



# THE FLAT GOLD PROJECT

ALASKA'S NEXT TIER 1 OPPORTUNITY

**TECTONIC**  
METALS INC.

## INVESTOR PRESENTATION

TSX-V: TECT | OTCQB: TETOF | FSE: T15B

MARCH 2024

# FORWARD LOOKING STATEMENT AND NATIONAL INSTRUMENT 43-101 COMPLIANCE

All statements in this presentation, other than statements of historical fact, are "forward-looking statements" or "forward looking information" with respect to Tectonic Metals Inc. (the "Company") within the meaning of applicable securities laws, including statements that address pro forma capitalization tables, the size and use of proceeds of any proposed financings, the discovery and development of gold deposits, potential size of a mineralized zone, potential expansion of mineralization and timing of exploration and development plans. Forward-looking information is often, but not always, identified by the use of words such as "seek", "anticipate", "plan", "continue", "planned", "expect", "project", "predict", "potential", "targeting", "intends", "believe", and similar expressions, or describes a "goal", or variation of such words and phrases or state that certain actions, events or results "may", "should", "could", "would", "might" or "will" be taken, occur or be achieved. Forward-looking information is not a guarantee of future performance and is based upon a number of estimates and assumptions of management at the date the statements are made including, among others, assumptions regarding timing of exploration and development plans at the Company's mineral projects; timing and completion of proposed financings; timing and likelihood of deployment of additional drill rigs; successful delivery of results of metallurgical testing; the release of an initial resource report on any of our properties; assumptions about future prices of gold, copper, silver, and other metal prices; currency exchange rates and interest rates; metallurgical recoveries; favourable operating conditions; political stability; obtaining governmental approvals and financing on time; obtaining renewals for existing licences and permits and obtaining required licences and permits; labour stability; stability in market conditions; availability of equipment; accuracy of historical information; successful resolution of disputes and anticipated costs and expenditures. Many assumptions are based on factors and events that are not within the control of the Company and there is no assurance they will prove to be correct.

Such forward-looking information involves known and unknown risks, which may cause the actual results to be materially different from any future results expressed or implied by such forward-looking information, including, but not limited to, the cost, timing and success of exploration activities generally, including the development of new deposits; possible variations in grade or recovery rates; failure of equipment or processes to operate as anticipated; the failure of contracted parties to perform; uses of funds in general including future capital expenditures, exploration expenditures and other expenses for specific operations; the timing, timeline and possible outcome of permitting or license renewal applications; government regulation of exploration and mining operations; environmental risks; the uncertainty of negotiating with foreign governments; expropriation or nationalization of property without fair compensation; adverse determination or rulings by governmental authorities; delays in obtaining governmental approvals; possible claims against the Company; the impact of archaeological, cultural or environmental studies within property areas; title disputes or claims; limitations on insurance coverage; the interpretation and actual results of historical operators at certain of our exploration properties; changes in project parameters as plans continue to be refined; current economic conditions; future prices of commodities; and delays in obtaining financing. The Company's forward-looking information reflect the beliefs, opinions, and projections on the date the statements are made. The Company assumes no obligation to update forward-looking information or beliefs, opinions, projections, or other factors, should they change, except as required by law.

The Company makes no representation or warranty regarding the accuracy or completeness of any historical data from prior exploration undertaken by others other than the company and has not taken any steps to verify, the adequacy, accuracy or completeness of the information provided herein and, under no circumstances, will be liable for any inaccuracies or omissions in any such information or data, any delays or errors in the transmission thereof, or any loss or direct, indirect, incidental, special or consequential damages caused by reliance on this information or the risks arising from the stock market.

Prospective investors should not construe the contents of this presentation as legal, tax, investment, accounting or other advice. Prospective investors are urged to consult with their own advisors with respect to legal, tax, regulatory, financial, accounting and other such matters relating to their investment in the Company.

The Company securities have not been approved or disapproved by the U.S. Securities and Exchange Commission or by any state, provincial or other securities regulatory authority, nor has the U.S. Securities and Exchange Commission or any state, provincial or other securities regulatory authority passed on the accuracy or adequacy of this presentation. Any representation to the contrary is a criminal offense.

The Company is incorporated under the laws of British Columbia, Canada. Many of the Company's assets are located outside the United States and most or all of its directors and officers are residents of countries other than the United States. As a result, it may be difficult for investors in the United States to effect service of process within the United States upon the Company or such directors and officers, or to realize in the United States upon judgments of courts of the United States predicated upon civil liability of the Company and its directors and officers under the United States federal securities laws.

Peter Kleespies, M.Sc., P.Geo, Vice President for Tectonic Metals Inc, is the Qualified Person for the Company as defined by National Instrument 43-101, and is responsible for reviewing and approving the scientific and technical content of all materials publicly disclosed by Tectonic, including the contents of this presentation.



# TECTONIC DIFFERENTIATORS



## Indigenous Shareholders

Strategic investments > \$3.5M into Tectonic by Leading For-profit Native Regional Corporation - Doyon



## Target Mining Opportunities NOT Drill Plays

## Strong Supportive Shareholders

Crescat 22% Ownership

15% Tectonic Team & Other Resource Funds



## Business Model

Exercise discipline, 3 year plan with every project.

De-risking approach upfront  
Full-Scale Production / IBA / ESG  
Agreements on Projects



## Proven, Dedicated & Focused Team

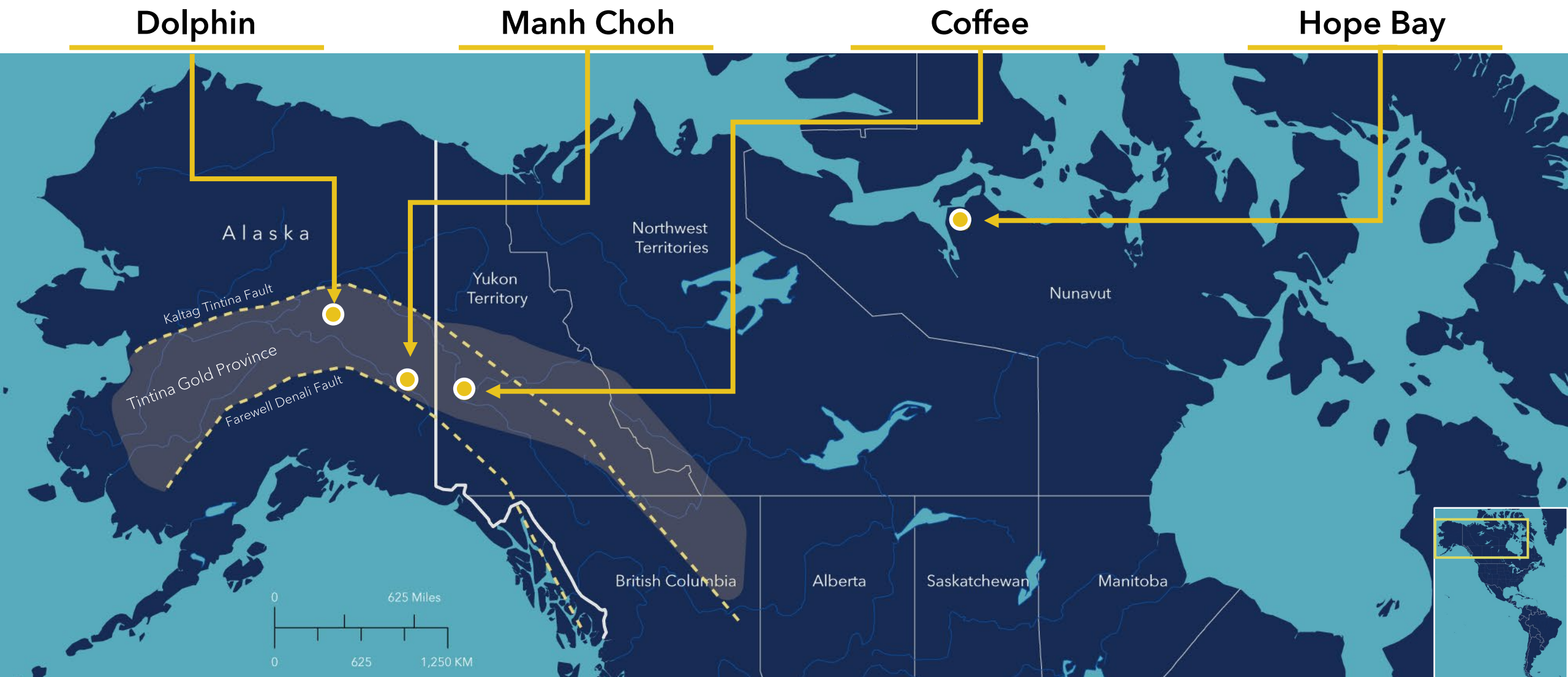
Diverse skill set from Exploration through to Mining, ESG, M&A, Capital Markets and Finance



## Tier One Potential Projects

# EXTENSIVE TRACK RECORD OF SUCCESS

MORE THAN **35 MILLION OZ** IN GOLD DISCOVERIES INVOLVING THE TECTONIC TEAM



# THE TECTONIC BUSINESS MODEL

EXERCISE DISCIPLINE - LINEAR THREE-YEAR EXPLORATION PLAN - EXECUTION

### Tier 1 Opportunities

- ▶ Minimum 5 million oz AU potential
- ▶ Lowest quartile operating costs
- ▶ Secure land tenure
- ▶ Stable jurisdictions



Apply Tectonic's Economic Mine Formula	
Grade	Geology
Scale	
Metallurgy and Mineral Processing	Engineering
Mining Method	
Land Tenure	ESG
Permits and Benefit Agreements	
Accessibility	Infrastructure
Energy	



# TECTONIC & DOYON MILESTONE PARTNERSHIP

STRATEGIC INVESTMENTS AND PROJECT AGREEMENTS WITH ALASKA NATIVE REGIONAL CORPORATION

TECTONIC  
METALS INC.

