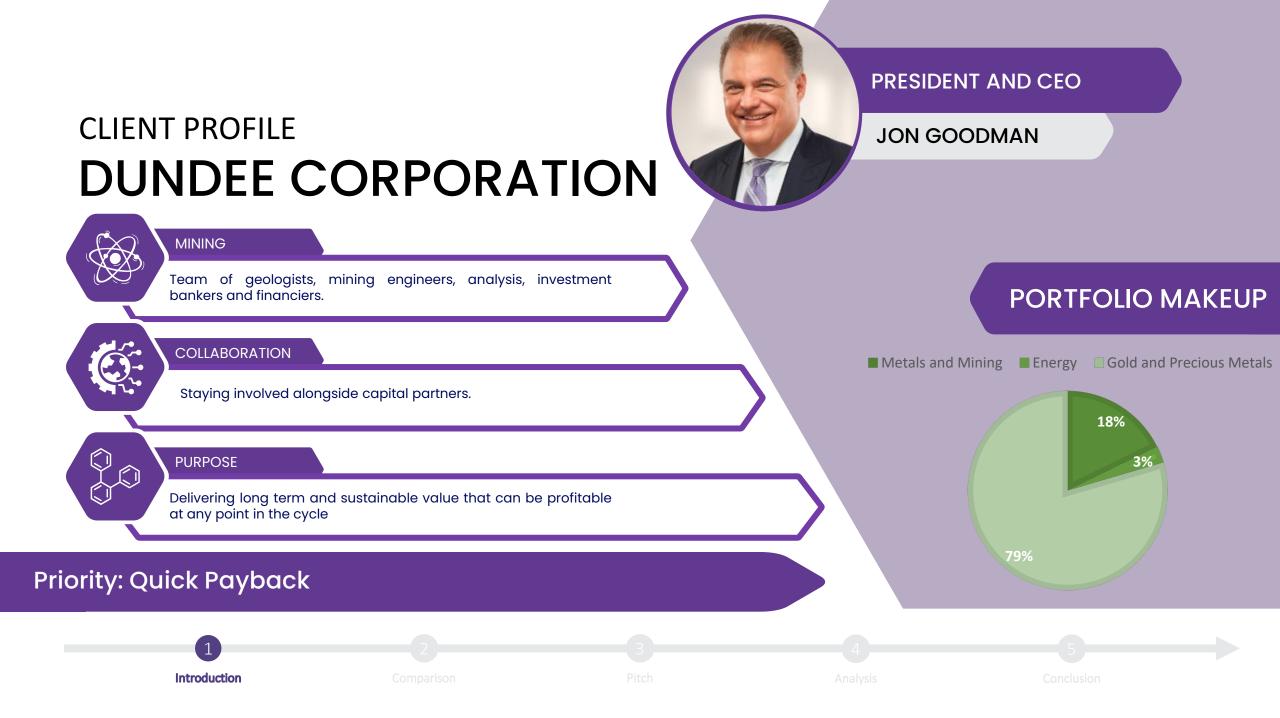
INVESTMENT CRITERIA

Return:

Investment Horizon	Valuation Upside	IRR Flagship Asset
Production start date	Upside	IRR over 20%
Payback period	Sensitivity	







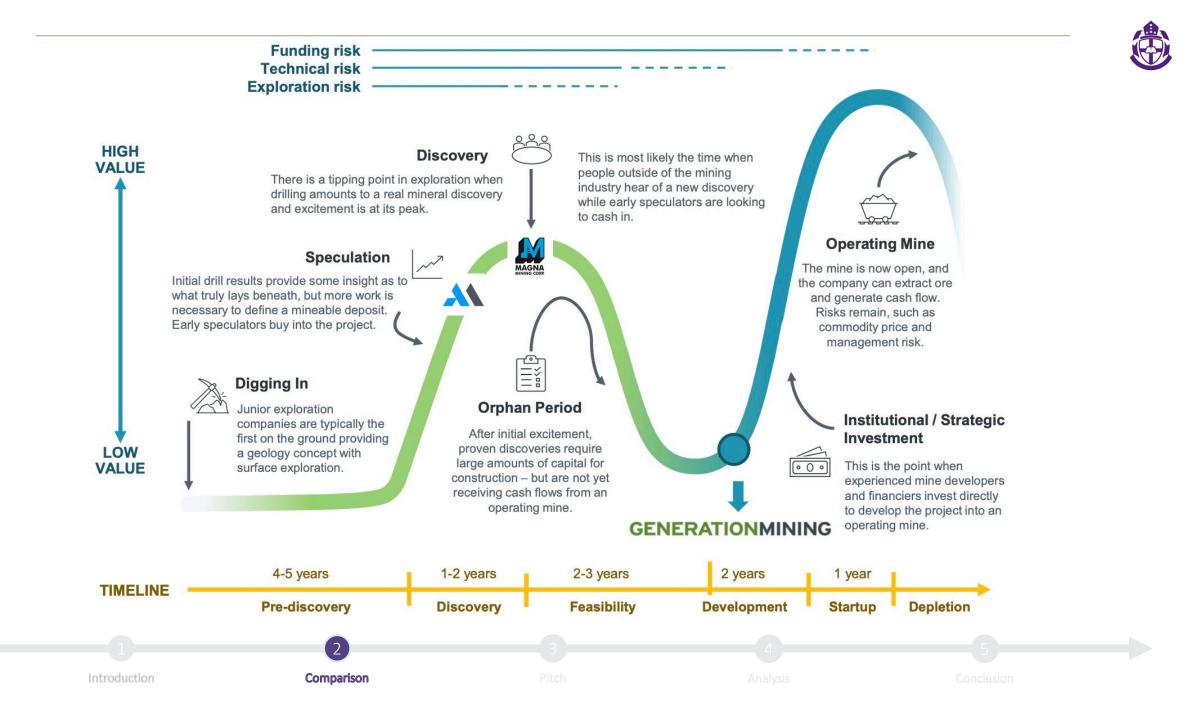


Investment Alternatives

INVESTMENT ALTERNATIVES









Metal Comparison

		Palladium	Lithium	Nickel	Copper
Use		Catalytic Converters	Batteries	Stainless steel and batteries	Electrical and Industrial
\$ Main Suppliers		South Africa and Russia	Australia	Indonesia	Chile
Main Importers		China	China	China	China
Geopolitical Risk. 1 representing low, 5 being high		$\bullet \bullet \bullet \bullet \bullet$	••••		$\bullet \bullet \bullet \bullet \bullet$
Introduction	2 Comparison				



INVESTMENT UNIVERSE







RECOMMENDATION GENERATION MINING





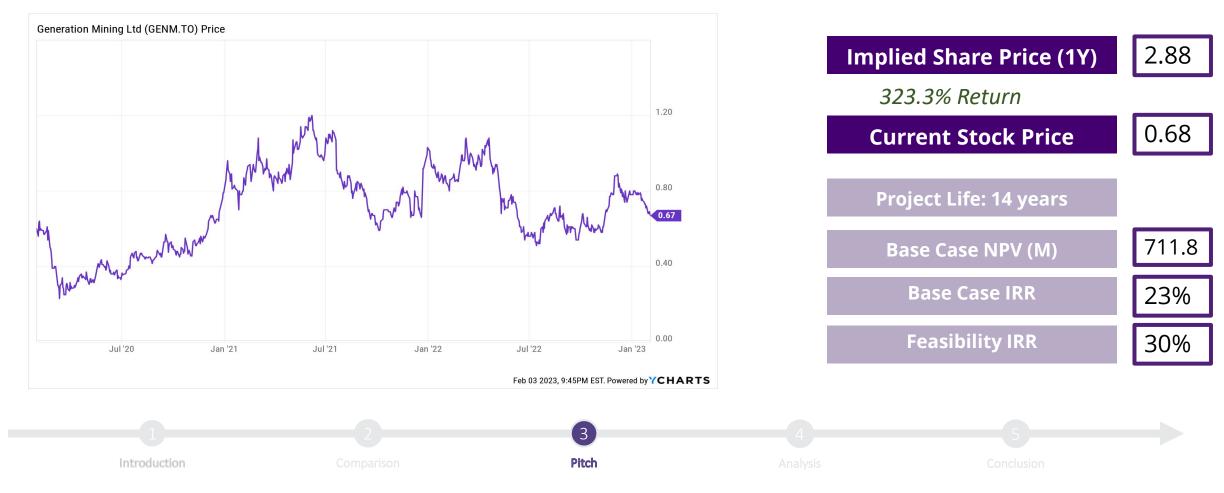


Proposed Investment

Embracing Progress: Moving from Palladium to Copper



Investors have been overlooking Generations high value Palladium, Platinum, and platinum deposits. Generation will help provide cleaner emissions to traditional vehicles and provide necessary copper to the renewable energy transition.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE

Industry Standar	d	(Generation Mining	
4.65 tons CO2			1.5 tons CO2	
Enough Copper for 275,000 electric cars	Evaluating mining		Carbon free e source	
High efficiency equipment	Carbon Ca construction		Water treat plant	
1 2 croduction Comparison	3 Pitch			

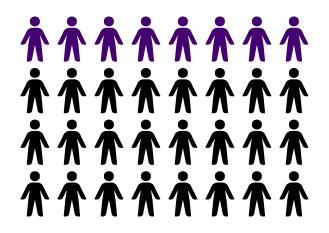


ENVIRONMENTAL, SOCIAL AND GOVERNANCE

Pitch

Commitment

25% project workforce from within Biigtigong Nishnaabeg



Strengthen Canada's position as global leader in responsible and sustainable production of critical metals.

