



# Exploring for major base & precious metal deposits in the Arabian Nubian Shield

April 2025

Grab sample from  
Wedi Hazo VMS Target



# Disclaimer and Qualified Person

• The information contained herein, while obtained from sources which we believe are reliable, is not guaranteed as to its accuracy or completeness. References are made herein to historical information containing geologic and technical information. By its nature, this information cannot be verified. A Qualified Person has not verified the sampling, analytical, and test data underlying the historical information. ANS Exploration Corp. (the "Company" and "ANS") has assumed that this historical information is accurate and complete in all material aspects and, while the Company has carefully reviewed all the available information, it cannot guarantee its accuracy and completeness. The content of this presentation is for information purposes only and does not constitute an offer to sell or a solicitation to purchase any securities referred to herein.

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• Forward-looking statements may include, but are not limited to, statements with respect to the future price of metals, the estimation of mineral resources, the realization of mineral resource estimates, the timing and amount of estimated future production, capital expenditures, success of exploration activities, permitting timelines, requirements for additional capital, government regulation of mining operations, environmental risks, unanticipated reclamation expenses, title disputes or claims, limitations on insurance coverage, the completion of transactions and future listings and regulatory approvals. In certain cases, forward-looking statements can be identified by the use of words such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or state that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved". Forward-looking information in this presentation includes, among other things, disclosure regarding: the Company's mineral properties as well as its future outlook, statements with respect to the future price of minerals, the success of exploration activities, permitting timelines, costs and expenditures requirements for additional capital, future listings and regulatory approval.

• In making the forward-looking statements in this presentation, the Company has applied certain factors and assumptions that it believes are reasonable, including that there is no material deterioration in general business and economic conditions; that the supply and demand for, deliveries of, and the level and volatility of prices of the Company's primary metals and minerals develop as expected; that the Company receives regulatory and governmental approvals for its properties on a timely basis; that the Company is able to obtain financing for its properties on reasonable terms; that the Company is able to procure equipment and supplies in sufficient quantities and on a timely basis; that engineering and exploration timetables and capital costs for the Company's exploration plans are not incorrectly estimated or affected by unforeseen circumstances; that any environmental and other proceedings or disputes are satisfactorily resolved; and that the Company maintain its ongoing relations with its business partners.

• However, forward-looking statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. Such factors may include, among others, actual results of current exploration activities; actual results of reclamation activities; future metal prices; accidents, labor disputes and other risks of the mining industry; delays in obtaining governmental or regulatory approvals or financing or in the completion of exploration activities, as well as other risk factors that may arise. Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking statements, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements.

• Accordingly, readers should not place undue reliance on forward-looking statements. The Company does not undertake to update any forward-looking statements, except in accordance with applicable securities laws.

• Qualified Person's Statement: Dr. Richard Belcher, BSc, MSc, PhD, FGS Cgeol., Vice President Exploration of ANS, is the Qualified Person as defined by National Instrument 43-101, Standards of Disclosure for Mineral Projects. Mr. Belcher is responsible for the scientific and technical data presented herein and has reviewed and approved this project summary. Of note, historical results reported herein have not been verified by ANS personnel. Surface grab samples are selective by nature and are unlikely to represent average grades of the mineralization found on the property.

# Investment Highlights

- ❖ Strategic Positioning in the Arabian-Nubian Shield (ANS)
- ❖ Early-stage exploration with drill-ready gold and copper targets
- ❖ Significant land package: 947 km<sup>2</sup> granted (+1,382 km<sup>2</sup> pending)
- ❖ Strong technical team with a proven track record
- ❖ Operating in an emerging world-class mining jurisdiction
- ❖ Several JV opportunities currently progressing
- ❖ Highly prospective mineral province:

Sukari Mine (Egypt):  
16.4Moz Au @ 1.22 g/t Au

Galat Sufar (Block 14, Sudan):  
4Moz @ 1.3 g/t Au

Wadi Gabgaba (Sudan):  
3Moz @ 1.6 g/t Au

Ariab Mining VMS District (Sudan):  
116Mt @ 2.04% CuEq

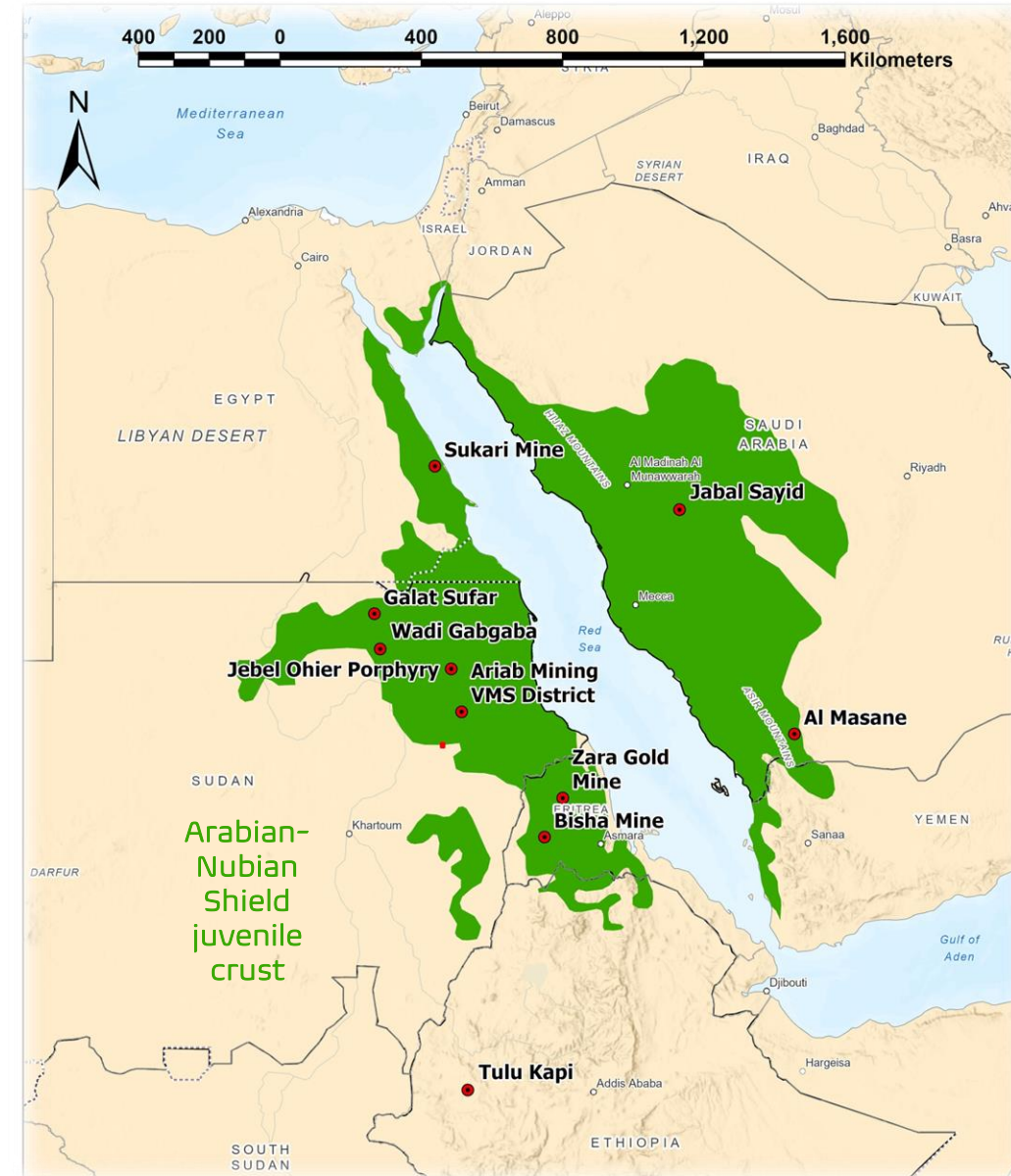
Bisha Mine (Eritrea):  
60Mt @ 1.78 g/t Au, 1.6% Cu, 3.15% Zn

Jebel Ohier Porphyry (Sudan):  
600Mt @ 0.33% Cu

Al Masane (Saudi Arabia):  
7.2Mt @ 1.42% Cu, 5.31% Zn, 1.19 g/t Au

Tulu Kapi (Ethiopia):  
1.72Moz @ 2.12 g/t Au

Jabal Sayid (Saudi Arabia): 99Mt @ 1.21% Cu



# Emerging world-class mineral province

## A WORLD-CLASS UNTAPPED MINERAL PROVINCE

- The Arabian-Nubian Shield (ANS) spans over 1.1 million km<sup>2</sup> - larger than Ontario.
- Comparable in scale to world's most productive mining regions (Canadian Shield, West African Craton, and Western Australia).
- Prolific potential for gold, copper, VMS, and other critical minerals, with significant underexplored areas.

