## ACQUISITION OF STRATEGIC MINERAL LAND PACKAGE

12 May 2022

# AEX Gold

www.aexgold.com | AIM: AEXG; TSXV: AEX

AEX Gold Inc is a Greenland-focused mining company engaged in the identification, acquisition, exploration, and development of gold properties and other strategic mineral assets in Greenland

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#### **Technical Information**

The reporting standard adopted for the reporting of the Mineral Resources is that defined by the terms and definitions given in the terminology, definitions and guidelines given in the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Standards on Mineral Resources and Mineral Reserves (December 2014) as required by NI 43-101. The CIM Code is an internationally recognised reporting code as defined by the Combined Reserves International Reporting Standards Committee.

All scientific or technical information in this presentation has been approved on the Company's behalf by James Gilbertson, VP of Exploration, a Qualified Person under National Instrument 43-101 – Standards of Disclosure for Mineral Projects

In line with the requirements of the AIM Rules for Companies, including the requirement to have a Competent Person's Report ("CPR") prepared within six months of any admission document, the Competent Person's Report titled "A Competent Person's Report on the Assets of AEX Gold, South Greenland" dated June 26, 2020, is filed on SEDAR under the Company's issuer profile at www.sedar.com and is available on the Company's website at www.aexgold.com. All scientific and technical disclosure in that CPR is in compliance with NI 43-101 standards. The Company notes that this document does not replace the Company's existing 43-101 Technical Reports available on www.sedar.com.

## ACQUISITION HIGHLIGHTS

AEX Gold becomes largest acreage holder in Southern Greenland

- Significant 3,527.75 km<sup>2</sup> strategic mineral licence area acquired from Orano, taking total land package to 7,615.85km<sup>2</sup>, making the Company the largest licence holder in South Greenland and the third largest\* in Greenland, after Anglo American and Greenfield Exploration.
- The licenses are acquired in exchange for a 0.5% contractual, gross revenue royalty (GRR), based on any future mineral sales from the license area. The royalty is capped at US\$10 million. Orano has a right of first refusal on any sales or transfer of licenses.
- The licence area includes assets which increase the Company's exposure to metals such as nickel, copper, zinc, lead, titanium, vanadium, graphite and rare earth minerals, as well as additional gold resources across the Nanortalik and Tartoq gold belts
- Minerals present are categorised as strategic, due to their increasing demand for use in the global energy transition
- South Greenland is considered as one of the most prospective regions for strategic metals and rare earth elements; the region is currently known to host 1.5% of the globes rare earth element reserves, however, the European Commission estimates that with further exploration this number could increase to as high as 9.2%
- Existing AEX infrastructure, such as the 50 Personnel Exploration Camp at Nalunaq will be leveraged to explore and potentially develop the acquired licenses

\* Subject to approval of the Greenland Government



## **ORANO LICENCE ACQUISITION**

#### Midternaes - <sup>28</sup>Ni <sup>92</sup>U <sup>30</sup>Zn <sup>82</sup>Pb <sup>29</sup>Cu

Nickel potential in mafic-ultramafic units. Unconformity uranium potential. Zn-Pb sulphides mapped close to the unconformity. Elevated copper background in stream sediments. Covered in 1996 by Magnetic, Radiometric, Frequency Domain EM and VLF geophysics survey.

Existing AEX Strategic Minerals Project

**AEX Strategic Metals Focus Licence** 

**AEX Gold Focus Licence** 



Newly Acquired Orano Licence

#### Key Target

#### North Sava - <sup>29</sup>Cu <sup>79</sup>Au <sup>92</sup>U <sup>30</sup>Zn <sup>41</sup>Nb Evidence for IOCG or porphyry copper

mineralisation Grab samples up to 382 g/t Au, 3.4% Cu, 3.7% Zn, 100 g/t Ag, 19% Nb, 1.7% U, 2.2% Zr

