



Exploring
for major base & battery mineral deposits
in the Arabian Nubian Shield

May 24

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- 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.

Introduction



ANS drill rig @ Copper Dream
porphyry target (2022)

Investment Highlights

Regional focus on the highly prospective Arabian Nubian Shield (ANS)

Early-stage exploration for base- and battery metals

First mover advantage in Sudan and 1187sqkm land package in Ethiopia

Data driven exploration and systematic target testing

Experienced technical team with multi-year track record in the ANS

All year round exploration; extensive outcrop

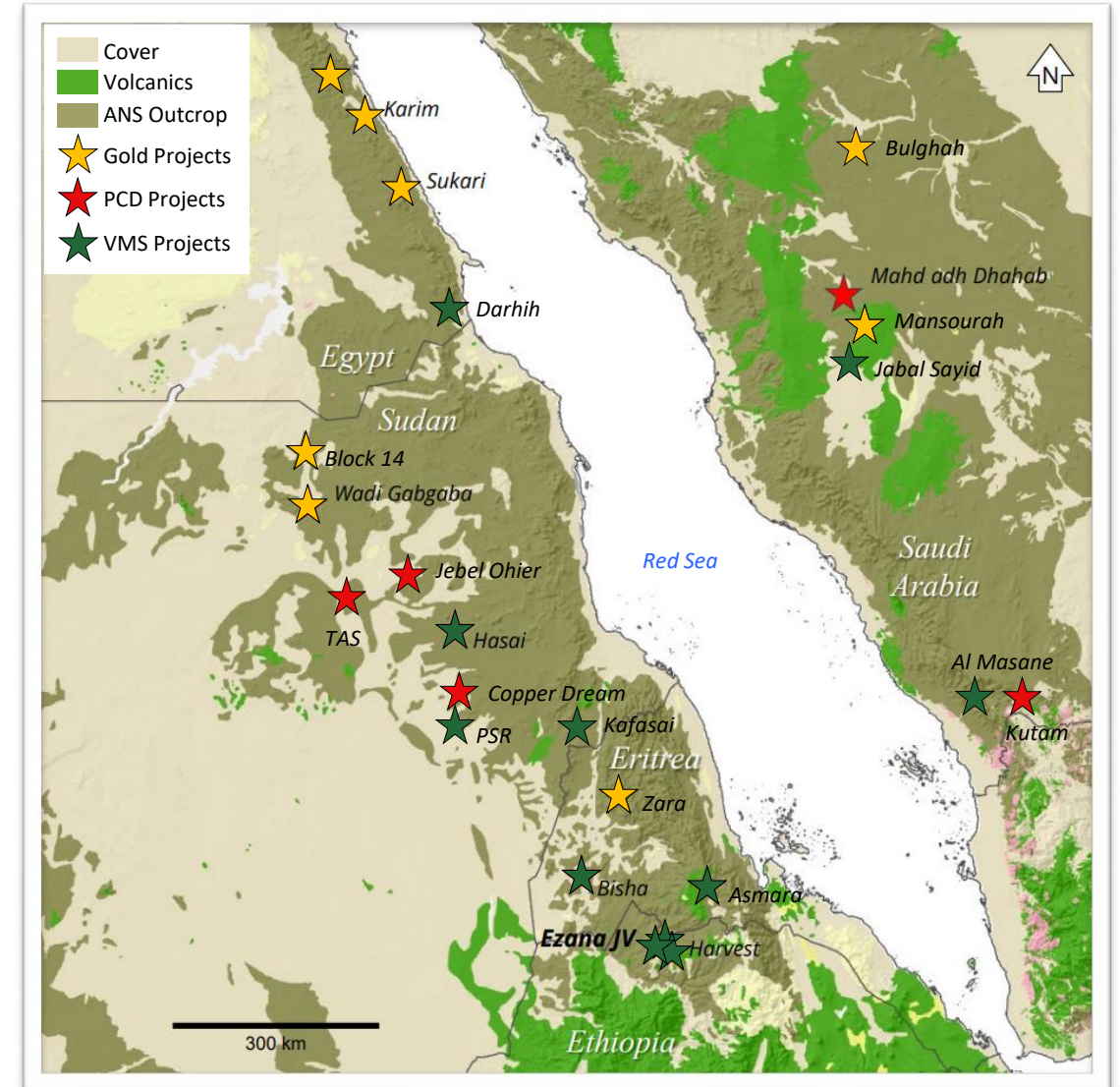
In-house assay laboratory and drilling equipment

Large insider shareholding

High probability for district scale discoveries

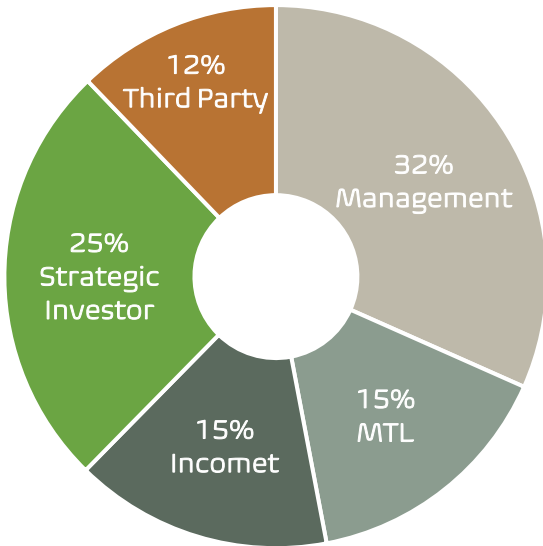
Regional and Commodity Focus

- **GEOGRAPHIC FOCUS:** The Arabian Nubian Shield (“ANS”) is a highly prospective region and an emerging world-class mineral province.
- The size of the ANS is comparable to the greenstone belts in West Africa, Canada and Western Australia.
- The ANS spreading over parts of Egypt, Eritrea, Ethiopia, Saudi Arabia, Somalia, Sudan and Yemen, which represents an area >1,100,000 km² of fertile geological environment.
- The ANS is an assemblage of Neoproterozoic accreted intra-oceanic island arc and back-arc basin complexes that formed during the rifting and break-up of Rodinia.
- The Nubian portion of the ANS has seen limited, modern systematic exploration.
- **BASET METAL FOCUS ON:** Copper, Lead, and Zinc through Porphyry, Orogenic and Volcano-genic Massive Sulphide (VMS) occurrences. Lithium via pegmatites, as well as Nickel within mafic volcanics.
- Extensive outcrop and limited weathering profile, which makes region highly prospective for surface/near surface discoveries.
- Ideal terrain for data-driven, big-picture exploration approach.
- The ANS provides for a 12 months exploration season with extensive outcrop coverage.



Corporate Snapshot

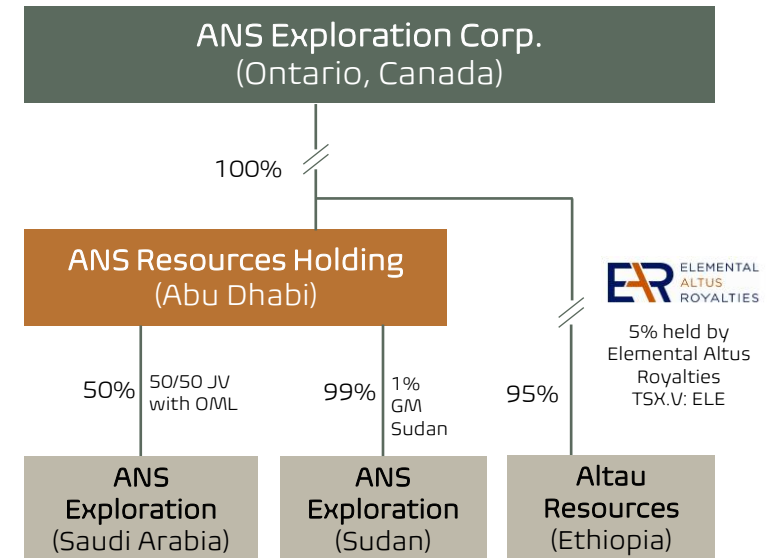
Ownership Structure



Capital Structure

Common Shares Outstanding	26,958,567
Options / Warrants	-
Debt	-
Current Valuation	CAD 4.7 m
Capital Raised to date	CAD 2.3 m
Cash Position (April 24)*	CAD 500,000

Corporate Structure



Major Shareholders



MTL is a mining and exploration company operating in the Republic of Sudan and Ethiopia since July 2018.



Incomet is a mining sector specialized investment firm.

* Additional +500k CAD shareholder loan facility available on demand (unsecured & option to convert in equity @ 8% p.a.)

Non-Brokered Financing – Series (A)

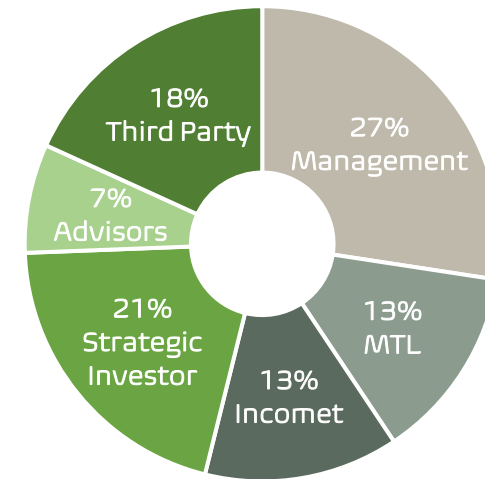
Financing Details

ANS is raising at CAD 0.175 with this first external financing round.

Lead order in tranche 1 from existing shareholders for CAD 1.1m.

Current common shares outstanding	26,958,567
Offering Price (no Warrant)	CAD 0.175
Up to CAD 1m @ 0.175 from Third Party	6,000,000

Pro-forma Shareholding



	Pre-Money Valuation (CAD m)	Share Price (CAD)	Shares issued	Proceed (CAD)	Shares outstanding	Post-Money Valuation (CAD m)
Founder Round (8 individuals)	-	0.01	4,350,000	43,500	4,350,000	-
Seed Round Management	-	0.05	11,350,000	567,500	15,700,000	0.8
PP Strategic Investors	1.6	0.10	4,525,000	452,500	20,225,000	2.0
Financing (A) Tranche 1 (closed)	2.7	0.175	6,733,567	1,178,374	26,958,567	4.7
Financing (A) Tranche 2	4.7	0.175	6,000,000	1,050,000	32,958,567	5.7

ANS is not paying any broker nor finder fees!

The Team

Management & Technical Team



Christopher Schmidt,
Founder & COO

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 partner at Incomet and fund manager for the mining fund SGI79.



Christoph Zinsser,
Founder & CEO

Christoph has over 17 years of investment banking, corporate finance advisory and fund management experience, specializing in metals and mining throughout his career (UniCredit and Société Générale). Christoph holds a bachelor's degree in economics from the LMU in Munich, Germany and is a CFA Charterholder. Christoph is partner at Incomet and Head of Finance at H2 Green Steel.



Dr. Richard Belcher,
VP Exploration

Richard is a geologist with 20 years post-PhD experience in early-stage exploration through to resource definition, project management and consultancy. Richard has extensive African experience, including 7 years in the Nubian Shield. Recent positions include Altus Strategies, Tertiary Minerals and Walkabout Resources. Richard has explored for VMS in Eritrea and Ethiopia since 2016.



Dr. Frank Bierlein,
Group Geologist

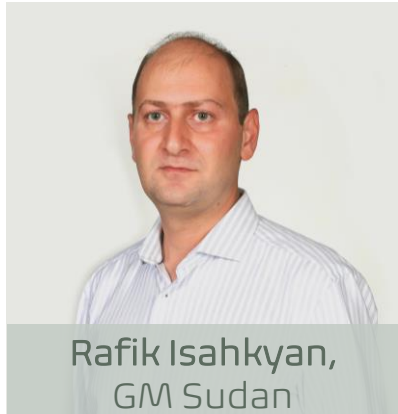
Dr Bierlein is a geologist with 30 years of experience and has held exploration and generative geology management positions with QMSD Mining Co Ltd, Qatar Mining, Afmeco Australia and Areva NC, and consulted for, among others, Newmont Gold, Resolute Mining, Goldfields and many more. Frank has been instrumental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



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 adept financial management and strategic administrative support. He has been working on projects in Tigray for 6 years.

Technical Team (excerpt)



Rafik Isahkyan,
GM Sudan

Rafik is based in Khartoum and has 6 years experience in Sudan. He was founding member of Desert Minerals and has grown this company to a producing Gold producer with more than 100 employees. Rafik has excellent relationships with governmental institutions and can organize large field programs in Sudan.



Francis MacDonald,
Technical Advisor

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. He has 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.



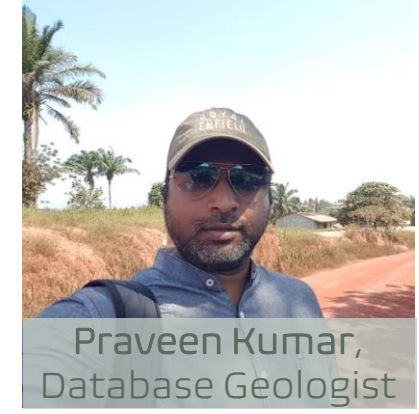
Zach Flood,
Technical Advisor

Zach is an experienced geologist who has managed mineral exploration in countries around the world including Mongolia, China, Dem. Rep. Congo, Peru, Argentina, Canada, and the U.S., over the past 15 years. He is co-founded ANS Minerals Ltd in 2016. Prior Zach spent numerous years within the Ivanhoe Group.



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

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 QA/QC Reporting, Multispectral & Hyperspectral Remote Sensing.

Technical Team (excerpt)



**Ashenafi Meresa,
Senior Geologist**

Ashenafi has 12 years of experience as an exploration geologist and prospector. He has spent his time in the field in Ethiopia, Cameroon and Morocco with focus on orogenic gold and epithermal deposits. Ashenafi has a M.S.c in Economic Geology from Mekelle University.



**Tewelde Hailu,
Senior Geologist**

Tewelde is a senior geologist from Mekele with more than 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.Sc. 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.



