

## **INV Metals: A Bright Future**

Presented by the McGill Investment Team



# Land Acknowledgment

Laurentian University is located on the traditional Anishinaabe territory of the Atikameksheng Anishnawbek and Wahnapitae First Nation. We are situated within the boundaries of the Robinson-Huron Treaty of 1850. We acknowledge those who came before us and honour those who are the caretakers of this land and the waters.

# Safety Share

"Winter driving can sometimes be a daunting task, especially when conditions are snowy or icy. If road conditions are dangerous, consider making alternate travel arrangements or postponing your trip until conditions improve."



# Meet the Team



**Youssef Afifi** 

SA Markets Specialist
B.Eng, Mining
African Oil and Gas and
Underground mining
experience



**Anas Chazi** 

Engineering Expert
B.Eng, Mining
Canadian Mine planning
and mineral processing
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### Abdel Elzoka

Einancial Advisor
B.Eng, Mining
CFA candidate Level 2
and Oil Sand experience



### Elijah Saragosa

Project Lead
B.Eng, Mining
Canadian Underground
and consultant
experience

# **Executive Summary**

The McGill Investment Team was tasked with evaluated three high potential junior mining companies at varying points in their respective life cycles.

- INV Metals
- Reunion Gold Corp
- Wallbridge

Through a qualitative and quantitative analysis paired with our investment strategy focusing on companies with:

- Sound technical fundamentals
- High grade proven reserves, and
- A long term value approach

This resulted in the recommendation of **INV Metals** for addition to Mr. Goodman's balanced investment portfolio.



# Agenda

- Investment Approach
- Market Outlook
  - Gold
  - Copper
  - Platinum Group Metals
- Pre-screening Analysis
  - Reunion Gold
  - Wallbridge Mining
  - INV Metals
- INV Metals: In-depth Analysis
- Financial Assessment
  - Project Valuation
  - Risk Assessment
- SWOT and Closing Remarks



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### **Selection Criteria and Investment Approach**

Long-term
Value Creation

Investment approach based on wealth creation, for all stakeholder, to maximize capital creation and to reduce volatility exposure and uncertainty.

Our Investment Ethos

Sound Technical Fundamentals

Investment approach focused on companies working to build world class assets by leveraging capabilities and proven track record.

3

**Proven Assets** 

Investment approach based on resources estimates build from Standards, best practices and guidance promoting Excellence in Mineral Resource & Mineral Reserve Estimation



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### **Market Outlook: Gold**

Main Factors Affecting Gold Outlook

### **Global Market Uncertainty**

- Brexit
- USA and China Trade War
- Troubling Oil Prices
- Growth Slowdowns in Developing Markets

### Rising Interest Rates

- Artificially Kept Low Since 2008
- Expected Hike Due to Creeping inflation



### **Declining Reserves**

- Global Declining Reserves far Below Replacement
  - Will Come to Ahead within 5-years
- Demand Expected to Rise, Compounding Effects

### Commodity Bull Market

- Gold Appears to Have Troughed
  - US\$1180/t.oz in 2018
- General Positive Analyst Sentiment





### **Market Outlook: Gold**

 Gold price is heavily effected by uncertainty in global markets and is thus expected to rally in the short term as a result of various



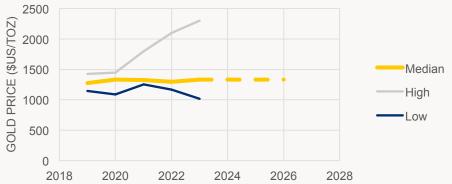


Figure: Analyst gold sentiment taken from Bloomberg on Jan 15th 2018

Median Projection Selected for Valuation

\$1335/t.oz (after 2023)



### **Market Outlook: Gold**

### **Bloomberg Consensus Spread**

 Price confidence can quantified based on the max spread of Bloomberg analyst forecasts (sans outliers)

#### High and Low Analyst Projection (until 2023)

	2019		2020	)	2021	-	2022	2023		
High Low	\$ 1,425	\$	1,450	\$	1,800	\$	2,100	\$	2,300	
Low	\$ 1,145	\$	1,089	\$	1,250	\$	1,169	\$	1,016	

Figure: Analyst gold sentiment taken from Bloomberg on Jan 15th 2018

### Terminal High and Low Analyst Projection

\$1016/t.oz (after 2023)

\$2300/t.oz (after 2023)

### Gold Price Confidence with @Risk

 Gold price confidence based on historical volatility and box distribution





### **Market Outlook: Copper**

Copper expected to hold as Chinese and Indian growth begins to slow and world production rises to meet demands