#### Key Target

#### **Paatusoq REE**<sup>1</sup> <sup>41</sup>Nb <sup>73</sup>Ta <sup>40</sup>Zr Paatuoq Critical Metals Project an unexplored Garder Province intrusion with multiple strong rare earth element – niobium – zirconium anomalies identified in initial sediment sampling

Maiunag

Nanortali

Narsag

Qagortog

West Sønderarm - <sup>29</sup>Cu <sup>79</sup>Au

Granite-aplite sheets and quartz veining

with marked malachite staining in the

Samples with strong malachite staining

and alteration originate from aplite and

chalcopyrite, bornite, and magnetite. The

samples have yielded 59-2370 ppb Au and

main types of alteration are silicification

and epidotisation. Seven mineralised

0.03-1.8% Cu.

steep cliffs over a distance of 500m.

quartz veins. Disseminated pyrite,

**Stendalen-** <sup>23</sup>**V TiO**<sub>2</sub><sup>28</sup>**Ni** The Stendalen Gabbro is related to the intrusive Julianehåb Igneous Complex.

**Key Target** 

It hosts orthomagmatic Fe-Ti-V mineralisation with average 4.8% TiO and 2,335 ppm V. Also potential for Ni–Cu-PGE mineralisation **Danell Fjord - Graphite** Iron sulphide-graphite bodies east of Jokum's shear in Danell fjord.

#### Kangerluk – <sup>79</sup>Au Graphite Small occurrences of graphite, locally high grade. Semi massive

30x9m graphite body up to 60% graphite. Gold arsenic association in sheared hornblende-biotite schists, but low grade.

Kutseq – <sup>79</sup>Au Graphite WSW striking antiform, mineralised shear zones vary from small 10-20 cm wide up to 10m along strike, to larger structures up to 12 metres across and 500-600 m along strike. Gold concentrations up to 38.5 ppm and 6% arsenic. Discordant felsic dykes contain up to 200 ppb Au, 1.2% Cu and 1.7% As

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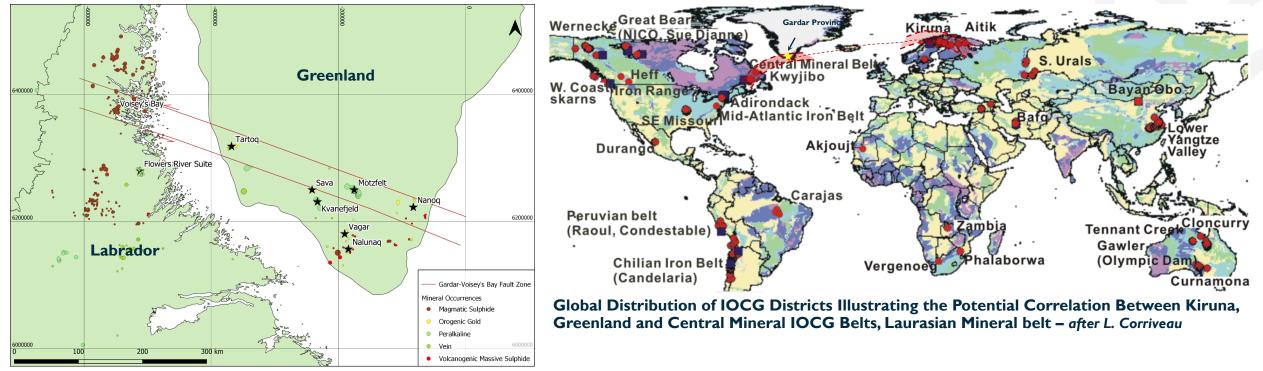
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50 km

AEX / Orano Licences Acquisition <sup>1</sup> REE = Rare Earth Element

## SOUTHERN GREENLAND GEOLOGICAL CONTEXT

Southern Greenland hold strong geological ties with Eastern Canada and Europe – AEX have termed this the Laurasian Mineral Belt