**Sintayehu Alemu
Exploration Geo**

Sintayehu is an Ethiopian geologist with several years of experience in orogenic Gold exploration and VMS. He has gained experience with Allied Gold and has led laboratory activities within the exploration industry.

Exploration strategy tailored towards discovery

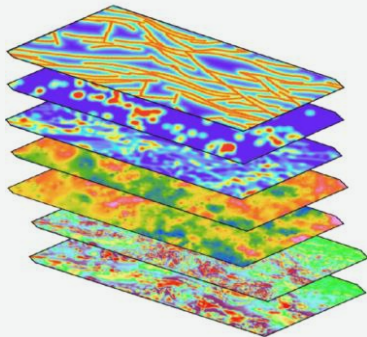
Data Driven Exploration Approach

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



Target Generation

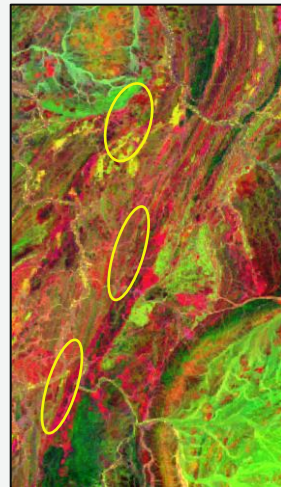
- Compilation of extensive exploration dataset:
- Regional geophysics (MAG & GRAV);
- Remote Sensing: litho mapping, key geological & structural domains; structure features, alteration index's;
- Compilation of exploration data set composed of geological maps, technical reports, scientific papers.
- Mineral Systems: identify key mineralization criteria using the above datasets.



Mineral Prospectivity Analysis (completed Sudan & Ethiopia)

Target Definition

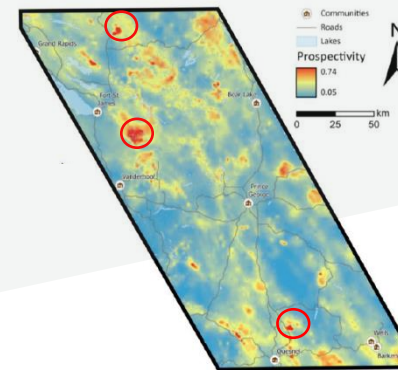
- Ground-truthing & model feed-back/update:
- Reconnaissance mapping & sampling (field work).
- Dynamic exploration, feeding new data & information back into model to generate new targets.



Reconnaissance & Prospecting (ongoing)

Target Definition

- Fast target definition & assessment:
- Leverage access to own geochemical assaying & geophysical equipment to quickly assess targets.
- Prospectivity mapping to quantify target ranking.
- Strong technical team.



Prospectivity Maps (continuous)

Target Evaluation

Drill priority targets:

- Leverage access to own drill rigs (low-cost drilling).
- Ability to drill targets early/cheaply.

Discovery!

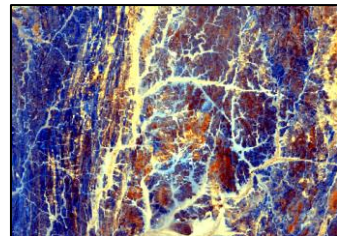
Drill Testing (Q2 2024)

Extensive dataset

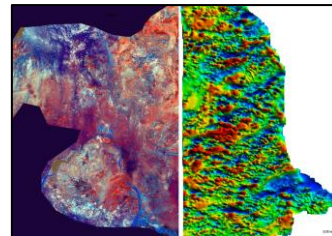
Mineral prospectivity analysis: Exploration data layers digitized and developed over a period of two years



ANS is exploring an area the size of Europe



520,000 km² Landsat & Aster spectral images



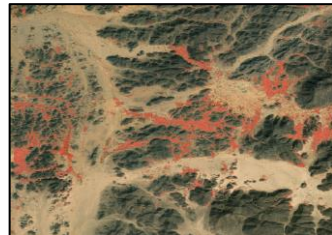
ANS Gravity and Magnetics from 1988 - 2022



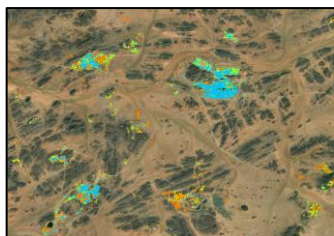
Mapped structural geology



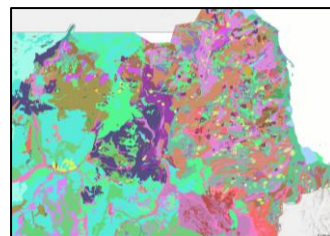
Known occurrences (VMS; PCD; Au; REE)



Mapped artisanal through machine learning (Au)



Multiple layers for alteration styles (10+)



Digitized 50k geology rasters for Sudan and Ethiopia




>400 georeferenced and digitized company reports and research papers

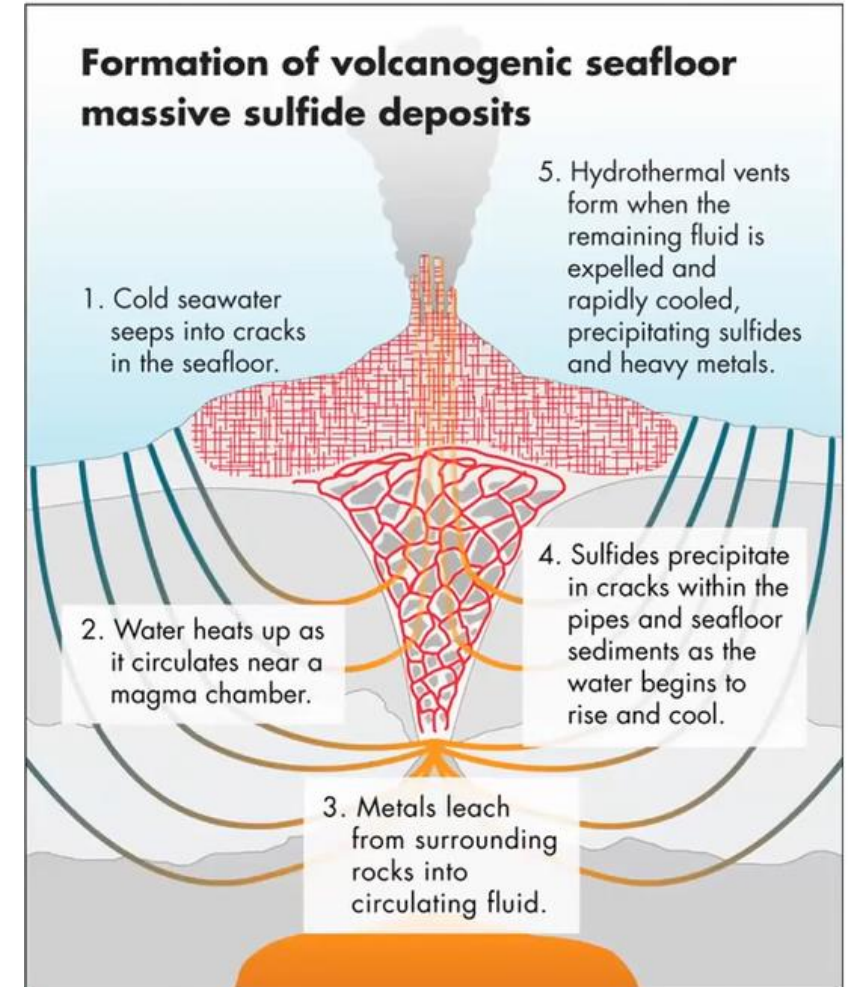
- Big data approach to exploration by developing the most comprehensive dataset in the ANS over the last 24 months.
- Collected data feeds into Mineral Prospectivity Analysis to generate target areas
- Our systematic country wide **generative strategy** allows us to focus on belt scale prospectivity with genuine Tier 1 deposit potential.
- Our GIS team is **continuously improving and growing** the dataset through data compilation and digitization.
- Our **collaboration agreement** with the Sudanese geological survey to digitize the technical library in Khartoum, provides access to never digitized reports from 1960 - 1995.

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



Overview Ethiopia

Dr. Richard Belcher in Ethiopia
(Tigray Province – July 2023)

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Overview Ethiopia



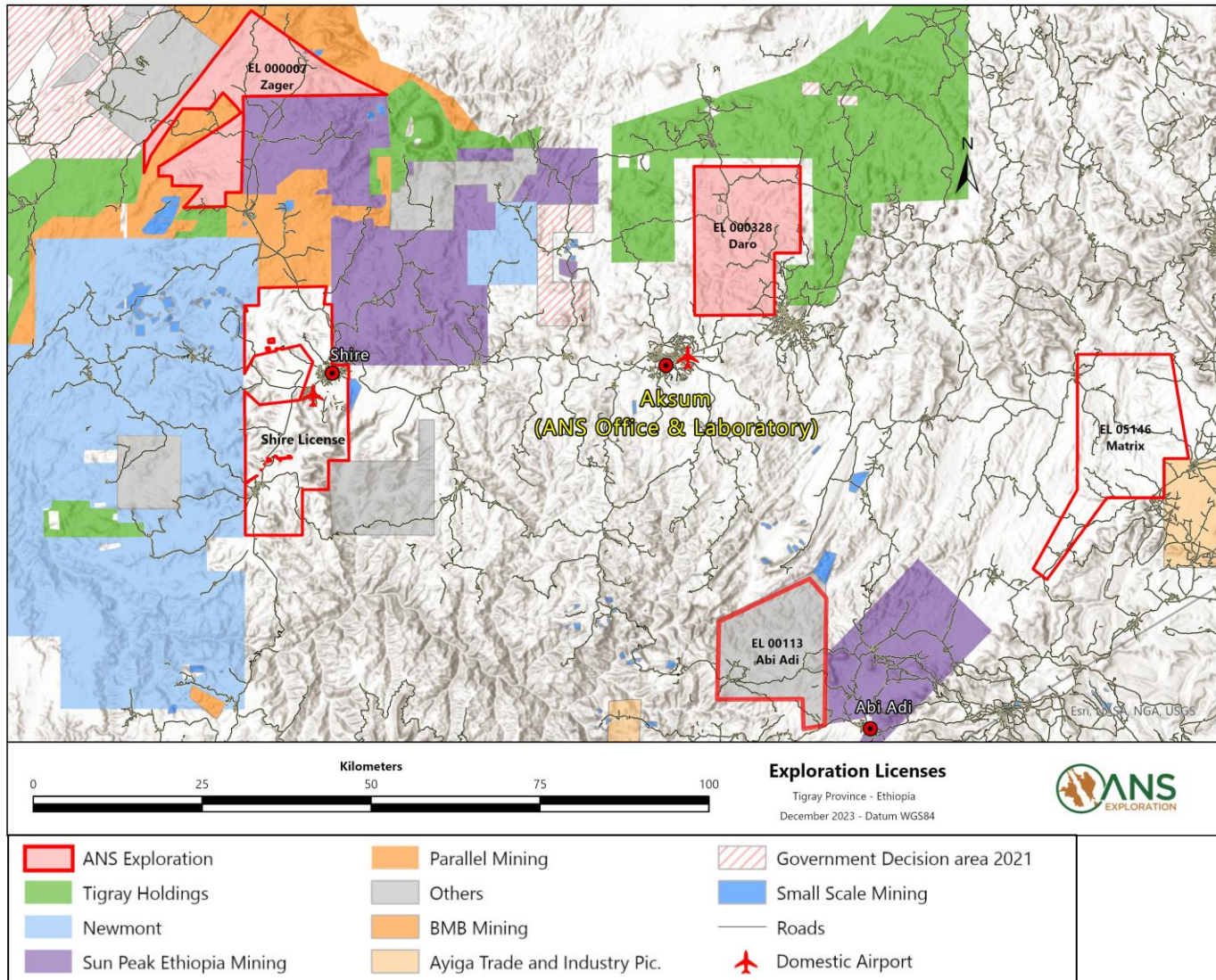
Federal Democratic Republic of Ethiopia

- 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)
- Daily int. & domestic flights (Ethiopian largest African Airline)
- Climate of Ethiopia is highly diverse, ranging from equatorial rainforest with high rainfall to desert region in northeast
- Extensive road, airport and power infrastructure in place
- Annual license (land rent): 5k USD
- Royalties: 7% for Gold; 5% for Metallic Minerals
- 25% corporate tax rate and permits 10 years loss carry forward
- 100% exploration cost recovery for successful companies
- Ownership: 5% government equity



Population	116 M	GDP nominal	\$156B	Unemployment Rate	4.5%	Inflation 2021	8%
Population Growth	2.50% p.a.	GDP Growth	~6% p.a.	Exploration Licenses #	510	Net FDI	~4.5B