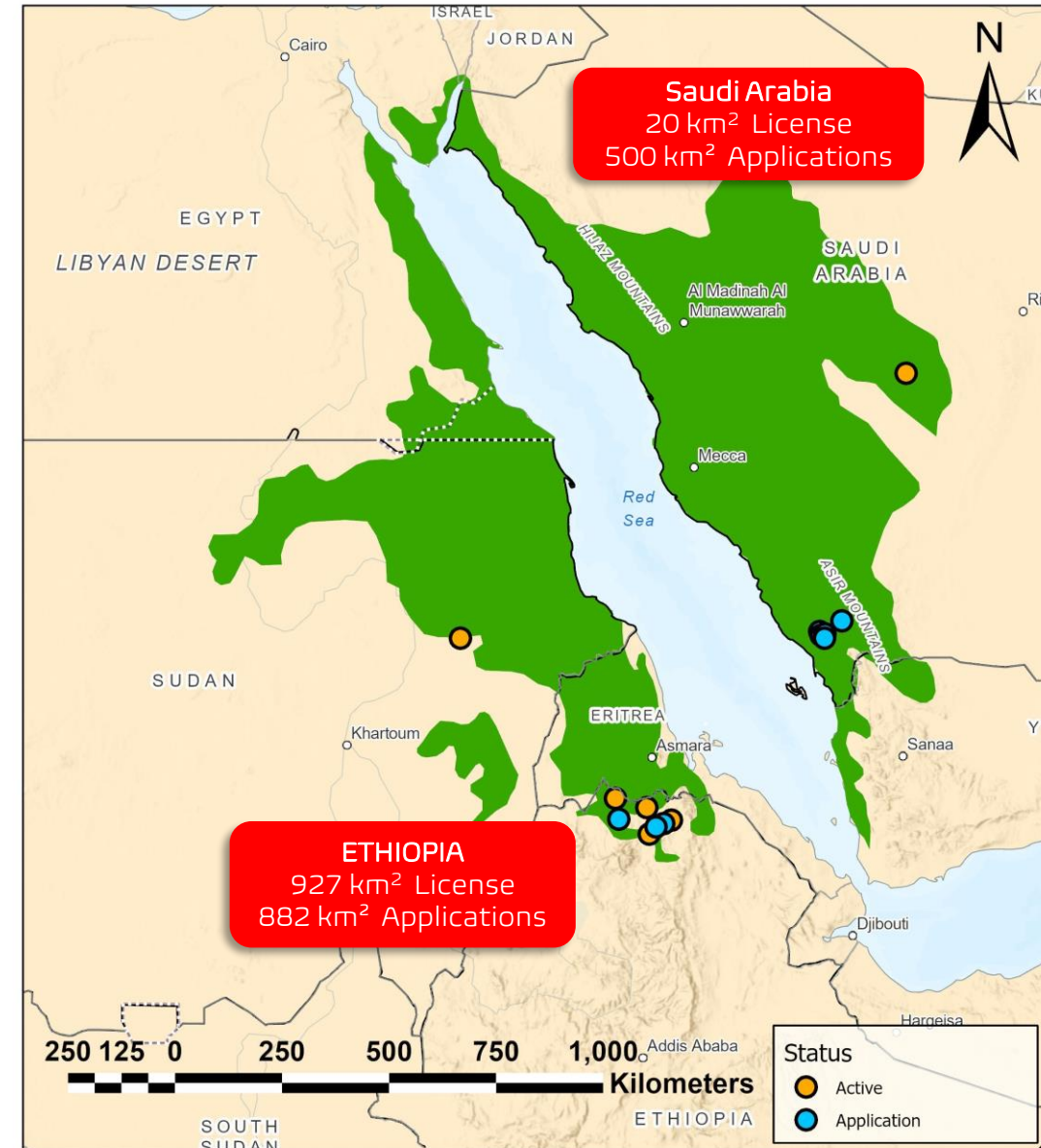
## LOW EXPLORATION MATURITY – THE OPPORTUNITY

- Overall, exploration remains low in the region despite vast geological potential.
- Ethiopia: Transitioning into a mining-friendly jurisdiction after historical challenges
- Saudi Arabia: Opening rapidly - majors securing ground (e.g., Barrick, Ma'aden, Allied, Ivanhoe).

## GROWING INVESTOR INTEREST

- AngloGold Ashanti acquires Sukari Mine for \$2.5B
- \$600M+ secured for Kurmuk Gold Project (Allied)
- \$470M project finance secured for Tulu Kapi (KEFI)

ANS Exploration holds a significant land package within the ANS and is currently in the process of negotiating additions JV Licenses.



# Management Team

With both operational and technical experience, we have a proven track record of successful discoveries and moving projects into production



## **Christopher Schmidt, Chief Executive Officer**

Christopher has more than 13 years of experience leading mining operations in Africa and developing mining projects in North America, South America and Europe. He gained operational experience in underground rock salt, copper mines, opencast in lignite and chrome (incl. PGE)

Christopher holds a M.Sc in Mining Engineering and Management. He is a fund manager for a mining fund investment, Incomet



## **Dr. Richard Belcher, Vice President Exploration**

Exploration geologist with 20+ years of post-PhD experience, including 13 years in the junior exploration sector. Holds a BSc (Hons) in Exploration Geology, MSc in Finance (Distinction), and PhD in Geology. Chartered Fellow (CGeol), EurGeol, and Professional Natural Scientist (South Africa), Competent/Qualified Person (CP/QP) for mineral reporting codes. Prior roles with Altus Strategies, Tertiary Minerals and Walkabout Resources



## **Astewaye Belihu, GM Ethiopia**

Astewaye is based in Addis Ababa and is an experienced administrator and finance professional with over 8 years in the exploration industry. He demonstrated ability to enhance efficiency and drive success through strategic administrative support. He has been working on projects in Tigray for 8 years.



## **Majd Al Khatib, GM Saudi Arabia**

A geophysicist with experience in seismic data processing and field operations at Saudi Aramco. Extensive experience Worked on enhancing seismic subsurface images, troubleshooting technical issues, and supervising field surveys. Holds a BSc in Geophysics with a Minor in Mathematics from the University of Houston, Texas, USA



# Advisory Board

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## Zach Flood

Mr. Flood is an economic-exploration geologist with global experience focused on various commodities over the past 15 years. Mr. Flood co-founded Kenorland Minerals in 2016. Prior to Kenorland. Spent numerous years within the Ivanhoe Group, undertaking project generation and business development, including evaluation of early to advanced stage M&A opportunities in the mining sector



## Francis MacDonald

Francis is an exploration geologist who has spent the majority of his career with Newmont Corporation managing grassroots exploration projects in North America, West Africa, and East Africa. Extensive knowledge of exploration and targeting techniques related to orogenic gold and VMS deposits in Precambrian terranes. Francis is founder of ANS Minerals and CEO of Li-FT Power



## Timothy Keating

Saudi-based investment manager, most recently advising a Saudi Family Office to establishing its mining investment strategy. Previously, the Head of Mining Private Equity at the Oman Investment Authority, and Founder of the private credit fund, Tanjun Capital. Prior roles included non-executive director of Kore Potash and Kenmare Resources, and Chief Executive Officer of African Nickel



## Christoph Naudé

Saudi-based Metals & Mining Executive, with investment banking, asset management and frontier market experience. Previously, Head of Mining & Metals for a Singaporean Family Office, Led corporate finance and structured credit at commodity trading firm Pelagic Resources. Started his career as an M&A investment banker with Birkett Stewart McHendrie

# Technical Team

Technical team dedicated to the Arabian Shield with largest privately-owned dataset



## **Dr. Frank Bierlein**

Dr Bierlein is a geologist with +30 years of experience and has held exploration and generative geology management positions with QMSD Mining Co Ltd, Qatar Mining, Afmeco Australia and Areva NC, and consulted for, among others, Newmont Gold, Resolute Mining, Goldfields and many more. Frank has been instrumental in the porphyry discovery (Jebel Ohier) in Sudan



## **Harry Brookes, Project Geologist**

A young and passionate career exploration geologist. Harry has base metal experience in West Africa and the UK and has provided geochemical services across a range of gold and base metal projects as a junior consultant. Harry holds an MSci in Geology from Imperial College London (ICL) with a focus on economic geology and a research focus on VMS.



## **Praveen Kumar, Database Geologist & Remote Sensing Specialist**

Praveen is a database and GIS Geologist with more than 20 years of experience with RioTinto, DeBeers and QMSD in Sudan. His specialties are Geological and Geospatial Database Management, Geochemical QAQC Reporting, Multispectral & Hyperspectral Remote Sensing.



## **Tewelde Hailu, Senior Geologist**

Tewelde is a senior geologist from Mekele with +13 years of experience working in the Nubian Shield. He has extensive knowledge on VMS style deposits and worked for Enzana Mining since 2010. His local network is of high value to company. Tewelde holds a M.Sc in Economic Geology from Mekelle University



## **Adam Smith, Project Geologist**

Adam holds a M.Sci. in Exploration Geology and has worked initially in Ireland before moving to Cyprus, and then joining the MSA group in Saudi Arabia. He has extensive prospecting and geological field experience and over the last 2 years worked on VMS exploration in both the Troodos ophiolite and in the ANS

# Corporate Snapshot

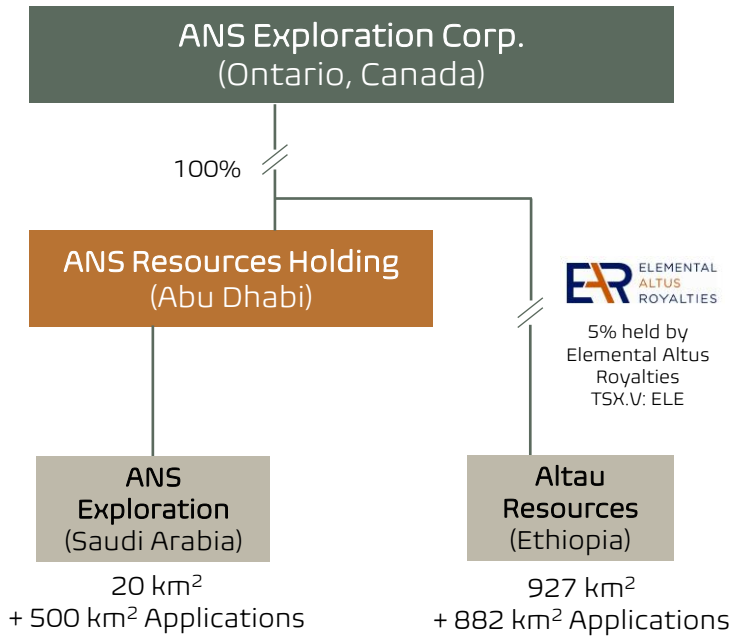
## Ownership Structure



## Capital Structure

Common Shares Outstanding	30,099,422
Options / Warrants	-
Debt	-
Current Equity Valuation	CAD 4.5 m
Capital Raised to date	CAD 2.9 m
Cash Position (March 25)	CAD 350,000