### MEDIUM AND LONG TERM ANALYST COPPER PRICE FORECASTS

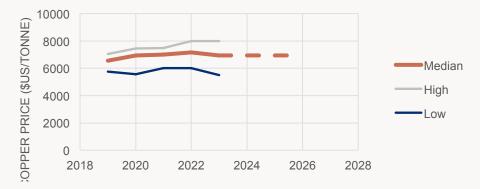


Figure: Analyst copper sentiment taken from Bloomberg on Jan 15th 2018

Median Long Term Projection Selected for Valuation

\$6945/tonne (after 2023)



### **Market Outlook: Platinum Group Metals**

 PGM prices are expected to rise as battery technology becomes ubiquitous but the substitution effect is expect to temper this increase

**Forecast** 



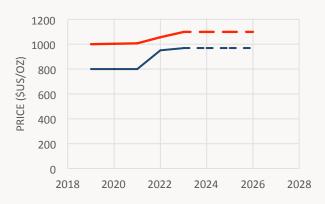


Figure: PGM sentiment taken from Bloomberg on Jan 15th 2018

Median Long Term Projection Selected for Valuation

**Platinum Forecast** 

\$970/oz (after 2023)

Palladium Forecast

\$1137/oz (after 2023)



### **Market Outlook: Summary**

Primary Commodities of Interest



Gold

\$1335/t.oz (after 2023)



Platinum & Palladium

Platinum \$970/t.oz (after 2023) Palladium \$1137/t.oz (after 2023)

Secondary Commodities of Interest







Silver

\$18/t.oz (after 2023)

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## **Pre-screening criteria**

**Environmental and Social** 

Geological

Financial







Management & Workforce

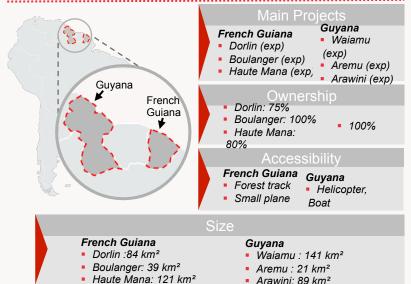
Geopolitical





### Réunion Gold: an Early Exploration Project

#### **General Information**



#### Mineralization

- Preliminary resources: 790,000 oz
- 11-km long soil gold anomaly
- Mineralization hosted in hydrothermally altered and sheared volcanic rocks and felsic intrusives.
- Sections drilled up to 50 meter, confirming continuity at depth/ laterally.

#### 2018 Stock Performance

### Wallbridge 2018 Stock Price



#### Stock Summary

Market Cap.: 60.93 M Shares Outs.: 320.5 M 52 - Week High (\$): 0.230 52 - Week Low (\$): 0.110 Day's Range (\$): 0.190 - 0.190 1y Target Est (\$): 0.380

#### Share Ownership

Dundee Corporation: 16.5% Barrick Gold Corporation: 15.0% Management & Directors: 8.0% Institutions Investors: 18.0% (Donald Smith, Mackenzie, Gold 2000, RBIM)

Others (Public): 42.5%



### Réunion Gold: an Early Exploration Project

#### **Financial Evaluation**

			Market (\$M)	EV(\$M)	EV/AuEq (\$/oz AuEq)			
Almaden	Miner	als Ltd.	104.9	96.3	32.3			
Reunion	Gold		54.5	54.5 50.2				
Mountair	n Boy N	/linerals Ltd	. 7.6	7.6 7.1				
Seabridge	Seabridge Gold Inc. 50.2		803.4 M\$	793.4	5.3			
			33.4	23.4				
Ma	arket E	V	Valuation	Risk Adj. EV				

### Financial Risk

- Market value based on historical resource estimates
- Risk adjusted valuation is 26.8 M\$ less than market value

### **Key Risk Factors**



#### **Environmental and Social**

Rehabilitation of more than 162 ha of lands impacted by illegal miners



### Geological

 Previous significant work done previous (drilling, sampling and testing)



