

# 2022 KOBBERMINEBUGT EXPLORATION RESULTS



**Amaroq Minerals**

[www.amaroqminerals.com](http://www.amaroqminerals.com) | AIM: AMRQ; TSXV: AMRQ





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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.

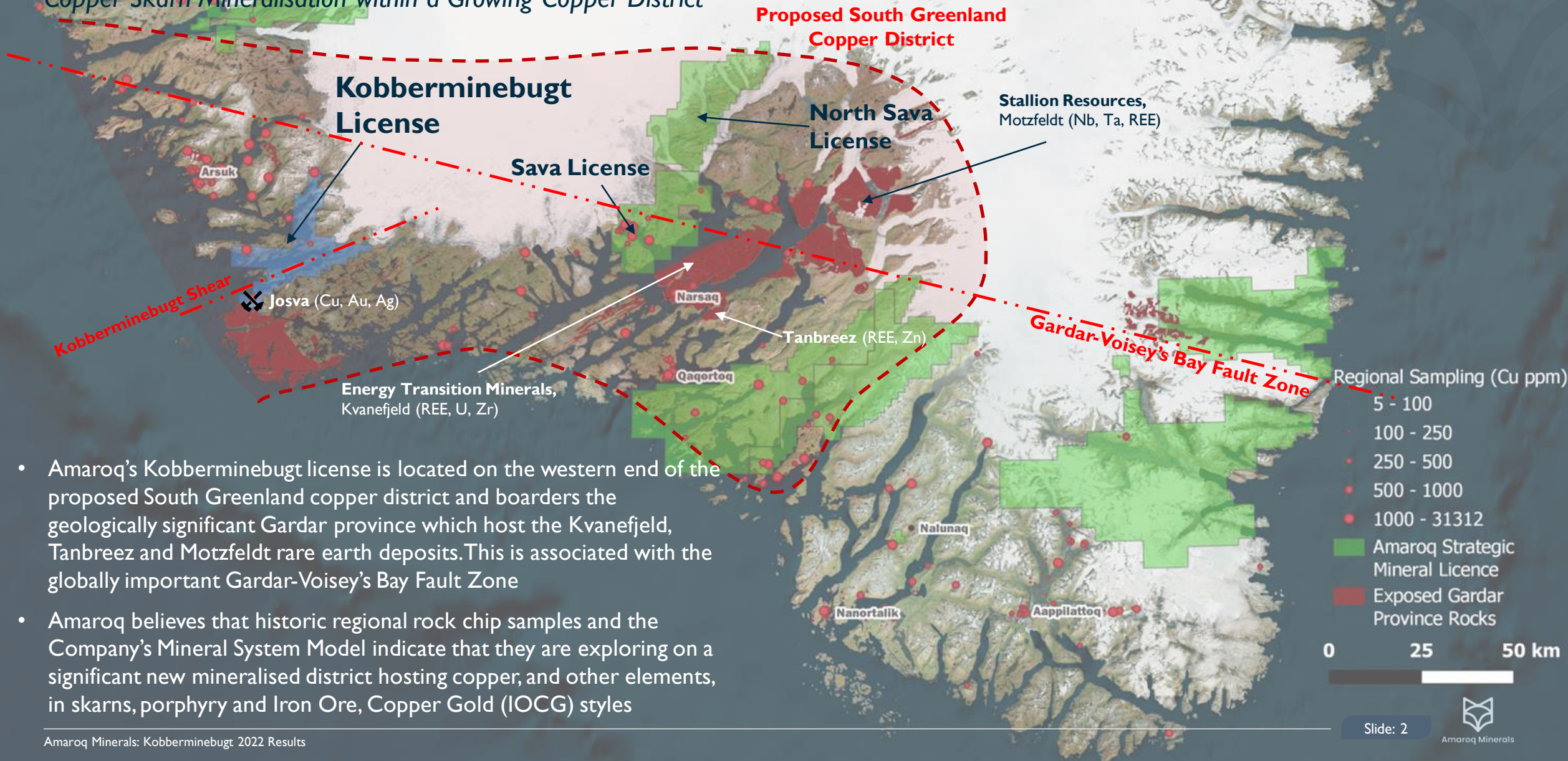
All scientific or technical information in this presentation has been approved on the Company's behalf by James Gilbertson, VP of Exploration, a Qualified Person under National Instrument 43-101 – Standards of Disclosure for Mineral Projects. For further information about the technical information and drilling results described herein, please see the National Instrument 43-101 – Standards of Disclosure for Mineral Projects compliant technical report prepared by SRK Exploration Services Ltd. dated effective December 16, 2016, titled "An Independent Technical Report on the Nalunaq Gold Project, South Greenland" and the technical report prepared by SRK dated effective January 30, 2017, titled "An Independent report on the Tartoq Project, South Greenland" (the "Technical Reports").