Exploration Licenses (EL) Ethiopia

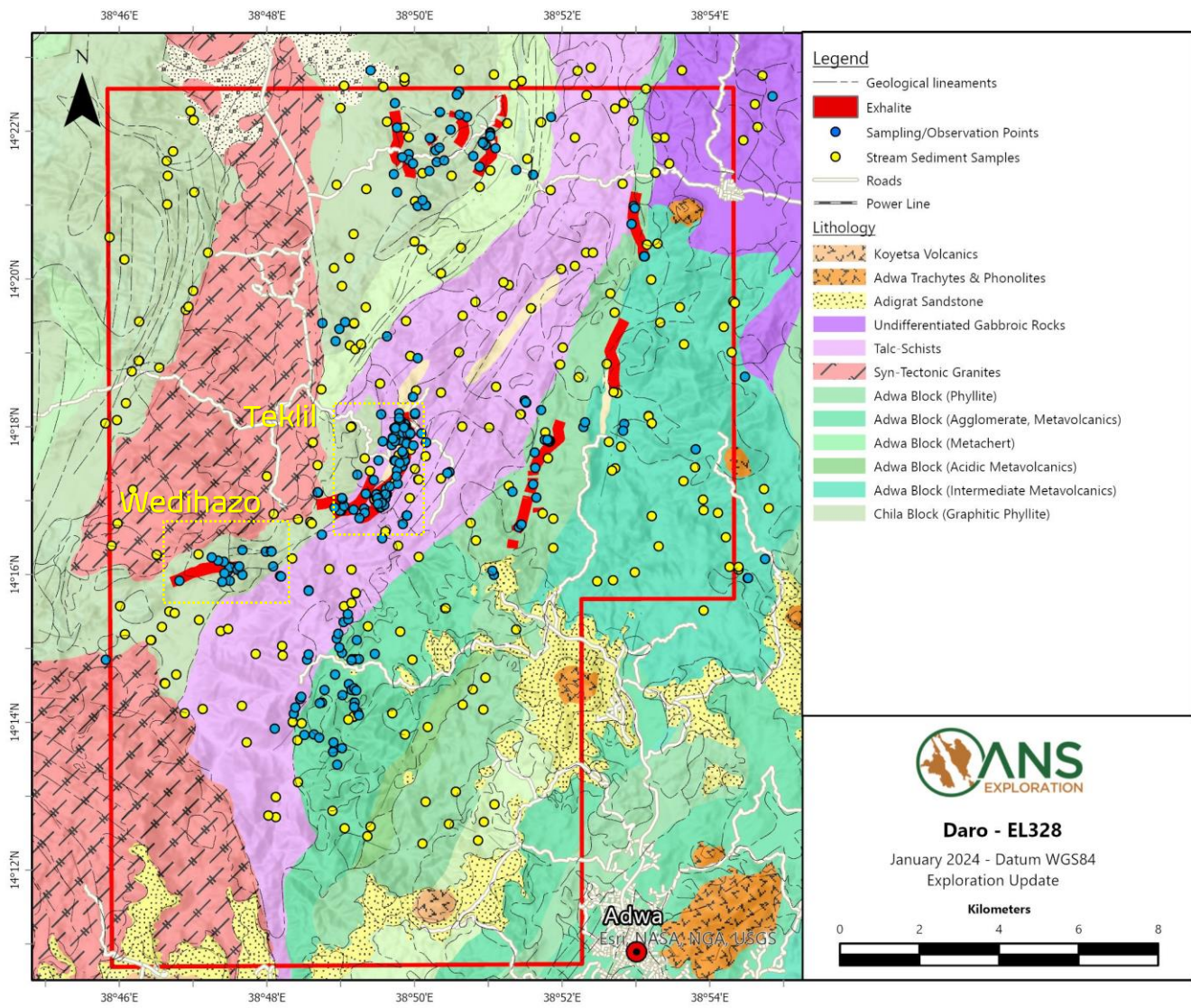


- 1 EL 328 (Daro) - 300 km²
95% Direct Ownership
- 2 EL 7 (Zager) - 285 km²
95% Direct Ownership
- 3 EL 113 (Abi Adi) - 260 km²
JV with earn-in up to 80%
- 4 EL 5146 (Matrix) - 342 km²
JV with earn-in up to 95%

Total land package as of December 2023:
1187 km² (118700 ha)

Additional EL applications submitted to expand land package based on mineral prospectivity analysis.

1 EL328 – Daro



Geology Overview:

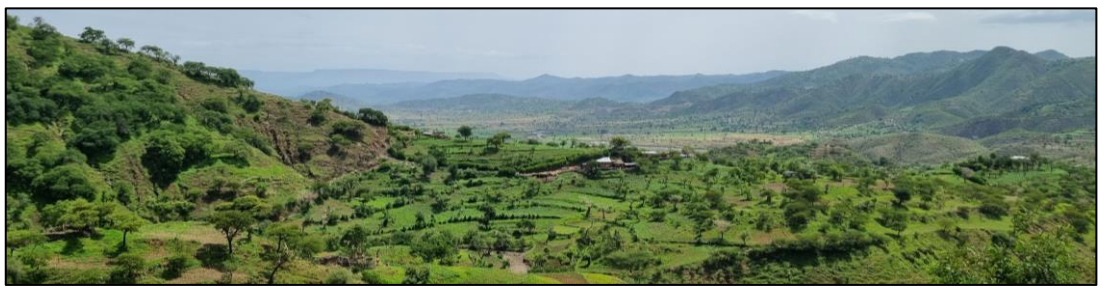
- Underlain by rocks of the Adi Arbate Group (quartzite & graphitic schist, greywackes and conglomerates), & Adi Abun Group (intermediate (andesitic) metavolcanics).

Work completed (in Q4 2023 & Q1 2024):

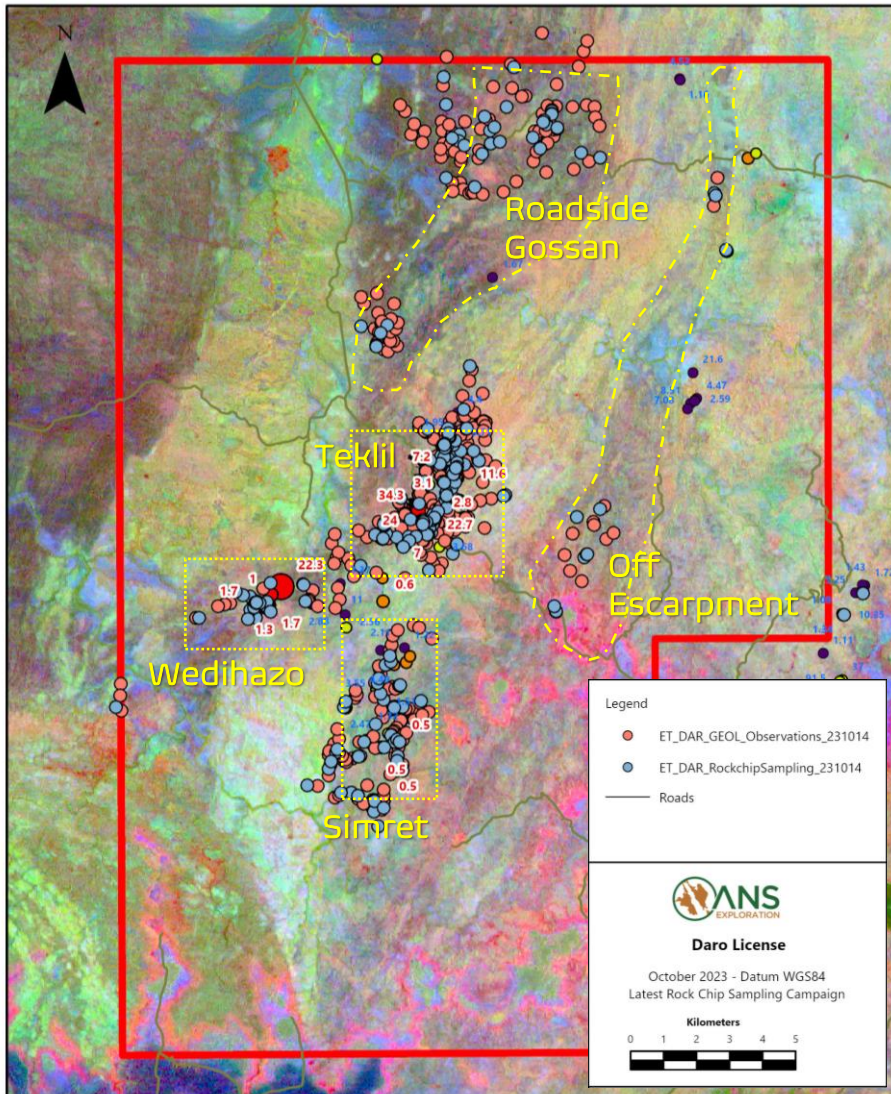
- Rock Chips: 263 rock chip samples over prospects
- Geological Mapping: 435 Observation Points for Geological Mapping
- Stream Sediment Campaign: 225 Stream Sediment Samples

Key features (VMS):

- Seafloor volcanic sequences (including pillow basalts)
- Exhalative (± Fe) horizons (hydrothermal venting)
- Associated with wide-spread silica, sericite alteration.
- Gossanous horizons identified in outcrop.



1 EL328 – Daro Targets

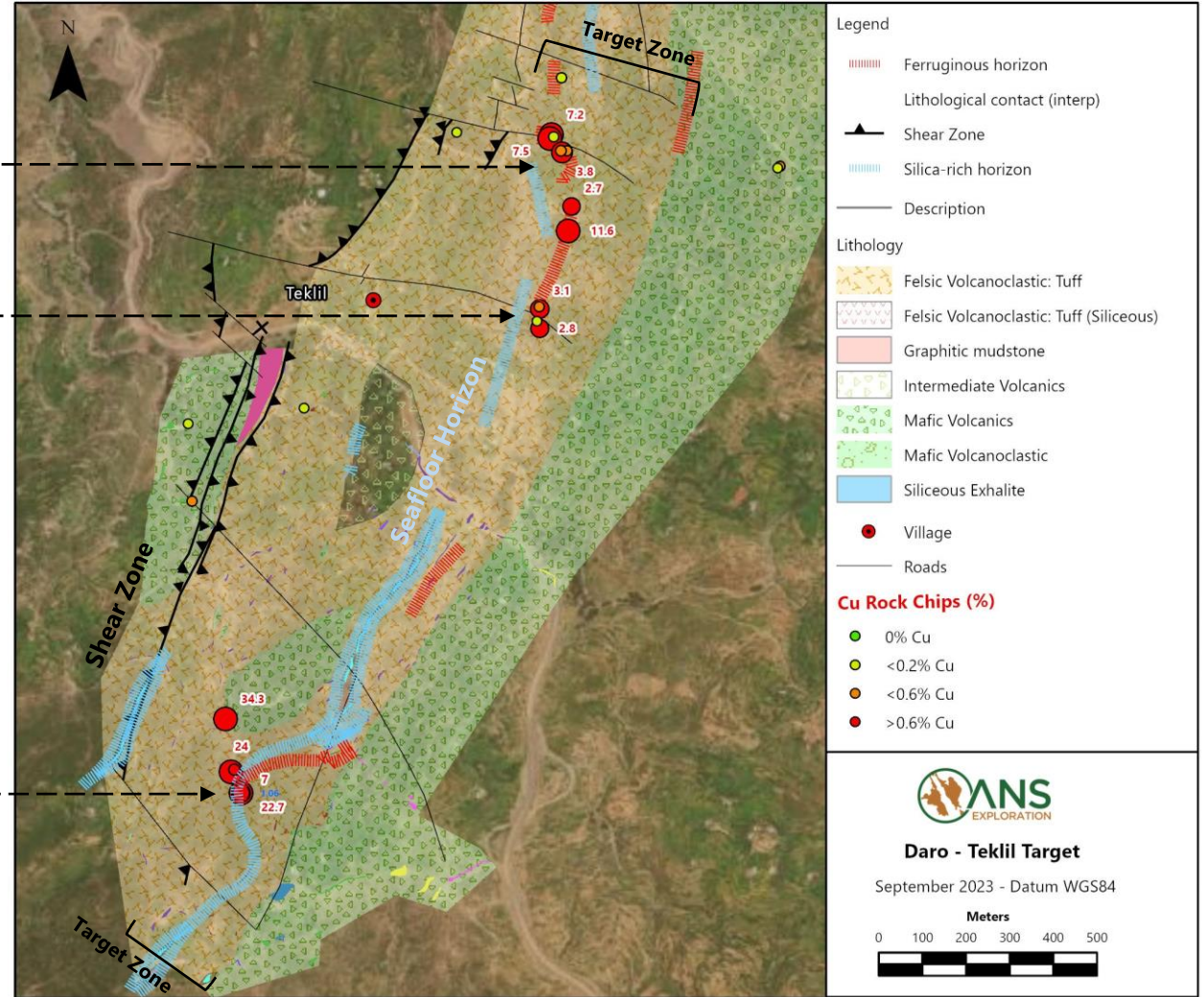


- Strike of prospective sea floor sediments haven been identified for several kilometers in the last few months.
- Focus areas below show outcropping silicified and ferruginous sea floor horizon:
 1. **Teklil VMS:** multiple exhalate horizons identified with elevated Au, Ag, Cu values (up to 34% Cu) over ~ 2 km strike. Wide-spread Si alteration, secondary Cu.
 2. **Wedihazo:** possible continuation of same package as Teklil. Exhalative horizons with wide-spread silica alteration & secondary Cu (up to 1.7% Cu) over ~ 1 km strike
 3. **Simret:** float samples enriched with secondary copper (up to 0.48% Cu) identified in streams over ~2 km.
 4. Several prospective, km-scale (strike), horizons identified (**Off Escarpment; Roadside Gossan**)