## Corporate Structure

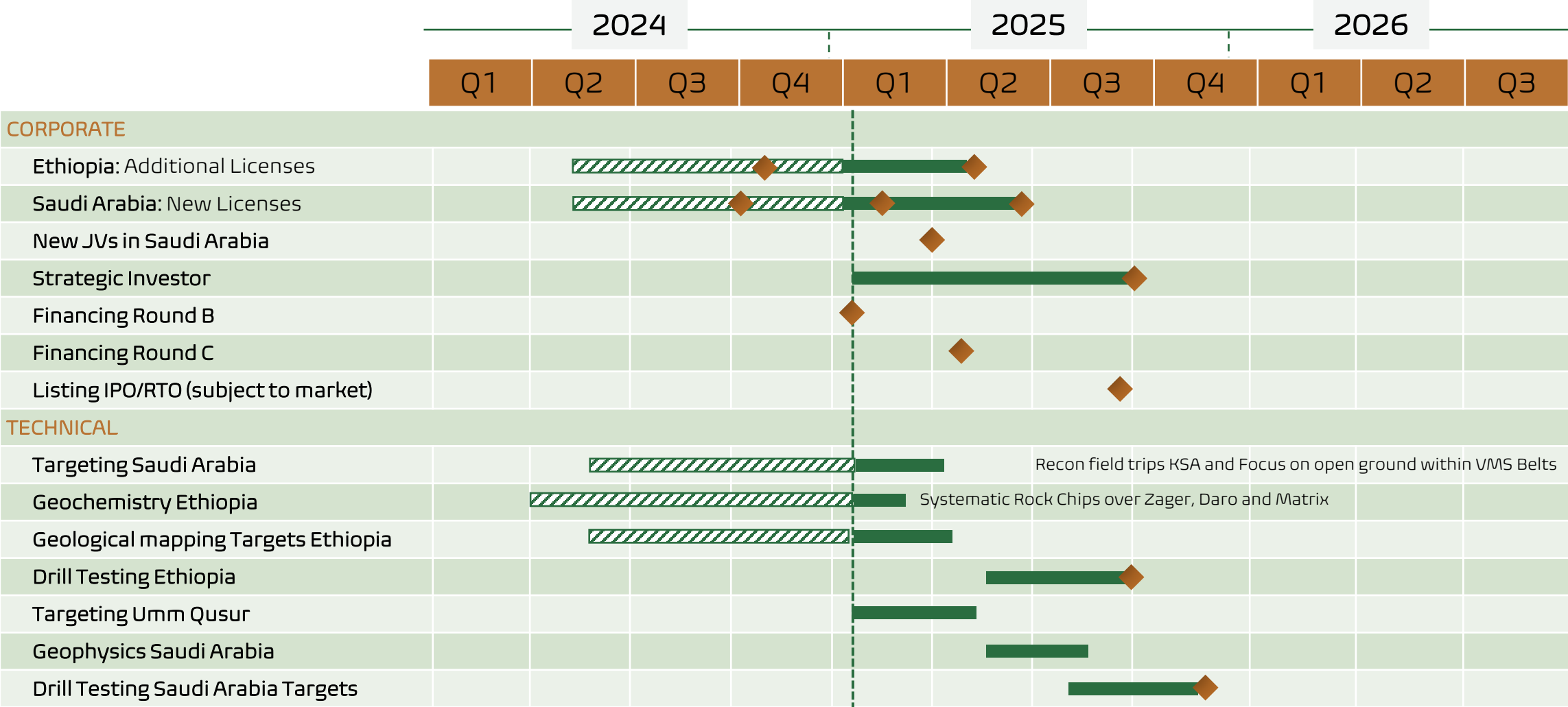


## Financing Q1 2025

Offer Price	0.15 \$
Capital Raise	Up to 1.5 m\$



# Work Program (next 12 month)



◆ Milestone  
▨ Completed  
■ Proposed

# Overview Ethiopia



## Federal Democratic Republic of Ethiopia

- Languages: Afar, Amharic, Oromo, Somali and English
- Religions: 70% Christianity and 30% Islam
- Currency: Ethiopian birr (ETB)
- Second most populous in Africa after Nigeria (1.14 M sqkm area)
- Extensive road, airport and power infrastructure in place
- 100% exploration cost recovery for successful companies
- Ownership: 5% government equity

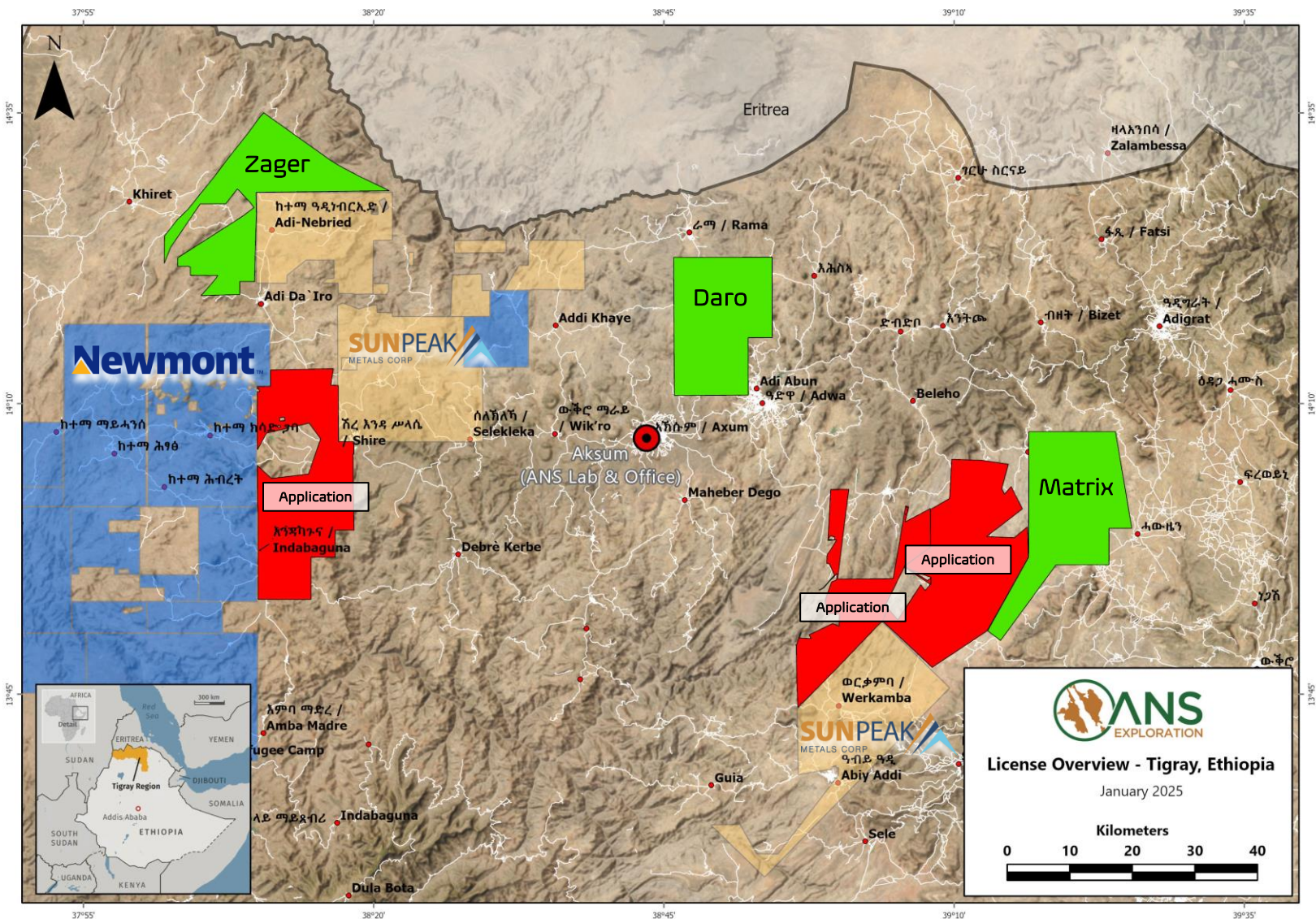
## Emerging world-class mining jurisdiction



GDP nominal	\$156B	Unemployment Rate	8%	Population	116m
GDP Growth	~6% p.a.	Exploration Licenses #	510	Net FDI	~4.5B