Legally binding conditions 269

ways to address adverse effects on Indigenous people, health and socio-economic conditions of people and wildlife

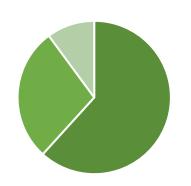
Employees during construction period 450-500

*375 permanent

Introduction

PROJECT

High-Level Production Profile



■ Palladium ■ Copper ■ Platinum

	Marathon	Competitor (CleanAir Metals)
Total Tonnage (M&I)	244,874	8,460
Strip Ratio	2.81	9.00
Copper Grade	0.21	0.25
Palladium Grade	0.62	0.98

All-In-Sustaining-Costs US\$809 per ounce PdEq

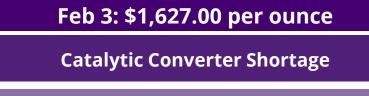




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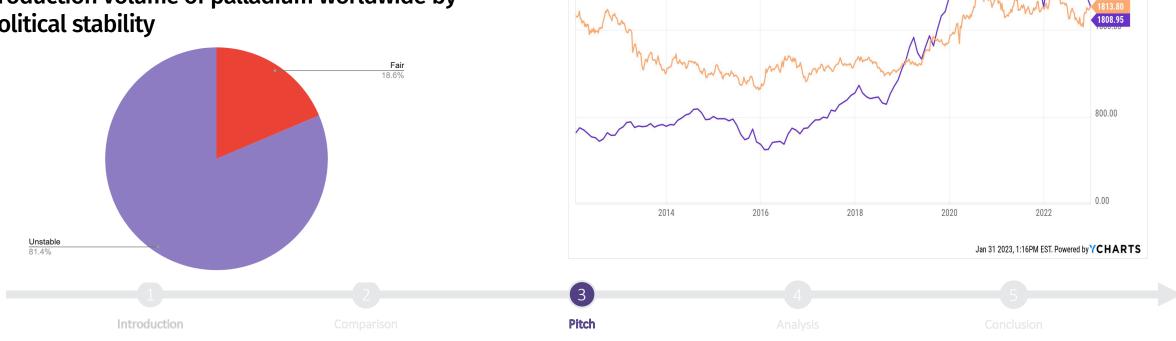


Palladium



Ukraine War and South African labour

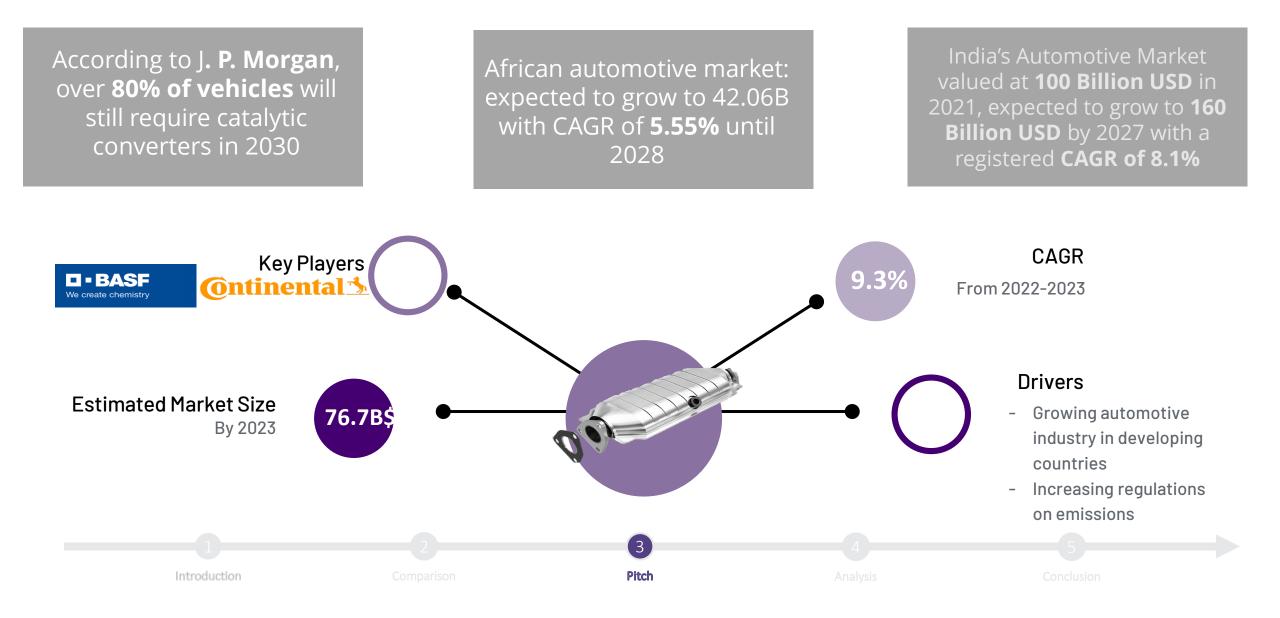
Production volume of palladium worldwide by political stability



• Palladium Spot Price (I:PSP) Gold Price in US Dollars (I:GPUSD)

Catalytic Converters



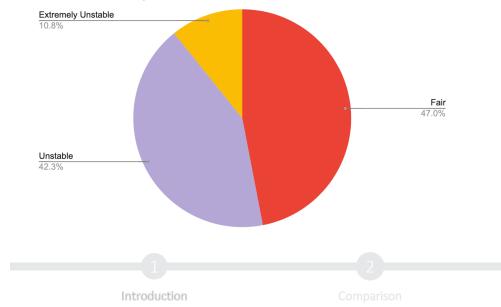


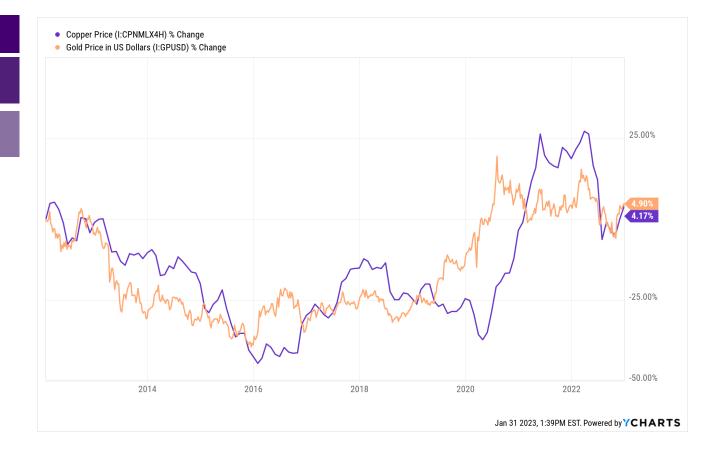






Production volume of copper worldwide by political stability





3

Pitch

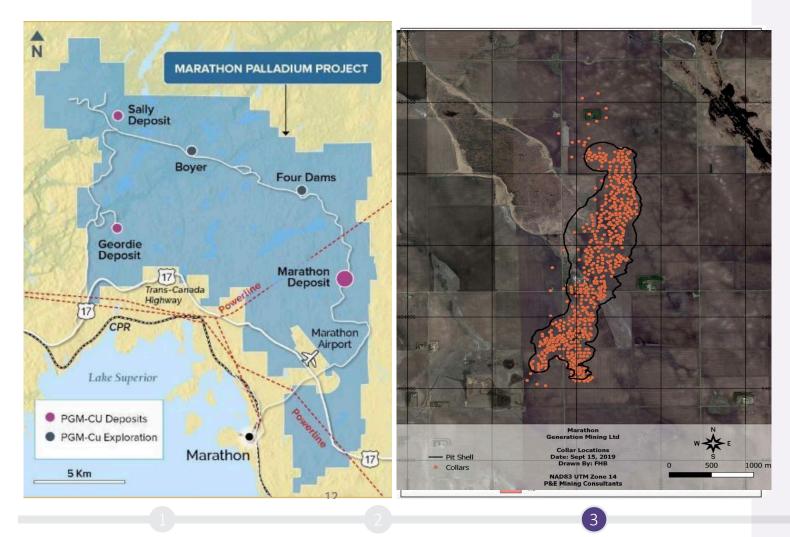


Overarching Competitive Advantage:

- Trans-Canada Highway
- Served by CPR main rail line
 - Marathon airport
- Carbon-free/inexpensive power potential
 - Workforce potential
- Future exploration potential (Sally and Geordie Deposits)
- Strong Support from location town of Marathon

Site Overview

Introduction



Pitch

Eric Sprott: Net Worth: \$1.1B Self Made Asset manager, Prec

Investment

Institutional Shareholders	Percentage	Capital Structure	
Eric Sprott	8.2%	Shares Outstanding	170.2M
Zebra Holdings	8.0%	Total Liabilities	48.5M
Sibanye Stillwater	8.0%	Cash From Financing Activities	23.25M
Osisko Mining	4.0%	Fully Diluted Shares Outstanding	180.4M
Officers & Directors	6.5%	Basic Market Capitalization	\$139M

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Analysis

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Management team: FINANCE EXPERTS:



JAMIE LEVY PRESIDENT AND CEO

BRIAN JENNINGS

CPA, CA, B.SC CHIEF FINANCIAL OFFICER

Yrs. Experience: 25 Prev.:Finepoint mining and Pinetree capital



Prev.: Ernst and Young

Prev.: PWC, Guyana Goldfields, Aurora Gold Mine

Audit and Assurance Group

CHRISTOPHER

STACKHOUSE

CA



JEAN-PAUL DECO CA MGR. BUS. DEV.

Prev.: Glencore, KPMG Audit-Articles



Insider ownership: 7% management and board interested are aligned with shareholders.

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Management team: MINING INDUSTRY EXPERTS:



Learning Experience: Placer Dome is the subject of many controversies providing a great learning experience



Success Story: Barrick Gold is the #2 highest earning. mine in Canada

DREW ANWYLL M.ENG, P.ENG CHEIF OPERATIONS OFFICER



Yrs. Experience: 31 Prev.:Placer Dome, Barrick Gold, Detour Gold, and Gold Source Mines



ANN WILKINSON VICE PRESIDENT, INVESTOR RELATIONS

Prev: VP Investor Relations Gold Quest mining Corp, Colossus Minerals, TMAC Resources



MAURO BASSOTTI P.SC HON VP. GEOLOGY

Prev.: Ma'aden, Detour Gold, New Gold, Barrick and Placer Dome



RUBEN WALLIN VP SUSTAINABILITY

Expert: Environment, Permitting, Indigenous and Gov. relations Prev.: Placer Dome, Detour Gold, Barrick and Osisko

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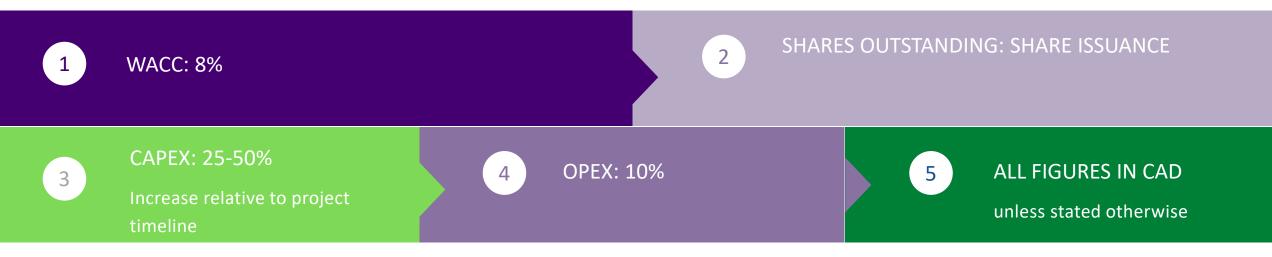