## DOYON LTD.

- ▶ One of Alaska's largest Native Regional Corporations
- ▶ Largest private landholder in Alaska (one of the largest in the USA) with 12.5M acres of land selected mostly on the basis of mineral prospectivity, including the Flat Gold Project
- ▶ Over 20,000 shareholders
- ▶ 20-year history of mineral, oil and gas exploration agreements with both junior and senior companies

## TECTONIC & DOYON MILESTONE PARTNERSHIP

- ▶ Strategic investments >CA\$3.5 million by Doyon into Tectonic
- ▶ Doyon is currently Tectonic's second largest shareholder
- ▶ Innovative Discovery-to-Production, ESG/IBA Lease Agreements signed on multiple projects



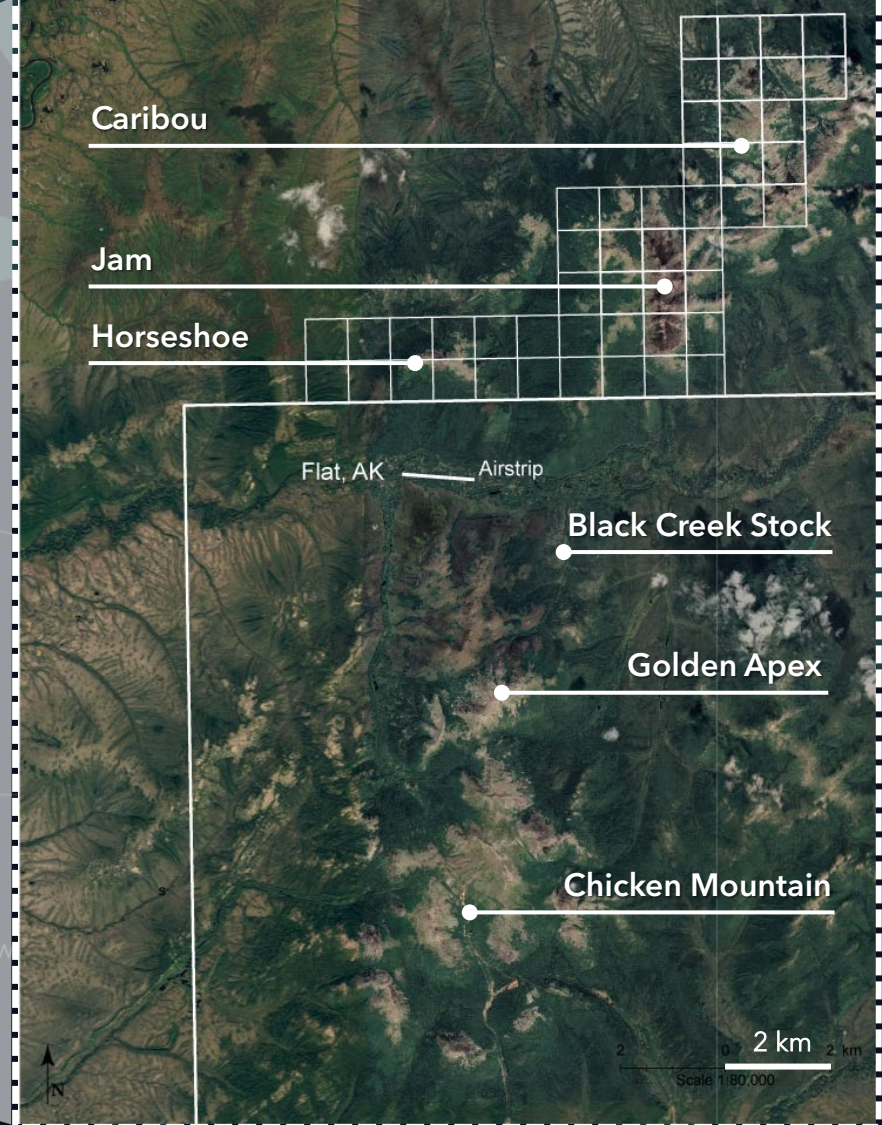
Geology

Engineering

ESG

Infrastructure





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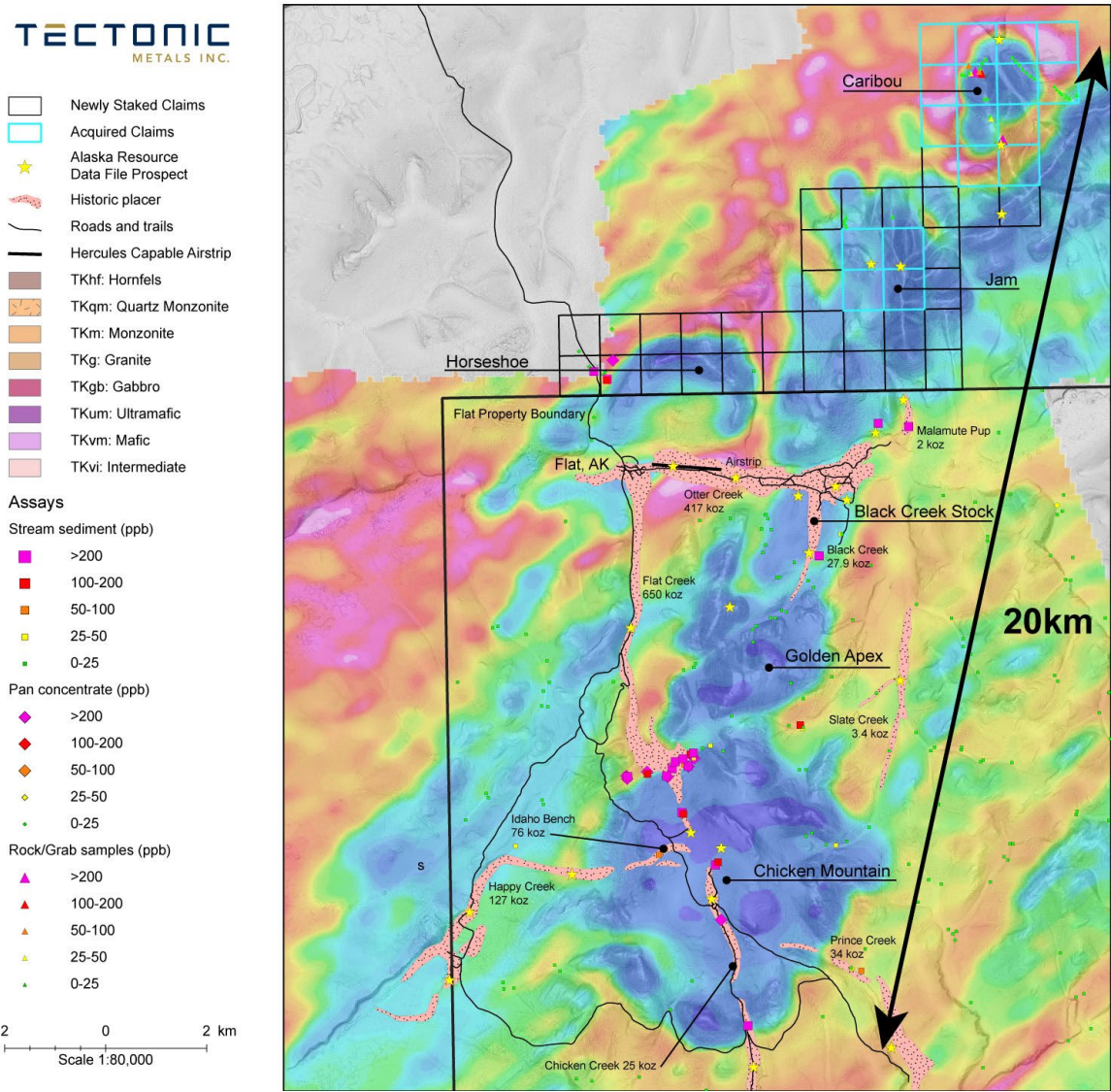
## THE FLAT GOLD SYSTEM

- ▶ 6 CONFIRMED AND POTENTIAL INTRUSIONS
- ▶ CHICKEN MOUNTAIN - BULK OPEN PIT HEAP LEACH OPPORTUNITY



# THE FLAT GOLD SYSTEM

20KM "STRING-OF-PEARLS" GEOPHYSICAL TREND WITH SIX CONFIRMED AND POTENTIAL INTRUSIONS



Intrusion Target	Intrusion Status	Area of Geophysical Anomaly	Known, Recorded Placer Production from Drainages in Immediate Vicinity <sup>1</sup>
Caribou	Potential	1.7 km x 2.1 km	N/A
Jam	Potential	3.4 km x 5.5 km	419,000 oz (Otter and Malamute Pup)
Horseshoe	Potential	3.0 km x 2.0 km	417,000 oz (Otter Creek)
Black Creek Stock	Confirmed	1.5 km x 1.5 km	445,000 oz (Otter and Black Creek)
Golden Apex	Potential	2.5 km x 2.5 km	682,000 oz (Flat, Slate, Black Creeks)
Chicken Mountain	Confirmed	6.5 km x 5.6 km	954,000 oz (Flat, Happy, and others)



# THE FLAT GOLD SYSTEM

20KM "STRING-OF-PEARLS" GEOPHYSICAL TREND WITH SIX CONFIRMED AND POTENTIAL INTRUSIONS



## Assays

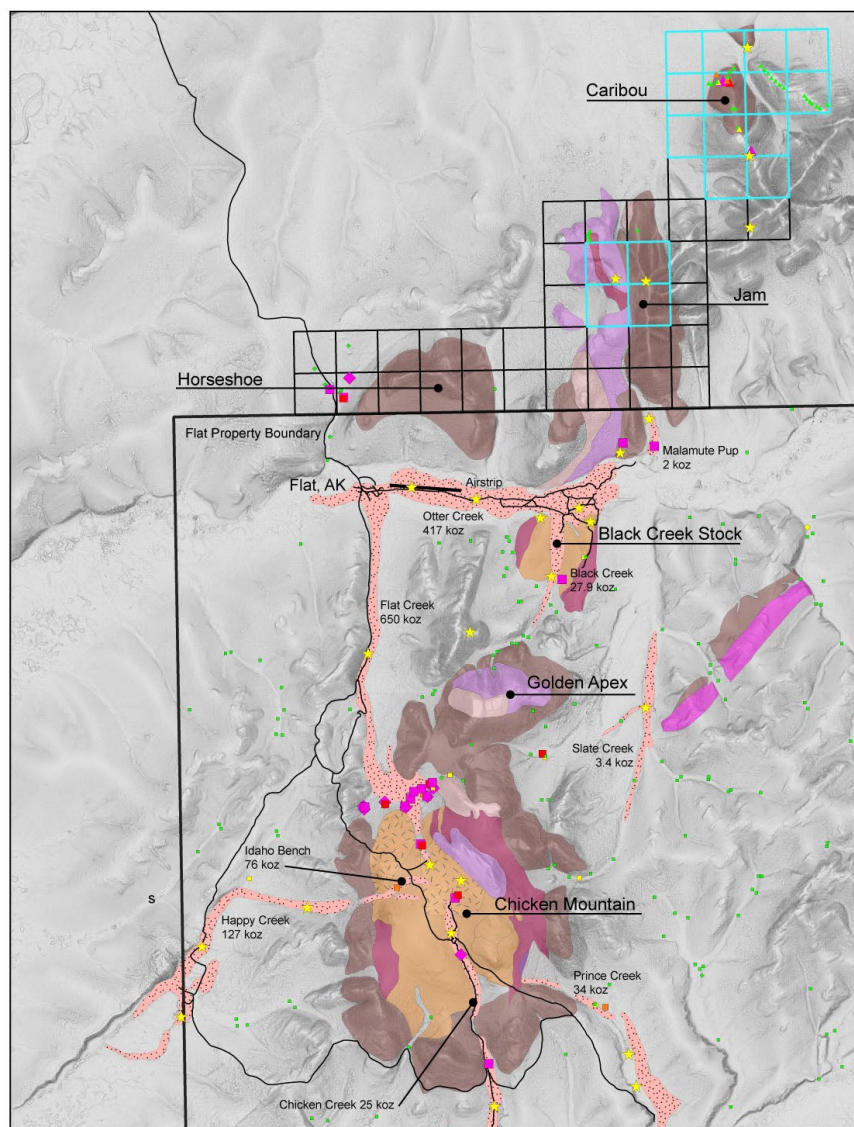
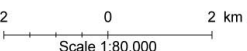
### Stream sediment (ppb)