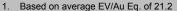
### Management & Workforce

Vast South American experience with enviable success in the Guiana Shield



### Geopolitical

Countries plague with illegal miners and high taxation rates

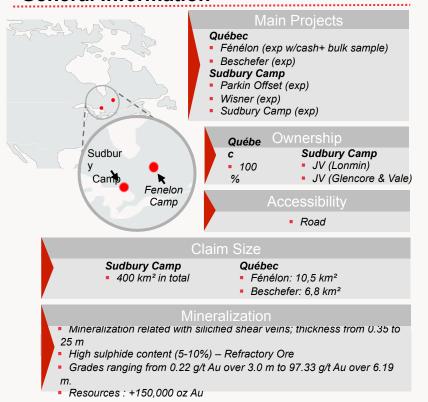


2. 0.7x risk adjustment factor

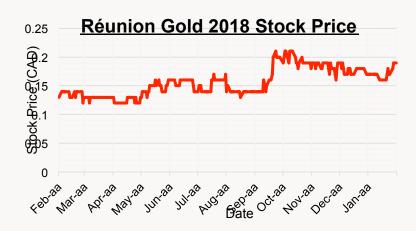


### Wallbridge: a Growing Producer

#### **General Information**



### 2018 Stock Performance



# Stock Summary Market Cap.: 95.29 M

Shares Outs.: 390.3 M 52 – Week High (\$): 0.350 52 – Week Low (\$): 0.600 Day's Range (\$): 0.210 – 0.250 1y Target Est (\$): 0.500

### Share Ownership

William Day Construction: 13.8% High Net Worth & Friends: 11.9%

Insiders: 5.0% Others (Public): 54.1%

Eric Sprott: 15.1%



### Wallbridge: a Growing Producer

#### **Financial Evaluation**



### Financial Risk

- Share dilution due to equity financing
- Exploration targets might not translate into proven/probable reserves

### **Key Catalysts**

Share dilution due to equity financing

### **Key Risk Factors**



#### **Environmental and Social**

Presence of pyrrhotite capable of causing acid mine drainage in the Fenelon's Project



### Geological

 Deposit not continuous and very small dilution assumed



### Management

Experience in developing and operating a mine as a team, but never worked underground



### Geopolitical

Mining in the one of the best jurisdictions in the world

2. 0.7x risk adjustment factor



### **INV Metals: a World Class Resource Developer**

#### **General Information** Development Loma Larga (Main Value Driver) Exploration Tierras Coloradas (High Potential) Ecuador Other (3 explo) Ownership **100%** Accessibility Public Road Larga Access to Electrical and Telecom Infra Development Exploration Loma Larga: 303 km² Tierras Coloradas : 100 km² Other: 365 km²

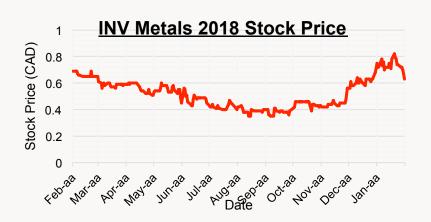
Reserves (Loma Larga)

2.6 M oz AuEg (P&P)

Resources (Loma Larga)

3.2 M oz AuEq (M&I)

#### 2018 Stock Performance



### Stock Summary

Market Cap.: 58.4 M Shares Outs.: 92.6 M 52 – Week High (\$): 0.830 52 – Week Low (\$): 0.350 Day's Range (\$): 0.620 – 0.650

1y Target Est (\$): 1.620

#### **Share Ownership**

IAMGOLD: 35.6% FRANKLIN: 8.7% INVESCO: 3.0% Other Institutions: 4.3% Insiders: 16.1% Others(Public): 32.3%



### **INV Metals: a World Class Resource Developer**

#### **Financial Evaluation**

	Market (\$M)	EV(\$M)	EV/AuEq (\$/oz AuEq)
NovaGold Resources Inc.	1180	1150	47.0
INV Metals	68.5	63.1	26.4
Gowest Gold Ltd.	15.5	26.7	26.2
Lincoln Mining Group	1.1	1.85	10.1

EV/Au Eq (\$/oz)

53.3



**Key Catalysts** 

- World class mineral deposit
- Relatively low AISC ~650 USD/oz

### **Key Factors**



#### **Environmental and Social**

Multiple environmental studies completed & Strong social relations built on concrete projects



### Geological

- Arsenic potential
   Shallow Dansait
- Shallow Deposit



### Management

Strong management team with South American experience



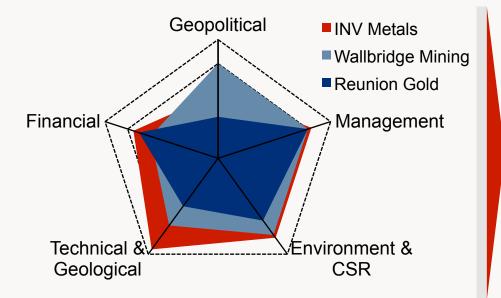
### Geopolitical

Robust political reform & strong political support



## **Prescreening Analysis: Comparison and Selection**

A comparison of the prescreening results allows for a complete view of the three candidate companies