# Exploration Licenses (EL) Ethiopia



1 EL 328 (Daro) - 300 km<sup>2</sup>  
95% Direct Ownership

2 EL 7 (Zager) - 285 km<sup>2</sup>  
95% Direct Ownership

3 EL 5146 (Matrix) - 342 km<sup>2</sup>  
JV with earn-in up to 95%

Current total land package:  
927 km<sup>2</sup>

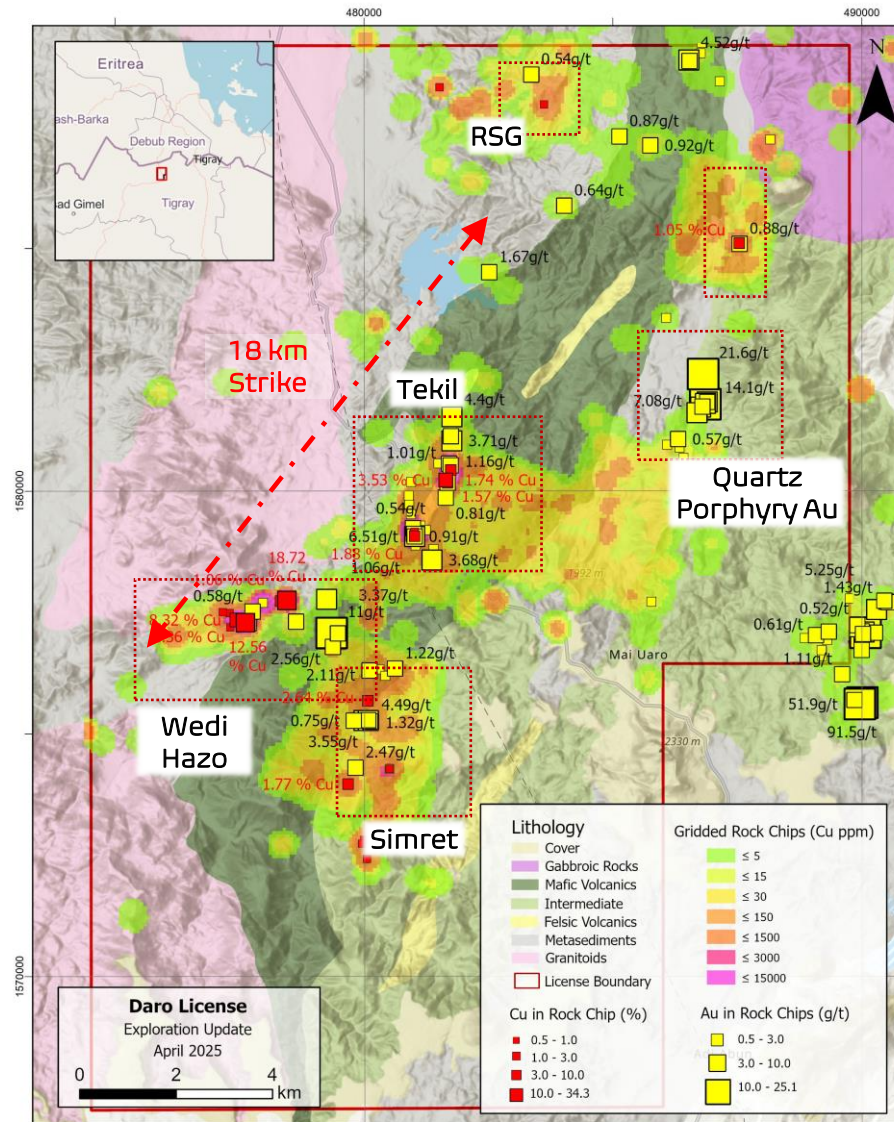
Office & Laboratory in Aksum

## Submitted EL Applications (+882 km<sup>2</sup>)

1. MOM\EL\06412/2024 (371 km<sup>2</sup>)
2. MOM\EL\06819/2024 (198 km<sup>2</sup>)
3. MOM\EL\07241/2024 (313 km<sup>2</sup>)



# 1 EL328 – Daro – VMS Targets



Several drill ready targets over 18km strike of prospective geology for VMS

## Key features (VMS):

- ✓ High grade samples: up to 34% Cu in outcrop
- ✓ Gold values in Gossan/Oxide up 4 g/t Au in outcrop
- ✓ Wide-spread silica, sericite alteration.
- ✓ Gossanous horizons identified in outcrop.
- ✓ Exhalative (± Fe) horizons (hydrothermal venting)

## Geology Overview:

Underlain by rocks of the Adi Arbate Group (quartzite & graphitic schist, greywackes and conglomerates), & Adi Abun Group (intermediate (andesitic) metavolcanics).

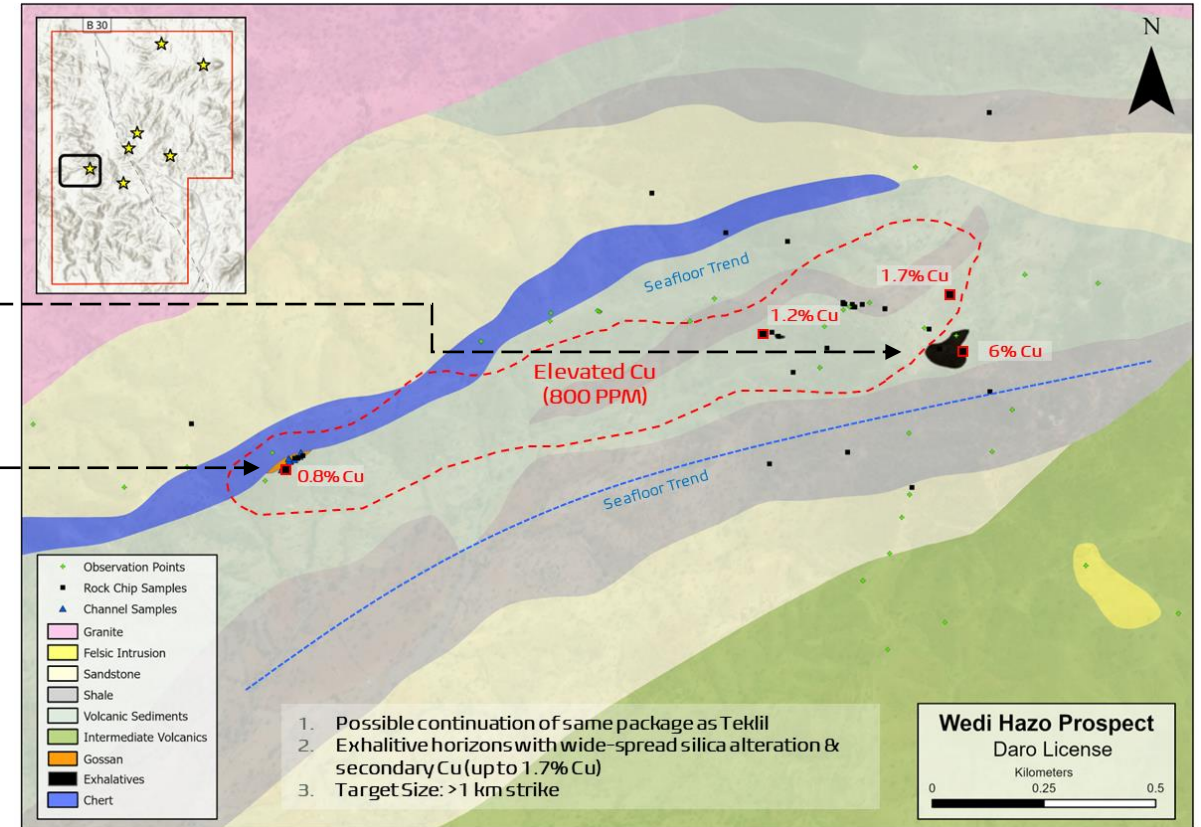
## Work completed:

- Rock Chips: 4233 rock chip samples over prospects
- Geological Mapping: 435 Observation Points for Geological Mapping
- Stream Sediment Campaign: 225 Stream Sediment Samples



