

DISTRICT-SCALE DISCOVERY POTENTIAL

Looking in the shadows of headframes

TSX-V: KLDC | US-OTC: KLKLF

DISCLAIMER



This presentation contains certain forward-looking statements within the meaning of Canadian securities legislation (the "Forward-looking Statements"). The Forward-looking Statements relate to future events or Kirkland Lake Discoveries Corp. ("Kirkland Lake Discoveries" or "KLDC"), future performance, business prospects or opportunities. Any statements that express or involve discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions or future events or performance (often, but not always, using words or phrases such as "seek", "anticipate", "plan", "continue", "expect", "forecast", "may", "will", "project", "predict", "potential", "targeting", "intend", "could", "might", "should", "believe", "outlook" and similar expressions) are not statements of historical fact and may be Forward-looking Statements.

Forward-looking Statements in this presentation include, but are not limited to, statements with respect to KLDC's future plans and exploration programs, including the timing of such plans and programs, and the merits of KLDC's mineral properties.

Although Kirkland Lake Discoveries believes that these Forward-looking Statements are based on reasonable assumptions, all Forward-looking Statements involve known and unknown risks, uncertainties and other factors that may cause the actual results, performance, achievements, events, or circumstances of KLDC to be materially different than expressed or implied by the Forward-looking Statements. Such risks include, among others, uncertainties related to fluctuations in metal prices; uncertainties inherent in the exploration of mineral properties; risks associated with the interpretation of drilling results and other tests; changes in planned work resulting from weather, logistical, technical or other factors; the possibility that results of work will not fulfill expectations and realize the perceived potential of KLDC's mineral properties; the possibility that required permits may not be obtained in a timely manner or at all; risk of accidents, equipment breakdowns or other unanticipated difficulties or interruptions; the possibility of cost overruns or unanticipated expenses in work programs; the risk of environmental contamination or damage resulting from the exploration operations; the need to comply with environmental and governmental regulations; and the availability, or lack thereof, of capital and financing.

These Forward-looking Statements speak only as of the date of this presentation. Except as required by applicable securities laws, KLDC undertakes no obligation to update these Forward-looking Statements if management's beliefs, estimates or opinions, or other factors, should change.

Qualified Person

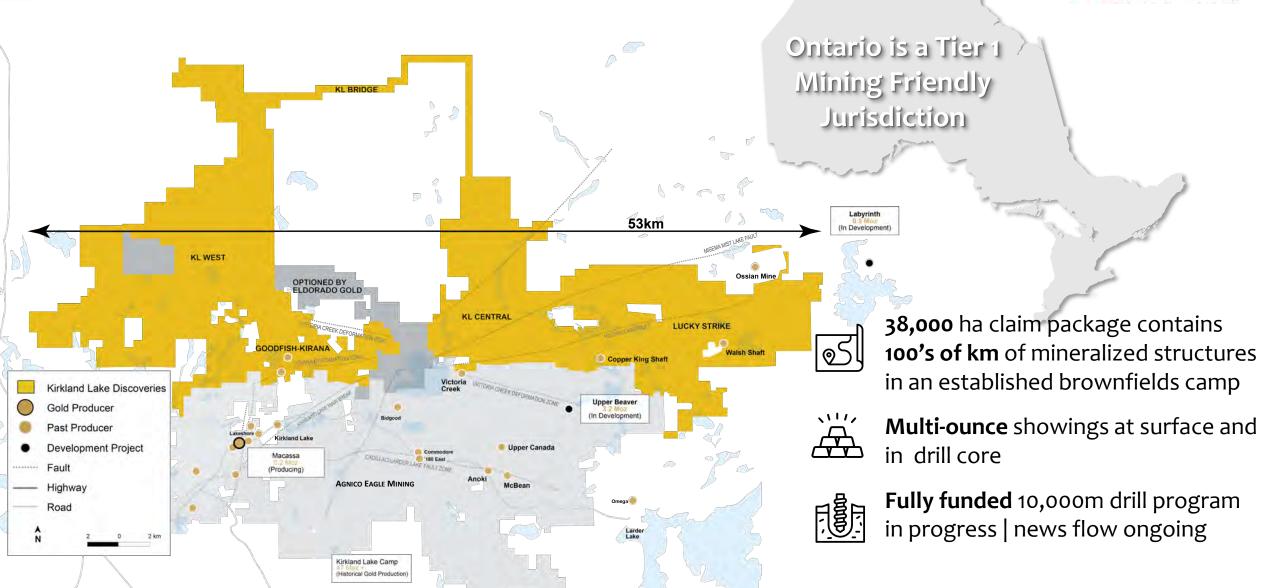
Mike Kilbourne, P. Geo., a qualified person as defined in National Instrument 43-101, has reviewed and approved the technical content of this presentation on behalf of the Company.