### **Key Takeaways**

#### Pros

- Strong technical understanding
- Defined asset with high exploration potential
- CSR leader

#### Cons

- High geopolitical risk (local & national)
- High financial barrier to entry
- Uncertain permitting pipeline

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### Management

The INV management team boast over 400 years of mining experience



### Candace MacGibbon CEO

- 20 years experience in the mining sector
- RBC CM, BMO CM



#### Terrance MacGibbon Chairman

- 45 years experience in the mining sector
- Canadian Mining HoF
- FNX Mining, Torex
   Gold



### Jorge Barreno GM Ecuador

- 25 years in the mining sector in Ecuador
- IAMGOLD, Rio Tinto, RTZ



Sunny Lowe CFO

- 15 years experience in the mining sector
- Kinross (VPF)



### Darren King VP Exploration

- 30 years explo in NA and SA
- Barrick SA (12 yrs)



Fernando Carrion Manager Social Responsibility

- 20 years political expertise in mining
- IAMGOLD, RTZ, International Minerals

### **Environmental and Social Analysis**

#### **ENVIRONMENTAL**

#### **ASPECTS**

- Multiple Environmental studies conducted
- Continuous measurements of the disturbances
- Complete communication and dissemination system to inform the public about the Loma Larga Project
- No Cyanidation in their process

#### **SOCIAL ASPECTS**

Strong partnerships with local institutions

NUMEROUS CORPORATE RESPONSIBILITY INITIATIVES
---

Enhancement of traditional production activities

Local employment (80% of workforce)

Projects to stimulate agricultural and livestock

Productive entrepreneurship

production

Land management Gender equality

Local human talent

Education and environmental protection



Figure: Image from "Persistence pays off for I NV Metals at Loma Larga"



### **Geological Setting and Reserves**

### **Setting and Expansions**

- High Sulphidation epithermal gold-copper-silver mineralization
- Expansion Potential:

#### Gold

- Opens to the west
- Opens to the East

#### Silver

Potential high grade silver zone to South

#### Copper

Promising potential of porphyry to the NE of Loma Larga

### **Resource and Reserves**

Resource Classification	Au (M oz)	Ag (M oz)	Cu (M lb)	AuEq (M oz)
Measured + Indicated	2.71	17.7	109.5	3.2
Inferred	0.33	4.5	14.5	0.43

Reserve Classification	Au (M oz)	Ag (M oz)	Cu (M lb)	AuEq (M oz)
Proven	0.69	3.27	28.5	0.8
Probable	1.51	10	59.5	1.8

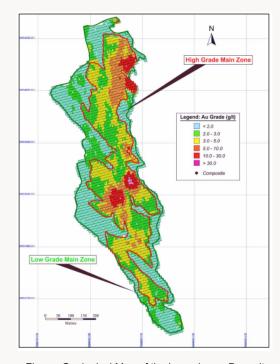


Figure: Geological Map of the Loma Larga Deposit

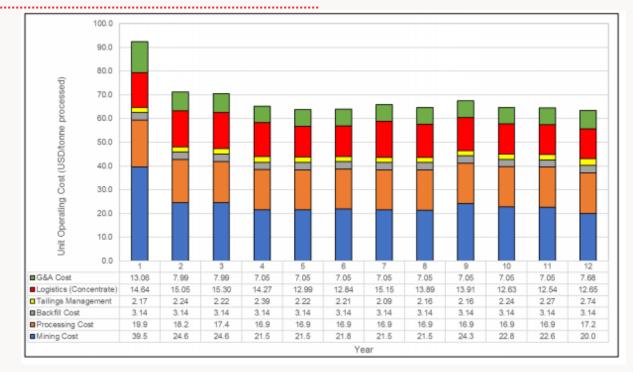


### **Technical Aspects**

#### Mine Plan

- 12 year mine life
- 3000 tpd increasing to 3400 tpd in Y5
- 1.2km ramp into deposit
- Shallow deposit
- Longhole stoping
- Water positive
- 120m depth
- Sophisticated mechanized mine
- Paste backfill
- Low geomechanical risks
- Doube flotation circuit
- 23.22 \$ USD/tonne LOM mining cost
- Lundin Mining 60 \$ USD/tonne

transverse stoping



### Why Ecuador? - Political Reform Upside

#### **GDP Restructure**

- Oil Based Economy, need for diversification
- 15-20% GDP
- 30-40% Government Tax Revenues
- Ecuador GDP from mining: 0.8% tin 2016 to 1.55% 2018
- Goal is to grow to 4% by 2021