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 Amaroq Minerals Ltd, South Greenland" dated June 26, 2020, is filed on SEDAR under the Company's issuer profile at [www.sedar.com](http://www.sedar.com) and is available on the Company's website at [www.amaroqminerals.com](http://www.amaroqminerals.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](http://www.sedar.com)



# KOBBERMINEBUGT EXPLORATION LICENSE LOCATION

*Copper Skarn Mineralisation within a Growing Copper District*



- Amaroq's Kobberminebugt license is located on the western end of the proposed South Greenland copper district and borders the geologically significant Gardar province which host the Kvanefjeld, Tanbreez and Motzfeldt rare earth deposits. This is associated with the globally important Gardar-Voisey's Bay Fault Zone
- Amaroq believes that historic regional rock chip samples and the Company's Mineral System Model indicate that they are exploring on a significant new mineralised district hosting copper, and other elements, in skarns, porphyry and Iron Ore, Copper Gold (IOCG) styles



# HISTORICAL PRODUCTION FROM WITHIN THE KOBBERMINEBUGT LICENCE

## *Past Producing Josva Mine*



Narrow vein hosted high grade copper mineralisation has historically been reported in the area, specifically at the Josva mine which was operated by Grønlands Minedrift Aktieselskab over two periods between 1853–1855 and 1905–1914.

It is estimated that ~91 metric tons of copper as well as small amounts of gold (16oz) and silver (1,600oz) were extracted from 2200 tons of ore that was smelted on the site.