For more information on Kirkland Lake Discoveries, readers should refer to KLDC's website at www.kirklandlakediscoveries.com.

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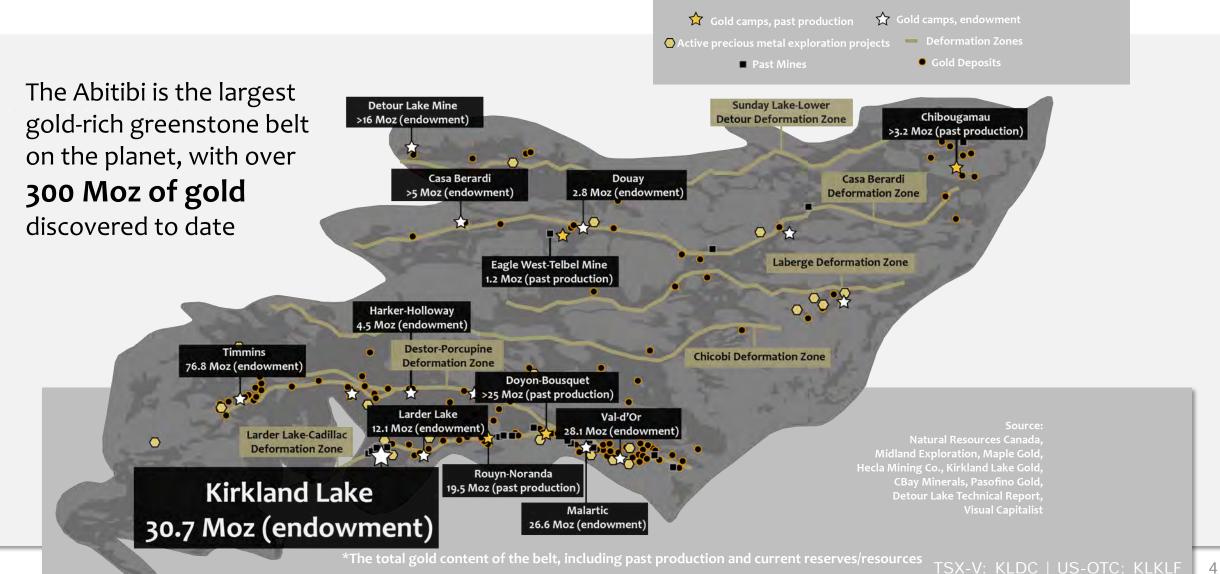
FULLY FUNDED 10,000M DRILL PROGRAM IN BROWNFIELDS CAMP