Analysis

Key Assumptions

Baseline assumptions for comparative evaluation





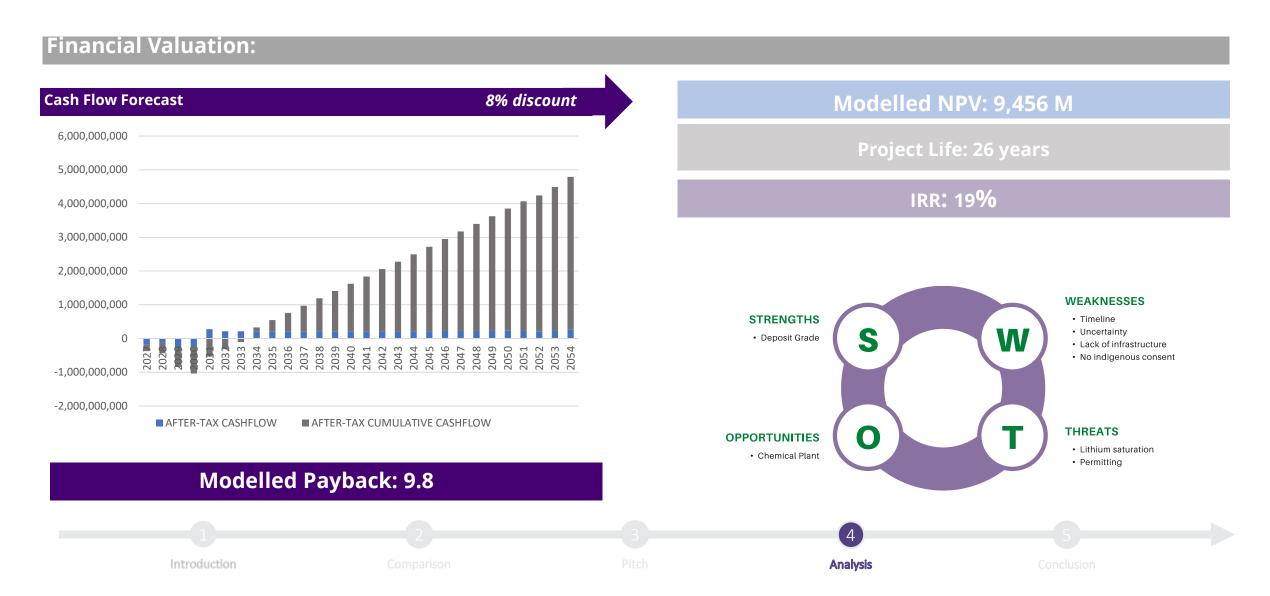
Base-case price assumptions





Frontier Lithium

North America's highest-grade large tonnage Lithium Resource

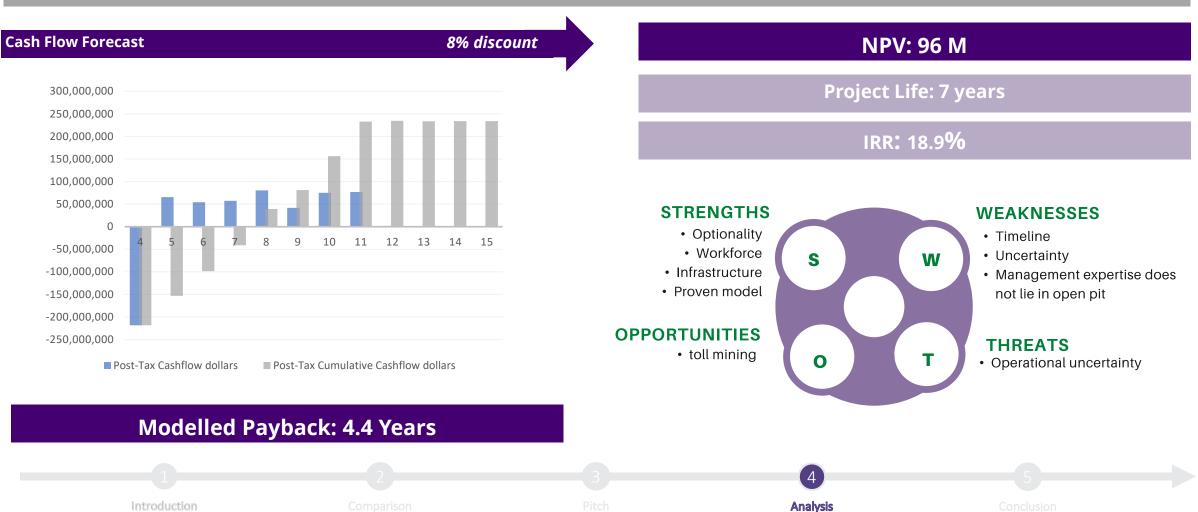


Magna Mining

Sudbury's next nickel producer

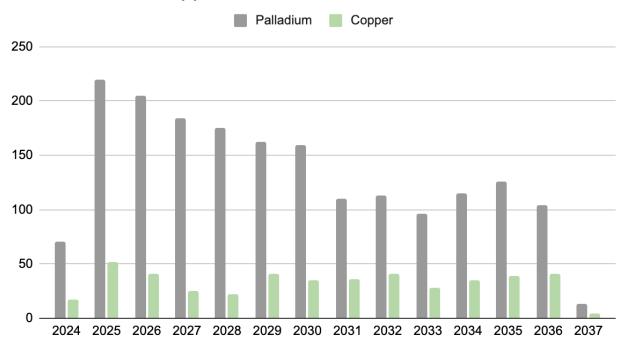
Financial Valuation:





A Unique Production Profile GENERATIONMINING

Palladium and Copper



2021: Mine Life: 13-years Pd: 2.03Moz Cu: 500M Lbs Pt: 634K oz of Pt

Differentiators: high-grade palladium and copper, reduce risk of decreasing palladium

2029:

70% of palladium will be mined, copper to mitigate



Pitch

Analysis



Base Case/ Valuation Analysis

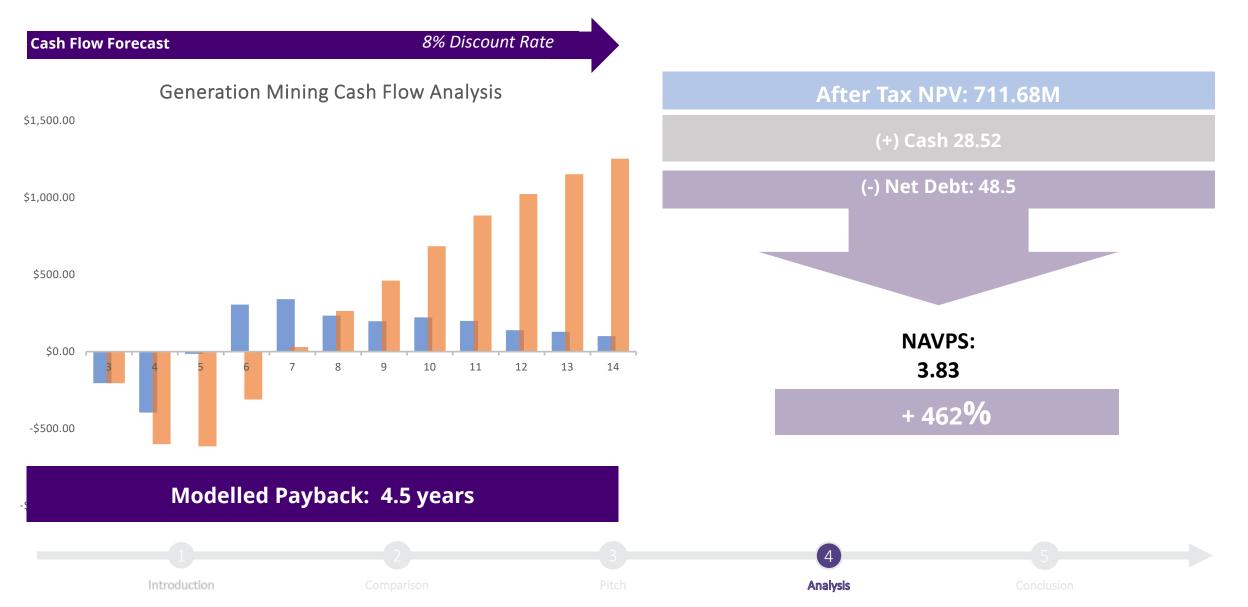


		2020 Feasibility Study	Modelled
	Discount Rate	5%	8%
	Milled Tonnage	117.7M	115M
*	Mine Life	14 Years 2024 to 2037	14 Years 2025 to 2038
	Operating Costs	Capex \$1,205M OPEX: 2,731M	CAPEX: 1,469M OPEX: 3,003M
	USD to CAD	1.28 (USD to CAD 20y AVG)	1.28 (USD to CAD 20y AVG)
	Palladium. Price	2023 Spot Price – 15%	2023 Spot Price – 20%



Generation Mining: Modelled NPV







Sensitivity Analysis

Profitability is incredibly sensitive to changes in OPEX, CAPEX, and commodity prices

			(, ,		,	Capex		, .		
	\$711.68	70%	80%	90%	100%	110%	115%	125%	130%	135%
	70%	1,718.18	1,636.94	1,555.69	1,474.45	1,393.21	1,352.59	1,271.35	1,230.72	1,190.10
	80%	1,578.26	1,497.02	1,415.78	1,334.53	1,253.29	1,212.67	1,131.43	1,090.81	1,050.19
OPEX	90%	1,438.34	1,357.10	1,275.86	1,194.62	1,113.37	1,072.75	991.51	950.89	910.27
	100%	1,298.43	1,217.18	1,135.94	1,054.70	973.46	932.84	851.59	810.97	770.35
	110%	1,158.51	1,077.27	996.03	914.78	833.54	792.92	711.68	671.06	630.44
	115%	1,088.55	1,007.31	926.07	844.82	763.58	722.96	641.72	601.10	560.48
	125%	948.63	867.39	786.15	704.91	623.67	583.04	501.80	461.18	420.56
	130%	878.68	797.43	716.19	634.95	553.71	513.09	431.84	391.22	350.60
	135%	808.72	727.48	646.23	564.99	483.75	443.13	361.89	321.26	280.64

NPV (\$M) Sensitivity to Increase/ Decrease in Operating and Capital Cost's

\$ 2.88	\$ 1	1,696.32	\$ 1	1,785.60	\$ 1,984.00	\$ 2	2,083.20	\$ 3	2,187.36
6%	\$	2.35	\$	2.79	\$ 3.74	\$	4.22	\$	4.72
7%	\$	2.00	\$	2.40	\$ 3.29	\$	3.73	\$	4.20
8%	\$	1.68	\$	2.05	\$ 2.88	\$	3.30	\$	3.73
9%	\$	1.40	\$	1.74	\$ 2.52	\$	2.90	\$	3.31
10%	\$	1.14	\$	1.47	\$ 2.19	\$	2.55	\$	2.93
11%	\$	0.91	\$	1.21	\$ 1.89	\$	2.23	\$	2.58

Sensitized model demonstrates Generation's ability to withstand unfavorable cyclical conditions

Introduction





DCF Valuation

DCF Scenario: Base Ca	se	Key Assumpt	ions:	Modelled	Current Price	Total Initial Capex (M)	(1,218.44)
Flagship Project: Marathon F	alladium Deposit		Paladium Price	\$1,984.00	\$2,225.92	PEA Initial Capex Estima	(\$600.00)
			Copper Price :	\$5.76	\$5.70	Closure Costs	(509.75)
Selected WACC	8%		Project Life	14 Years		Exchange Rate	1.28
Bayback Baried							