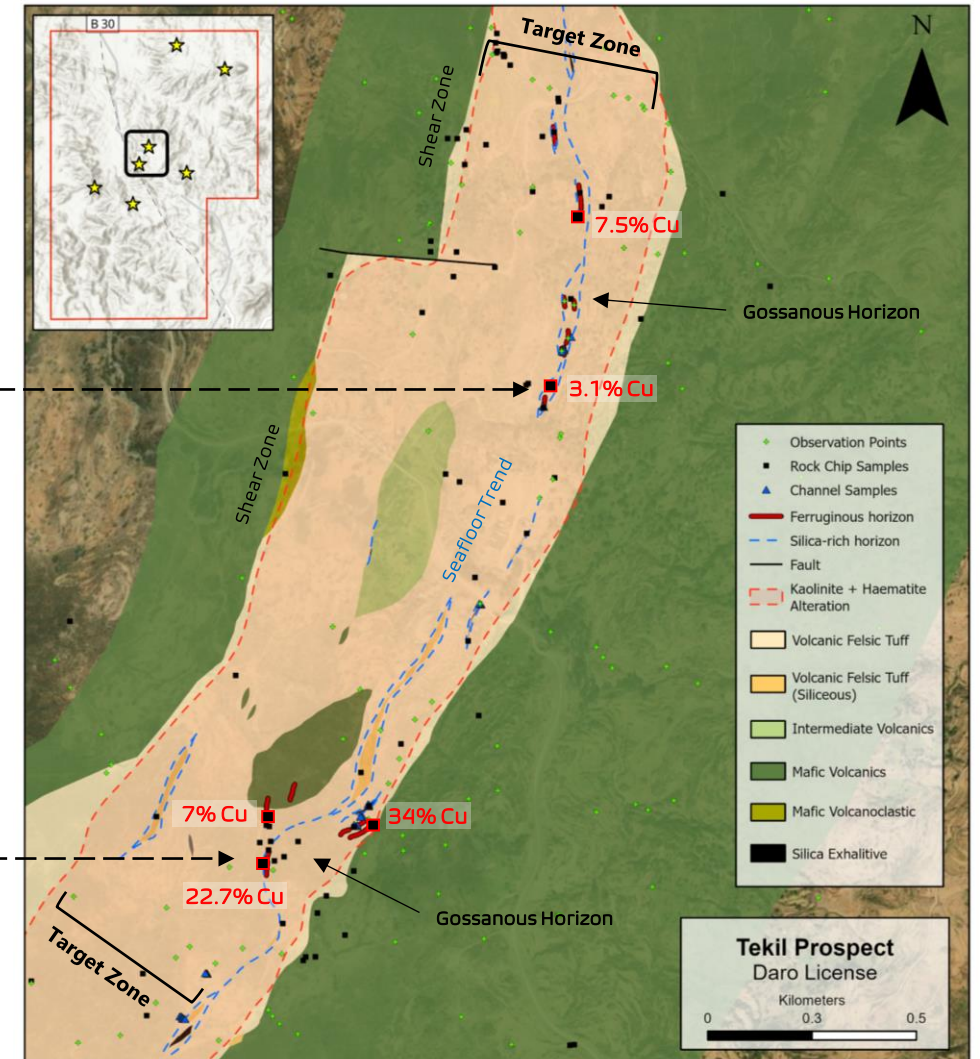


# ① EL328 – Daro (Wedi Hazo Discovery)



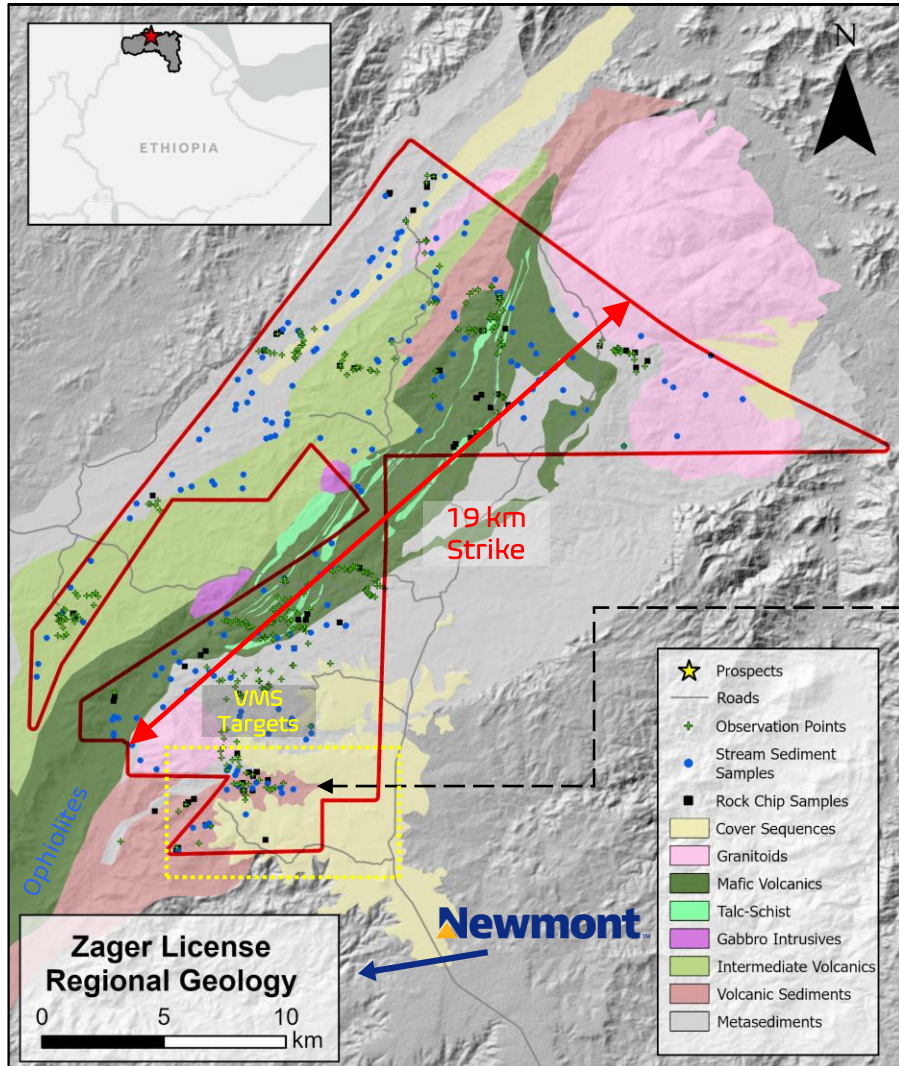


# ① EL328 – Daro (Tekil Discovery)





## ② EL7 – Zager



### Highlights:

- License package along strike of Newmont (Kisad Gaba drill hole: 103.7m @ 1.7% Cu)
- Located in the same geological package as the Asmara Projects (to the NE in Eritrea) and Adeyabo projects (directly SW) by Newmont.
- License covers 19km strike of potential VMS style mineralization.

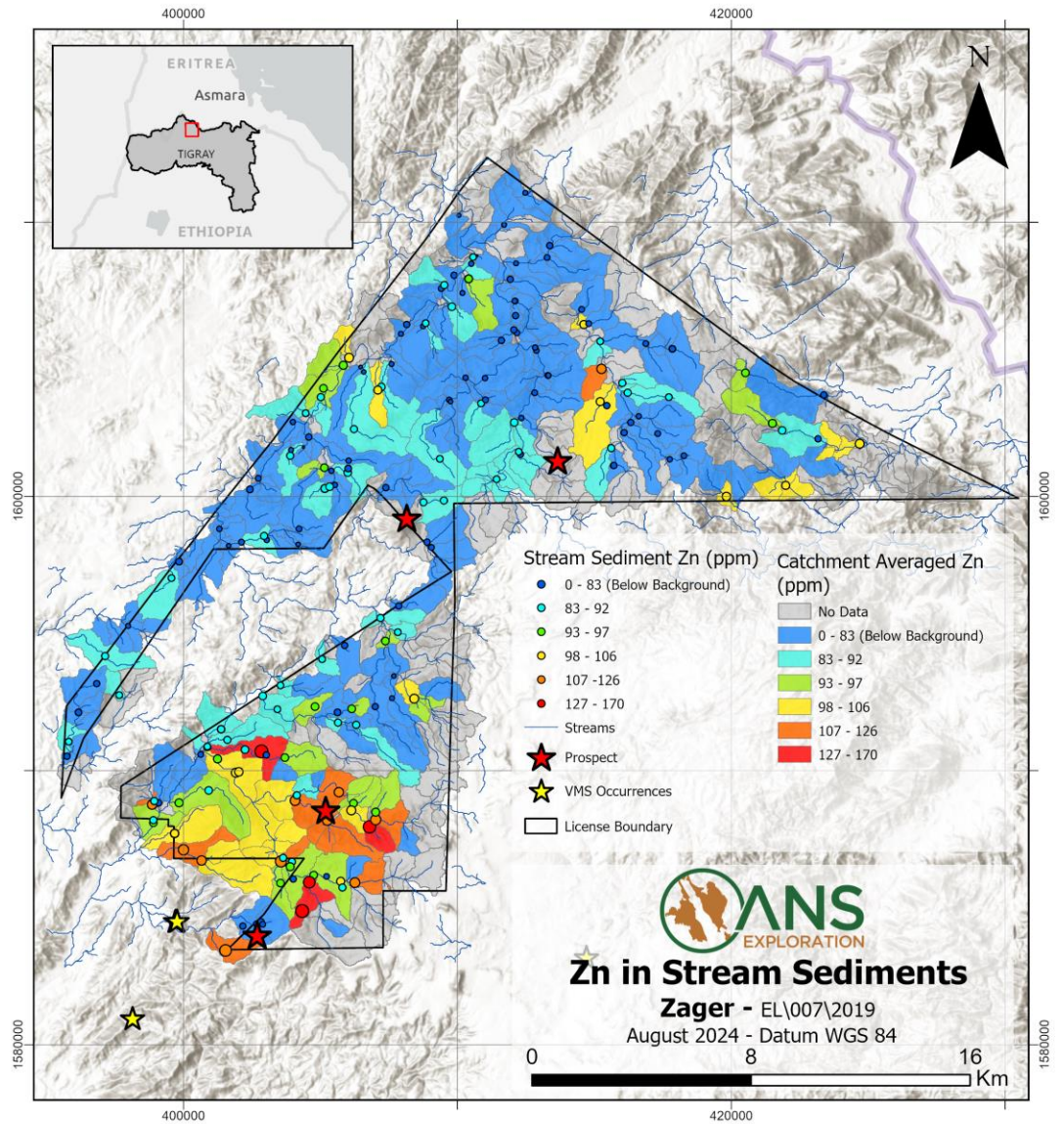
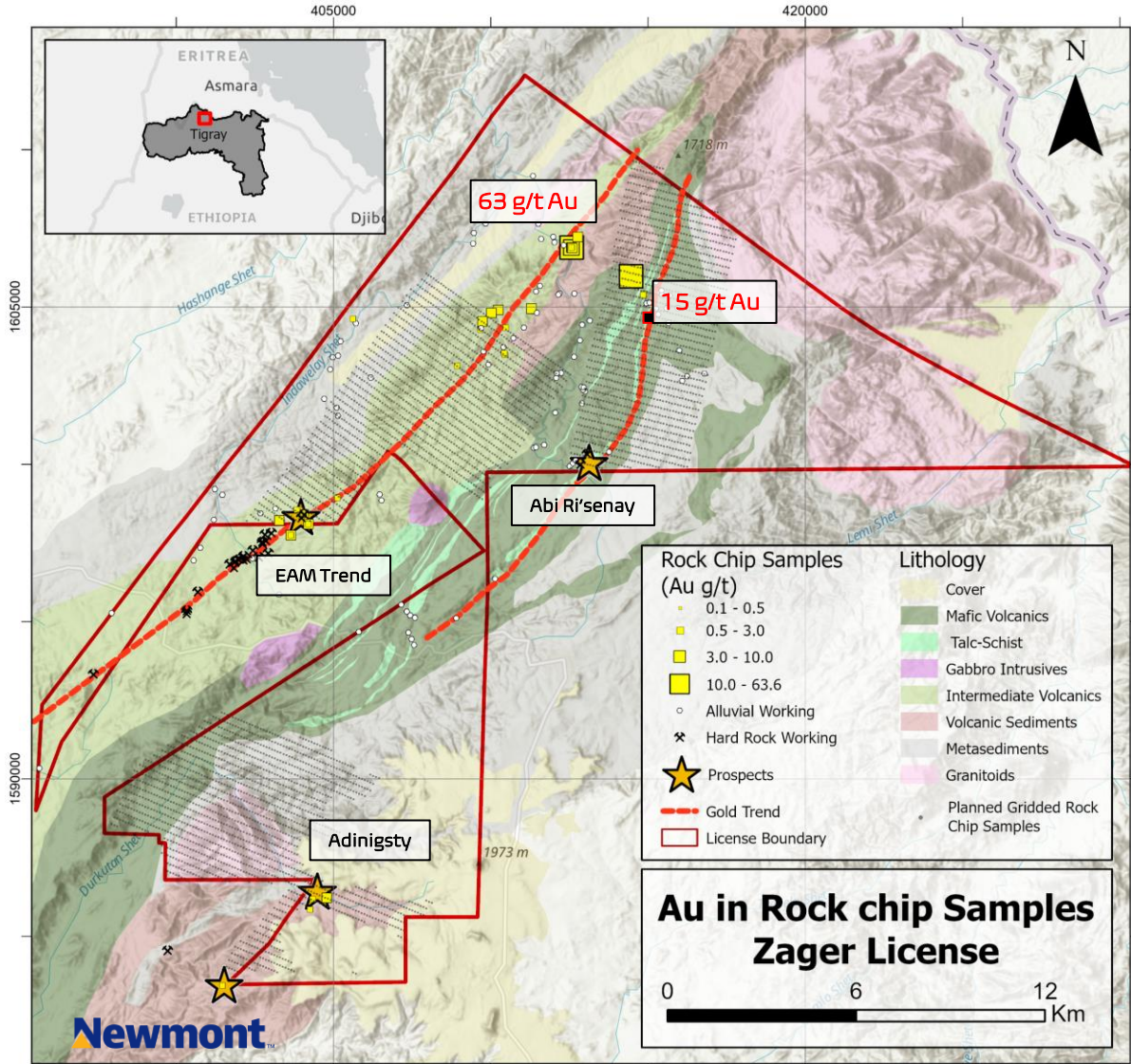
### Orogenic Gold and VMS Targets identified