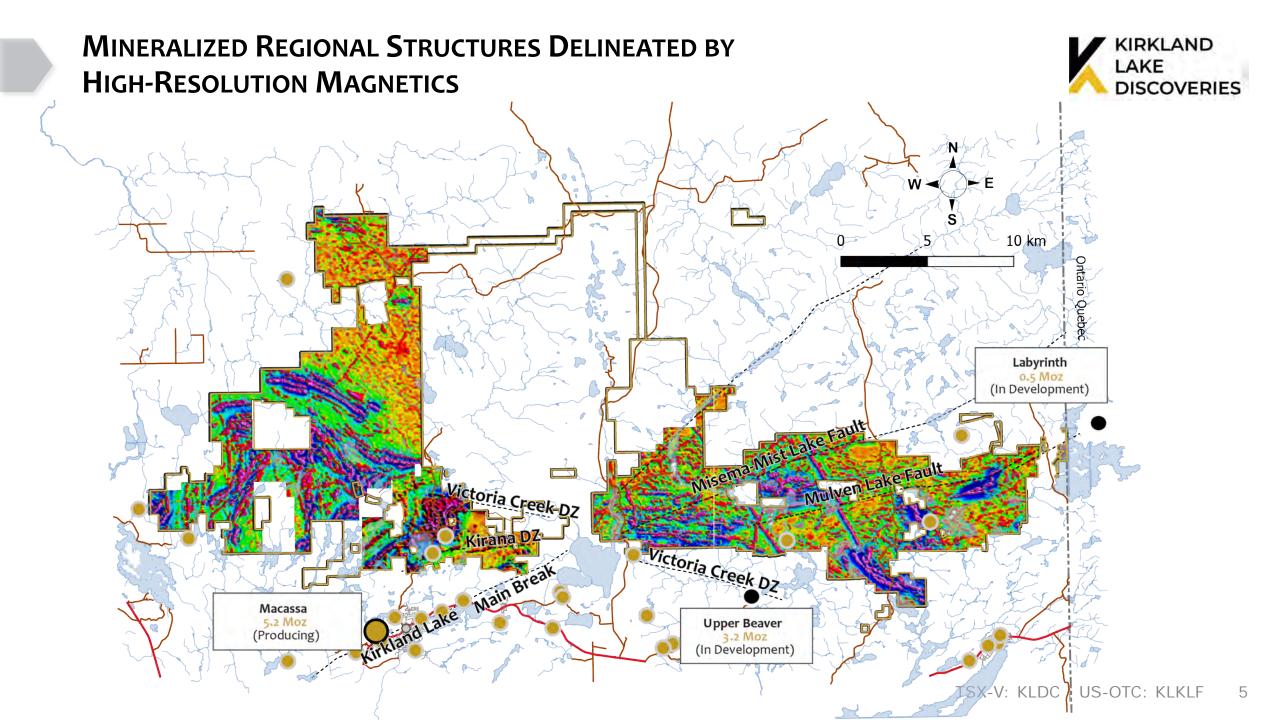


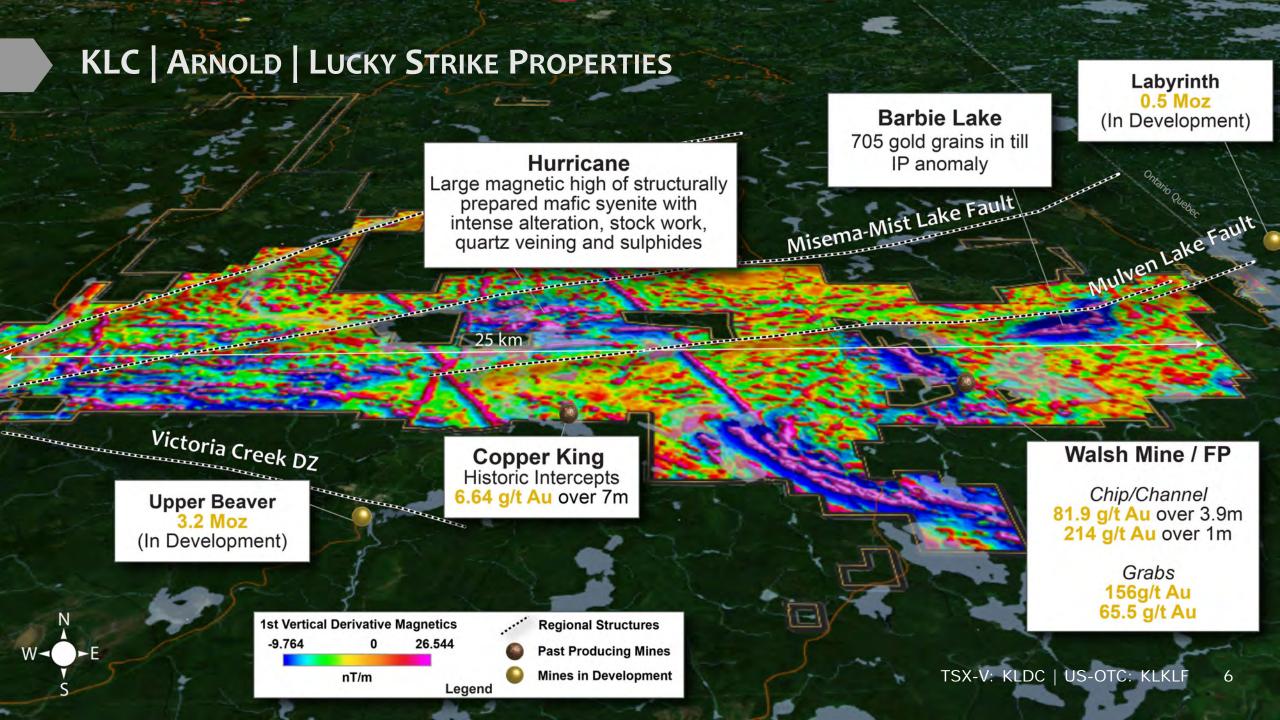


REMARKABLE GEOLOGICAL SETTING









2023 EXPLORATION PROGRAM | LUCKY STRIKE



Completed



High-resolution 50m – 100m spaced airborne geophysics – ~2,100 line kilometres



Site visit by ALS GoldSpot Structural Geologist



Ongoing



Mapping, sampling & prospecting



Geophysical/Structural Interpretation – ALS GoldSpot



Drilling permits

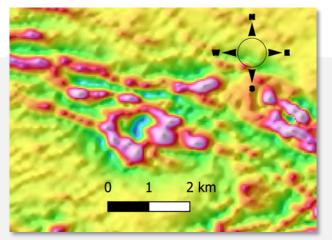


Pending

Planning of 4,000m diamond drilling

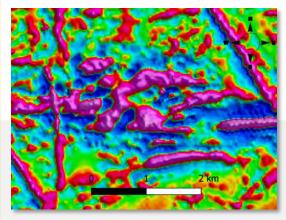
UPPER BEAVER 2.0?

AGNICO EAGLE



Regional 1st Vertical Derivative over Agnico's Upper Beaver Deposit