Payback Period	
After Tax NPV (\$M)	\$711.68
Project IRR	23%

Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Revenue (\$M)	0.00	0.00	267.36	829.77	752.73	628.65	582.90	642.08	598.93	485.91	532.58	412.60	486.60	547.46	506.82	57.13
%growth				67.78%	-10.23%	-19.74%	-7.85%	9.22%	-7.20%	-23.26%	8.76%	-29.08%	15.21%	11.12%	-8.02%	-787.17%
EBITDA	\$0.00	\$0.00	\$168.36	\$583.37	\$505.23	\$374.55	\$325.70	\$388.08	\$348.13	\$243.91	\$286.18	\$177.20	\$253.40	\$329.66	\$318.72	\$25.23
(-) Initial Capital	(268.75)	(453.75)	(77.50)	-	-	-	-	-	-	-	-	-	-	-	-	-
(-) Contingency Costs	(31.25)	(41.25)	(21.25)	-	-	-	-	-	-	-	-	-	-	-	-	-
(-) Sustaining Capital		(1.00)	(80.00)	(85.00)	(35.00)	(40.00)	(41.25)	(27.50)	(43.75)	(27.50)	(51.25)	(23.75)	(10.00)	(41.25)	(2.50)	-
(-) Closure Costs	-	-	-	-	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(55.00)
(-) Change in NWC	(3.00)	(15.00)	(29.00)	(50.00)	26.00	8.00	3.00	(2.00)	3.00	10.00	(3.00)	8.00	(6.00)	(5.00)	3.00	52.00
Equip Financing Drawdowns	43.00	25.00	32.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Equip Financing Costs	(5.00)	(9.00)	(14.00)	(19.00)	(19.00)	(22.00)	(14.00)	(12.00)	(4.00)	(1.00)	-	-	-	-	-	-
Taxes																
FCFF	-\$265.00	-\$495.00	-\$22.39	\$327.37	\$358.23	\$228.55	\$189.45	\$250.58	\$215.38	\$170.41	\$163.93	\$121.45	\$177.40	\$205.41	\$248.22	\$21.23
Free Cash Flow growth		-46.46%	2110.67%	106.84%	8.62%	-56.74%	-20.64%	24.39%	-16.34%	-26.39%	-3.95%	-34.98%	31.54%	13.64%	17.25%	-1069.31%
WACC	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Projection Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FV FCFF	-\$265.00	-\$495.00	-\$22.39	\$327.37	\$358.23	\$228.55	\$189.45	\$250.58	\$215.38	\$170.41	\$163.93	\$121.45	\$177.40	\$205.41	\$248.22	\$21.23
_Discount Factor	0.93	0.86	0.79	0.74	0.68	0.63	0.58	0.54	0.50	0.46	0.43	0.40	0.37	0.34	0.32	0.29
PV FCFF (\$M)	-\$245.37	-\$424.38	-\$17.78	\$240.62	\$243.81	\$144.03	\$110.54	\$135.38	\$107.74	\$78.93	\$70.31	\$48.23	\$65.23	\$69.93	\$78.25	\$6.20

Equity Value	\$691.73
Shares outstanding (M)	240
Value (\$ CAD)	\$2.88

(4)



Comparable Company Analysis

(CAD)	Price	Market Cap (M)	Enterprise Value (M)	P/NAV
Clean Air Metals Canada Thunder Bay North Project	\$ 0.13	29	200.67	0.15
Granit Creek Copper Carmacks Project	\$ 0.08	45	300	0.15
Copper Mountain Mining Corp. Copper Mountain Project	\$ 2.16	454	1245	0.36
Argonaut Gold Margino Gold Project	\$ 0.63	527	538.88	0.98
AMGOLD Côté Gold Project	\$ 3.58	1710	1109	1.54
Average	\$ 1.32	553	678.71	0.64
Generation Mining Marathon Project	\$ 0.67	121	1068	0.11

P/NAV Average	0.64
Derived Market Cap	680
Outstanding Shares (M)	180.4
Derived Stock Price	\$ 3.77
	463%

Key Takeaway

Compared to other junior mining companies in the development phase, Generation Mining is undervalued.



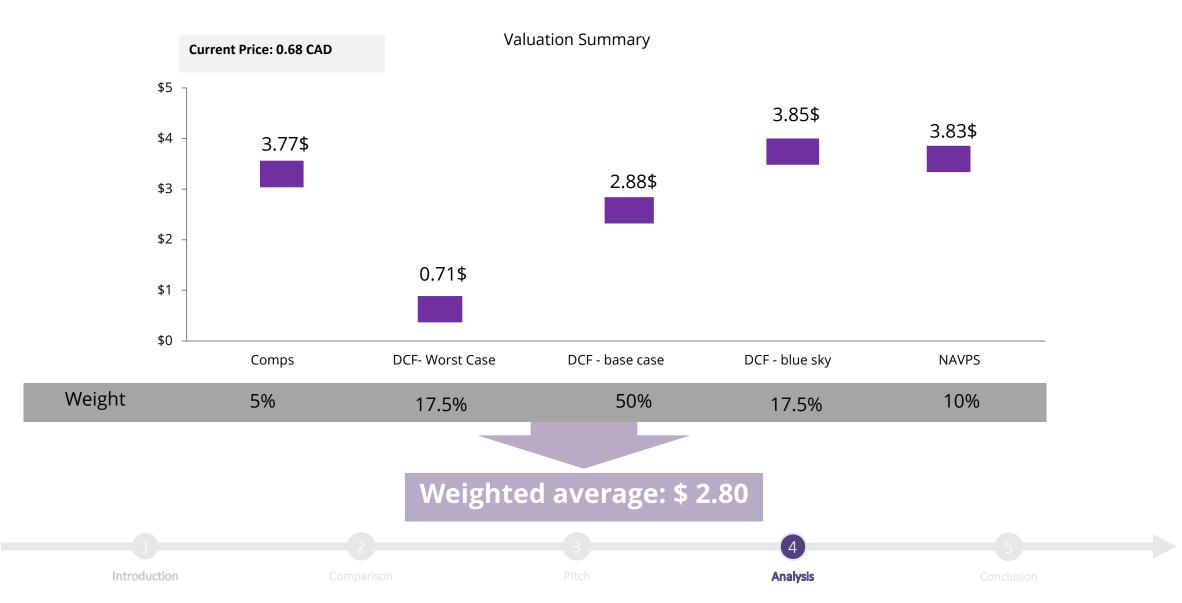
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Valuation Summary





Conclusion

Risks and Catalysts

RISKS

Permit Delays



Lack of permits would result in the project ending

Inflation



Inflation could significantly increase initial CAPEX

Access to Financing

CATALYSTS

Continued Geopolitical instability

Position Canadian Pallidum positively

Rapid Financing



Lower time to production

Nearby Mine construction ends







Conclusion

GENERATION MINING



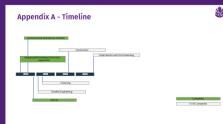




Thank You Questions?



Appendix





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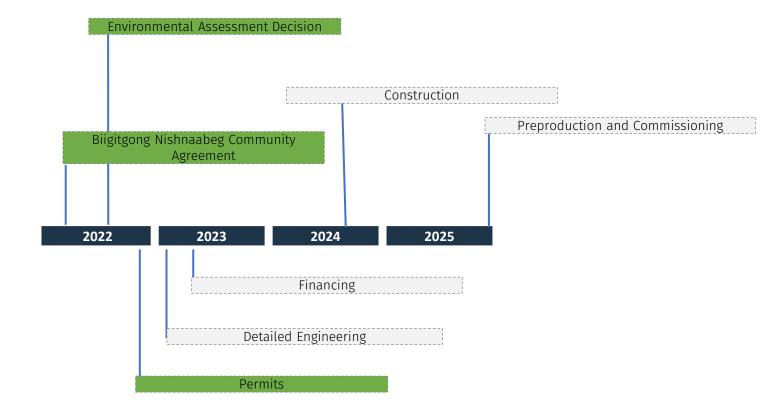
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Appendix A - Timeline