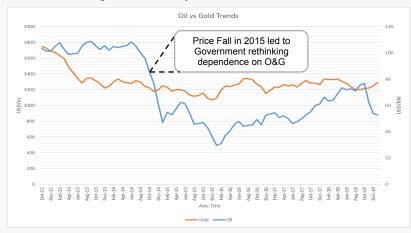


Figure: Recent Oil and Gas Trends

#### **Tax Reform**

### Government Recognition of Project

- Loma Larga identified as one of 5 major world class projects in, or close to production in Ecuador
- Investment Protection Agreement Enacted
- Set goal of \$4.6B investment commitments until 2021

### **Revamping Tax Regime**

- Double Tax Treaty with Canada
- Windfall Tax Removed
- VAT is recoverable on mineral exports since 2018

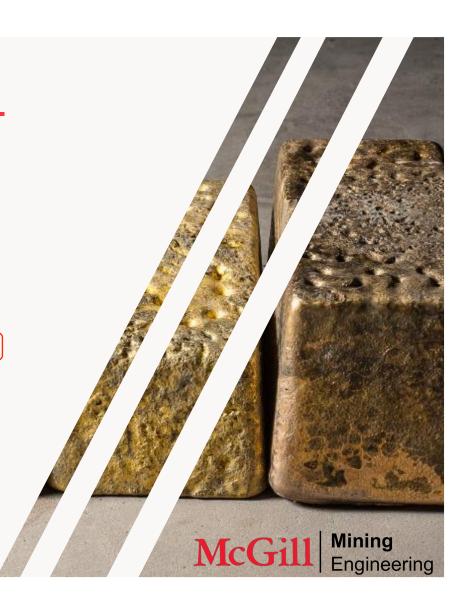
### **Royalty Scheme**

- Royalty rate 5%, 4%, and 3% for Large, Medium, and Small deposits respectively
- Govt legally required to re-invest 60% of royalties into areas of influence



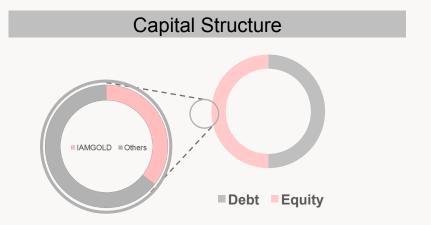
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### **INV Metals: Valuation Assumptions**

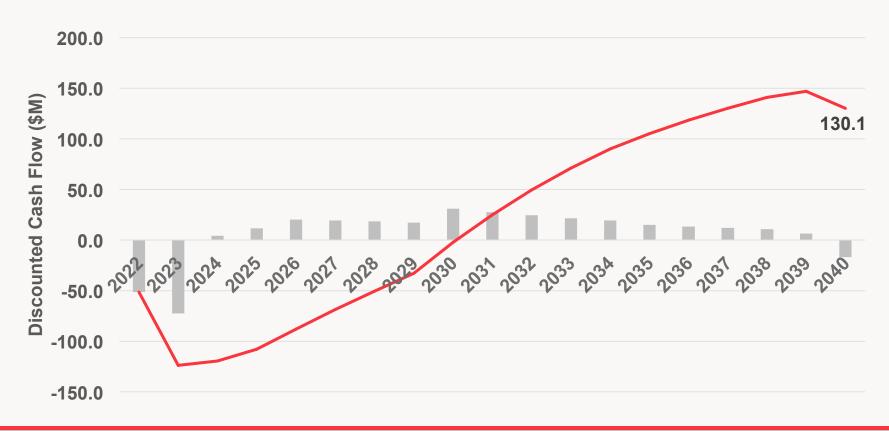
Deposit Breakdown											
	Tonnes (kt) Uncertainty (%) Grade (g/t) Gold (k oz										
Probable & Proven Reserves	13,900	10%	4.9	1975							
Measured & Indicated Resources	1,730	30%	3.7	125							
Inferred Resources	4,700	60%	2.2	101							
Exploration Targets	3,475	60%	3.0	642							
Total	23,805			3,435							