- Oval-shaped magnetic low feature surrounded by a magnetic high response
- Mineralization at Upper Beaver "Is associated with minor to pervasive alteration which includes feldspar, epidote, carbonate, sericite, silica and magnetite with trace hematite" Queenston Mining, Upper Beaver Gold Copper Deposit Preliminary Economic Assessment 8.1 Mineralization pg. 30 03.30.2012



1st Vertical Derivative, 50 m spacing over KLDC's Hurricane Target



Grab samples from 2023 field exploration program at Hurricane Target





- A series of areas dominated by syenite intrusives.
- 2023 sample and mapping notes

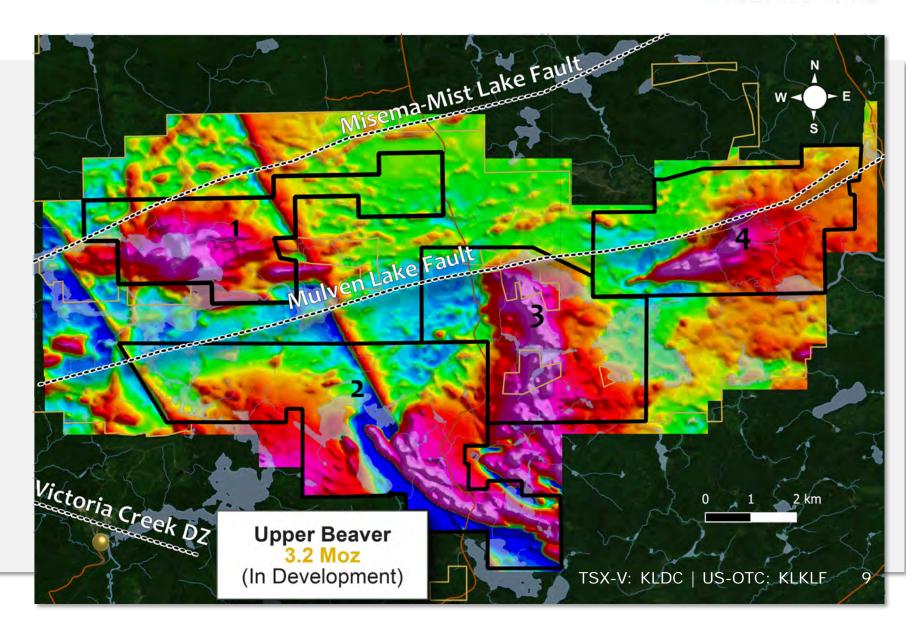
 altered silicously with bright
 green epidote, minor
 chalcopyrite, and magnetite.