- ☑ 4300 Rock Chips Assays outstanding
- ☑ Drill testing in 2025



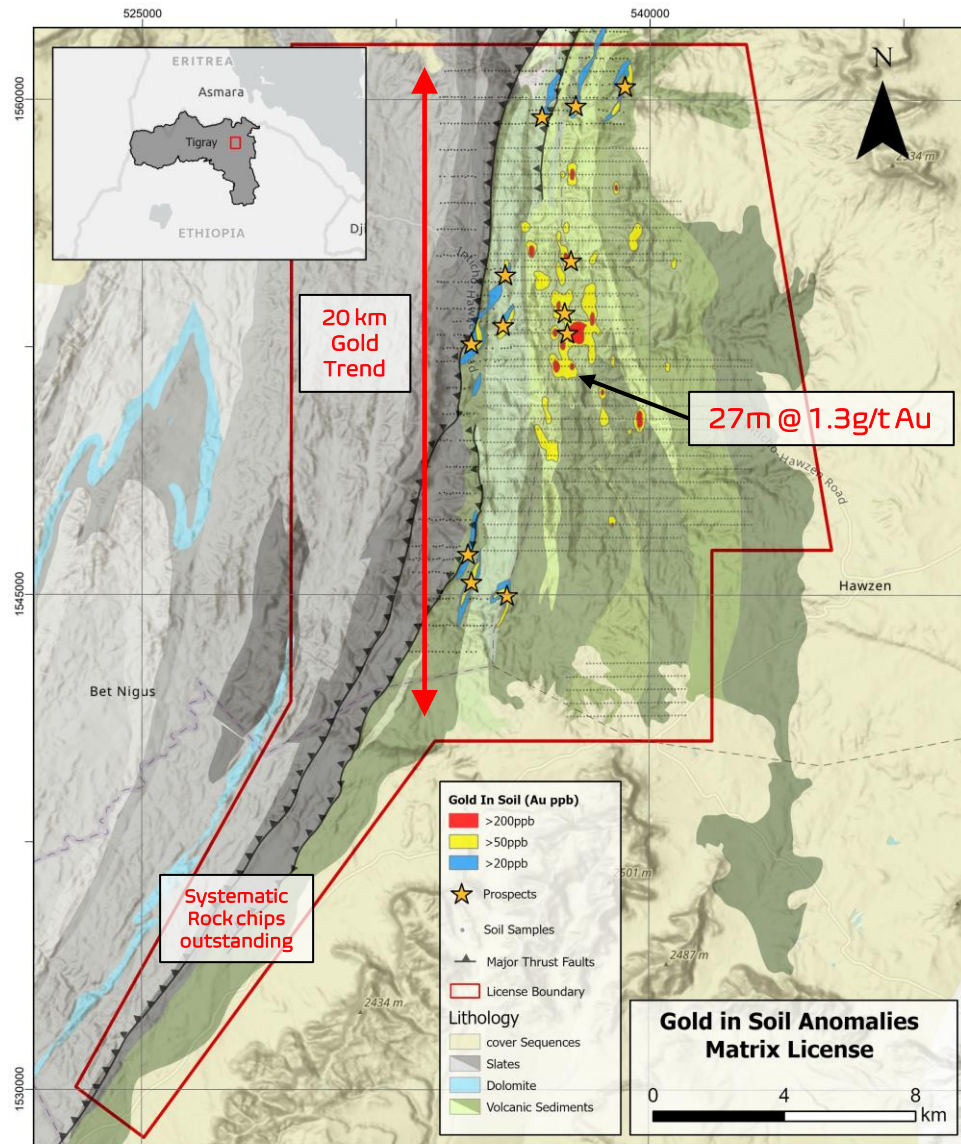


# 2 EL7 – Zager





### 3 EL532 – Matrix



- Gold license which covers major regional belt potential to host multi million-ounce Gold deposits - best intercept 27m @ 1.3g/t Au.
- All targets are Shear zone hosted orogenic gold mineralization in greenschist facies metavolcanics and metasediments. Mostly quartz-carbonate veins (see below)
- 4km NNE-SSW gold strike length associated with a sheared sericitized phyllite schist containing quartz vein swarms.

Drill testing Gold prospects along shear zone in Q2 2025!





# Saudi Arabia

ANS Exploration has a fully established 100% foreign owned operating company with Investment License in the Kingdom of Saudi Arabia.



# Saudi Arabia – Major Mining Hub



## Kingdom of Saudi Arabia (KSA)

- Emerging world-class major Mining Hub in MENA
- Transparent regulations & strong government support
- Vision 2030 targets mining as a pillar of economic diversification
- Saudi Arabia will become the Competitive energy costs, supporting cost-efficient mining and processing.
- Strategic location: A gateway connecting Africa, the Middle East, and Asia.
- Cost advantages: Energy, natural gas, water and infrastructure
- Underexplored: 650,000 km<sup>2</sup> Arabian Shield with minimal modern mineral exploration
- Largest economy within the Middle East and Africa, 17th globally
- Government programs for Exploration Companies:
  - Accelerated Exploration Program by SGS (AEP)
  - Regional Geological Survey Program (RGP)
  - Exploration Enablement Program (EEP)
  - National Geological Database (NGD)

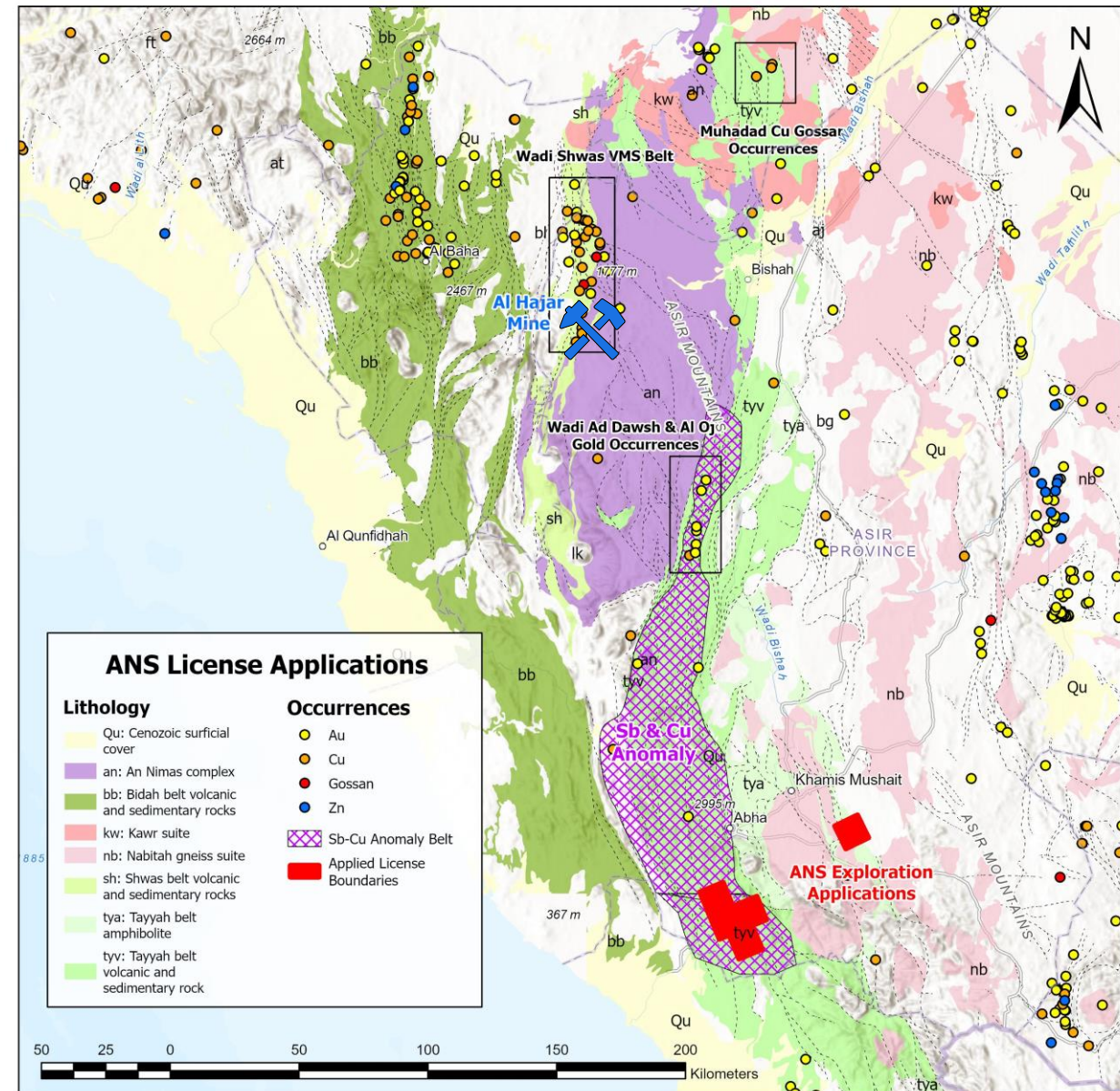
# License Applications KSA

## Geological Setting

- The Bishah region hosts Neoproterozoic volcanic/volcanoclastic greenstone belts.
- Two main belts:
  - **Wadi Shwas Gold & VMS Belt:** Hosts known VMS deposits
  - **Tayyah Structural Belt:** Underexplored, hosts volcanic basalts, andesites, and metasediments.
- Intruded by post-orogenic Kawr suite granitoids and structurally complex zones along the An Nimas Batholith.
- Fault corridors along the batholith's margin are associated with gold, antimony, and copper anomalism.