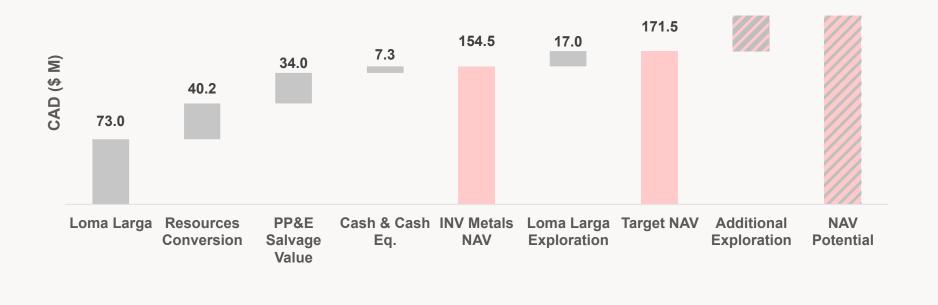




## **INV Metals: Loma Larga's Cash Flows**



### **INV Metals: NAVPS Build-Up**



0.57	0.88	1.14	1.20	1.20	1.33	1.33	NAV/S
0.8X	1.2X	1.5X	1.6X	1.6X	1.8X	1.8X	P/NAV



## **Sensitivity Analysis: INV Metal NAVPS**

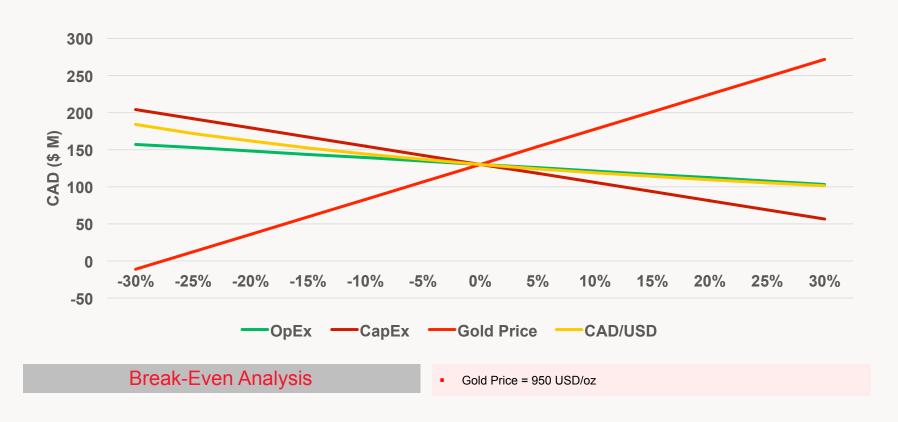
### Gold Price (USD/oz)

		1130	1180	1230	1280	1330	1380	1430	1480	1530
4	0.65	0.95	1.12	1.29	1.46	1.63	1.80	1.97	2.14	2.31
e Rate	0.7	0.89	1.04	1.20	1.36	1.51	1.67	1.83	1.98	2.14
Exchange	0.75	0.83	0.97	1.12	1.26	1.41	1.56	1.70	1.85	2.00
	0.8	0.77	0.91	1.05	1.19	1.33	1.46	1.60	1.73	1.87
CAD/USD	0.85	0.73	0.86	0.99	1.11	1.24	1.37	1.50	1.63	1.76
	0.9	0.69	0.81	0.93	1.05	1.17	1.30	1.42	1.54	1.66

### **Median Values**

- Gold Price = 1330 USD/oz
- CAD/USD Exchange Rate = 0.8
- NAVPS = 1.33

### Sensitivity Analysis: Loma Larga's Cash Flow



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## **SWOT Analysis**

<u>STRENGTHS</u>	<u>OPPORTUNITIES</u>
<ul> <li>Project in advanced stage with Feasibility Study completed</li> <li>Strong environmental and social commitment</li> </ul>	<ul> <li>Strong exploration pipeline</li> <li>Ability to become a trailblazer in the Ecuadorian gold mining landscape</li> <li>Ability to develop a talented local workforce</li> </ul>
<ul> <li>Arsenic presence in the deposit</li> <li>Expensive skilled labour during market up turn</li> </ul>	<ul> <li>Turmoil in neighboring countries</li> <li>Drastic Regime Change</li> </ul>
<u>WEAKNESSES</u>	<u>THREATS</u>