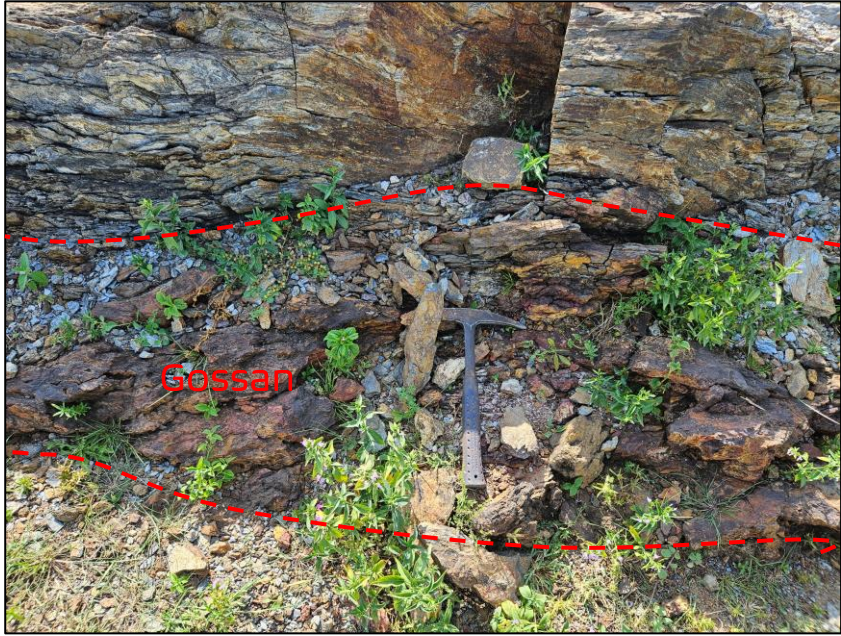
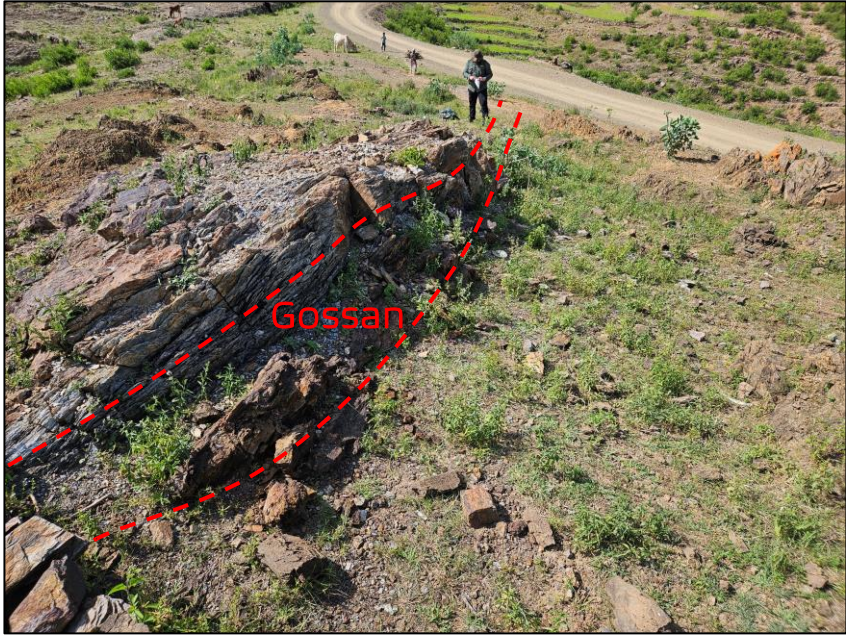
① EL328 – Daro (Wedihazo Discovery)



1 EL328 – Daro (Teklil Discovery)



1 EL328 – Daro (Roadside Gossan)

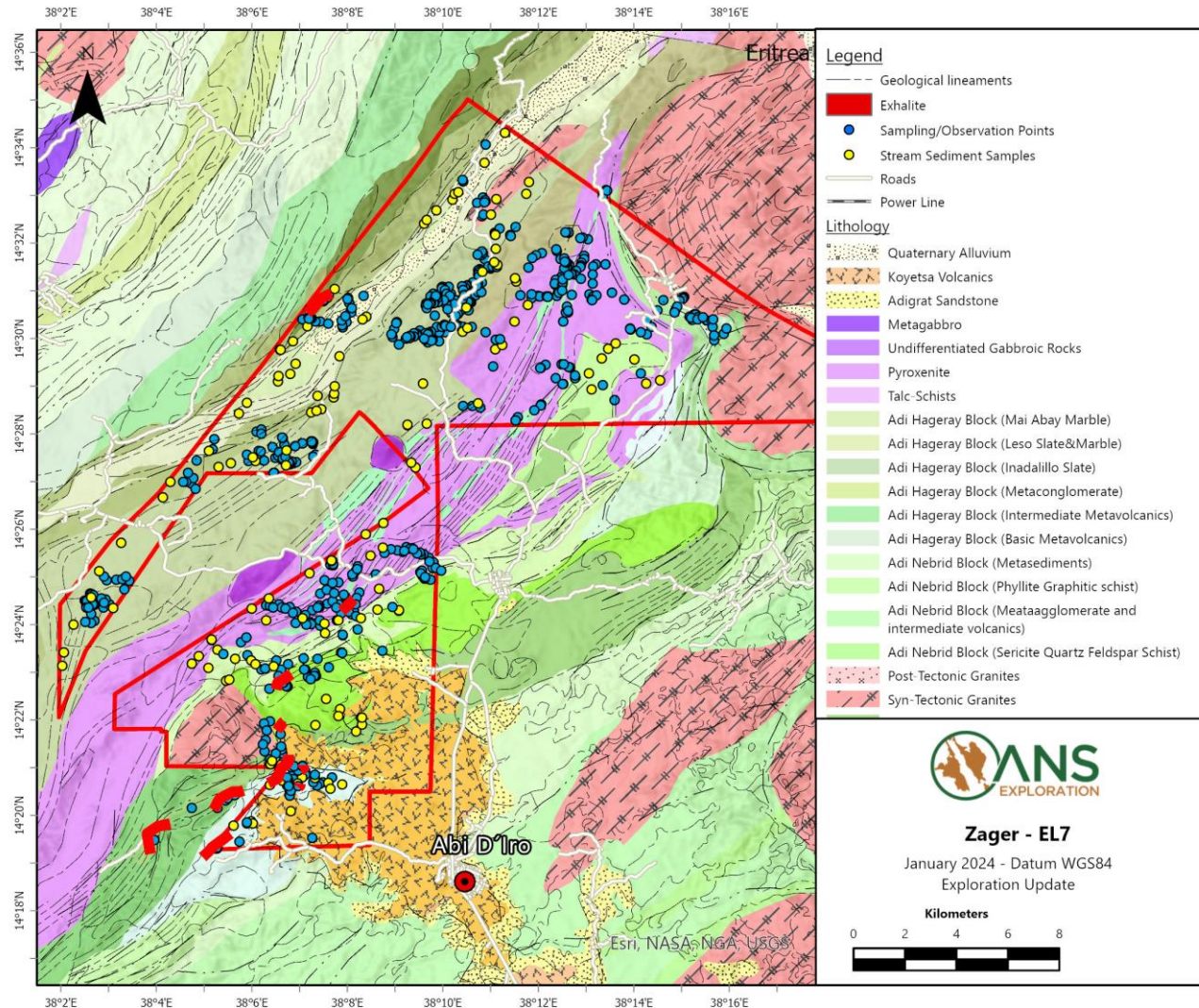


① EL328 – Daro (Off-escarpment Target)



2

EL7 – Zager



Highlights:

- Located in the same geological package as the Asmara Projects (to the NE in Eritrea) and Adeyabo projects (directly SW) by Newmont. Both projects are large VMS discoveries.
- Several VMS horizons discovered with assays >1% Cu

Work completed (in Q4 2023 & Q1 2024):

- Rock Chips: 425 rock chip samples over prospects
- Geological Mapping: 186 Observation Points
- Stream Sediment Campaign: 148 Stream Sediment Samples

Geology Overview:

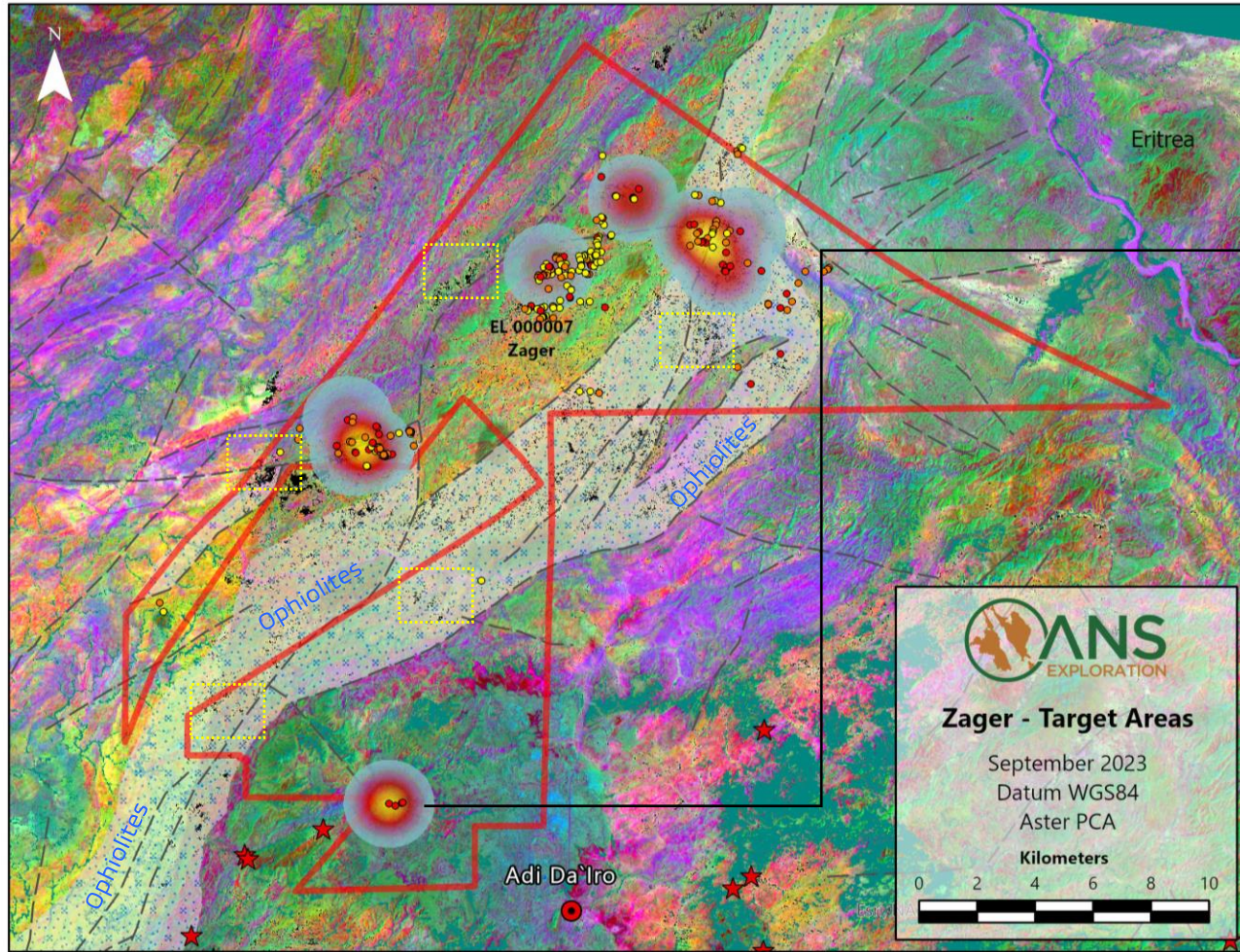
- Underlain by rocks of the Adi Hageray Block (slates and calcareous schists, intermediate volcanics) and Adi Nebrid Block (mafic volcanics & volcanoclastics, phyllitic & graphitic schists).

Key features (VMS Prospectivity):

- Seafloor volcano-sedimentary sequences (mafic volcanics, cherty sediments)
- Exhalative (\pm Fe) horizons (hydrothermal venting)



2 EL7 – Zager Targets



- Rock
- Chips
- Cu_PPM
- Cu Anomaly Area
- Known VMS Occurrence
- Remote Sensing MF_Gossan_Beta

Assays pending!



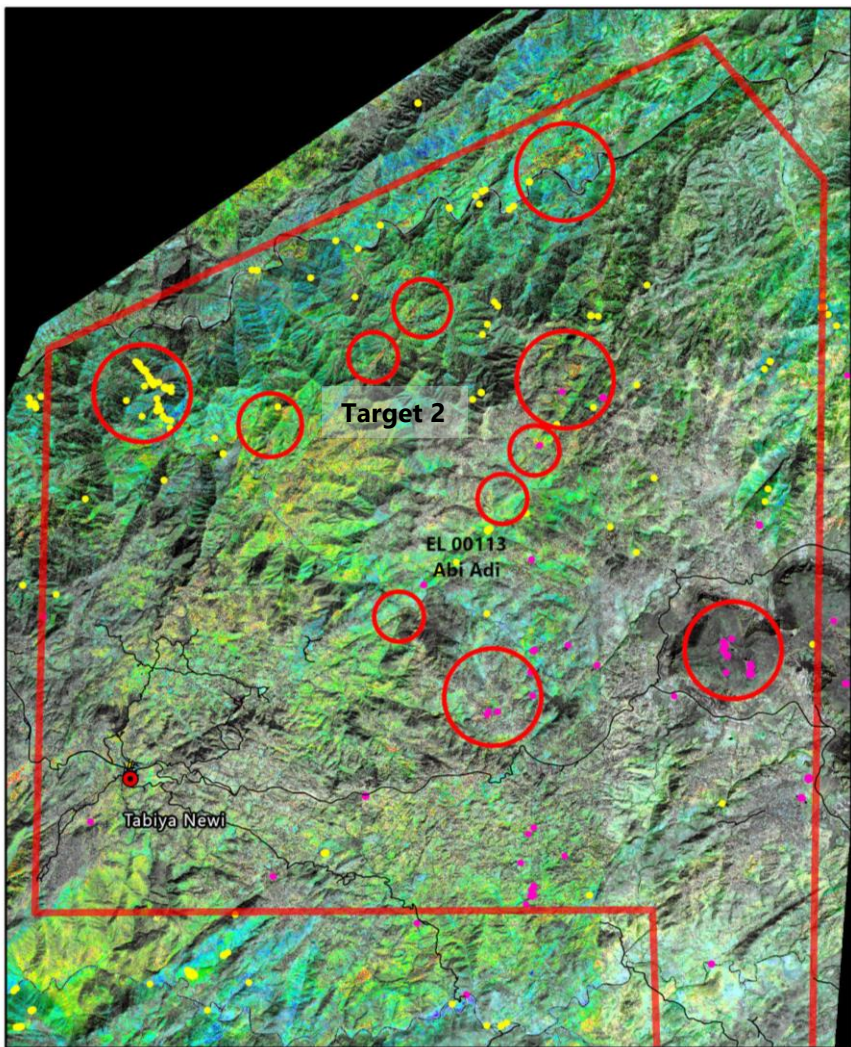
Assays pending!



- License covers 19km of Ophiolites, which is prospective for VMS (uplifted former sea floor).
- Rock chips have identified several Cu anomalies, which require follow up.
- The in-house “MF_Gossan 3.0” remote sensing targeting spectral layer has identified several areas.
- The target areas are all along strike the known VMS deposits from East African Metals and Newmont Corporation.