#### Greenland-Labrador Geological reconstruction – AEX Mineral System Model

- AEX has combined the regional gravity and magnetic data sets as well as structural interpretation, occurrence data and geochronology data from across Canada, Greenland and Northern Europe to understand the metallogenic architectural framework that controls mineral deposits in the region.
- As part of this AEX are producing a number of geological reconstructions to understand the relationships between mineral belts and deposit styles. This will then guide AEX's regional exploration and focus efforts on the most prospective ground.
- AEX's Mineral System modelling has highlighted the geodynamic relationship between Greenland and NE Canada across structures, deposits and mineral belts and how the Gardar-Voisey's Bay Fault Zone highlights the potential for strategic mineral mineralization across Southern Greenland.
- The newly acquired licenses all lie within the prospective corridor of the Gardar-Voisey's Bay Fault Zone, terms the Laurasian Mineral Belt.

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## STENDALEN <sup>23</sup>VTiO<sub>2</sub> <sup>28</sup>Ni

#### Multiple Critical Metal Mineral Occurrences

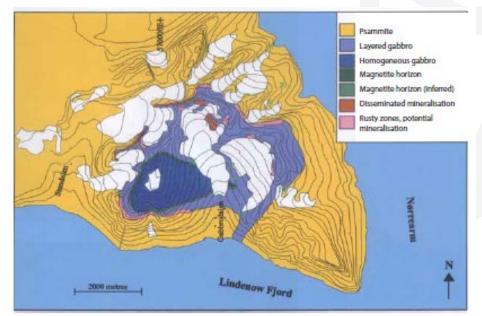
The Orano MEL 2021-11 licence contains the **Stendalen** Titanium – Vanadium project, a large horizontally layered intrusion around 8 km in diameter, and several hundred meters thick.

This intrusion host a **magnetite-rich zone**, which is up to 20m thick. This zone contains magnetite, ilmenite, and other sulphides. Historic sampling of the magnetite-rich zone produced samples containing 20 vol% ilmenite, 10 vol% magnetite and 5 vol% pyrrhotite and accessory chalcopyrite.

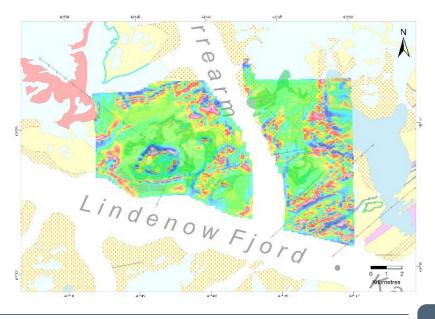
With a concerted exploration effort, this target holds the potential to host multimillion tonne resource of titanium oxide and vanadium oxide.

Stendalen also has the potential for **Ni–Cu-PGE** mineralisation around the edges of the intrusion. Graphite is also abundant in some of the semi-massive sulphide-bearing layers in the contact zone between the intrusive and the surrounding metasedimentary host rock.

> Local airborne geophysics results over Stendalen



Geological map showing the Stendalen Gabbro and the associated mineralization horizon. Modified after Swlateki (1998).





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## NORTH SAVA <sup>29</sup>Cu <sup>79</sup>Au <sup>92</sup>U <sup>30</sup>Zn <sup>41</sup>Nb