### Pan concentrate (ppb)



### Rock/Grab samples (ppb)

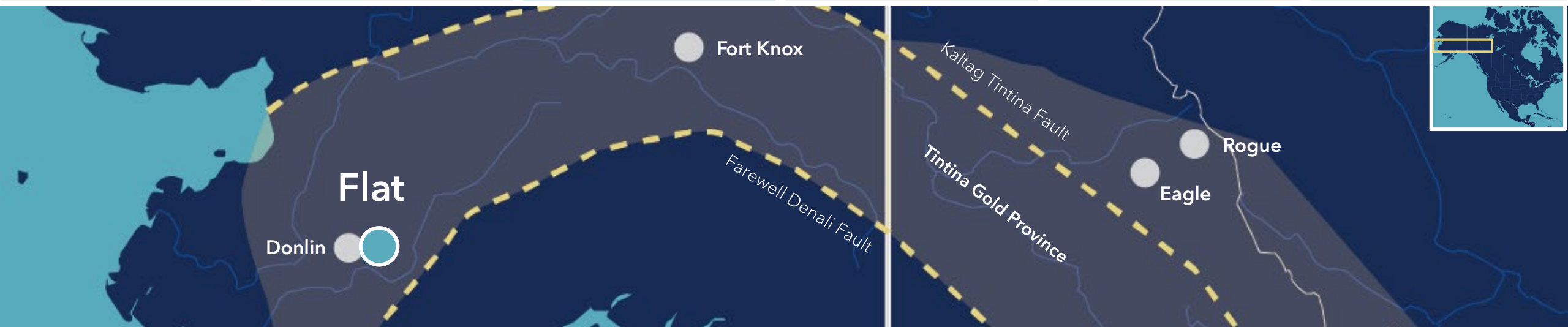


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# BULK TONNAGE INTRUSION-RELATED TINTINA GOLD SYSTEMS

## NOTABLE ANALOGUE MINES & PROJECTS IN TINTINA GOLD PROVINCE

Project	Donlin <sup>1</sup>	Flat	Fort Knox <sup>2</sup>	Eagle <sup>3</sup>	Rogue <sup>4</sup>
Company	Barrick & Novagold	Tectonic Metals	Kinross	Victoria Gold	Snowline
Production History	30,000 oz (Placer)	1.4 million oz (Placer)	8.2 million oz	448,000 oz	-
Resource (Measured and Indicated - incl 2P)	39 million oz	Discovery Stage	3.0 million oz	4.3 million oz	Discovery Stage
Mining & Processing	Open pit, refractory	Target: open pit, heap leach	Open pit, heap leach	Open pit, heap leach	Target: Open pit free milling
Average Grade	2.24 g/t	-	0.30 g/t	0.65 g/t	-
Recovery	90%	96% (preliminary)	81-83%	68-79%	88%-96% (preliminary)

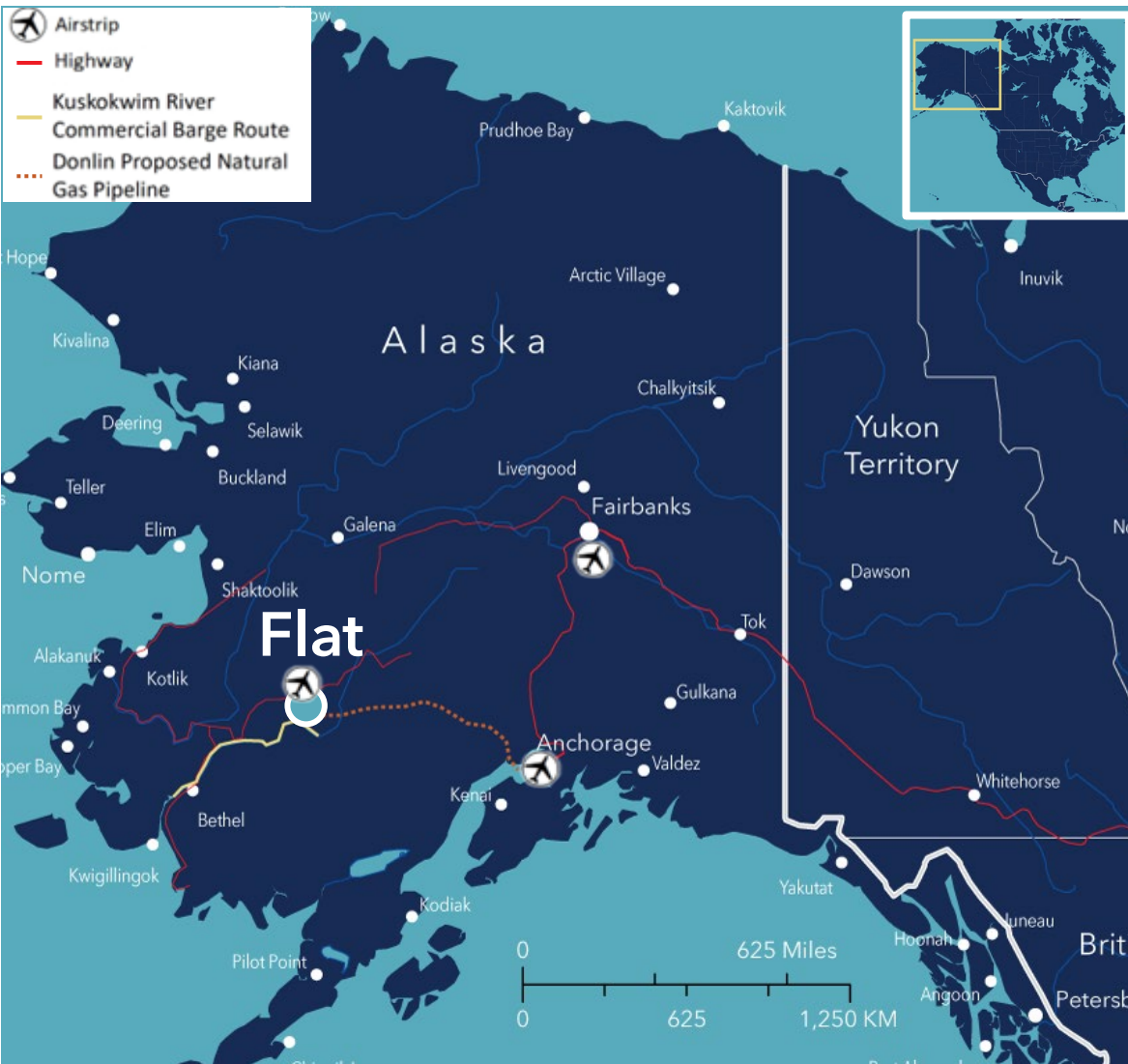


1) [Donlin 2021 NI 43-101 Technical Report](#). Tonnage: 541,337kt at 2.24g/t Au. Measured & Indicated: 39,007koz Au. Assuming an average recovery of 89.5% and average 5% grade of 1.07, the marginal gold cut-off grade is 0.47 g/t. Gold price of \$1,200/oz is assumed. 2) [Dec. 31, 2022 Annual Mineral and Resource Statement](#). Proven & Probable Mineral Reserves 1,935koz Au. Mineral Resources are estimated at a cutoff grade of 0.30 g/t Au. 3) [2023 Eagle Gold Mine NI 43-101 Technical Report](#). Proven and Probable Mineral Reserves total 118M t at 0.65 g/t Au, containing 2,407k oz Au. The current Eagle Zone Mineral Resources are reported as in-pit resources at a cut-off grade of 0.20 g/t Au. Gold price of \$1,550/oz is assumed. 4) [2020 NI 43-101 Technical Report](#). Recovery based on [Metallurgical testing](#).



# EXISTING AND NEARBY LOCAL INFRASTRUCTURE

## TICKING THE BOXES ON INFRASTRUCTURE

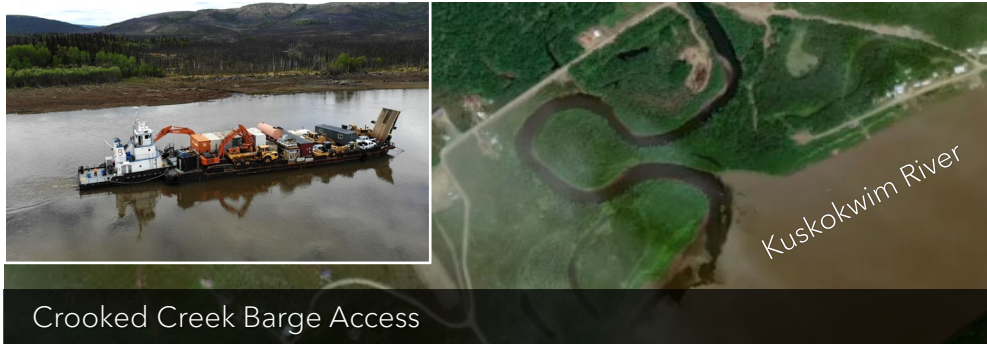
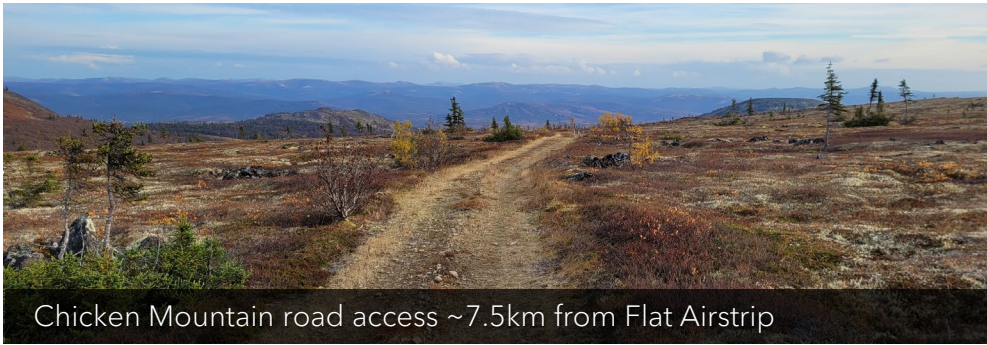
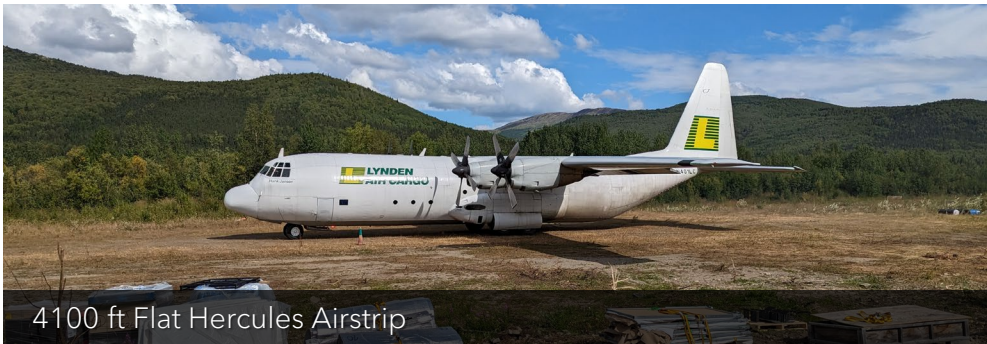
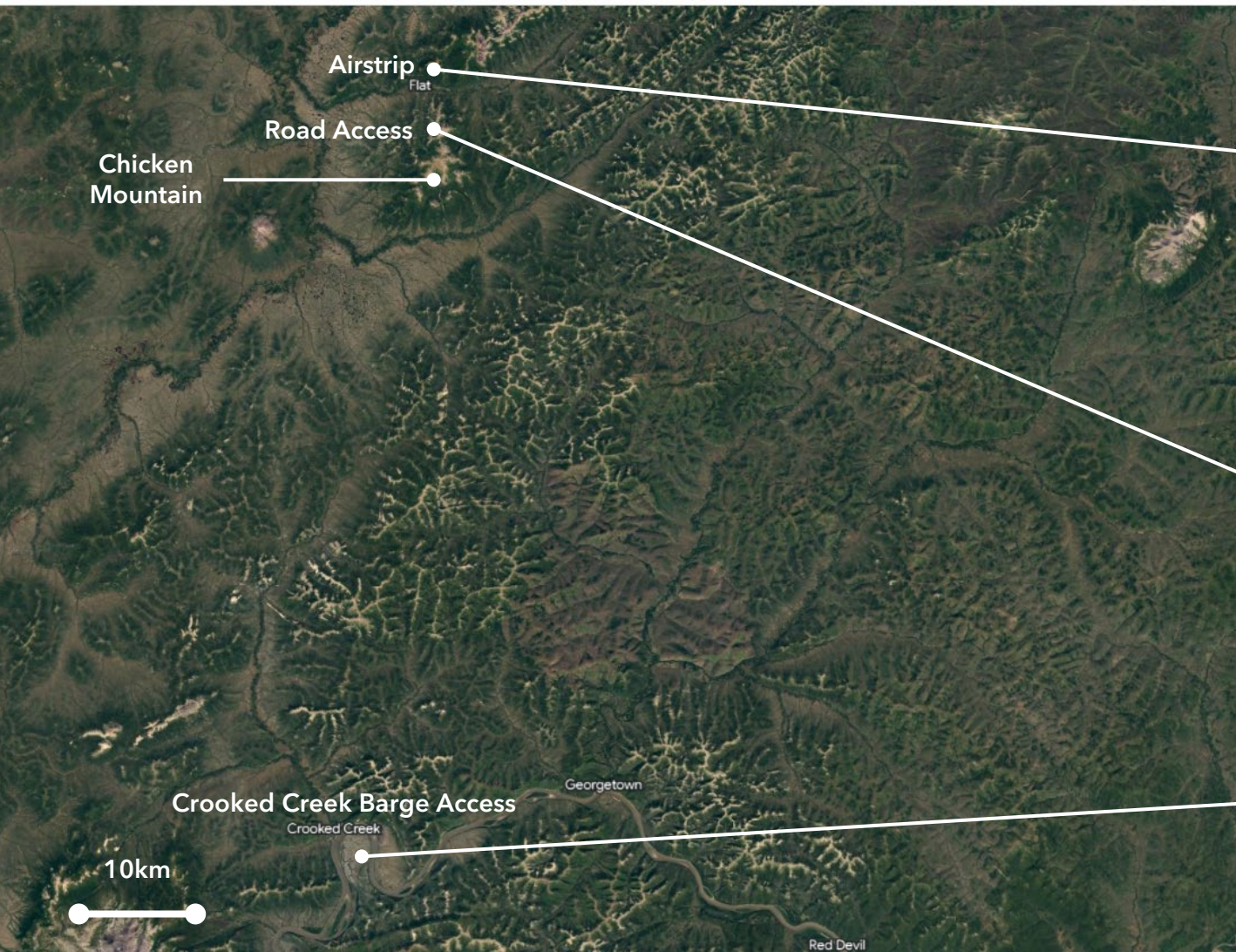