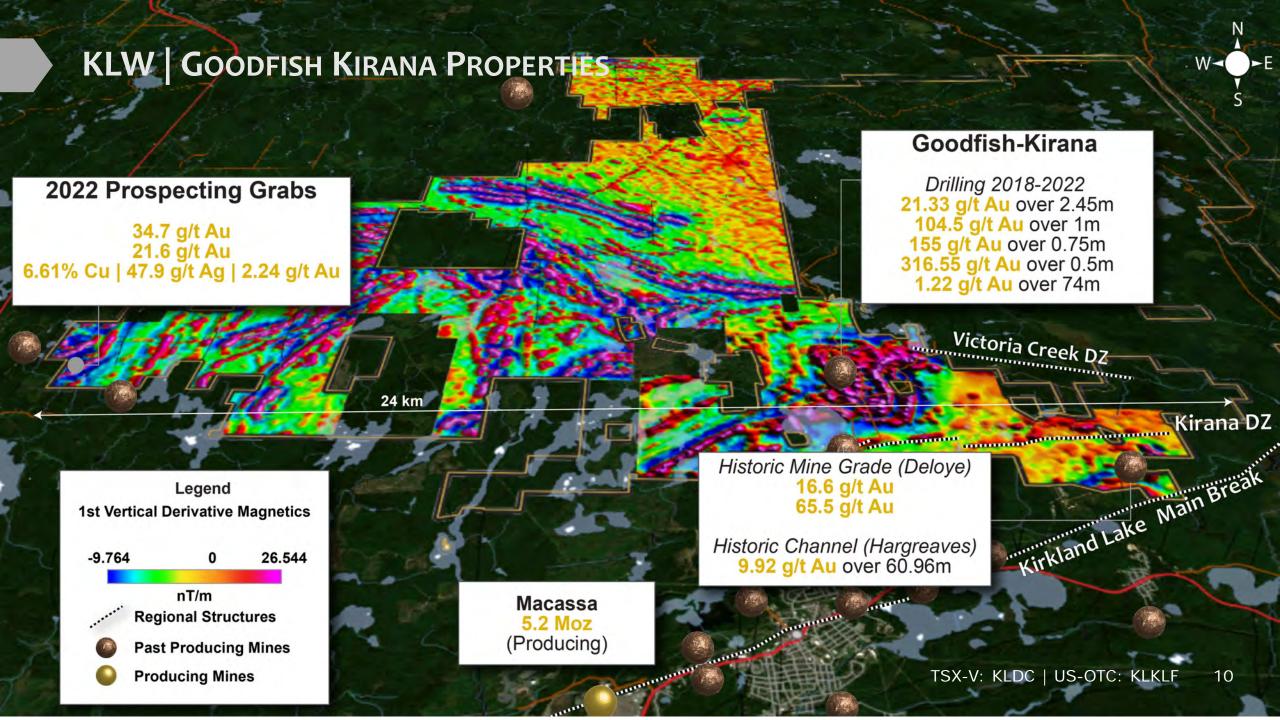
 This silicified rock sample
 contains a well-developed
 stockwork complex. There is
 abundant disseminated pyrite –
 assays are pending

Phase 2 – 4,000m Diamond Drilling Program



- Permits covering 4 areas of Lucky Strike Property
- Areas selected for permitting utilize existing infrastructure for expedited issuance
- Ongoing field data collectionrefining drill targeting
- Drilling will test surface mineralization, structural features, and geophysical anomalies at depth





HIGH-GRADE OROGENIC GOLD



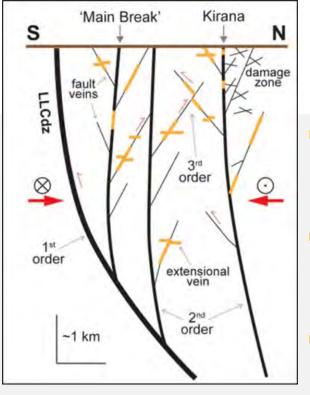


Examples of high-grade orogenic gold found at Macassa Mine



AGNICO EAGLE

- The Macassa mine, located in the Town of Kirkland Lake, Ontario, remains one of the highest-grade gold mines in the world. Since its initial discovery in the area in 1911, gold has been a staple in the town's history.
- The gold mineralization at Macassa is found along breaks or faults, in veins as quartz-filled fractures, as breccias, and as sulphide rich (pyrite) zones.*