## Rationale for ANS Applications

- Licences target the southern extension of the Tayyah structural belt fault corridor.
- Located immediately south of the An Nimas Batholith, along strike of a 180km x 40km antimony & copper stream anomaly.
- Limited data, but the anomaly and existing gold occurrences suggest high potential for fertile orogenic gold mineralization.
- A strategic position for unlocking underexplored gold potential in a highly prospective corridor.

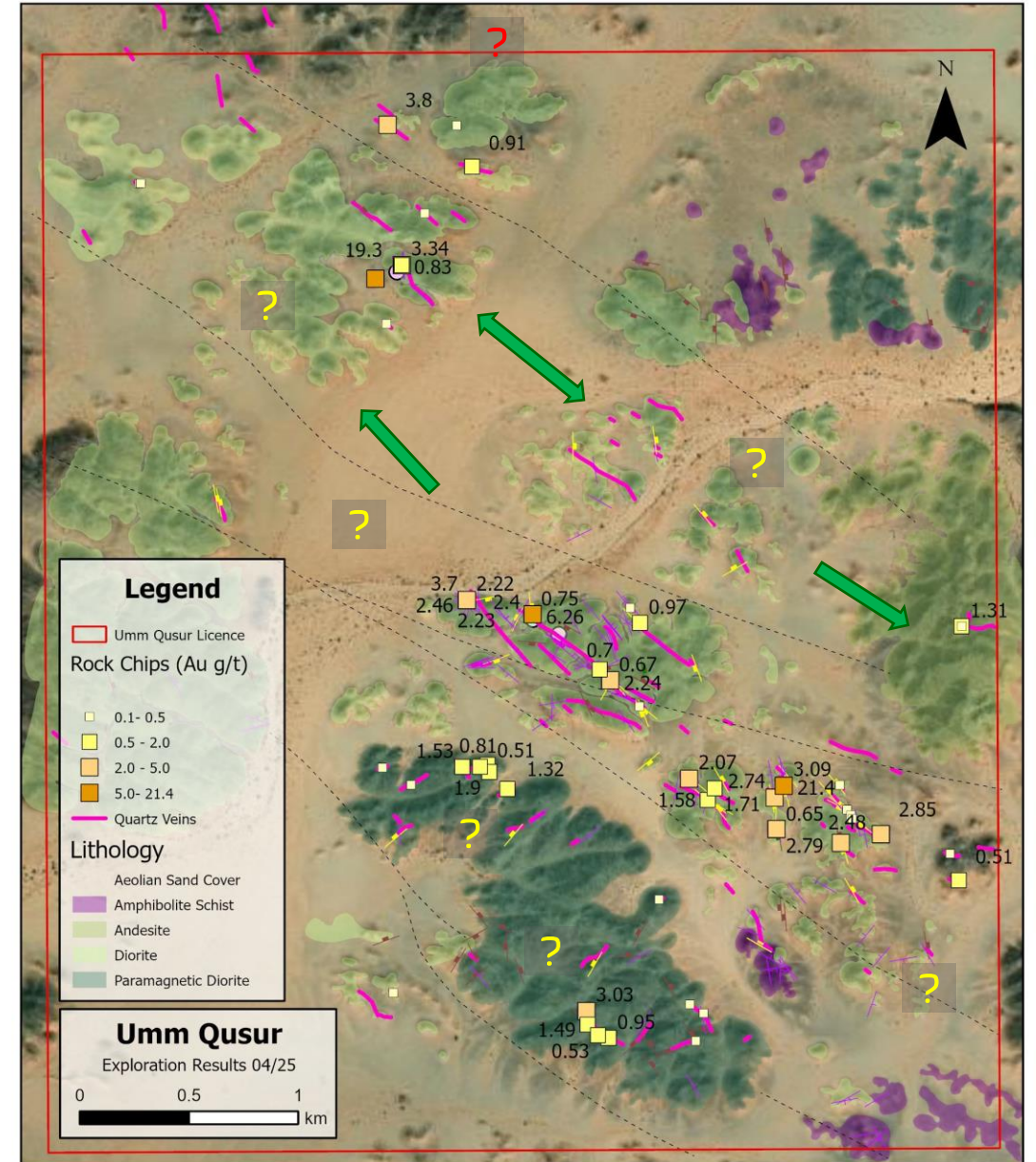




# ① Umm Qusur - Overview

## Next Steps:

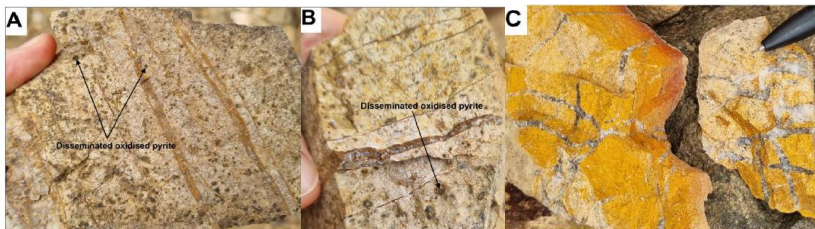
1. Systematic rock chips and geological mapping
  2. Ground IP Survey
  3. Drill testing shear zone hosted quartz veins in Q2
- The Umm Qusur license encompasses two historic gold mines with rock chip samples grading **up to 21.4 g/t Au**.
  - Current strike length mapped at 1.2 km with **potential to extend to a 5 km gold system**.
  - Additional new vein structures discovered in January 2025
  - Gold occurrences are associated with structurally controlled auriferous quartz veins, stockworks, and shear zones.
  - Very good access. Halaban is the nearest town (14 km NE), with highway access to Riyadh (280 km).



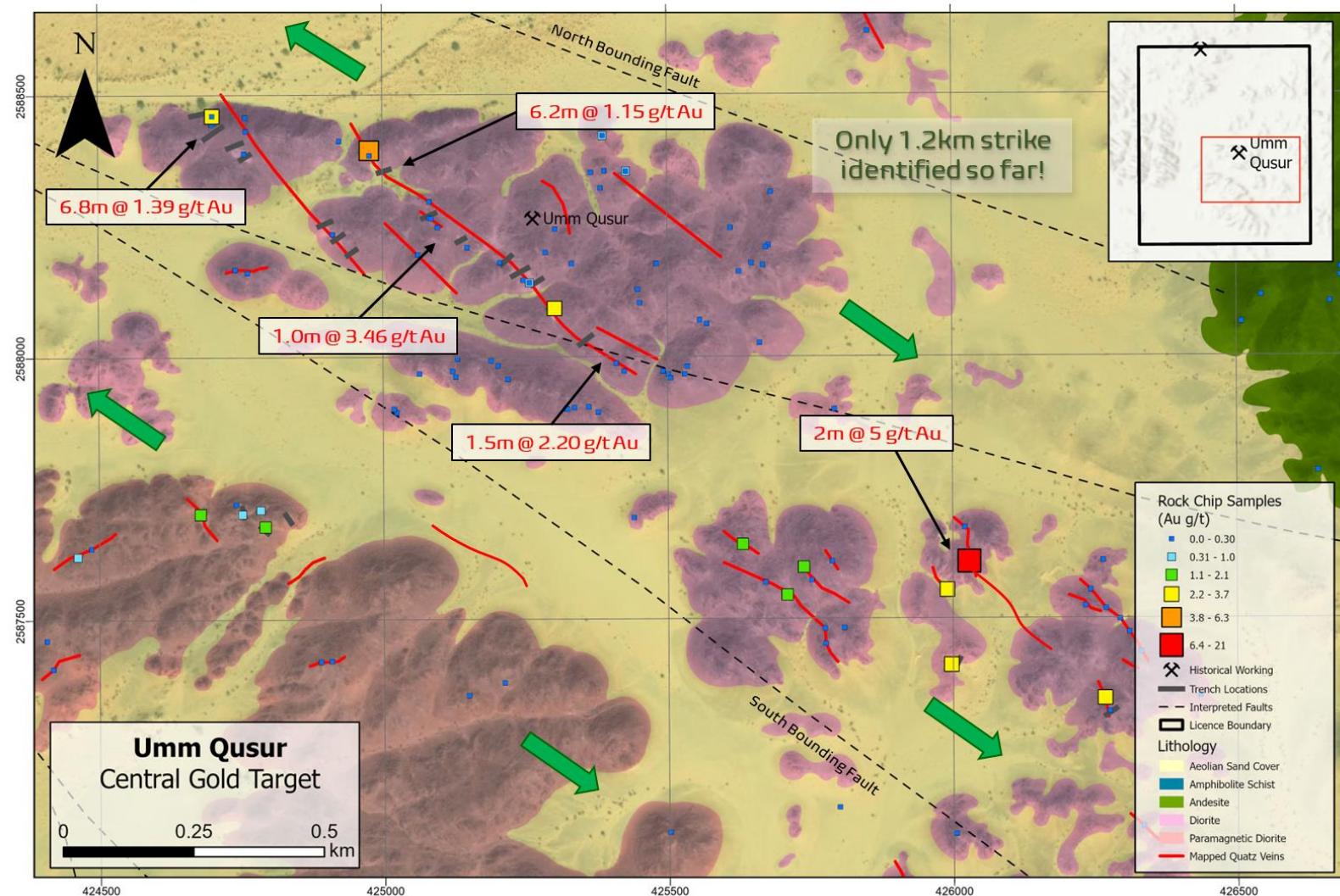


# ① Umm Qusur - Central Gold Target

- Work started January 2025: 22 samples >1.0g/t Au
- 640m of Trenching over central Umm Qusur ancient workings
- Shear zones and mineralised veins exhibit Fe-Carbonate alteration with disseminated pyrite in the surrounding diorite up to 2m in width
- Altered, veined and mineralised wallrock (A and B) Quartz-Fe carbonate veinlets with disseminated oxidised pyrite in a diorite with smoky quartz vein stockwork (C)