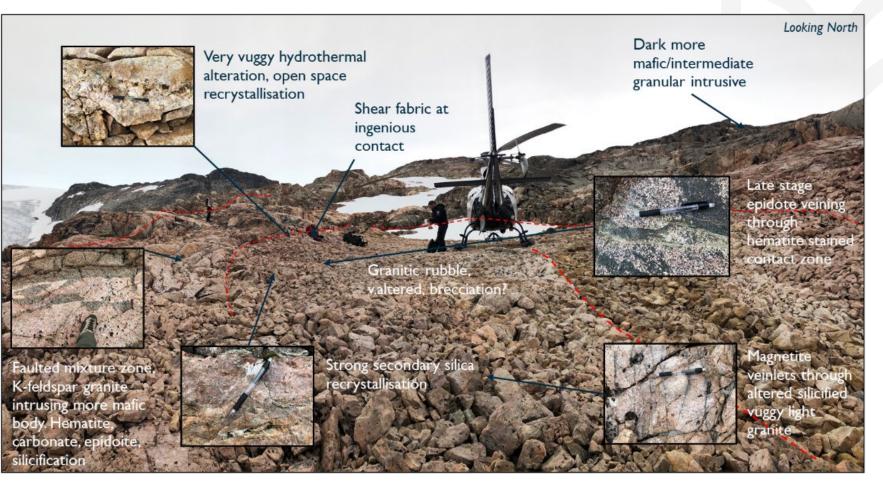
#### Multiple Critical Metal Mineral Occurrences

Orano also hold the MEL 2020-41 licence immediately north of AEX's Sava IOCG target. 2021 reconnaissance exploration in this unexplored area, termed **North Sava,** showed numerous intrusive bodies with late stage potassic alteration hosting large-scale mineralizing systems.

Coupled with Sava, this provides AEX with a continuous 65km long prospective iron oxide copper gold belt

### PAATUSOQ REE <sup>41</sup>Nb <sup>73</sup>Ta <sup>40</sup>Zr

Part of the Gardar Province, which hosts the two largest REE deposits outside China, Kvanefjeld and Tanbreez. Paatusoq has seen no commercial exploration, but hosts >2,500 vertical meters bodies similar to these two world class REE projects and is associated with REE and niobium anomalies



Geological summary of an area of wide spread potassic alteration observed by AEX in North Sava, (2021)



AEX / Orano Licences Acquisition



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# REFERENCES



AEX Gold: Corporate Profile

## STRATEGIC MINERAL OFFERING WITHIN NEW LICENCES

Copper	<sup>29</sup> Cu	Primarily used in electronics and construction. Largest producers are Chile and Peru (37% combined of world production, 2021)
		World production 21 million tonnes in 2021. Consumption expected to increase to 31.1 million tonnes by 2030
Niobium	<sup>41</sup> Nb	Used predominately as an alloying element for steel and superalloys used in aerospace and high-tech applications. Largest producer is Brazil, ~88% of 75,000 tonnes produced worldwide in 2021
		Currently listed on the European Commission Critical Raw Materials List
ALC: NO.		Predominately used in electronic capacitors and semiconductors, of which there is a global shortage
Tantalum	<sup>73</sup> Ta	Largest global producer is the DRC ~33% of 2,1000 tonnes produced worldwide in 2021
		Currently listed on the European Commission Critical Raw Materials List
		Used as an alloying element within the steel, allowing steel to be used in specialist industries
Vanadium	23	Largest producer is China, ~66% of 110,000 tonnes produced worldwide in 2021
		Currently listed on the European Commission Critical Raw Materials List
		Used as a white pigment in paints, plastics, and other products.
Titanium Oxide	TiO <sub>2</sub>	Mainly produced from Ilmenite, of which China is the largest producer globally, ~ 35% of 8.4 million tonnes worldwide in 2021
		Rare Earth Elements are used in catalysts and high strength magnets and critical for the global energy transition
Gd Pr Ce Sni Lu Nd	REE	Largest producer globally is China, ~ 60% of 280,000 REO tonnes produced worldwide in 2021
		Currently listed on the European Commission Critical Raw Materials List

## REFERENCES

- USGS Mineral Commodity Summaries 2022 (https://pubs.usgs.gov/periodicals/mcs2022/mcs2022.pdf)
- <u>https://www.kitco.com/news/2021-06-08/Global-refined-copper-demand-to-rise-31-by-2030-report.html</u>
- European Commission Greenland's Raw Materials Potential and the EU Strategic Needs," Memo 12–428, Brussels, June 13, 2012