- ▶ **On-site 4,100 ft Flat airstrip**
  - ▶ Hercules (48,000 lbs payload) capable
- ▶ **Road access** from airstrip to mineralized zones
- ▶ **Commercial river barge access**
  - ▶ Kuskokwim river barge open 6 months out of the year
  - ▶ Winter trail from Crooked Creek to Flat
- ▶ **Permitted natural gas pipeline**
  - ▶ Donlin natural gas pipeline in close proximity



# FLAT ONSITE AND NEARBY INFRASTRUCTURE

ROADS TO MINERALIZED ZONES, ONSITE HERCULES AIRSTRIP, COMMERCIAL BARGE ACCESS







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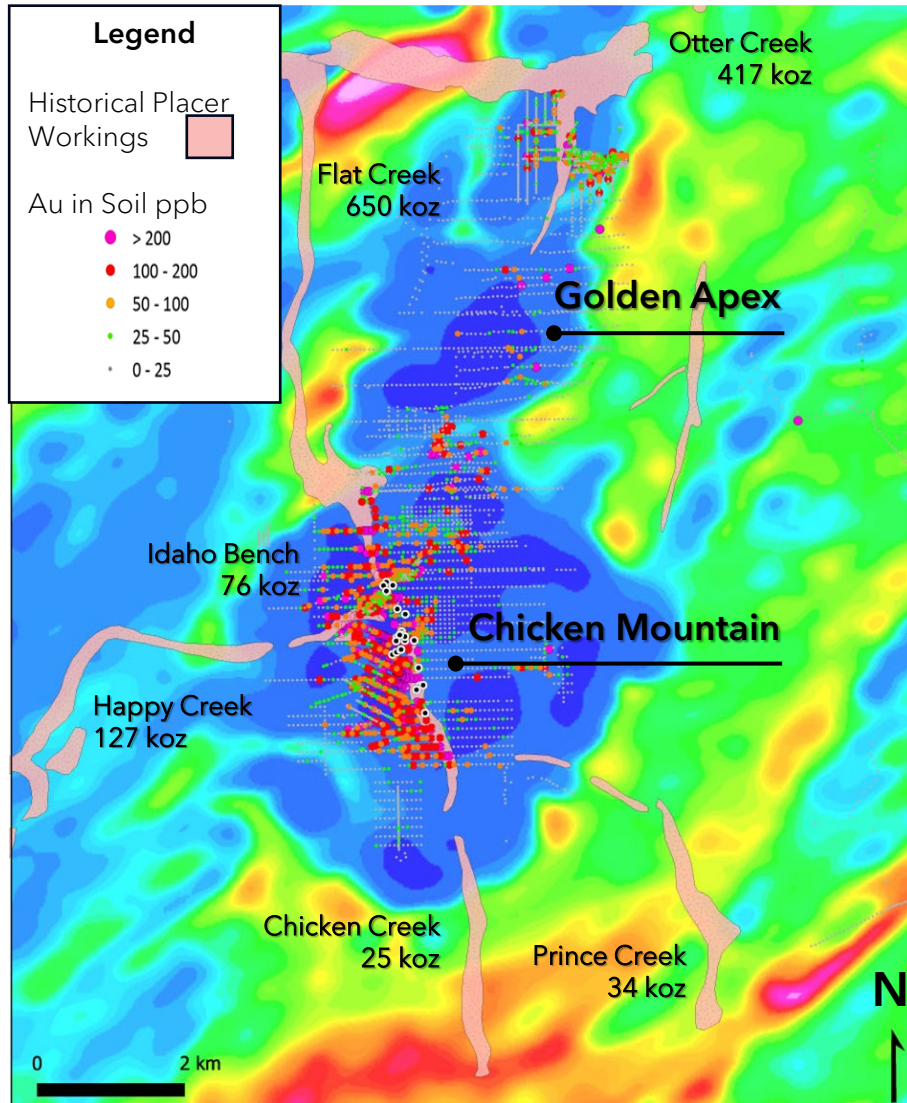
# CHICKEN MOUNTAIN INTRUSION

MULTI-MILLION OUNCE POTENTIAL



# CHICKEN MOUNTAIN - BIG DEPOSITS LEAVE BIG FOOTPRINTS

PART OF 20 KM "STRING-OF-PEARLS" GEOPHYSICAL ANOMALY



## 1.4 million oz<sup>1</sup>

- ▶ Third richest placer gold mining jurisdiction in Alaska<sup>1</sup>
- ▶ Chicken Mountain credited as bedrock source
- ▶ Every stream draining out of Chicken Mtn. carries placer gold

## ~4 km long high tenor gold-in-soil anomaly

- ▶ Unglaciaded terrain
- ▶ Only 20% drill tested and open

## 74 drill holes (55 historic, 19 2023)

- ▶ All hit gold mineralization
- ▶ 37 of 74 drill holes ending in mineralization
- ▶ 1.8 km of strike, 300m of depth

## 96% gold recovery (average)

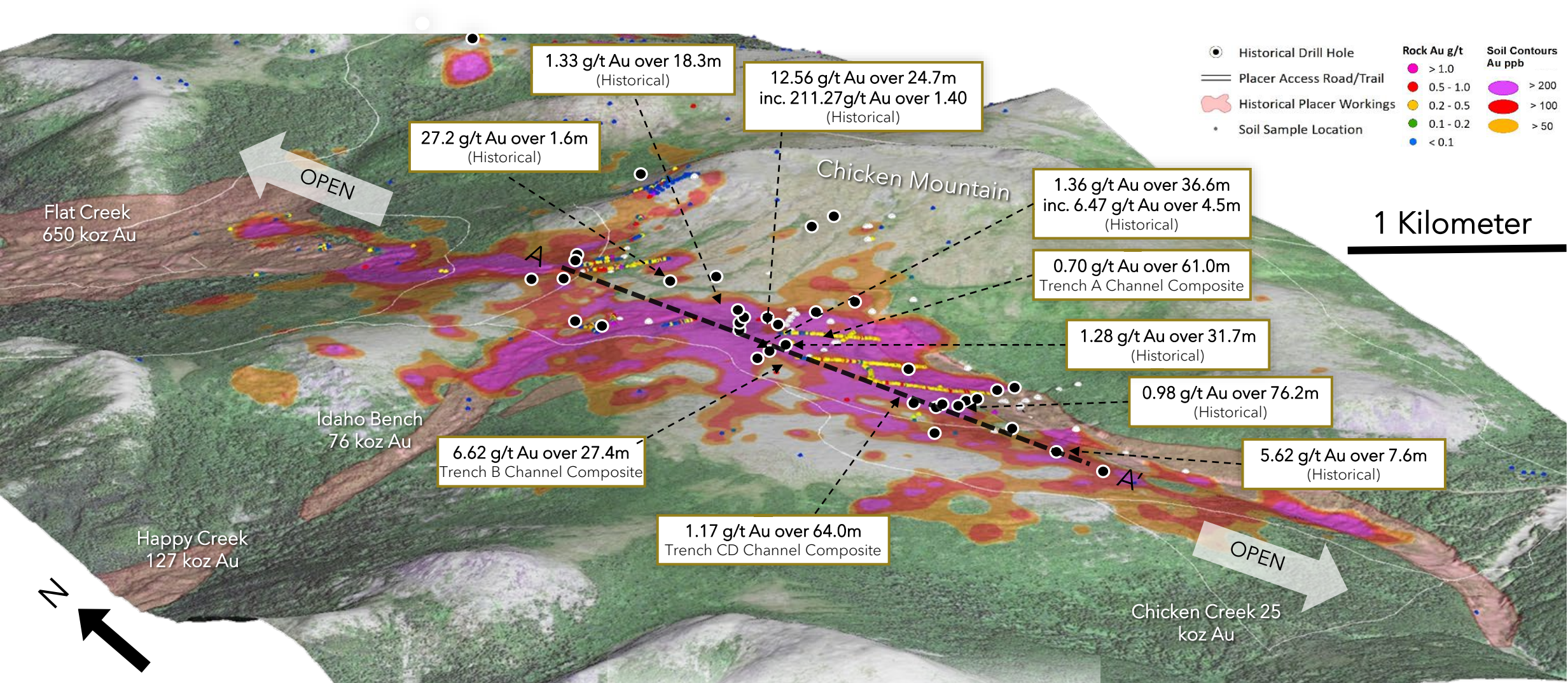
- ▶ Tectonic de-risking: metallurgical testing on historic drill core
- ▶ Potential open-pit, heap leach opportunity