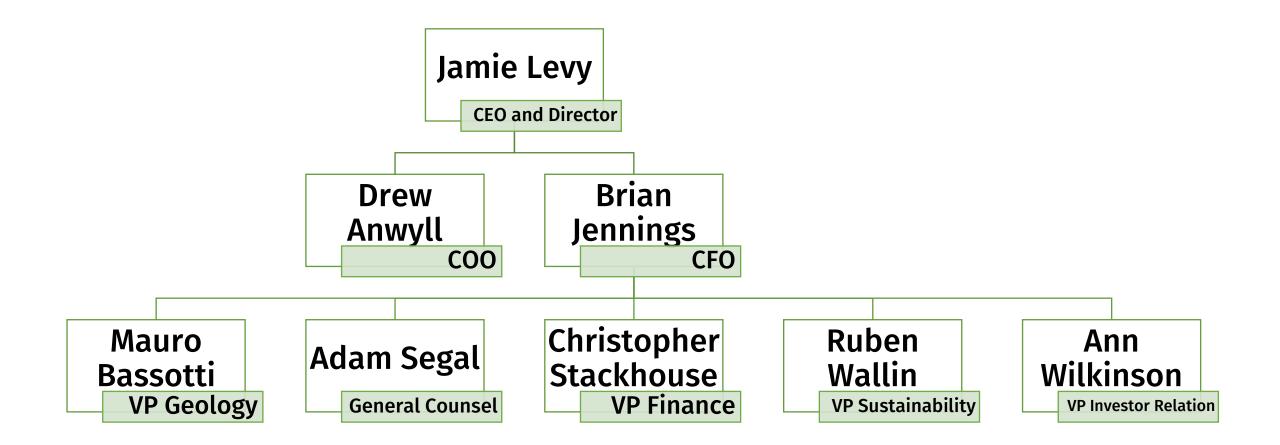


Completed

To be Completed



Appendix B - Management



Appendix C - Management



Mining Expert

Team Expertise

Geologists, mining engineers, analysis, investment bankers and financiers

Methodology

De-risk investments by analyzing geological, technical, social, business and political risks

Long-term Value

Diligent, disciplined and creative

Dundee group structures their deals with the purpose of delivering LT, sustainable value.

High-quality assets

That can be profitable at any point in the cycle



Partnering Collaboratively

Partnership

Sharing findings from evaluations and due diligence with investees for mutual benefit

Hands-on

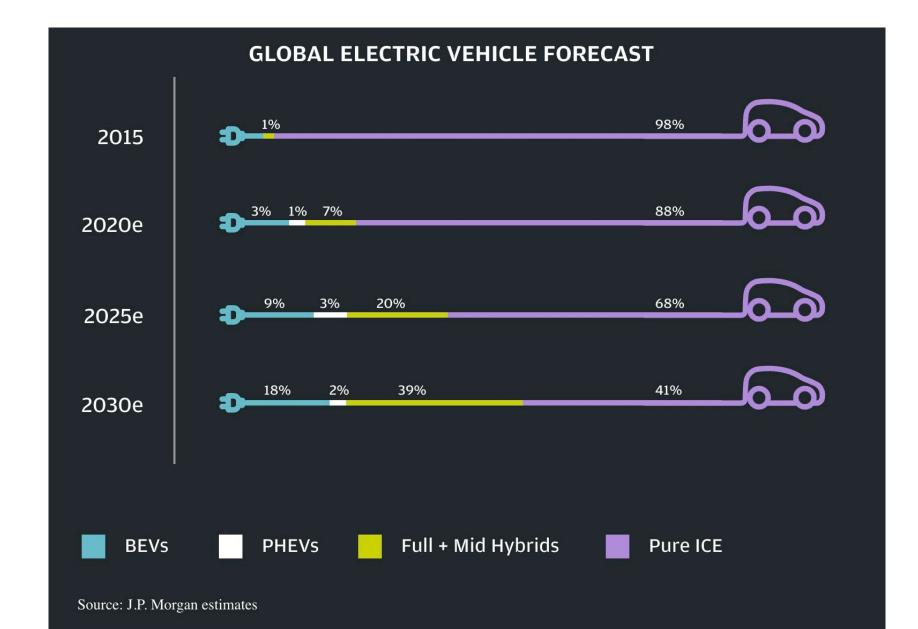
Dundee stays involved alongside capital partners



Purpose
Best available practices in place
Anti-speculative
Deliberate investment decisions – no exorbitant feeds on the deals Dundee



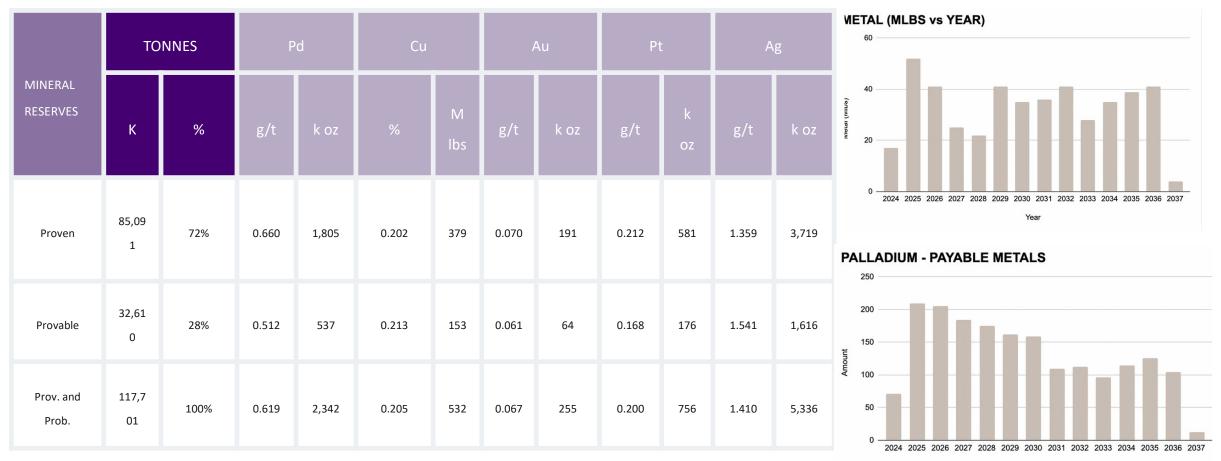
Appendix D – Global Electric Vehicle Forecast





APPENDIX E - KEY FIGURES

Mineral Reserve Estimates



Year

Introduction

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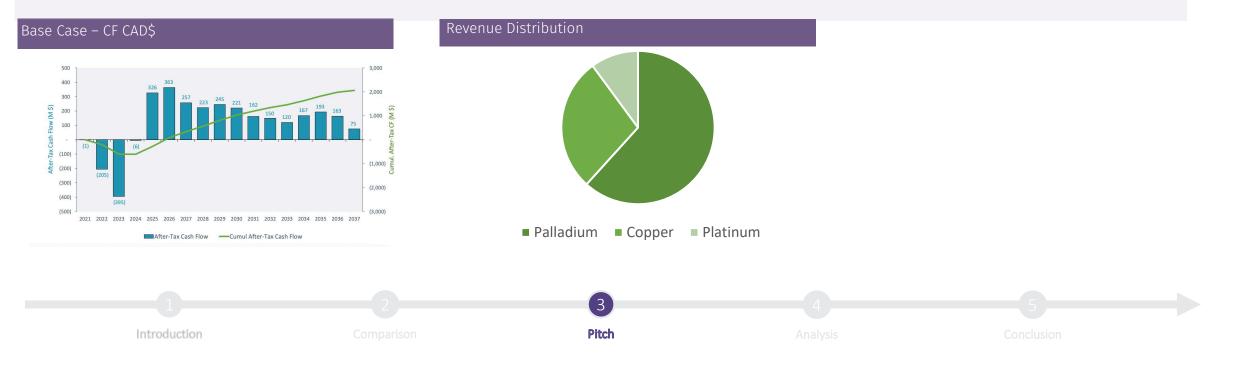
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APPENDIX F - Generation Mining – GENM.TO

Company Highlights

- Robust Feasibility Study and infrastructure
- Favorable Metals: Palladium and Copper (EV batteries use lithium-ion technology, hydrogen is produced using special membranes, hydrogen can be stored using palladium nanoparticles, and the EU plans to reduce emissions by 50% in 2027 through new laws.)
- Leadership Team
- Trading at discount to NPV
- Operations for 13 years in a location with favorable mining regulations, producing 245,000 oz of palladium-equivalent per year at a low cost of \$809 per oz of palladium-equivalent.



APPENDIX G

The minerals mined through this project, mainly palladium and copper, will play an important role in Canada's transition to a lowcarbon economy.