3

EL113 – Abi Adi



	Targets to be tested
	WV3_Malachite
	WV3_Dolomite
	Roads
	Village

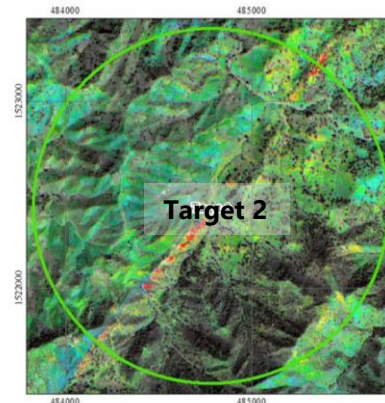
ANS EXPLORATION

Abi Adi - Targets (Remote Sensing)

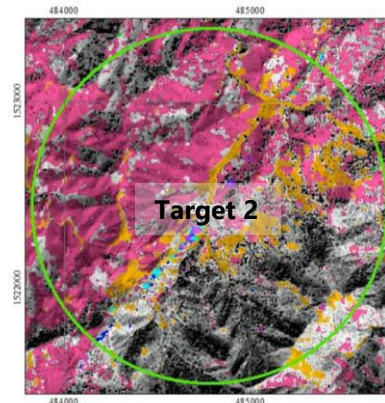
September 2023 - Datum WGS84
World View 3 - Clay/Fe Spectrum

Kilometers
0 1 2 3 4 5

- WV3 imagery indicate that hydrothermal alteration is present. These zones have bright red signatures on the Clay/Iron image. Spectral image processing has been carried out using 16 band WV3 data at 3.7m pixel.
- The WV3 MinMap-Topo Image is shown: A colour image is constructed from the 11 Mineral Mapping units and this is then draped over a single band Topographic image derived from the first Principal Component of the visible bands 2,3,4 & 5 at 3.7m pixel.
- **New greenfield discovery in December 2023 of VMS horizon**



Imagery shows strong reds indicating possible alteration



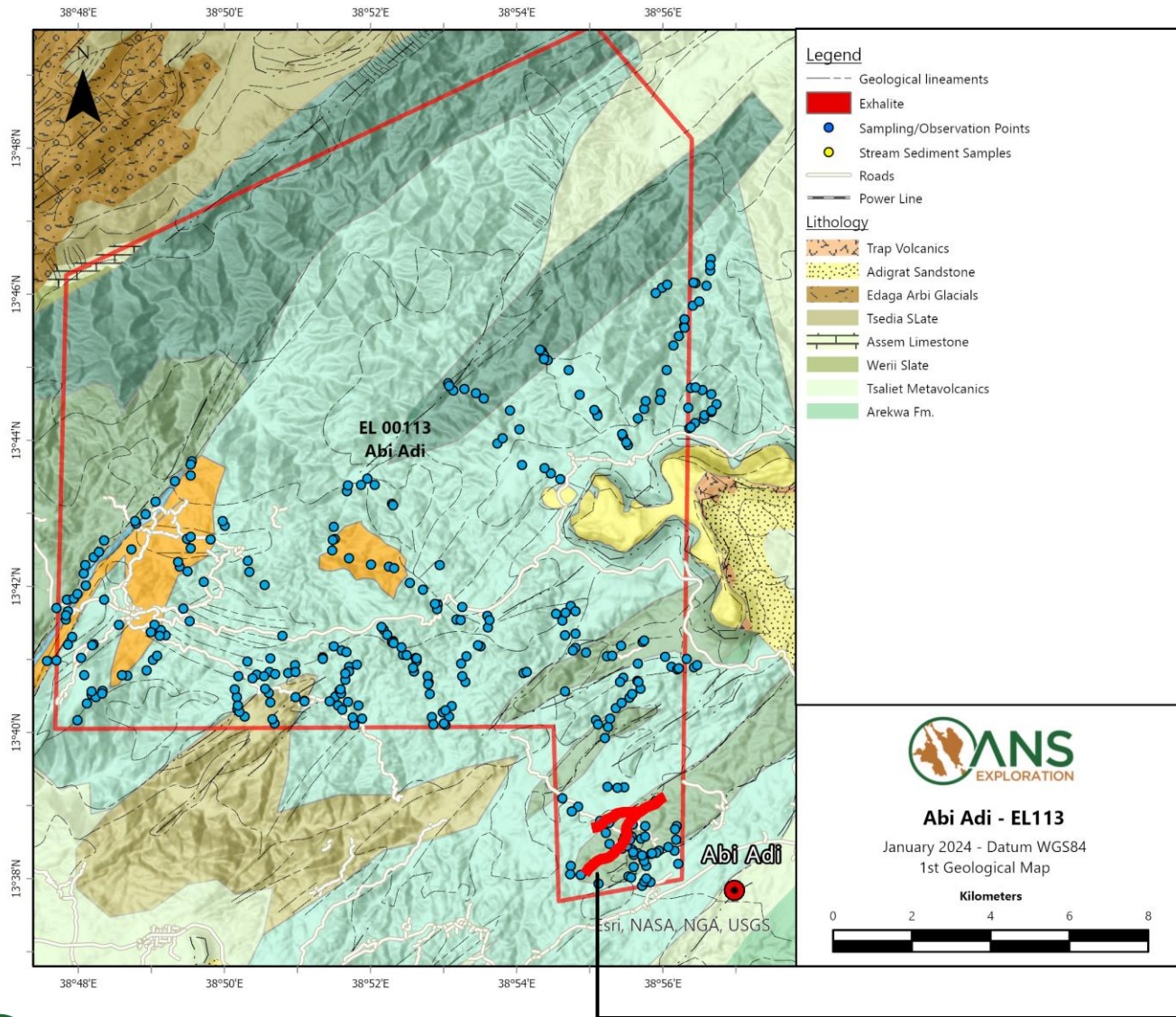
Hydrothermally altered rocks (Blue: Phyllic alteration)

Argillic		Arg-Gss	
CPS		Arg-Hae	
Phyllic		CPS-Gss	
Haematitic		CPS-Hae	
Goethitic		Phy-Gss	
		Phy-Hae	

Base colours of Mineral Mapping Topo Image

3

EL113 – Abi Adi



- The initial prospecting campaign in December 2023 resulted in discovery of 2.5km exhalative horizon
- 319 rock chip samples and observation points have been taken
- Extensive secondary copper & hydrothermal alteration was observed
- Assays pending and next field trip planned for March 2024



Overview Sudan

Current Situation

ANS Exploration activities are on hold. Small team has travelled to Sudan in September 2023 to assess the situation firsthand again. No armed conflict in the Red Sea Hills state and life in Port Sudan is normal. The office in Khartoum is not accessible. Drill rigs, cars and laboratory not damaged nor impacted.

ANS exploration blocks still active and new concession applications have been submitted. Ministry of Mines has moved office from Khartoum to Port Sudan. We expect resumption of activities in Q1 2024. ANS Exploration is currently compiling a highly prospective land package to resume exploration activities once team can safely travel and work.

Overview Sudan



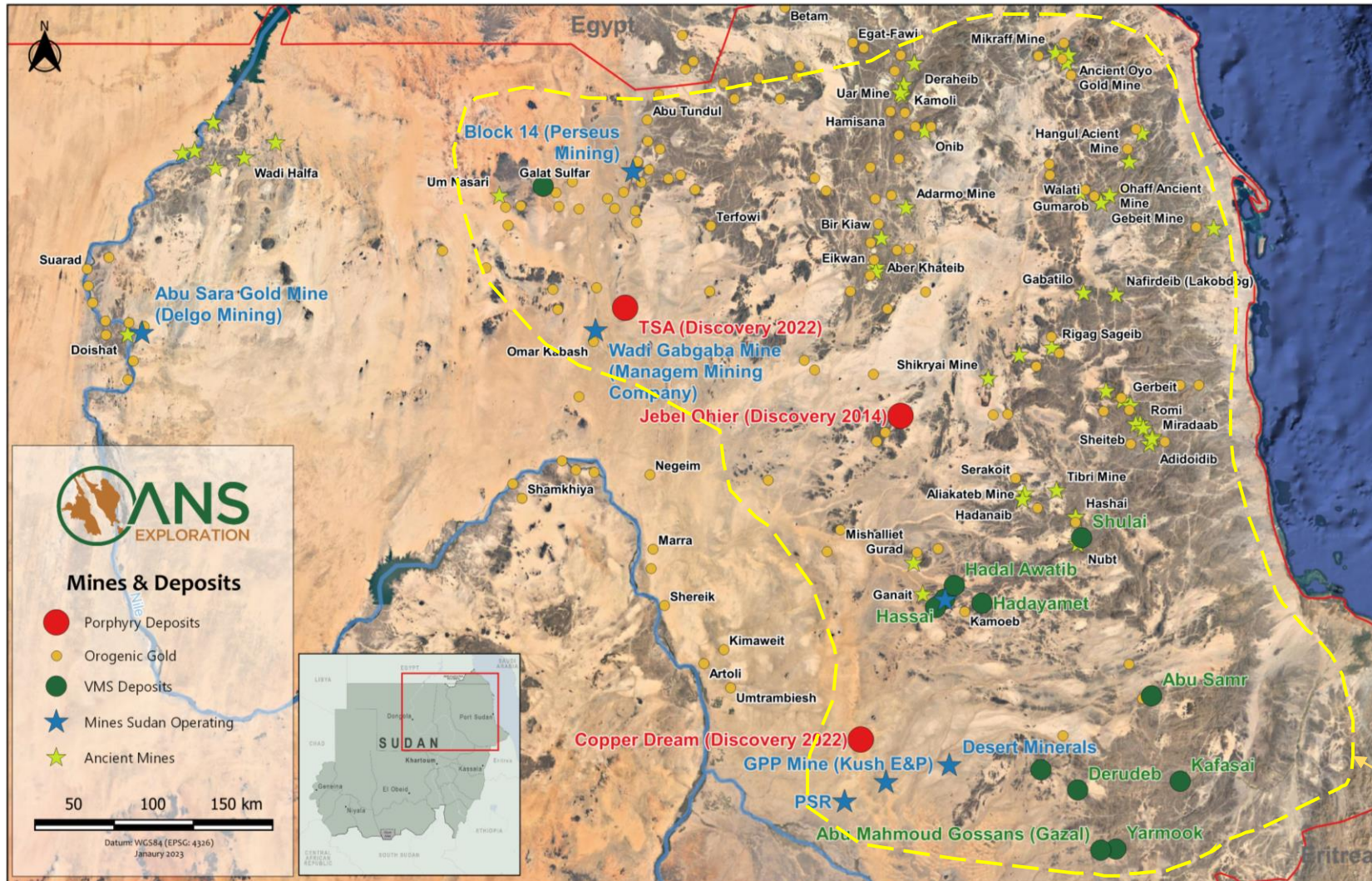
- Main Road
- - - Main Railway
- International Boundary
- ✈ Main Airport
- Capital
- Major Town

Republic of the Sudan

- Languages: Arabic, English (official working languages).
- Religions: Islam (predominantly Sunni) and Christianity.
- Currency: Sudanese pound (SDG).
- Africa's 3rd largest country (1,886,068 km²) more than the size of Alaska.
- Daily international flights from and to Khartoum.
- Most of the climate is arid, desert and hot with 4000h sunshine and annual precipitation in the north-east of around 30-80 mm.
- All-year around access to projects.
- The Nile River flows through the entire length of the country.
- Annual license holding cost: 36k EUR for 300sqm
- Production companies are required: 5-7% royalty; Offer 10% free carried interest to Government; 15% business profit tax;

Population	46 M	Unemployment Rate	16%
Population Growth	2.40% p.a.	# Concessions issued	218
GDP nominal	\$44.1B	Inflation 2021	16%
GDP Growth	0.70% p.a.	Net FDI	~1B

Mines & Mineral Occurrences Sudan



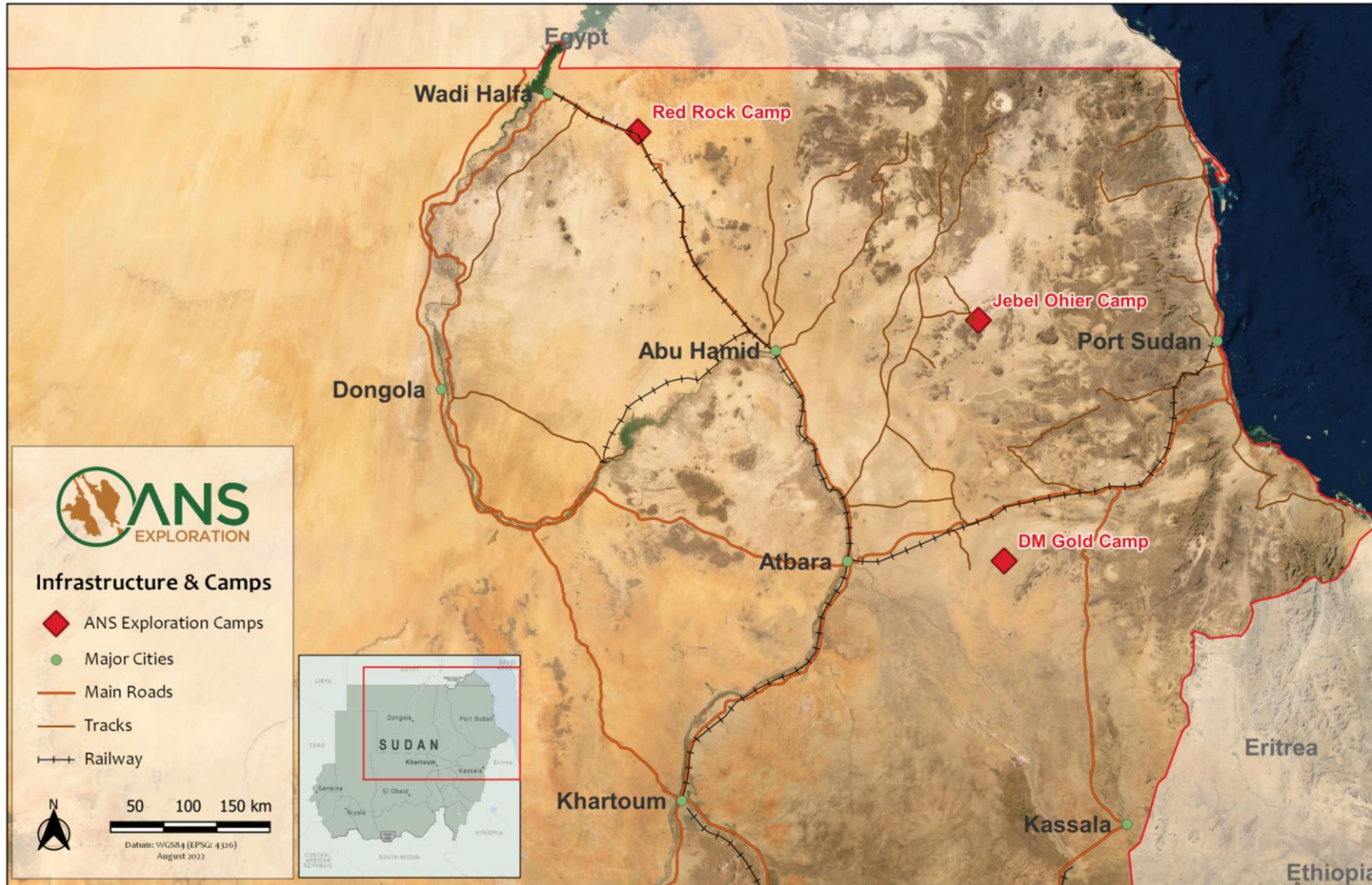
- Sudan is the 3rd largest Gold producer in Africa (after Ghana & South Africa) with approximately 2.5Moz Au pa
- Major Deposits in Sudan:
 - Hassai (Ariab): 116Mt @ 2.04% CuEq
 - Jebel Ohier Porphyry (QMSD): 600Mt @ 0.33% Cu
 - Meyas Sand (Perseus): 4Moz @ 1.3 g/t Au
 - Wadi Gabgaba: 3Moz @ 1.6 g/t Au
 - Copper Dream: discovery in 2022 – initial drill hole 142m @ 0.42% Cu
- Bisha Mine (Eritrea): 60Mt @ 1.78 g/t Au, 38.9 g/t Ag, 1.6% Cu, 3.15% Zn.
- Jabal Sayid deposit (Saudi Arabia): 56.4 Mt at 2.2% Cu