1) Placer production figures from "Mineral Occurrence and Development Potential Report, Locatable and Salable Minerals, Bering Sea-Western Interior Resource Management Plan, BLM-Alaska Technical Report 60", prepared by the U.S. Department of the Interior, Bureau of Land Management, November 2010



# 2023 CHICKEN MOUNTAIN WEST PROGRAM RELATIVE TO HISTORICAL RESULTS

A - A' CROSS SECTION OF DRILL PROGRAM SUPERIMPOSED ON EXISTING RESULTS

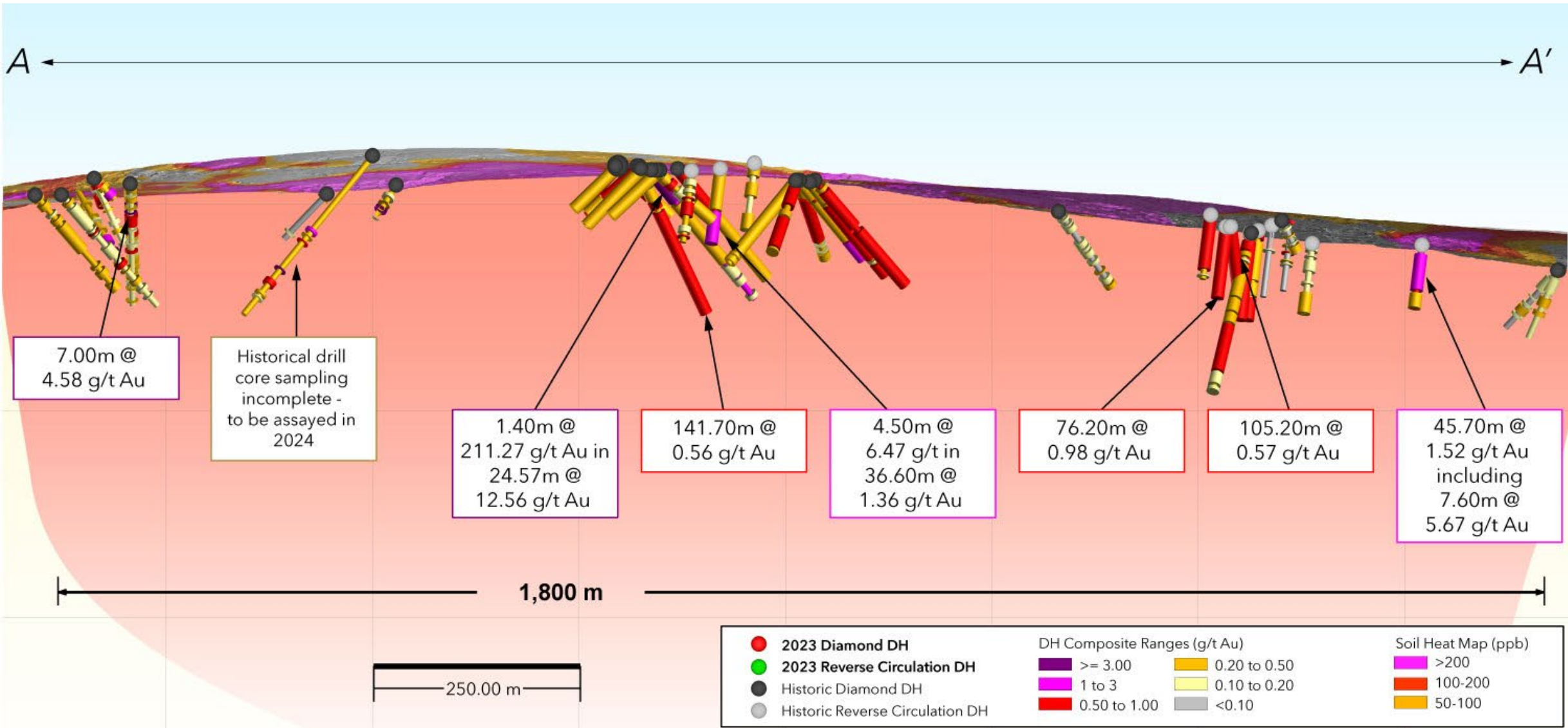


\*Placer production figures from "Mineral Occurrence and Development Potential Report, Locatable and Salable Minerals, Bering Sea-Western Interior Resource Management Plan, BLM Alaska Technical Report 60", prepared by the U.S. Department of the Interior, Bureau of Land Management, November 2010"



# LONG SECTION OF HISTORICAL DRILLING

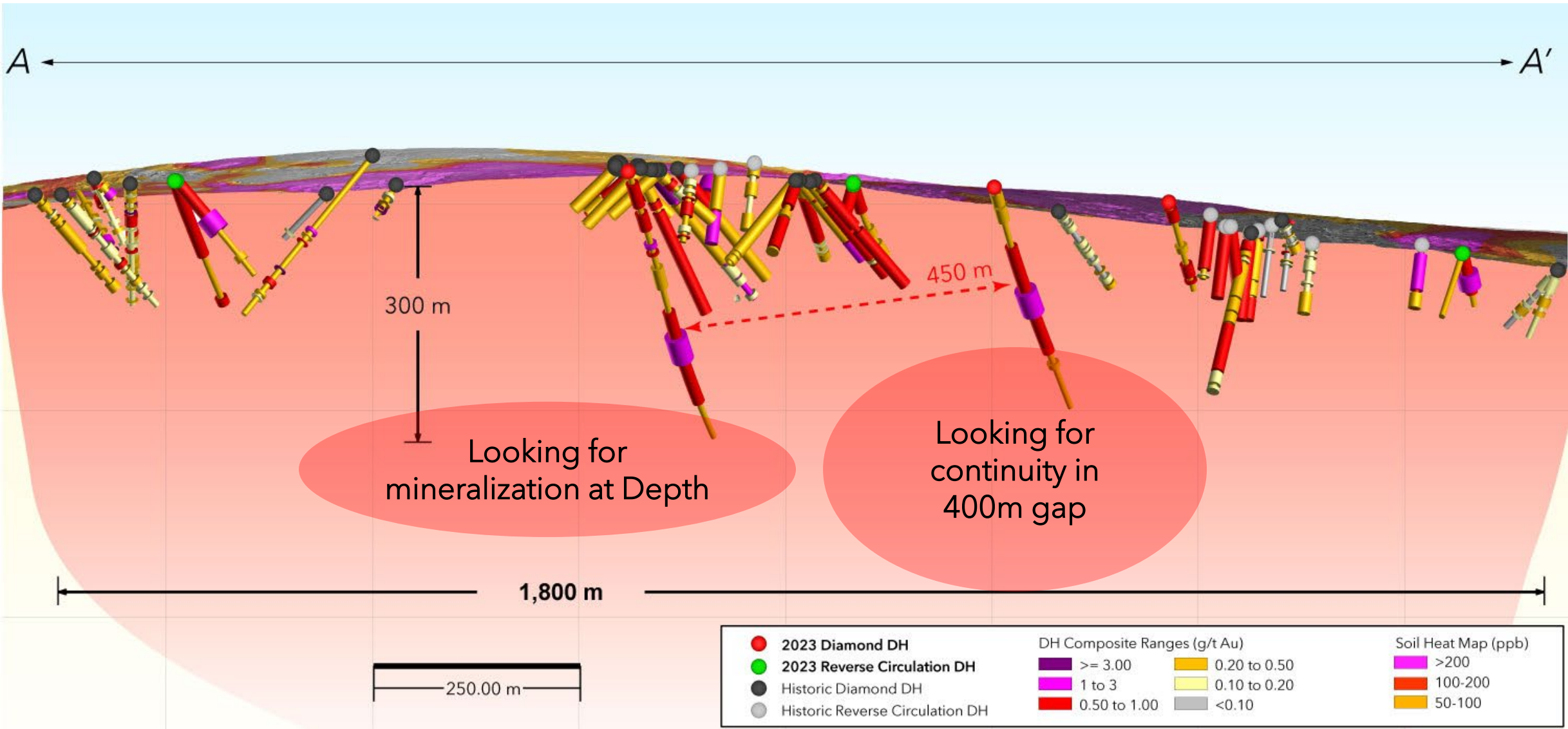
AVERAGE VERTICAL DEPTH OF ~100 M, MULTIPLE DRILL HOLES ENDING IN MINERALIZATION





# 2023 DRILLING CONFIRMS DEPTH TO 300 M AND CONTINUITY

MINERALIZATION REMAINS OPEN IN ALL DIRECTIONS



Geology

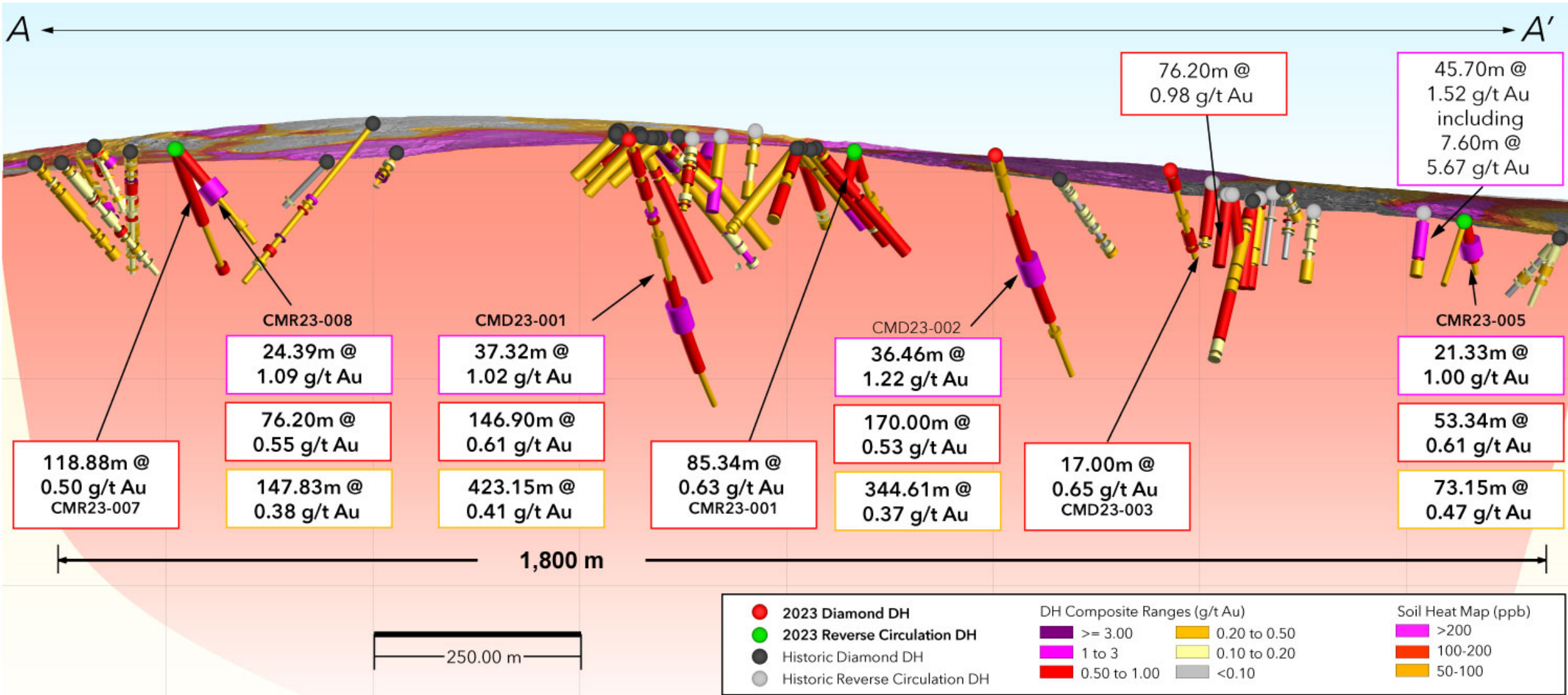
Engineering

ESG

Infrastructure

# 1.8 KMS MINERALIZED STRIKE, VERTICAL DEPTH 300 M (OPEN)

OPEN-PIT OPPORTUNITY, MULTIPLE HOLES COLLARED AND ENDED IN MINERALIZATION  
POTENTIAL +1 KMS HIGHER-GRADE (>1.0 G/T AU) LOD