# Closing Remarks

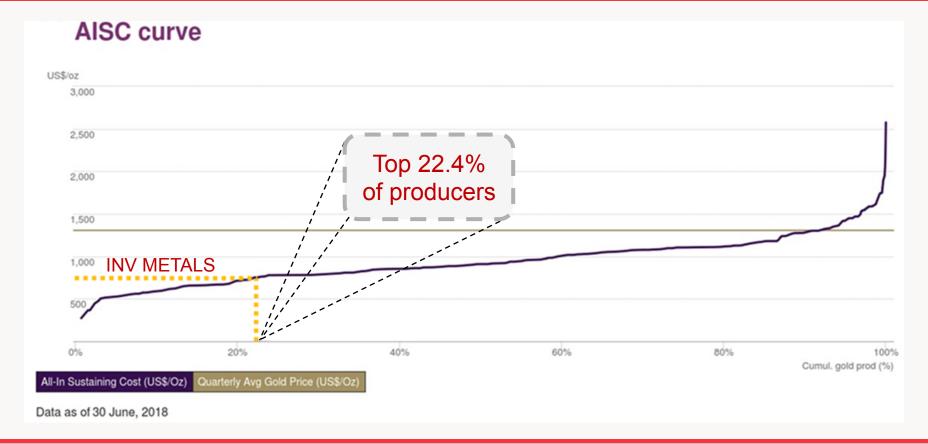
# **Question Period**







### **AISC Curve**



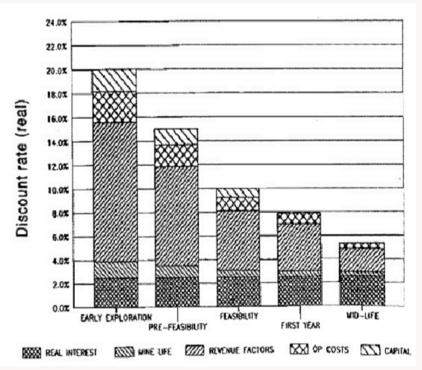


Figure. Required discount rate based on project phase



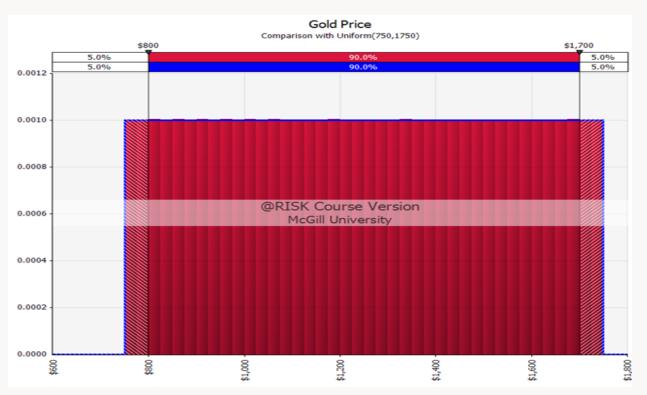


Figure: Gold price distributions based on @Risk analysis



Period (Yr)	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Timeline	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2082	2083	2034	2035	2036	2087	2038	2039	2040
Cap Bx (S M)	65.0	102.1	18.6	37.1364	37,1364	37.1364	37,1364	37.1364	0	0	0	0	0	0	0	0	0	0	185.682
Sustaing Capital (S M)			4.3	4.3	4.3	4.3	4.3	4.3	4.3	43	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	26.3
Production																			
Gold (k oz)			63.5	126.9	156.9	156.9	156.9	156.9	180.6	180.6	180.6	180.6	180.6	156.9	156.9	156.9	156.9	109.9	55.0
Silver (Moz)			0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.5	0.5
Copper(Mlb)			4.7	4.7	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	4.1	4.1
Commodity Prices																			
Gold (\$/oz)			1332.1132	1332,1132	1332.1132	1332.1132	1332.1132	1332.1132	1332.1132	1332 1132	1332.1132	1332.1132	1332 1132	1332.1132	1332.1132	1332.1132	1332.1132	1332.1132	1332.1132
Silver (\$/oz)			17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75	17.75
Copper(S/lb)			3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15	3.15
Revenues (5 M)																			
Gold			74.4	145.8	183.9	183.9	183.9	183.9	211.7	211.7	211.7	211.7	211.7	183.9	183.9	183.9	183.9	128.9	64.4
Silver			8.5	8.5	10.5	20.5	20.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	7.3	7.3
Copper			12.1	12.1	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	10.5	10.5
Total Revenues (S M)			90.2	160.9	198.9	198.9	198.9	198.9	225.3	225.3	225.3	225.3	225.3	198.9	198.9	198.9	198.9	139.4	78.2
Operating Costs (\$ M)																			
Mining Cost			13.5	27.0	33.4	33.4	33.4	33.4	38.5	38.5	38.5	38.5	38.5	33.4	33.4	33.4	33.4	23.4	11.7
Processing Cost			8.1	16.3	20.1	20.1	20.1	20.1	23.1	23.1	23.1	23.1	23.1	20.1	20.1	20.1	20.1	14.1	7.0
Gen. & Adm. Cost			3.6	7.1	8.8	8.8	8.8	8.8	10.1	10.1	10.1	10.1	10.1	8.8	8.8	8.8	8.8	6.2	3.1
Total Operating Costs (\$ M)			25.2	50.4	62.3	62.3	62.3	62.3	71.7	71.7	71.7	71.7	71.7	62.3	62.3	62.3	62.3	43.7	21.8