ANS Exploration is exploring for the next Ariab or Bisha project!

Focus area is northeast Sudan (Red Sea and River Nile State).

This area has not seen an armed conflict in 2023.

Infrastructure & ANS Camps



- ANS exploration focus areas are Northern, River Nile and Red Sea State in Sudan (size of Germany).
- ANS has access to three exploration camps in Sudan, which allow extensive greenfield exploration programs at low cost.
- Camp facilities: containerized camps with messing, offices, internet, fuel.



Red Rock (DM)

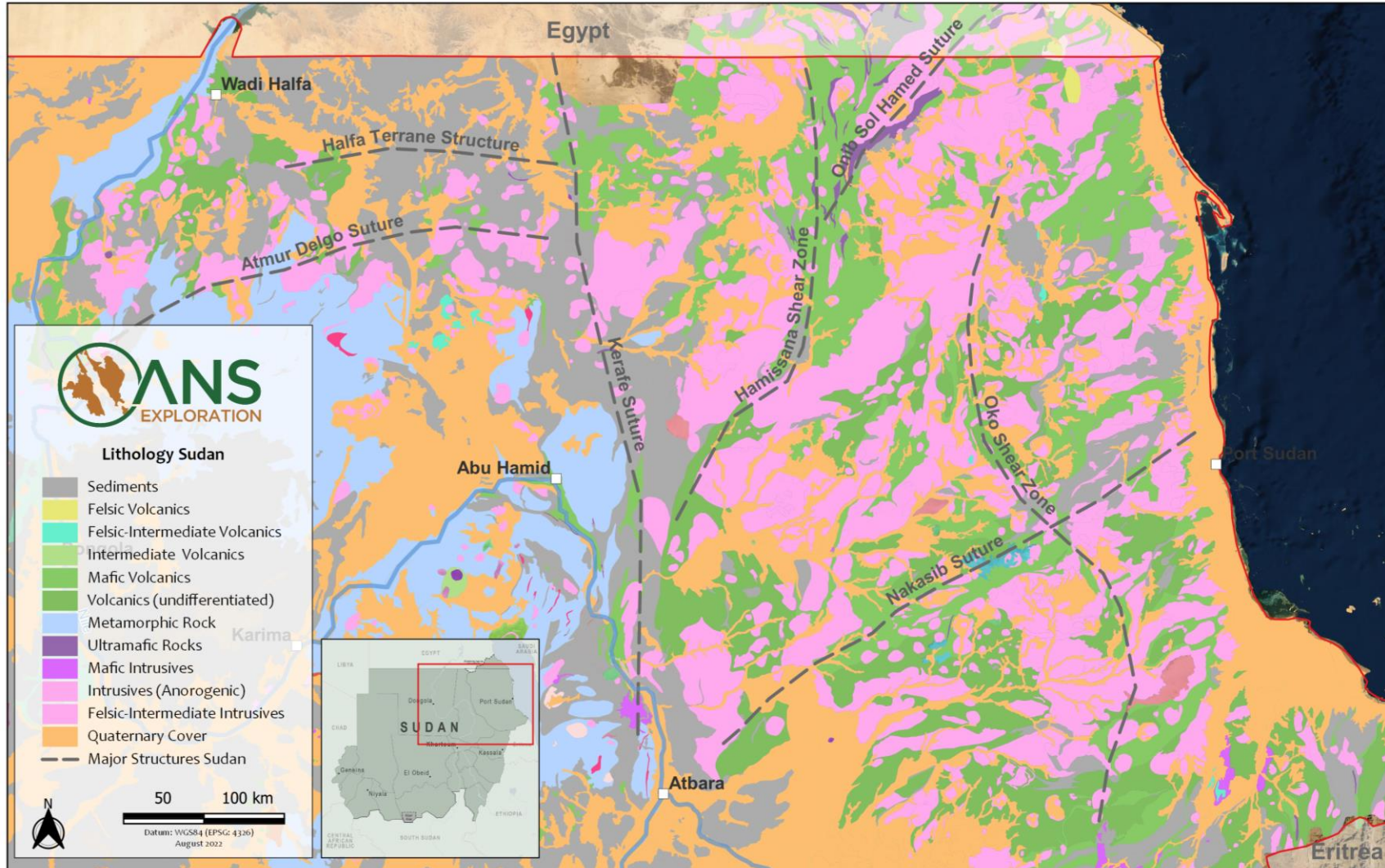


Jebel Ohier (QMSD)



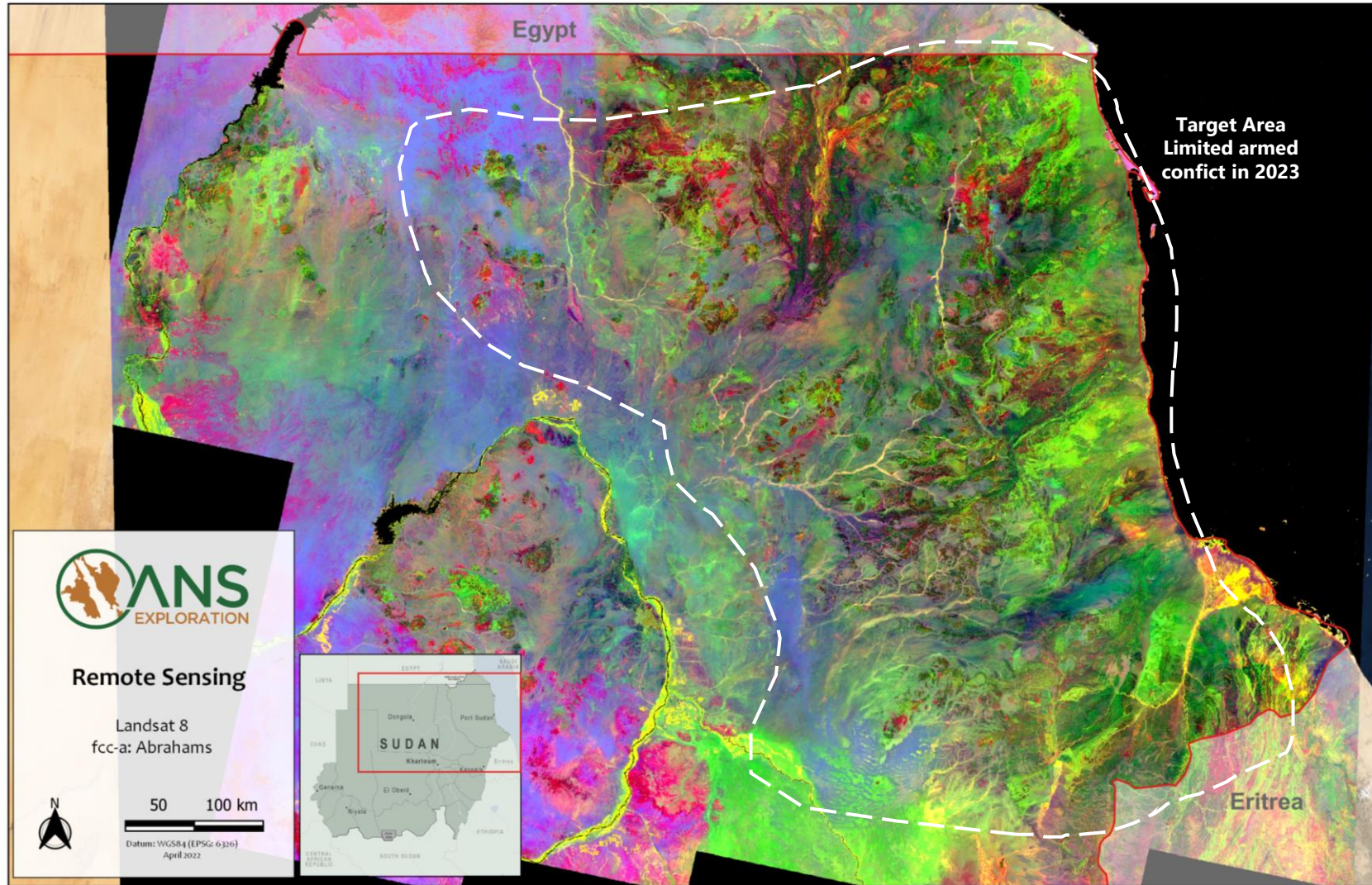
DM Gold (DM)

Geology Overview



- Extensive ANS rocks located in NE Sudan.
- Composed of two significant crustal domains separated by the N-S trending Kerafe Suture.
- Sahara Craton (Nile / Sahara Craton and the African Craton combined), in west and accreted terrains of the ANS in the east.
- The major sutures and shear zones identified from remote sensing and field exploration.
- Structure commonly 10s km wide and 100s km long containing numerous ocean-floor sequences.
- Highly prospective geology and geological setting.
- >100 targets defined: highest priority targets will be tested continuously 2023 & 2024

Remote Sensing



- Large scale remote sensing targeting analysis conducted over an area of 360,000 km² (size of Germany).
- Extensive data compilation & data digitization (ongoing).
- >100 targets defined: highest priority targets currently being tested in the field by prospecting team.
- General Prospecting License in place for Northern, River Nile and Red Sea State.
- Prospecting license allows reconnaissance (included rock chip sampling).
- Close collaboration with following government institutions.
- MoU with GRASS to digitize geology library in Khartoum