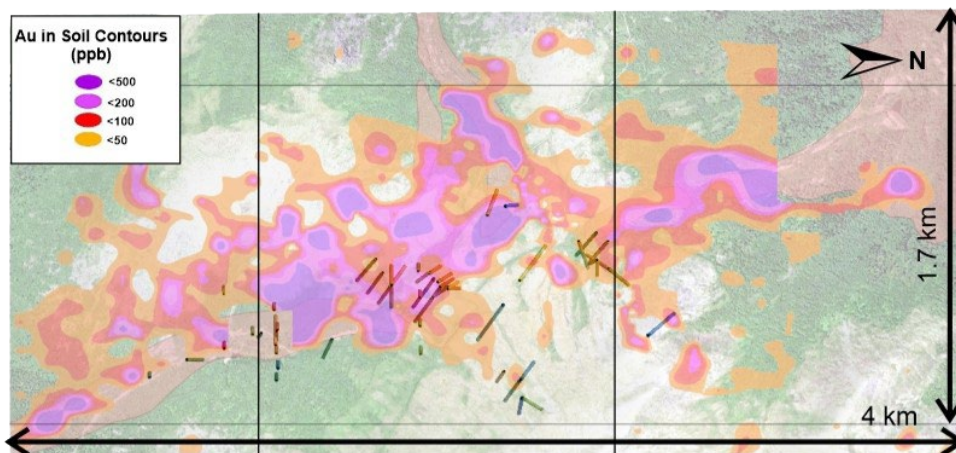




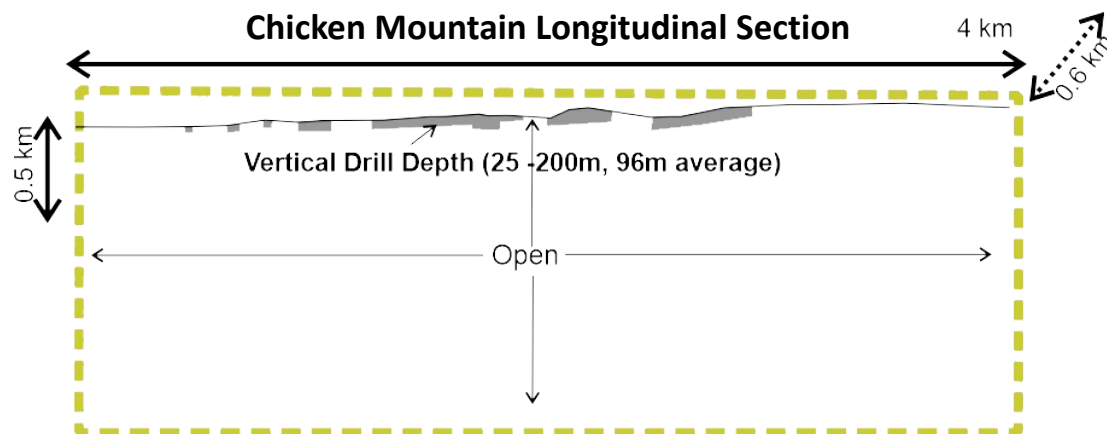
# STEP BACK - CONSIDER ONLY THE 4KM CHICKEN MTN SOIL ANOMALY

< 20% OF GOLD-IN-SOIL ANOMALY DRILL TESTED - SHALLOW DRILLING ONLY

## Chicken Mountain Plan view



## Chicken Mountain Longitudinal Section



## Mineralization Footprints of Other Tintina Mines

### Fort Knox

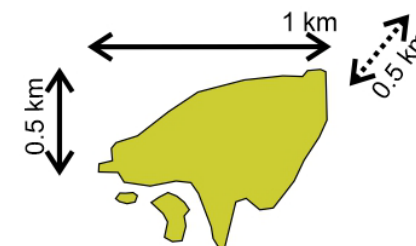
Past production: 8.2 Moz Au<sup>1</sup>

Mineral Resource (M&I): 3.0 Moz @ 0.83 g/t Au<sup>1</sup>



### Eagle

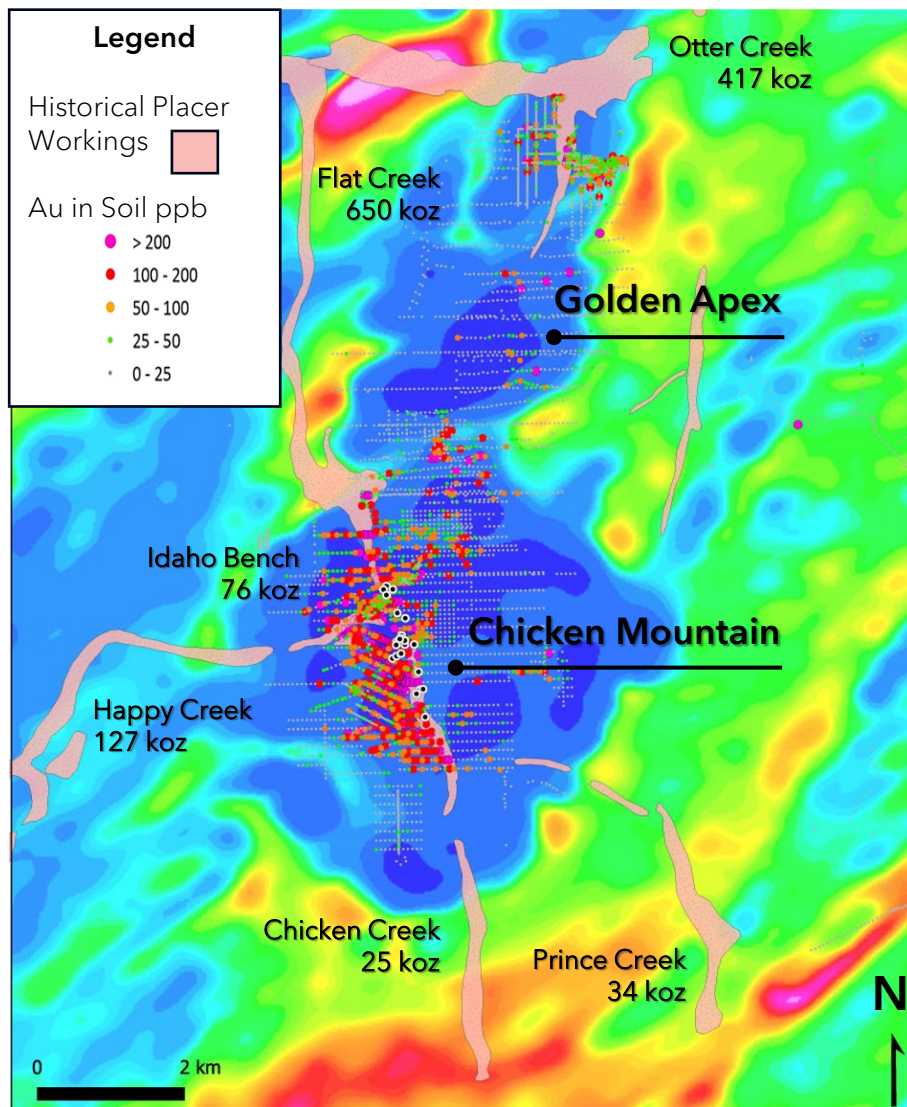
M&I Mineral Resource (M&I): 4.3 Moz @ 0.65 g/t Au<sup>2</sup>



1) Dec. 31, 2022 Annual Mineral and Resource Statement. Proven & Probable Mineral Reserves 1,935koz Au. Mineral Resources are estimated at a cutoff grade of 0.30 g/t Au. 2) 2023 Eagle Gold Mine NI 43-101 Technical Report. Proven and Probable Mineral Reserves total 118Mt at 0.65 g/t Au, containing 2,407k oz Au. The current Eagle Zone Mineral Resources are reported as in-pit resources at a cut-off grade of 0.20 g/t Au. Gold price of \$1,550/oz is assumed.

# 1.8 KM OF DRILLED STRIKE IS JUST SCRATCHING THE SURFACE

DRILLING TO DATE HAS COVERED ONLY A FRACTION OF THE TOTAL POTENTIAL



Only **50%** of the 4 km x 1 km  
high tenor gold-in-soil anomaly

Only **33%** of the 6.0 km x 5.6 km  
Chicken Mountain geophysical anomaly

Only **17%** of the 20 km long  
complex of six potential and confirmed intrusions