Operating Profit (SM)			65.0	110.5	136.6	136.6	136.6	136.6	153.5	153.5	153.5	153.5	153.5	136.6	136.6	136.6	136.6	95.7	56.3
Total Cash Costs (S M)	0	0	44.9	84.0	103.8	103.8	108.8	103.8	118.4	118.4	118.4	118.4	118.4	103.8	108.8	103.8	103.8	72.7	38.9
AISC (S M)	0.0	0.0	49.2	88.2	108.1	108.1	108.1	108.1	122.6	122.6	122.6	122.6	122.6	208.1	108.1	108.1	108.1	77.0	43.2
AISC (S/oz)	0.0	0.0	689.0	654.5	648.5	648.5	648.5	648.5	644.4	644.4	644.4	644.4	644.4	648.5	648.5	648.5	648.5	659.4	698.3
PP&ESchedule (S M)																			
Beginning Balance (5 M)	55.3	120.3	222.4	239.1	266.3	288.5	309.3	328.9	347.2	326.2	306.7	288.7	271.9	256.3	244.3	233.1	222.6	212.7	207.5
Capital Investments (5 M)	65.0	102.1	22.8	41.4	41.4	41.4	41.4	41.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	190.0
Annual Depreciation (SM)	0.0	0.0	6.2	14.2	19.2	20.6	21.9	23.1	25.3	23.7	22.3	21.0	19.8	16.3	15.5	14.8	14.2	9.5	8.7
Ending Balance (S M)	120.3	222.4	239.1	266.3	288.5	309.3	328.9	347.2	326.2	306.7	288.7	2719	256.3	244.3	233.1	222.6	212.7	207.5	388.7
Reclamation Accrual (Tax Purpx	0.0	0.0	0.6	11	1.4	1.4	1.4	1.4	1.6	1.6	16	16	1.6	1.4	1.4	14	1.4	1.0	0.5
Interest @ 10% (S M)	0.0	0.0	18.6	14.9	11.1	7.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-18.6
Pre-Tax income (5 M)	0.0	0.0	39.7	80.4	104.9	107.2	109.6	112.1	126.7	128.2	129.6	130.9	132.1	118.9	119.7	120.4	121.0	85.3	65.7
Income Tax @ 37% (\$ M)	0.0	0.0	14.7	29.7	38.8	39.7	40.5	41.5	46.9	47.A	48.0	48.4	48.9	44.0	44.3	44.5	44.8	31.5	24.3
NPI Payment @ 5% (S M)	0.0	0.0	2.0	4.0	5.2	5.4	5.5	5.6	6.3	6.4	6.5	6.5	6.6	5.9	6.0	6.0	6.1	4.3	3.3
After-Tax Income (S M)	0.0	0.0	23.0	46.6	60.8	62.2	63.6	65.0	73.5	74,4	75.2	75.9	76.6	69.0	69.4	69.8	70.2	49.4	38.1
FCF (S M)	-65.0	-102.1	6.9	20.5	40.0	42.7	45.4	48.1	96.0	95.4	94.8	94.3	93.8	82.3	82.0	81.7	81.5	55.6	-164.7
FCF (CAD M)	-81.2	-127.7	8.7	25.6	50.0	53.4	56.8	60.1	120.1	119.3	118.5	117.9	117.2	102.9	102.5	102.2	101.8	69.5	-205.8
Discounted FCF (S M)	-51.6	-72.A	4.4	11.6	20.2	19.3	18.3	17.3	30.8	27.3	24.3	21.5	19.1	15.0	13.3	11.9	10.6	6.4	-17.0
Discount Rate (%)	12%																		
NAV (S M)	130.1																		
IRR (%)	23.2%			200.0															
Payback Period (Yrs)	5.2																		
	7.0			190.0															

Figure: Cash Flow Model