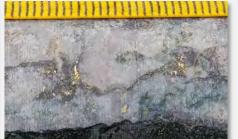


Ben Frieman 2019



- 88% of drilling completed from 2018-2021 intercepted anomalous and high-grade gold
- Mineralization is associated with structures and sulphide mineralization
- Kirana DZ, like the Main Break, is a 2nd order structure off the Larder Lake Cadillac Deformation Zone







Examples of high-grade orogenic gold found in drill core at the Goodfish Kirana Property

PHASE 1 DRILLING | SUMMER 2023

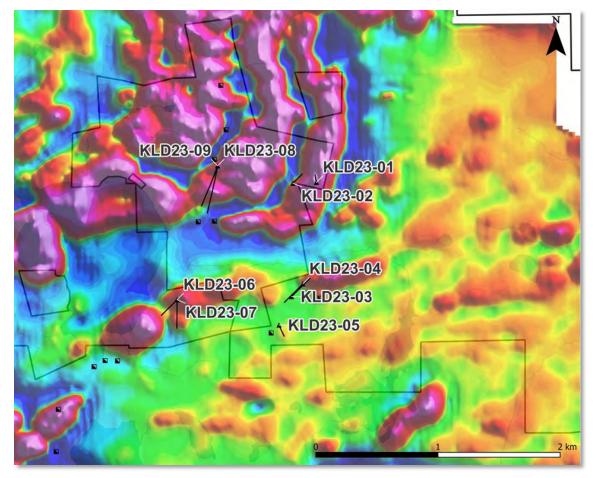


Target Area	Planned DDH	Planned Meters	Priority Meters	DDH Completed	Meters Completed
Area 17	3	1010	680	2	285+399
Area 2	4	1585	600	2	351+339
Area 8	5	1085	405	2	147+129
Chorzepa	2	560	280	1	204
Jo	2	1115	485	2	558+564
Jo-S	2	610	380	0	0
Total		5965	2830	9	2991



Drill targets selected:

1) Au values, 2) Structure, 3) Geophysical significance



- Drilling completed 5 weeks start to finish
- Results expected mid-October

PHASE 3

Up to 3,000 m of follow-up drilling based on results of Phases 1 & 2



CAPITAL STRUCTURE



88.6M

Shares Outstanding

1.98M

Options | avg. \$.305

32M

Warrants | avg. \$.39



3% 6%

9.7%

29.1%

High Net Worth and Retail

52.2%





\$5.75M

Working Capital

Capital structure as of August 17, 2023

TSX-V: KLDC | US-OTC: KLKLF

EXPERIENCED BOARD OF DIRECTORS





Denis Laviolette

Founder, Non-Executive Chairman

Mr. Laviolette has over 15 years of experience in mining and capital markets; worked as a production and exploration geologist in Northern Ontario (Timmins, Kirkland Lake and Red Lake), Norway and Ghana. Later worked as a mining analyst with Pinetree Capital. Founder, Director and Executive Chairman of EarthLabs Inc. (formerly GoldSpot Discoveries Corp.) (TSX.V: SPOT); Co-Founder, Director and President of New Found Gold Corp. (TSX. V: NFG); and serves as a Director for Xtra-Gold Resources Corp. (TSE: XTG) and Radio Fuels Energy Corp. (CNSX: CAKE).





Danièle Spethmann

Founder, President, CEO & Director

Ms. Spethmann has over 30+ years' experience in northern Ontario, Canada and internationally in Latin American and Botswana including senior geologist and principal on two projects with significant discoveries (Choco 10 - Carolina Zone and Fruta del Norte) in Venezuela and in Ecuador, Companies she has worked with include IAMGOLD, African Copper, Aurelian Resources and Bolivar Goldfields. Ms. Spethmann studied geology at the University of Ottawa and recently completed the Mining Management Certificate at Ryerson University. She is a member of the Association of Professional Geoscientists Ontario





Gary Nassif

Director

Mr. Nassif is a professional geologist with 25+ years' experience in gold, base-metal and diamond exploration in Canada, United States and sub-Saharan Africa. He is the former Senior Vice President of Jerritt Canyon Gold, previously privately owned by Sprott Mining Inc. and recently acquired by First Majestic Silver Corp. He is also President & CEO of Argentum Silver Corp., a TSX-V listed explorer, and a director of Inventus Mining. He was previously Manager of Exploration Services for Kerr Mines, Northern Gold Mining, and Trelawney Mining & Exploration prior to its sale to IAMGOLD for \$608 million in 2012.