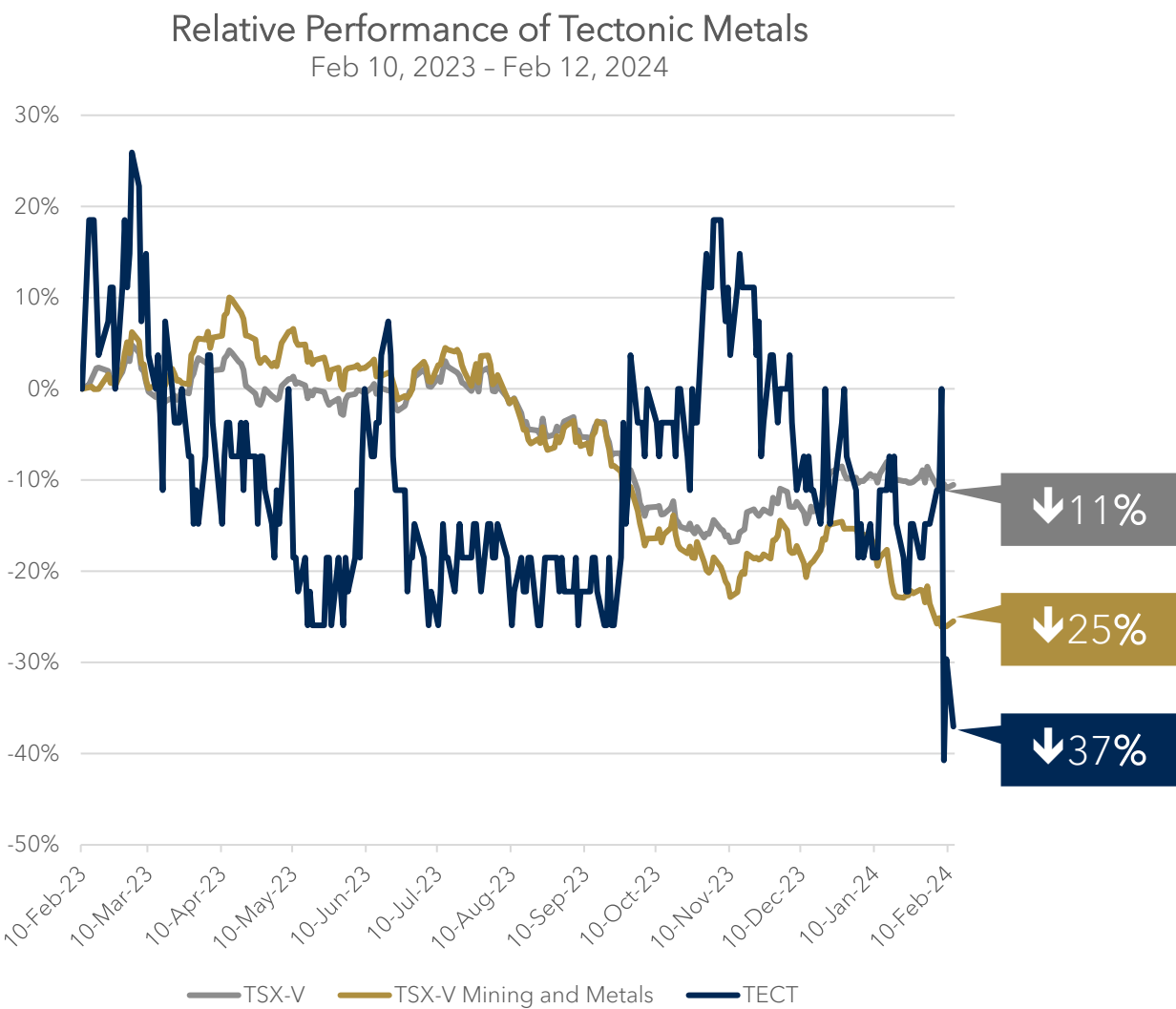
1) Placer production figures from "Mineral Occurrence and Development Potential Report, Locatable and Salable Minerals, Bering Sea-Western Interior Resource Management Plan, BLM-Alaska Technical Report 60", prepared by the U.S. Department of the Interior, Bureau of Land Management, November 2010



# CAPITAL STRUCTURE AND PERFORMANCE

AS OF JANUARY 2024

Shares Outstanding	330,700,924
Supportive Shareholders ~47%	<ul style="list-style-type: none"><li>9.9% Doyon Limited</li><li>22.3% Crescat Capital</li><li>15.0% Tectonic and others</li></ul>
Est. Liquid Public Float	~175,000,000
Avg. Daily Volume	~1.1 million
Fully Diluted	439,448,420
Estimated Cash	~CA\$4 million
Debt	None



# UNLOCKING ALASKA'S NEXT TIER 1 OPPORTUNITY

## 2024 DRILLING AND EXPLORATION PROGRAM - THE NEXT CATALYST

### A Team that Executes

- > 35 million oz in gold discoveries
- Disciplined economic mine formula
- Methodical upfront approach to de-risking projects

### The Flat Gold Project

- 1.4 million oz placer gold source
- 20 km long intrusive complex
- 1.8 km of mineralized strike x 300 m depth
- All 74 drill holes hit gold

### Successful 2023 Drill Program Supports Expanded 2024 Program

- Multi-million-ounce potential at Chicken Mountain confirmed
- Structural data and learnings to support robust 2024 drill program

**TECTONIC**  
METALS INC.

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T15B: FSE





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**APPENDIX**

# TECTONIC CONTINUES TO EXECUTE STRONGLY

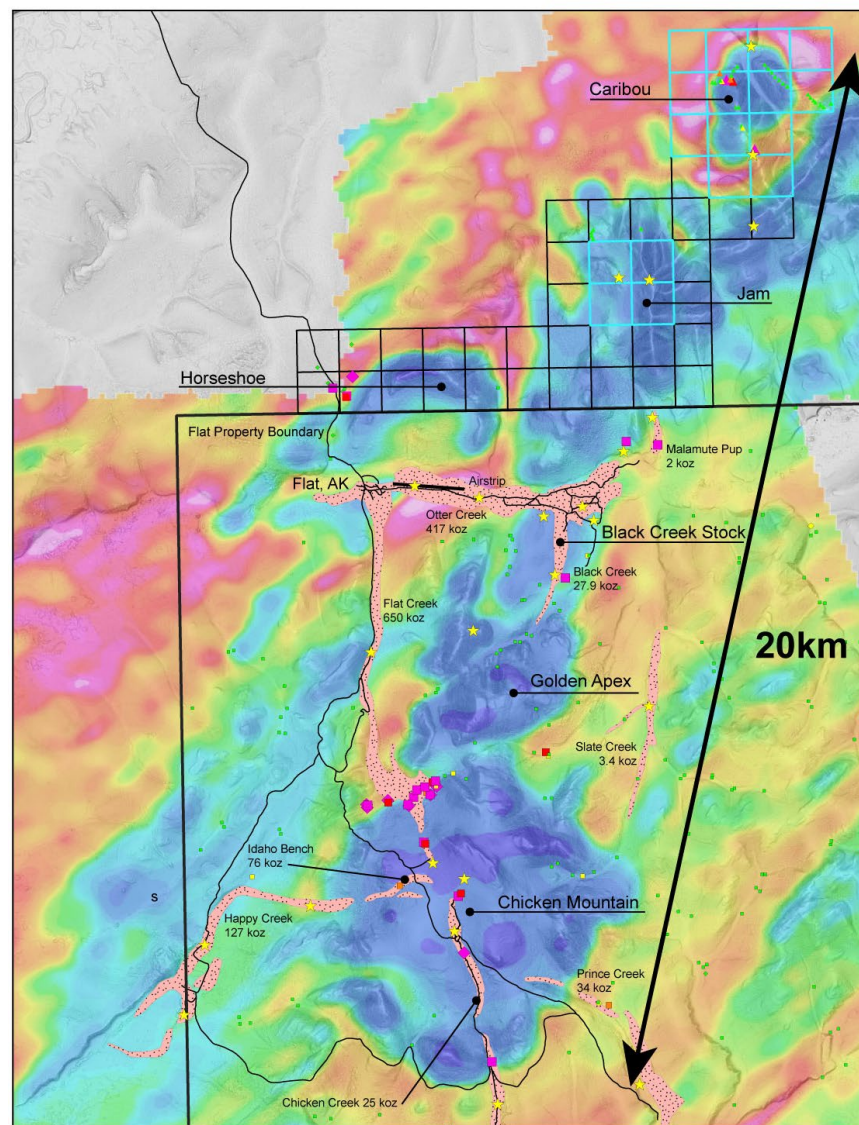
## RECENT MILESTONES AND DEVELOPMENTS





# VALUE ADD NEXT STEPS

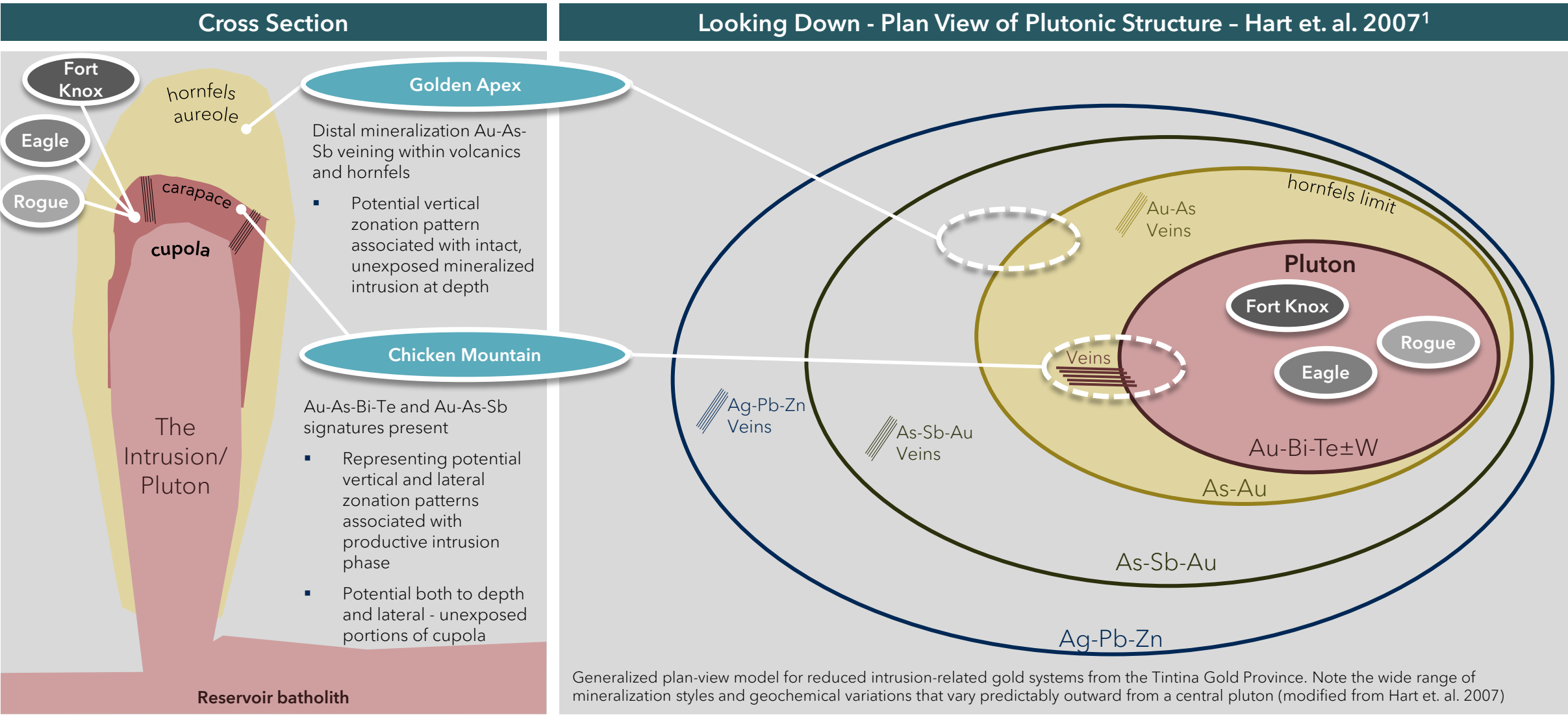
2024 GOALS: IDENTIFY AND DRILL TEST "SWEET SPOTS/CUPOLAS" AT EACH INTRUSION TARGET