-Honourable Steven Guilbeault

Minister of Environment and Climate Change

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Comparison

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Appendix H - CORE VALUES

Charitable	Educational	Health and	
Giving	Support	Safety	
Environmental Management	Collaborative Community Relationships	Social Accountability	

Appendix J– Cash Flows

O a manufia a Minina	_				-	-		-									
Generation Mining	Total	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Marathon Palladium Project Cash Flow		Half Year Adjus	tment														
Production																	
Mill Feed Total (Kt)	454.6	3.0	10.4	24.0	40.0	40.0	40.0	39.8	40.0	39.2	40.0	40.2	35.2	29.3	18.7	7.4	7.4
Strip Ratio																	
Mill Feed- Pt Grade (g/t)		17.00%	15.00%	23.00%	25.00%	19.00%	14.00%	12.00%	24.00%	19.00%	22.00%	23.00%	19.00%	21.00%	22.00%	26.00%	
Mill Feed- Cu Grade (g/t)		59.00%	125.00%	75.00%	81.00%	154.00%	164.00%	141.00%	113.00%	139.00%	181.00%	137.00%	135.00%	149.00%	173.00%	199.00%	
Mill Feed- Pd Grade (g/t)		6.00%	7.00%	7.00%	6.00%	7.00%	7.00%	7.00%	7.00%	7.00%	7.00%	6.00%	7.00%	6.00%	6.00%	7.00%	
Mill Feed- Pd Grade (g/t)		17.00%	21.00%	19.00%	19.00%	23.00%	26.00%	27.00%	22.00%	19.00%	15.00%	15.00%	19.00%	15.00%	17.00%	18.00%	
Mill Feed- Pd Grade (g/t)		60.00%	62.00%	70.00%	73.00%	67.00%	70.00%	72.00%	67.00%	64.00%	50.00%	46.00%	52.00%	52.00%	53.00%	53.00%	
Capital Costs (CA\$ million)																	
Contigency Costs	(93.75)	(31.25)	(41.25)	(21.25) -	-	-	-	-	-	-	-	-	-	-	-	-	
Initial Capital	(800.00)	(268.75)	(453.75)	(77.50)													
Total Initial Capital	(893.75)	(300.00)	(495.00)	(98.75)													
Sustaining Capital	(509.75)	0.00	(1.00)	(80.00)	(85.00)	(35.00)	(40.00)	(41.25)	(27.50)	(43.75)	(27.50)	(51.25)	(23.75)	(10.00)	(41.25)	(2.50)	0.00
Salvage value	0.00																
Closure Costs	(66.00)		0.00	0.00	0.00	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(55.00)
Capex % Increase	1.25																
Total Capital Costs	(1,469.50)	(375.00)	(620.00)	(223.44)	(106.25)	(45.00)	(51.25)	(52.81)	(35.63)	(55.94)	(35.63)	(65.31)	(30.94)	(13.75)	(52.81)	(4.38)	(68.75)
Operating Costs (CA\$Million)																	
Mining Costs	(1,173.70)			(42.90)	(107.80)	(103.40)	(103.40)	(103.40)	(99.00)	(101.20)	(97.90)	(103.40)	(96.80)	(90.20)	(73.70)	(44.00)	(6.60)
Processing	(1,151.70)			(33.00)	(85.80)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(92.40)	(16.50)
G&A	(316.80)			(7.70)	(16.50)	(16.50)	(28.60)	(30.80)	(31.90)	(28.60)	(24.20)	(25.30)	(23.10)	(26.40)	(26.40)	(26.40)	(4.40)
Transport/ Refining	(196.90)			(7.70)	(20.90)	(19.80)	(16.50)	(15.40)	(16.50)	(15.40)	(14.30)	(14.30)	(12.10)	(13.20)	(14.30)	(14.30)	(2.20)
Concrete Transport & Insurance	(160.60)			(6.60)	(15.40)	(15.40)	(13.20)	(13.20)	(13.20)	(13.20)	(13.20)	(11.00)	(11.00)	(11.00)	(11.00)	(11.00)	(2.20)
Royalties	(4.10)			(1.10) -	-	-		(2.00)	(1.00)	0.00 -	-	-	-	-	-	-	
Opex % Increase	1.10																
Total Operating Costs	(3,003.80)			(99.00)	(246.40)	(247.50)	(254.10)	(257.20)	(254.00)	(250.80)	(242.00)	(246.40)	(235.40)	(233.20)	(217.80)	(188.10)	(31.90)
Metal Price Deck																	
Selected Exchange Rate: USD to CAD 1.2	8																
Copper				5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76	5.76
Palladium				1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,984.00	1,785.60	1,785.60
Platinum				1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56	1,314.56
Gold				1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00	1,792.00
Silver				25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60	25.60
Revenue Breakdown (CA \$million)																	
Copper Revenue	2632.42421			95.05	299.90	236.92	143.39	127.44	234.58	202.27	207.77	240.94	160.79	198.26	225.09	235.57	24.45
Palladium Revenue	3674.56379			140.88	436.06	406.08	365.11	346.79	321.63	314.77	217.20	224.80	191.93	228.01	249.76	205.98	25.56
Platinum Revenue	688.96965			21.83	67.26	77.33	86.19	80.27	59.02	53.38	34.98	42.41	37.77	38.05	45.88	40.07	4.55
Gold Revenue	264.14332			8.81	24.01	26.15	26.95	23.05	22.87	22.84	18.60	18.93	17.34	16.35	19.03	17.47	1.74
Silver Revenue Gross Revenue	71.4256308 \$7,331.53			0.80 \$267.36	2.53 \$829.77	6.26 \$752.73	7.01 \$628.65	5.36 \$582.90	3.98 \$642.08	5.67 \$598.93	7.36 \$485.91	5.50 \$532.58	4.77 \$412.60	5.92 \$486.60	7.70 \$547.46	7.74 \$506.82	0.82 \$57.13
Operating Margin (%)	40.97%			-270.06%	29.70%	32.88%	40.42%	44.12%	39.56%	41.87%	49.80%	46.27%	57.05%	47.92%	39.78%	37.11%	\$57.13 55.84%
EBITDA	\$4,327.73	\$0.00	\$0.00	\$168.36	\$583.37	\$505.23	\$374.55	\$325.70	\$388.08	\$348.13	\$243.91	\$286.18	\$177.20	\$253.40	\$329.66	\$318.72	\$25.23
(-) Initial Capital	-\$800.00	(268.75)	(453.75)	(77.50)	-	φJ0J.25	-	φ <u>32</u> 3.70 -	\$300.00 -	4040.10	- -	\$200.10 -	φ1/1.20 -	\$233.40 -	4 529.00	- -	φ23.23
(-) Contingency Costs	-\$800.00	(31.25)	(41.25)	(21.25)	-	-	-	-	-	-	-	-	-	-	-	-	-
(-) Sustaining Capital	-\$509.75	-	(1.00)	(80.00)	(85.00)	(35.00)	(40.00)	(41.25)	(27.50)	(43.75)	(27.50)	(51.25)	(23.75)	(10.00)	(41.25)	(2.50)	-
(-) Closure Costs	(66.00)	_	-	(00:00)	-	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(1.00)	(10.00)	(1.00)	(1.00)	(55.00)
(-) Change in NWC	(00.00)	(3.00)	(15.00)	(29.00)	(50.00)	26.00	8.00	3.00	(2.00)	3.00	10.00	(3.00)	8.00	(6.00)	(5.00)	3.00	(55.00)
Equip Financing Drawdowns	100	43	(13.00)	(23.00) 32	(00.00)	20.00	0.00	0.00	(2.00)	0.00	10.00	(0.00)	0.00	(0.00)	(0.00)	0.00	02.00
Equip Financing Costs	-119	-5	-9	-14	-19	-19	-22	-14	-12	-4	-1	0					
Pre Tax Cash Flow	\$2,839.23	-\$265.00	-\$495.00	-\$21.39	\$429.37	\$476.23	\$319.55	\$272.45	\$345.58	\$302.38	, \$224.41	\$230.93	\$160.45	\$236.40	\$282.41	\$318.22	\$22.23
Accumalated Cash Flow (pre tax)	÷=,000.20	-\$265.00	-\$760.00	-\$781.39	-\$352.03	\$124.21	\$443.76	\$716.21	\$1,061.79	\$1,364.17	\$1,588.58	\$1,819.52	\$1,979.97	\$2,216.36	\$2,498.77	\$2,817.00	\$2,839.23
Taxes	-944	¢200.00	0	-1	-102	-118	-91	-83	-95	-87	-54	-67	-39	-59	-77	-70	-1
Operating Cash Flow	\$1,895.23	-\$265.00	-\$495.00	-\$22.39	\$327.37	\$358.23	\$228.55	\$189.45	\$250.58	\$215.38	\$170.41	\$163.93	\$121.45	\$177.40	\$205.41	\$248.22	\$21.23
Payback Period	¢.,000.20	+=====	,	÷==:00	<i>,</i>	+++++	÷==0.00	÷	÷200.00	÷=	÷	÷	÷.210	÷	* =••••	¥= .0.25	÷==0
Accumalated Cash Flow` (after tax)	\$1.895.23	-\$265.00	-\$760.00	-\$782.39	-\$455.03	-\$96.79	\$131.76	\$321.21	\$571.79	\$787.17	\$957.58	\$1,121.52	\$1,242.97	\$1,420.36	\$1.625.77	\$1.874.00	\$1.895.23
	ψ1,000.20	Ψ200.00	ψι 00.00	ψ1 02.00	ψ-100.00	400.1 <i>0</i>	ψ101.70	ΨΟΣ Ι.ΣΙ	ψ011.10	φισι.τι	ψυστ.00	ψ1,121.02	ψ1,272.07	ψ1,-τ20.00	ψ1,020.11	ψ1,074.00	ψ1,000.20