SMRC: Monitors companies licensed for exploration and mining

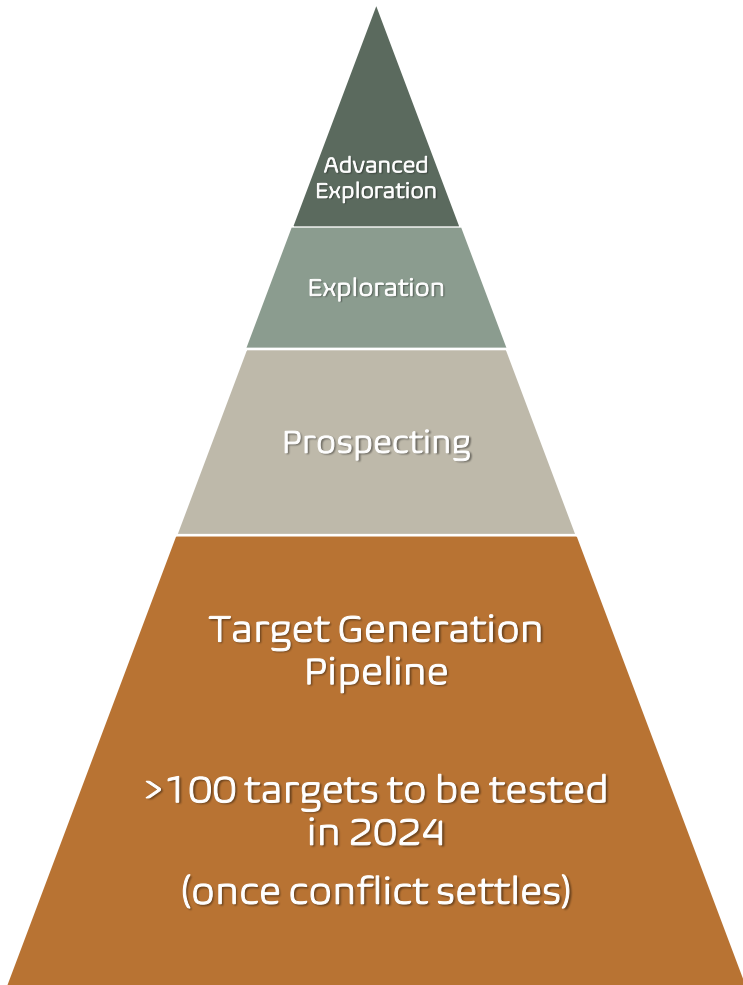


GRASS: Geological Research Association Sudan



Ministry of Minerals – Licencing

Exploration Portfolio Sudan

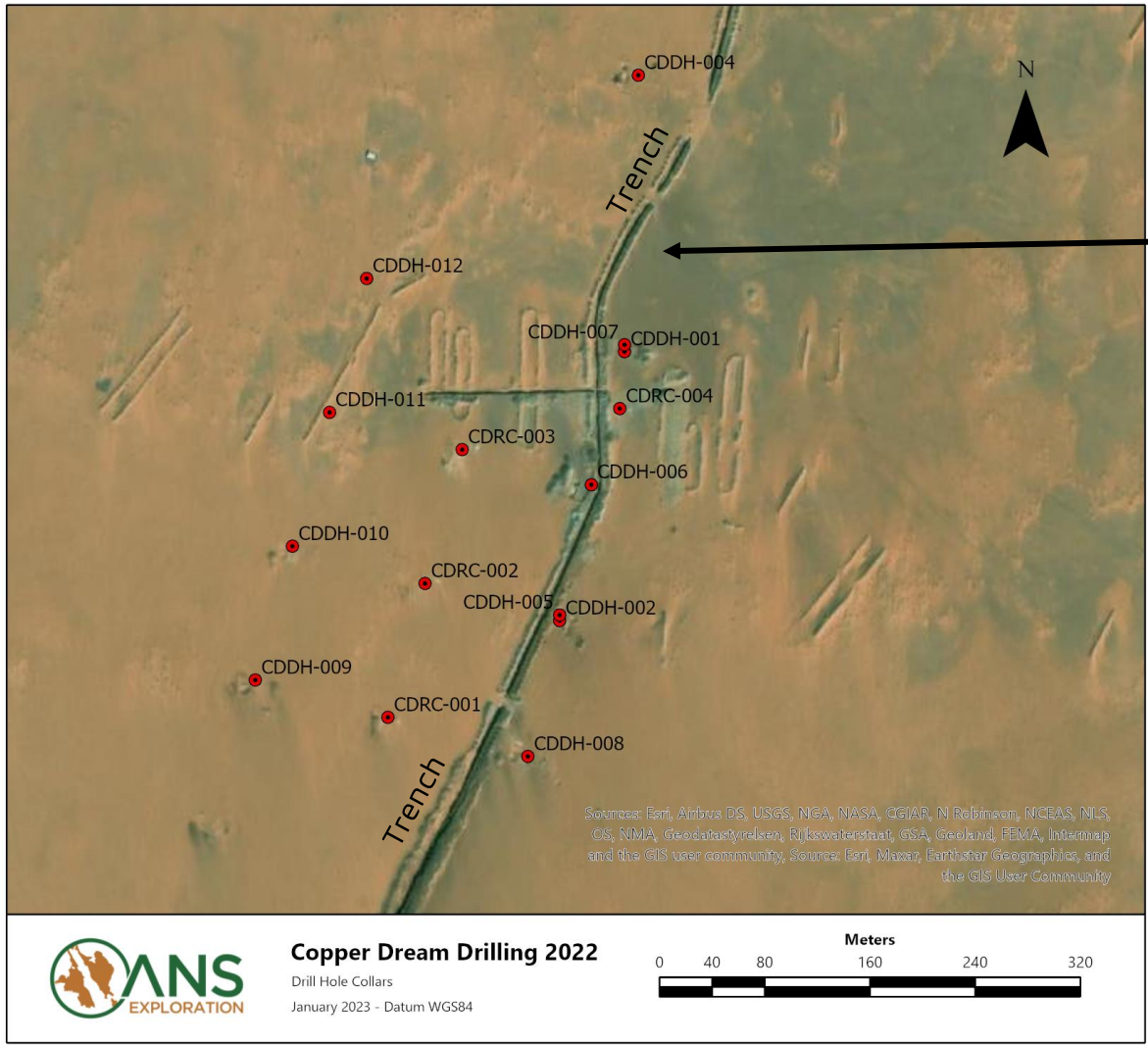


Project	Commodity	Deposit Model	Exploration Status & Objective
Copper Dream (Block 30-F)	Cu, Mo, Au	Porphyry	Recent 2022 Cu porphyry discovery. New potential regional porphyry belt. Additional IP and trenching work planned in 2023 to discover additional PCDs. Earn-in agreement with partner DM for 100%.
JV Option 1	Au, Cu, Pb, Zn	Porphyry, VMS	Initial site visit conducted & rock chip sampling (Jan 2023). High grade Au and Cu outcropping. Porphyry and VMS targets verified. Currently final stage of DD and MoU
Target: Block 64 (Block reserved)	Cu, Pb, Au, Zn	VMS, Orogenic	Initial rock chip sampling and reconnaissance conducted. VMS signatures identified in the field. Detailed mapping started in March 2023.
Block 11: VMS JV	Cu, Zn, Au	VMS	Strong alteration signature through Remote Sensing. Initial site visit conducted & rock chip sampling in March 2023. JV currently under negotiation with Ariab Mining AMC.
Block 11: Cu JV	Cu	Porphyry	Very high-grade outcropping Granite rock discovered during field program; Joint Venture currently under negotiation with Ariab Mining.
Sharareet (Block 45-B)	Cu, Au	VMS	Greenfield discovery in March 2023 of outcropping hydrothermal breccia and 2x Cu-rich VMS lenses. EL application submitted
Target: T27	Cu, Au	VMS	Gossan outcrop. Initial rock chip sample campaign in Nov 2022. Systematic geological mapping and geochemistry required.
Target #3 (Nakasib)	Au, Cu, Pb, Zn	VMS, Orogenic	Several RS alteration anomalies identified. Initial site visit & rock chip sampling now required. Concession application submitted.
Target #4 (Big 3)	Cu	Porphyry	Three large phyllic and argillic RS signatures identified. Ground-truthing & sampling planned for April 2023.

1

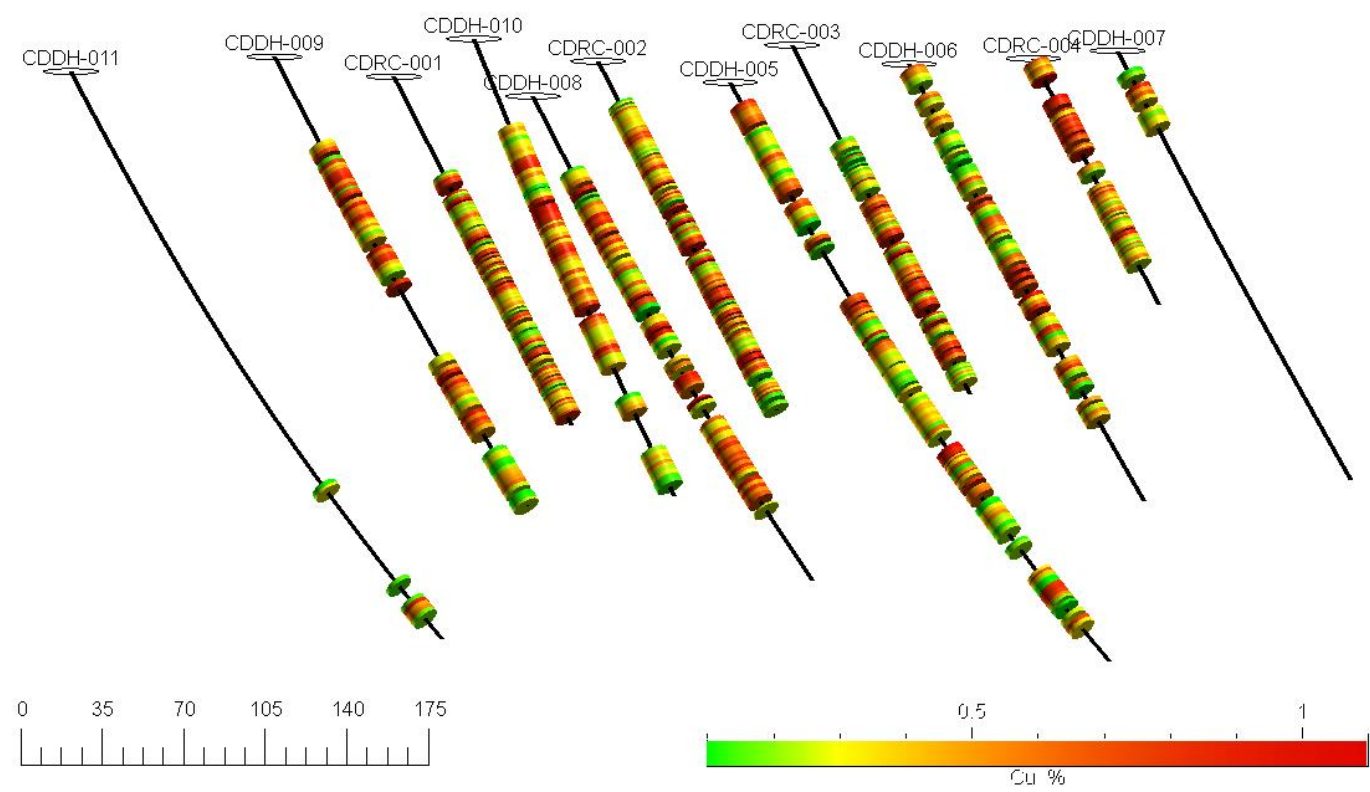
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Copper Dream (30-F) – PCD Discovery



- 2022 Porphyry Copper Deposit (PCD) discovery in new identified back-ark setting through initial trenching.
- Outline of the Copper Dream occurrence, showing DDH collar locations and orientation of the 'big' N-S trench that extends across most of the alteration zonation and delineates the core zone of mineralised, and its periphery.
- Deposit open to the west and at depth.
- Multiple geophysical targets within 30 km radius.
- Potential new porphyry belt.

Copper Dream (30-F) – Drilling Data



- CDDH-001: 140m @ 0.42% Cu (+ 0.04 g/t Au) from 30m
- CDDH-002: 148m @ 0.40% Cu (+ 0.02 g/t Au) from 40m
- CDDH-005: 177m @ 0.37% Cu (+ 0.02 g/t Au) from 22m
- CDDH-008: 172m @ 0.49% Cu from 41m

- Copper Dream is a porphyry Cu (\pm Au-Mo) occurrence, based on petrographic and petrological constraints (c.f. Petrolab Report from 26/01/2023).
- Nature and style of both alteration and mineralization, textural evidence and geological context proof PCD discovery.
- Deposit defined by well-developed alteration zonation, including potassic, propylitic, phyllic and argillic alteration.
- Core of system intersected in CDDH-001, 002, 005, 008 and 010.
- Located within evolved (felsic) intrusion beneath Cenozoic lake sediments (up to 5 m).
- Discovery opens region up for PCD exploration.
- Other PCDs in regional likely to be in similar geological setting & under shallow cover
- Geophysics and trenching key exploration tools.

Copper Dream – Core Photos



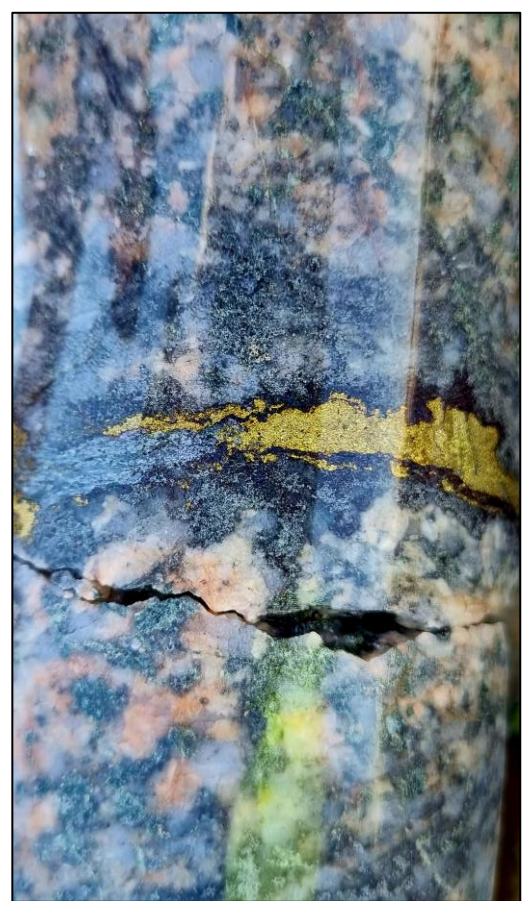
Set of A-veins exposed in CDDH-001 at 164.7m.



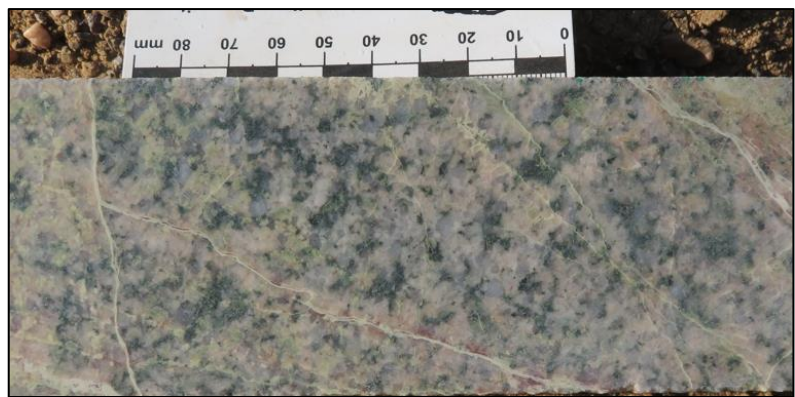
Bornite clot (partially altered to covellite) in CDDH-002 at 181.5m.