- ▶ Ongoing compilation, interpretation and examination of the complete 2023 drill data set
- ▶ Pathfinder element analysis (soil + drill hole data) across the property to uncover geochemical zonation patterns related to RIRGS targets;
- ▶ 3D magnetic inversion to aid in identifying the presence and locations of non-exposed intrusion cupolas
- ▶ Advance the property-wide structural framework utilizing 2023 oriented drill core data from Chicken Mountain and recently flown high resolution 2023 LiDAR data
- ▶ Unsampled historical 2003 drill core uncovered at Chicken Mountain & Gold Apex
  - ▶ Historical diamond drill core only partially sampled even though grades up to 20 g/t Au were reported
  - ▶ Drill core cutting and assaying of 2003 historic diamond drill core from
  - ▶ Tectonic will sample and assay a total 744 metres in 4 drill holes
- ▶ Ongoing metallurgical test work, including column heap leach tests to de-risk and explore heap leaching as a viable recovery method for gold mineralization
- ▶ All of the above will feed into generating drill targets at each intrusion target

# REDUCED INTRUSION-RELATED GOLD SYSTEMS

GEOCHEMISTRY, VEINING AND HOST ROCK ARE KEY INDICATORS OF PROXIMITY TO CUPOLA

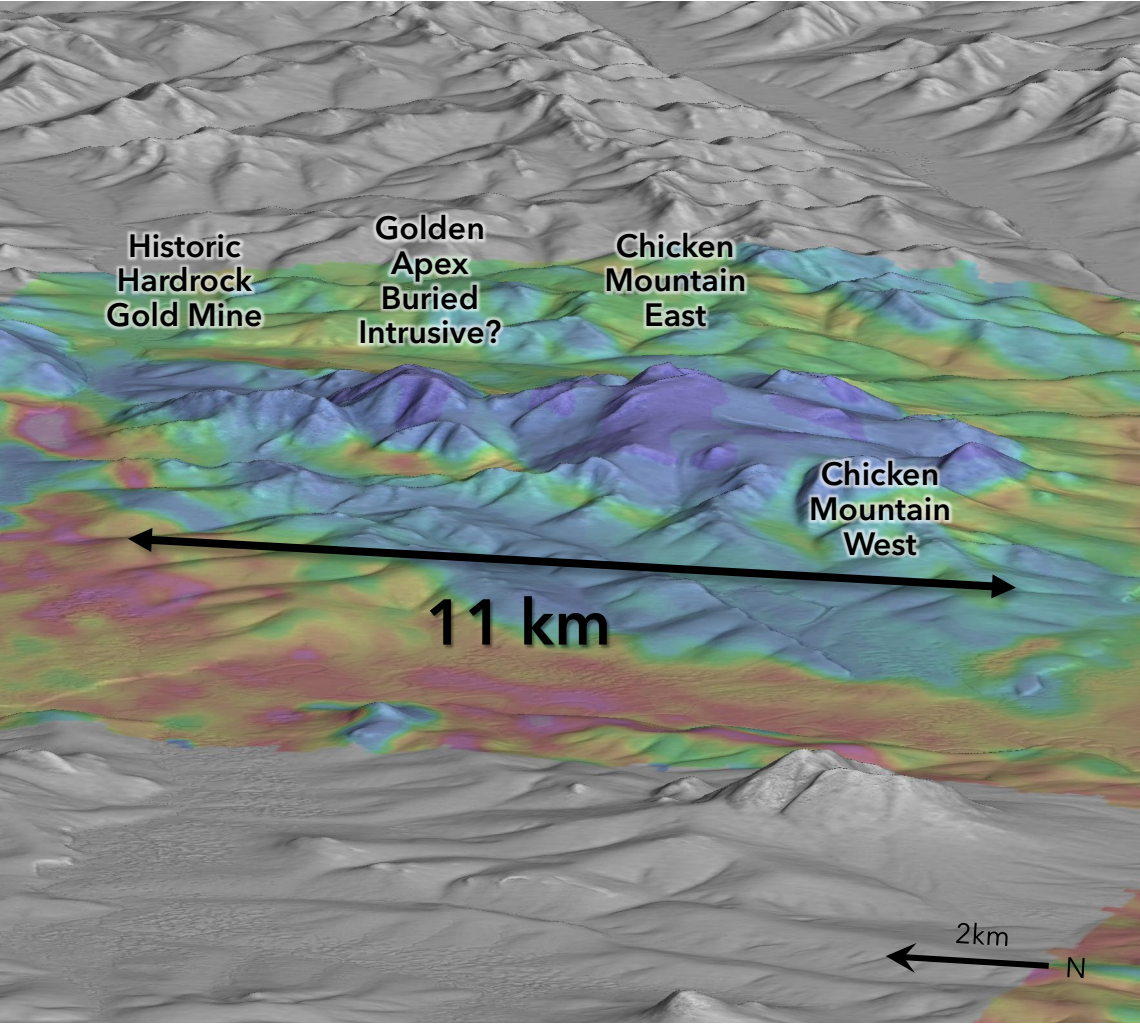




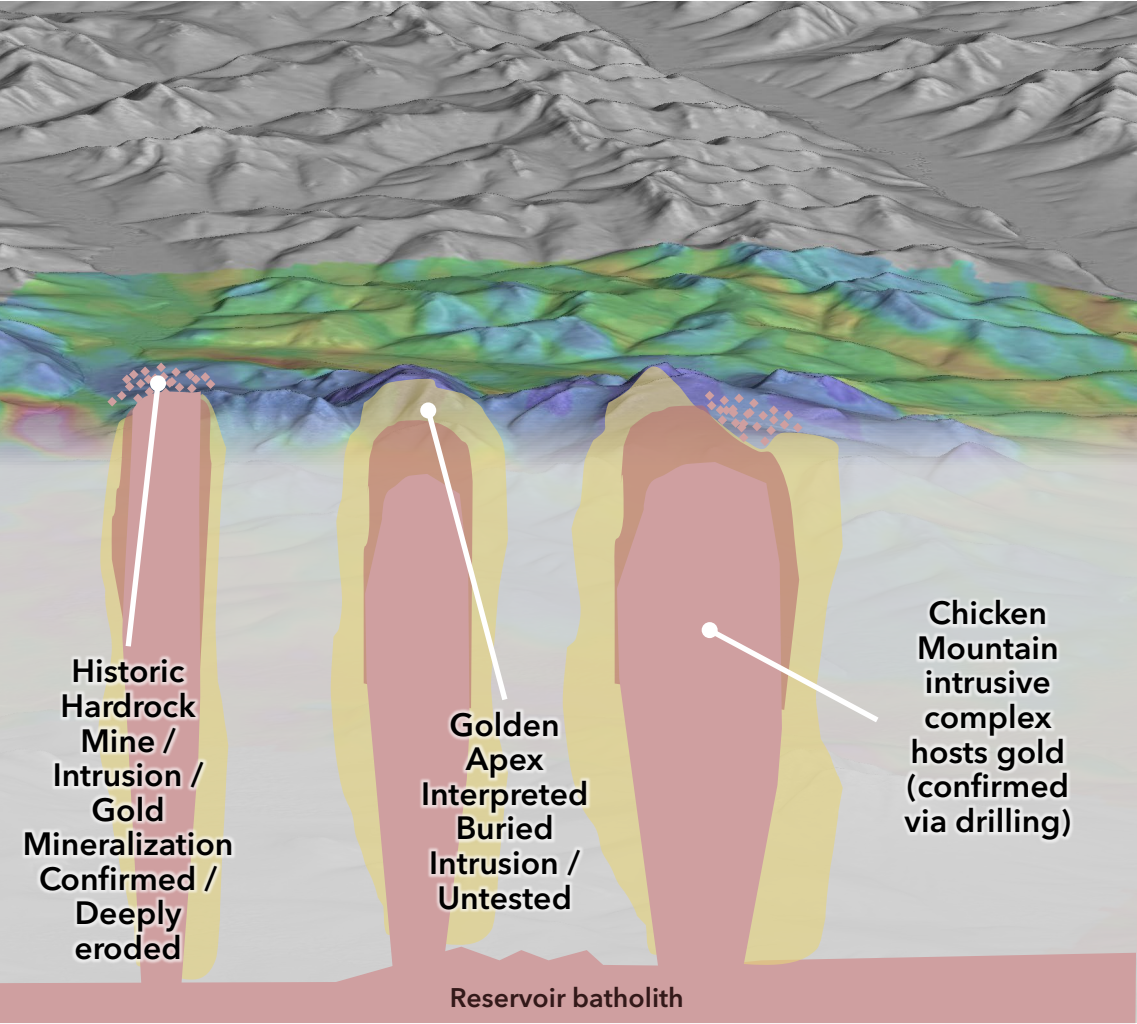
# GEOPHYSICS DEMONSTRATE A +11KM LONG INTRUSIVE COMPLEX

CHICKEN MTN EAST AND GOLDEN APEX LIKELY MINERALIZED BASED ON CURRENT EVIDENCE

Oblique View Looking East - Geophysics - 7200 Hz EM



Simplified Cross Section of Intrusion Related Systems



Geology
Engineering
ESG
Infrastructure

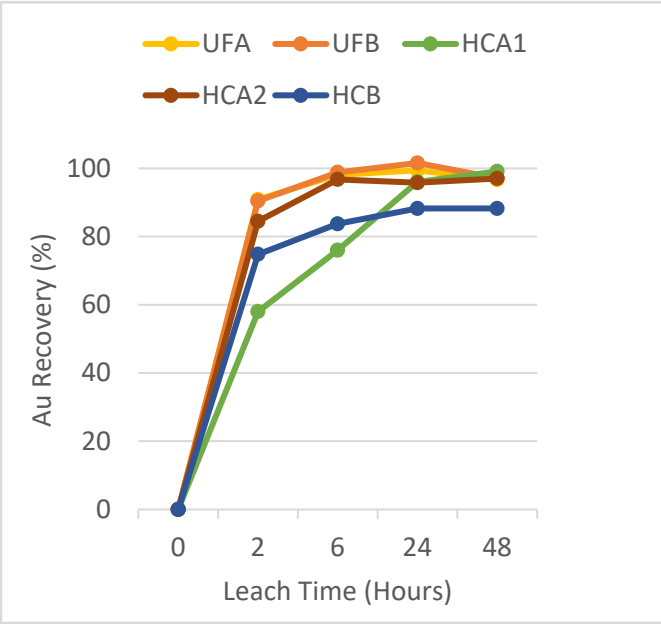
# 2022 DE-RISKING PRIOR TO 2023 DRILL PROGRAM

METALLURGICAL TESTING ON HISTORICAL DRILL CORE YIELDS 96% AVERAGE GOLD RECOVERY

- Strong and rapid leach kinetics
- Low sulphur content
- Very low cyanide consumption
- No preg robbing identified

## Validates potential for heap leach processing

48 Hour Leach Kinetics K80 75µm Grind



Composite	Mineralization Type	Calculated Head Grade	Consumption (kg/t)		AU Recovery % Leach Kinetics (hour)				
			NaCN	Ca(OH) <sub>2</sub>	2	6	24	48	Total
UFA	Oxide	1.66	0.24	2.57	90.9	98.1	99.4	96.7	96.7
UFB	Oxide	0.68	0.19	1.23	90.4	98.8	101.6	97.1	97.1
HCA1	Oxide	0.75	0.28	2.91	58.0	76.0	96.0	99.1	99.1
HCA2	Oxide	1.05	0.17	2.89	84.5	96.7	95.8	97.0	97.0
HCB	Oxide	1.32	0.23	0.92	74.8	83.7	88.2	88.3	88.3