Appendix I – Worst Case (Armageddon)

Palladium Production Stops in 2030 where production stops being economic

3 eneration Mining		SENMITO															
ICF Scenario: Word Case lagship Project: Marathon Palladiu				ĸ	ey Assumptio	1			urrent Price \$2,225.92 \$6.70								
leleoted WACC Payback Period	8%					1	Project Life 14	Years	I								
AfferTaxNPV (\$M) Project FRR	\$187.72 13%																
Period		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Year		2022	2023	2024	2025	2028	2027	2028	2029	2080	2031	2082	2033	2084	2035	2038	2037
le venue (\$M)		0.00	0.00	238.11	738.21	668.62	649,48	608.03	673.70	632.98	439.88	483.76	213.11	260.68	288.19	292.10	30.6
Sgrowth BIT DA		\$0.00	\$0.00	\$148.11	67.79% \$515.21	-10.89% \$441.62	-21.32% \$318.46	-8.16% \$274.03	11.45% \$342.70	-7.64% \$304.98	-21.15% \$219.98	9.06% \$259.76	- 127.00% -\$0.89	14.95% \$38.56	13.06% \$90.19	1.34% \$121.10	-854.633 \$1.6
-) Initial Capital -) Contingency Costs		(268.75) (31.25)	(453.75) (41.25)	(77.50) (21.25)	:	1	:	:	1	:	1	:	1	1	:	:	1
-) Sustaining Capital -) Closure Costs		-	(1.00)	(80.08)	(85.00)	(35.00) (1.00)	(40.00) (1.00)	(41.25) (1.00)	(27.50) (1.00)	(43.75) (1.00)	(27.50) (1.00)	(51.25) (1.00)	(23.75) (1.00)	(10.00)	(41.25) (1.00)	(2.50) (1.00)	(55.00
-) Change in NWC		(300) 4300	(15.00) 25.00	(29.00) 32.00	(50.00)	26.00	8.00	3.00	(2.00)	3.00	10.00	(3.00)	800	(6.00)	(5.00)	3.00	52.00
Equip Financing Costs		(500)	(9.00)	(14.00)	(19.00)	(19.00)	(22.00)	(14.00)	(1200)	(4.00)	(1.00)	-			-	-	-
Taxos FCFF		-\$285.00	-\$496.00	-\$42.64	\$259.21	\$294.62	\$172.48	\$137.78	\$205.20	\$172.23	\$148,43	\$137.61	-\$68.64	-\$37,44	-\$34.08	\$50,80	-\$2.4
ree Cash Flow growth			48,48%	1080.82%	118.45%	12.02%	- 70.84%	-25.17%	32.88%	-19.14%	-17.82%	-8.49%	342,77%	-61.30%	-8.92%	167.30%	2207.229
VACC		8%	8%	8%	8%	8%	8%	8%	8%	8%	8%	85	8%	85	8%	8%	83
Projection Year FV FCFF		-\$265.00	2 -\$495.00	3 -\$42.64	4 \$259.21	5 \$294.62	6 \$172.46	7 \$137.78	8 \$205.20	9 \$172.23	10 \$146.43	11 \$137.51	12 -\$56.64	13 -\$37.44	14 -\$34.06	15 \$50.60	-\$2.4
Viscourt Factor		0.93	0.86	0.79	0.74	0.68	0.63	0.58	0.54	0.50	0.46	0.43	0.40	0.37	0.34	0.32	0.2
PVFCFF		-\$245.37	-\$434.38	-\$33.86	\$190.62	\$200.62	\$108.88	\$80.39	\$110.88	\$38.16	\$67.82	\$68.97	-\$22.49	-\$12.77	-\$11.60	\$16.96	-\$0.7
Enterprise Value	\$167.72								P	ibdium Price	(\$CAD)						
+) Cash -) Debt	28.553 48.5							\$0.82	1397.00	1470.528	1833.92	1715818	1801.3968				
1 1 1 1 1 1							Discount Rate	8% 7%	0.99	0.99	0.99	0.99 0.79	0.99				
Equity Value Shares outstanding (M)	\$147.78 240		Current Price 0.88					8% 9%	0.62	0.62	0.62	0.62	0.62				
/alue (\$CAD)	\$0.62	lpside	0.00					10%	0.30	0.30	0.30	0.30	0.30				
								11%	0.17	0.17	0.17	0.17	0.17				

		(COPPER Price	(\$CAD)		
	\$0.82	4.87	6.1284	6.70	6.9808	8.27984
	8%	0.99	0.99	0.99	0.99	0.99
Discount Rate	7%	0.79	0.79	0.79	0.79	0.79
	8%	0.62	0.62	0.62	0.62	0.62
	8%	0.45	0.45	0.45	0.45	0.45
	10%	0.30	0.30	0.30	0.30	0.30
	11%	0.17	0.17	0.17	0.17	0.17

Appendix J – Supply and Demand

Refined Product against Intensity of Use and Recycling Palladium in koz

	2018	2019	2020	2021	2022*
	REGI	ONAL SUPPLY			
South Africa	2,500	2,555	2,170	2,425	2,655
South Africa (adjusted)	2,500	2,555	1,845	2,655	2,630
Adjustments			-325	230	-25
Zimbabwe	380	385	405	415	445
Russia	2,670	2,870	2,810	2,585	2,710
Canada	575	515	480	500	535
USA	460	460	470	500	530
Other	395	395	385	335	335
Refined production	6,975	7,180	6,395	6,990	7,185
Growth	-1.2%	2.9%	-10.9%	9.3%	2.8%

1	ſ	DEMAND											
	Aut	ocatalysts											
Gross autocatalyst demand	8,260	8,410	7,360	7,650	8,495								
Non-road demand	35	35	40	40	40								
Recycling	2,035	2,175	2,010	2,305	2,585								
Net autocatalyst demand	6,260	6,275	5,390	5,380	5,950								
Growth	0.7%	0.2%	-14.1%	-0.2%	10.6%								
		ewellery		· · · · · · · · · · · · · · · · · · ·									
Gross jewellery demand	215	215	200	215	225								
Recycling	60	60	55	60	65								
Net jewellery demand	155	155	145	155	160								
Growth	0.0%	-1.3%	-5.8%	5.1%	5.2%								
Industrial													
Industrial	1,845	1,730	1,620	1,635	1,525								
Recycling	370	365	330	415	365								
Net industrial demand	1,475	1,365	1,290	1,220	1,165								
Growth	-0.3%	-7.5%	-5.4%	-5.6%	-4.3%								
		Total											
Gross demand	10,355	10,390	9,220	9,535	10,290								
Growth	1.4%	0.3%	-11.2%	3.4%	7.9%								
Recycling	2,465	2,595	2,395	2,780	3,015								
Growth	4.6%	5.4%	-7.8%	16.2%	8.4%								
Net demand	7,890	7,790	6,825	6,750	7,280								
Growth	0.5%	-1.3%	-12.4%	-1.1%	7.8%								
MARKET BALANCE	-915	-615	-435	235	-90								

Exploration Upside Sally Deposit Extreme high grade PGE and Cu targets

- 24.8 Mt Indicated open pit resource
 - 278 Koz Pd, 160 Koz Pt, 56 Koz Au and 93 Mlb Cu
 - Resource defined by 82 drillholes totaling 16,975 m