Altered, veined and mineralised wall rock (A) and B) quartz-Fe carbonate veinlets with disseminated oxidised pyrite, and (C) Strongly altered diorite with smoky quartz vein stockwork





# In-country Resources

# Available Drilling Equipment



Heavy machinery and drill equipment hired "at cost".  
Diamond drilling cost approx. \$30/m (all-in).

Allowing for low-cost initial target testing through to  
resource definition.



# Laboratory Facilities



ANS Exploration has one analytical equipped wet laboratory and a XRF based lab in Ethiopia (incl. sample preparation) :

- Sample preparation lab (FLSmidth)
- Fire Assay (Morgan Molten Metal Systems)
- Wet Lab (Aqua Regia and 2 Acid Digestion)
- Spectral lab ( Agilent - ICP MP AES and AAS)
- Vanta p-XRF (with GeoChem 50 kV (3 Beam))

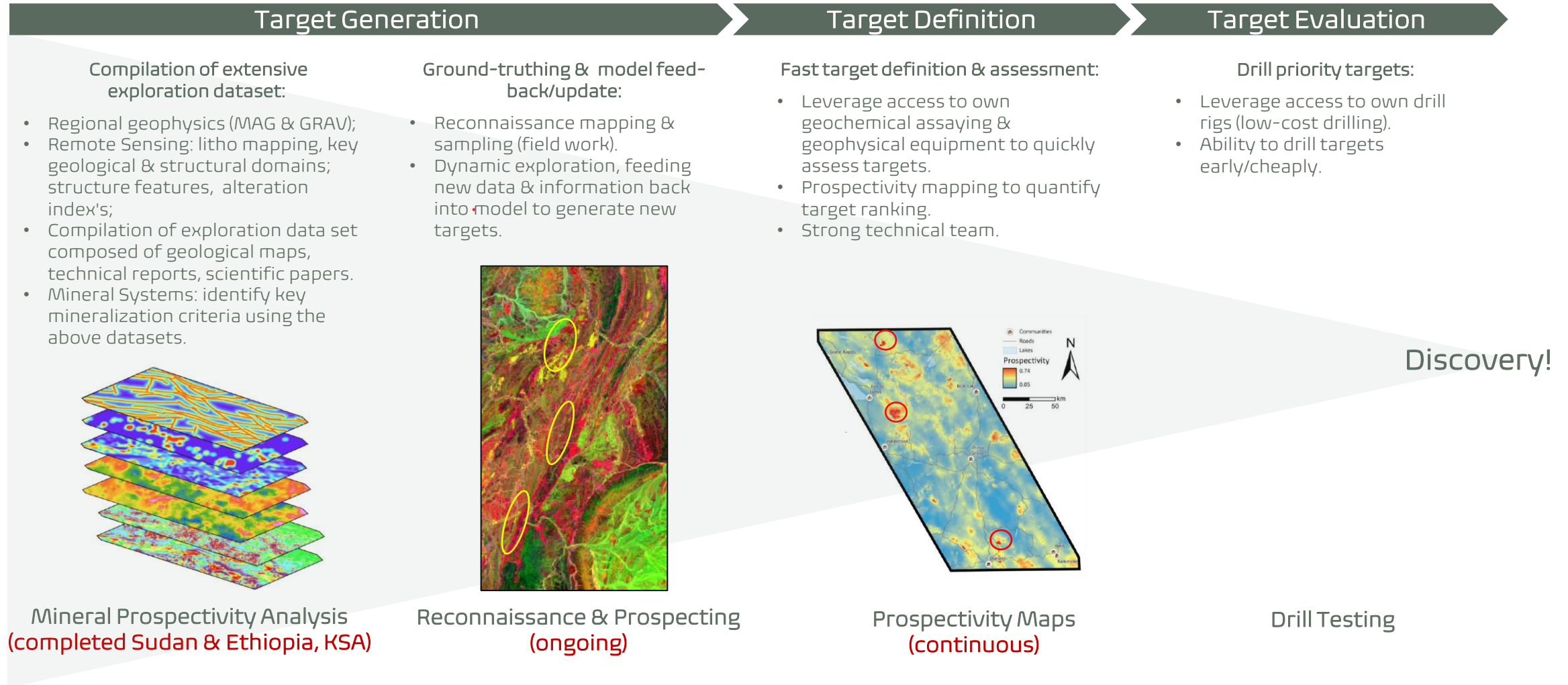
Preparation and analysis "at cost" with turnaround in <10 days. Allowing for extensive geochemical-driven exploration and dynamic decision making.

# Exploration strategy tailored towards discovery



# Data Driven Exploration Approach






Big data approach combined with strong technical expertise with the aim of identifying Tier 1 targets

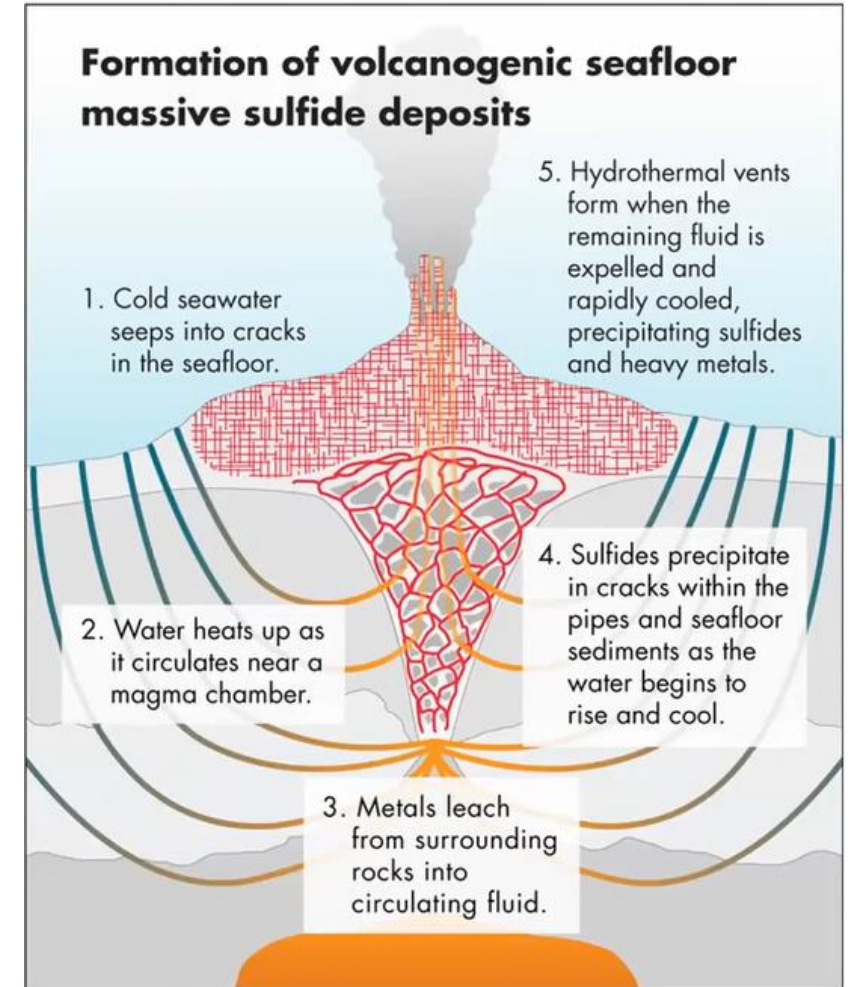


# Why focus on VMS?

- Volcanic-hosted Massive Sulfide (VMS) are still forming today and have produced world's:

22% Zn    6% Cu    10% Pb    9% Ag    2.2% Au

- Setting important:** assembly of continental land masses, magmatic arcs, back-arc basins – all present in the Nubian Shield
- VMS deposits tend to occur in clusters** like the Ariab Mining camp (a dozen VMS lenses) or districts containing from 4 to 20 deposits and each district has an average diameter of 33 km.
- Ø VMS Deposit size:** <10Mt @ 1.7%Cu, 3% Zn, 0.6% Pb, 35 g/t Ag, 1.0 g/t Au
- Well known Canadian VMS Deposits:
  - Kidd Creek        150Mt @ 5.05% CuEq
  - LaRonde        55 Mt @ 4.53% CuEq
  - Triple 777        14.5Mt @ 5.67% CuEq
  - Eskay Creek        38.5 Mt @ 4.30 g/t Au
  - Flin Flon        62.5Mt @ 5.43% CuEq
- VMS are very attractive for mid-tier mining companies and are often considered company makers
- VMS deposits in the ANS have favourable high grade Gold oxide caps







# THANK YOU

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