Steve Burleton

Director

Mr. Burleton has +25 years' experience in capital markets, the investment banking industry, corporate development and strategy. He was most recently the President and CEO of GT Gold, and prior to this, VP of Business Development at Richmont Mines Inc. which was acquired in 2017 by Alamos Gold Inc. for US\$770 million. Steve has worked extensively in the Canadian investment banking industry, including positions of Managing Director of Investment Banking at Wellington West Capital Markets Inc. and at Scotia Capital Inc. Steve is a CFA charter holder, has an MBA from York University and holds an ICD.d designation from the Rotman School of Management.





Christina McCarthy

Director

Ms. McCarthy is a geologist with over 15 years of experience in the resource capital markets. Ms. McCarthy is the former President and CEO of Paycore Minerals Inc., recently acquired by i-80 Gold Corp for \$90 million. She previously held the position of Vice President of Corporate Development for New Oroperu Resources Inc., which was acquired by Anacortes Mining Corp. in 2021. Ms. McCarthy served as Director of Corporate Development for McEwen Mining from 2014 to 2019. She spent the past 15 years in various roles, including management and board roles, equity research at Euro Pacific, and Institutional Sales at Haywood Securities, as well as building an exempt market dealer focusing on resources.





Vincent Dubé-Bourgeois

Director

Vincent Dubé-Bourgeois is Co-Founder and President of EarthLabs Inc. and a board member at Harfang Exploration Inc. Under his leadership, EarthLabs sold the ExplorTech Division, including GoldSpot Discoveries, to ALS Limited for \$30 million. In 2015, at the Integra Gold Rush Challenge, Mr. Dubé-Bourgeois combined his machine learning and geology expertise to lead his team successfully to a share of the \$1 million prize. Mr. Dubé-Bourgeois was previously with the Ontario Geological Survey and Noront Resources Ltd. He holds a BSc in Geology from the University of Ottawa and is recognized for innovative contributions to data science and geoscience, particularly in mineral exploration.



GREAT INVESTMENT OPPORTUNITY

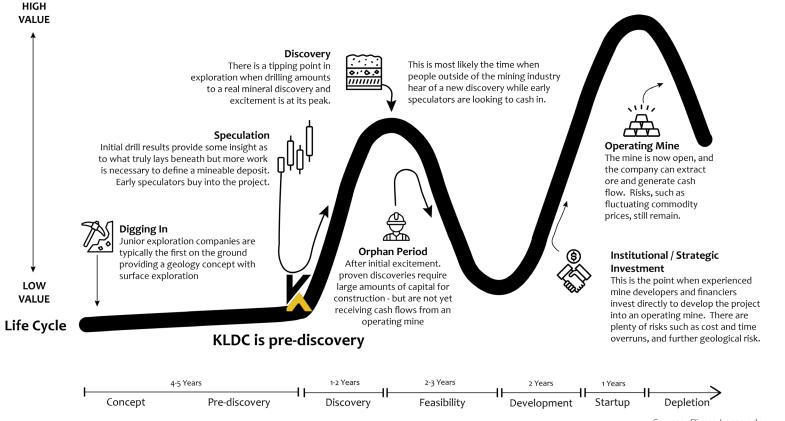




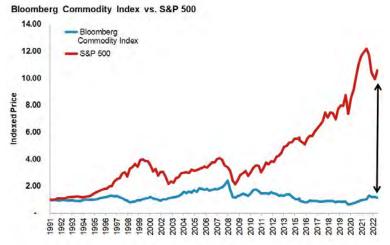
KLDC is pre-discovery and fully funded for 10,000 m of drilling in an established brownfields camp in a tier-1 jurisdiction



Market indicators are pointing to a mining stock correction







Source: Capital IQ



FOR MORE INFORMATION

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