Secondary Cu-Ox in veinlets within ferruginous, phyllic-altered granite in CDDH-013 (13.5m)



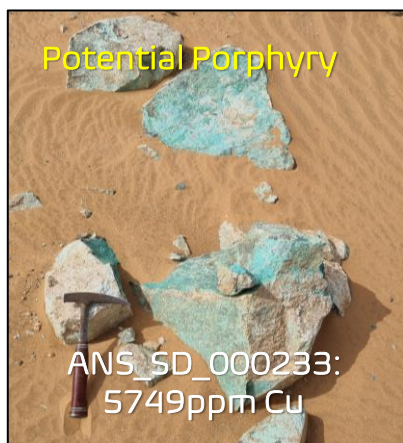
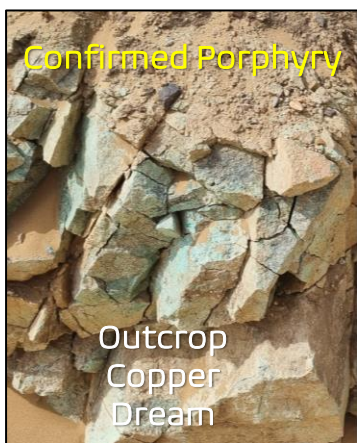
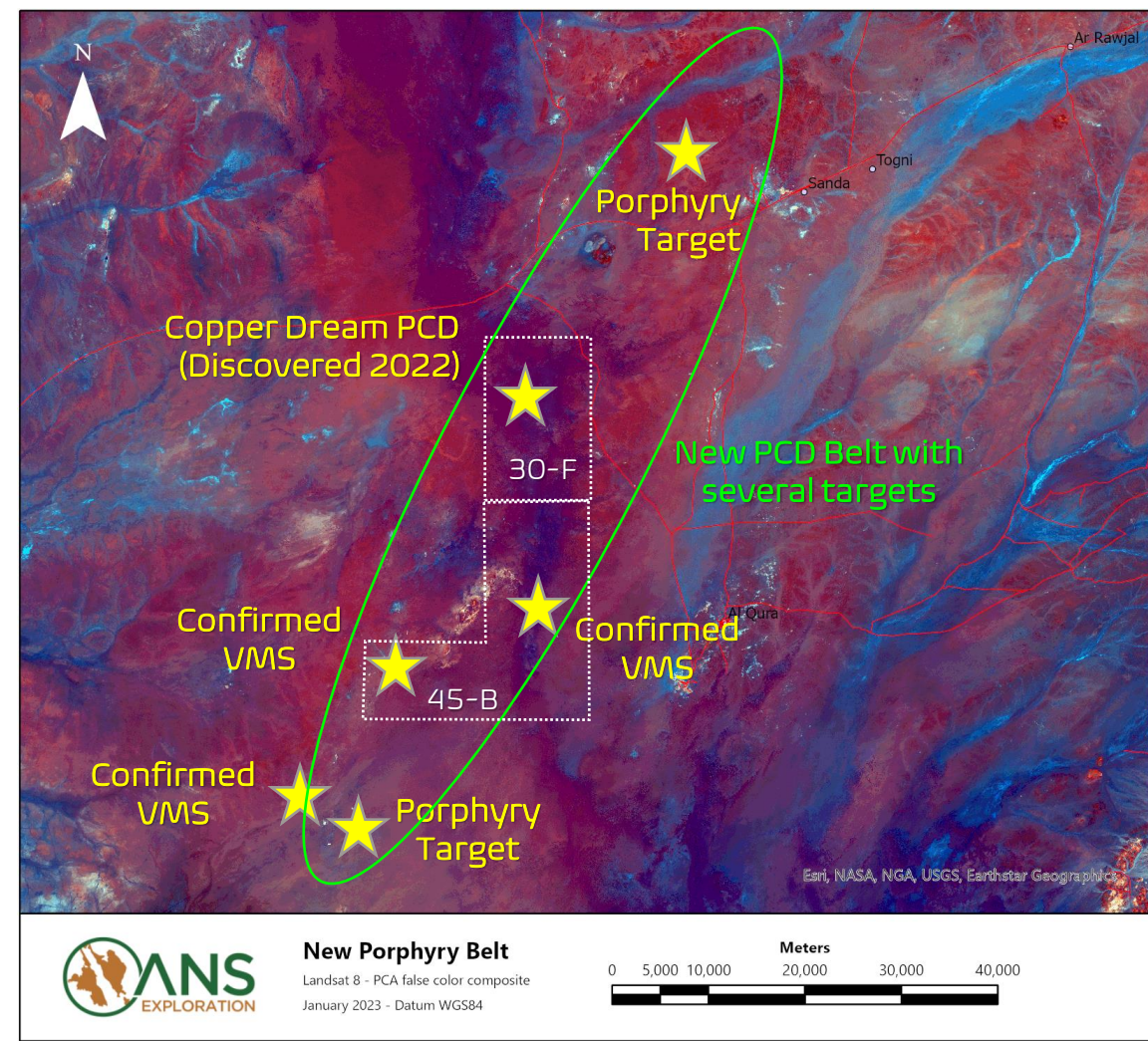
Bornite-Chalcopyrite bearing vein set in CDDH-001 at 152m.



Set of sericite haloes in weakly phyllic-altered granite in CDDH-013 (146m)

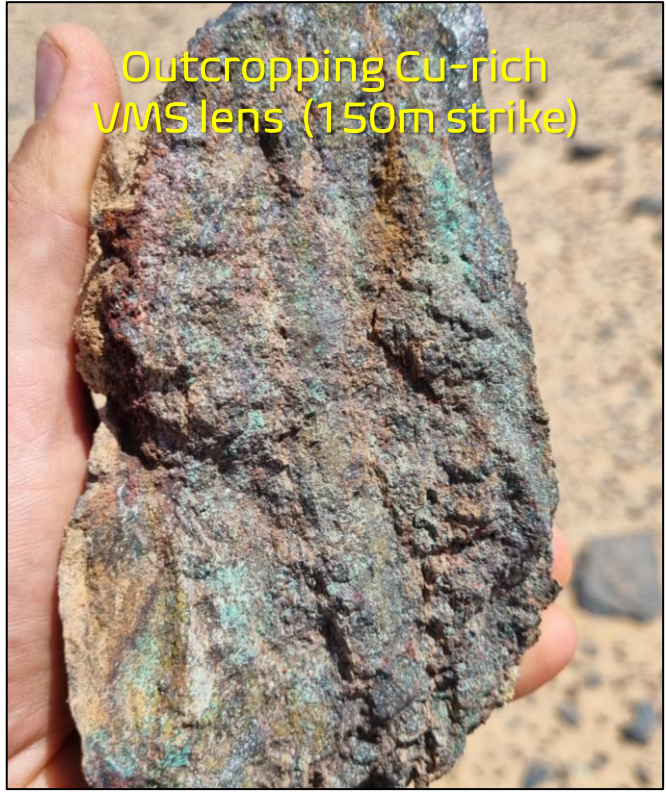
Sharareet (45-B) – New Copper Belt

- Area east of Atbara was never believed to host any porphyry deposits until January 2023
- Second outcropping phyllic-argillic altered granite area discovered in January 2023.
- New porphyry target 45km south of Copper Dream.
- Several new outcropping VMS lenses discovered in March 2023
- Most targets under thin cover (<3m)
- Systematic geological mapping, induced polarisation (IP) and trenching programs are required to identify more targets
- ANS applied for an extension of the copper Dream Block 30-F and the area is called Sharareet.



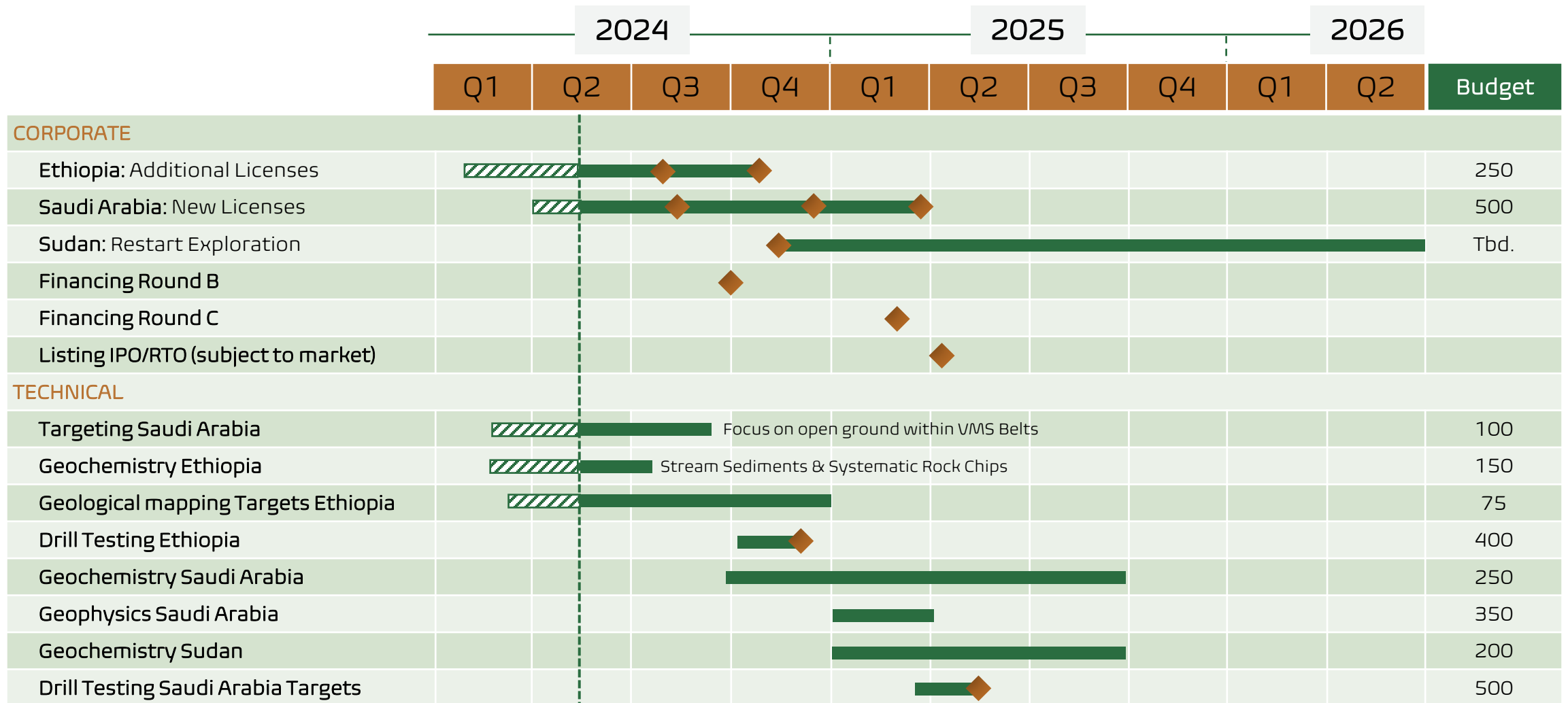
License Sharareet – New Copper Belt

During March 2023, the following has been discovered in the field by ANS geologists (assays pending) :



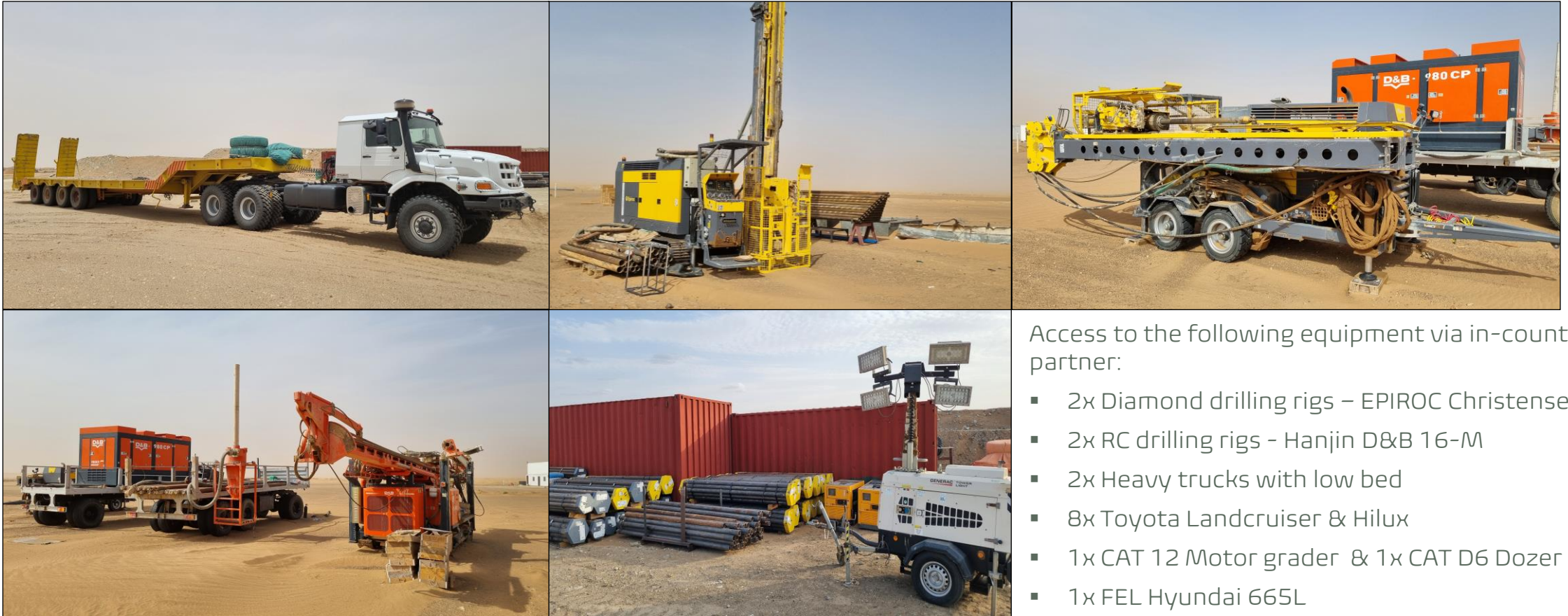
In-country Resources

Work Program (next 12 month)



- Milestone
- Completed
- Proposed

New Drilling Equipment (Sudan)



Access to the following equipment via in-country partner:

- 2x Diamond drilling rigs – EPIROC Christensen 140
- 2x RC drilling rigs - Hanjin D&B 16-M
- 2x Heavy trucks with low bed
- 8x Toyota Landcruiser & Hilux
- 1x CAT 12 Motor grader & 1x CAT D6 Dozer
- 1x FEL Hyundai 665L

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.

Own Laboratory Facilities



ANS Exploration has one analytical equipped wet laboratory in Sudan 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.



THANK YOU

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