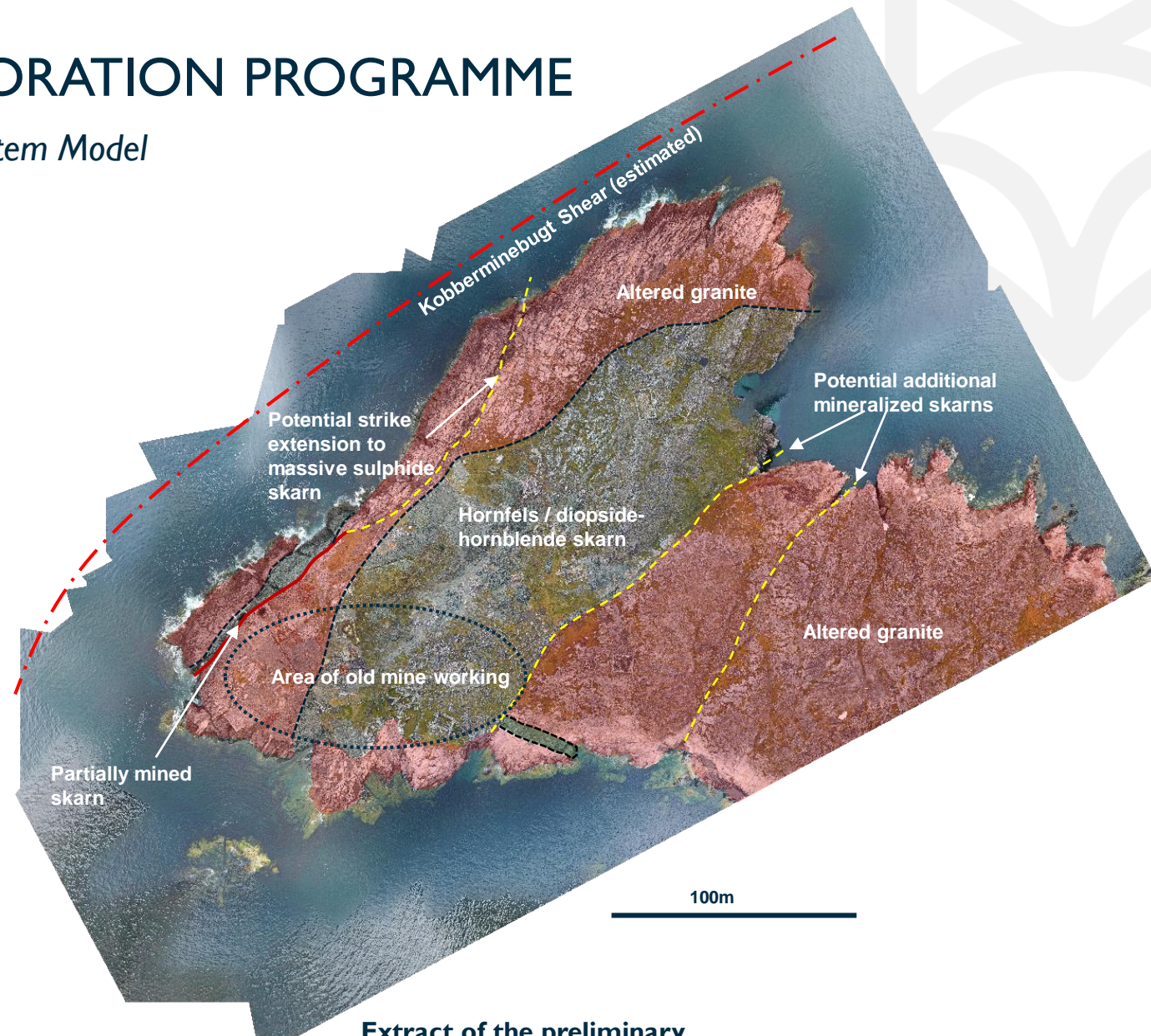


# THE 2022 KOBBERMINEBUGT EXPLORATION PROGRAMME

## *Reconnaissance Work Reacting to the Company's Mineral System Model*

Following acquiring the license in 2021, Amaroq conducted an initial desktop assessment followed by a site reconnaissance survey of the Kobberminebugt licence and in particular the Josva area. This programme involved:

1. **Drone Survey** – high resolution survey of the immediate area to provide geological, stratigraphic and structural understanding to the observed mineralization and provide insights to potential extension to the mined bodies along strike.
2. **Channel Sampling** – a series of chip channel samples were taken across both the mineralization, skarn and altered granites. Samples were prepared on site at Nalunaq and sent to ALS Geochemistry Ireland for assaying
3. **Underground Assessment** – assessment of the attitude of the mineralization and skarn contacts underground in order to gain insights to the depth potential at Josva and for this style of skarn mineralization across Kobberminebugt



Extract of the preliminary interpretation for the Josva drone survey image



# KEY OBSERVATIONS FROM 2022

## *Signaturing Mineralization Ahead of Target Generation*

The key observations made by the Amaroq team during the 2022 field work included:

- Outcropping mineralization is bornite dominate with less chalcopyrite and chalcocite and is concentrated within a ~50cm thick zone bordered by ~1-2m of lower grade diopside skarn.
- Mineralisation confirmed as skarn related probably related to late Ketilidian magmatism.
- Metavolcanic/granite contact is very irregular with multiple skarns evident resulting in areas of thin but also area of thicker mineralization where contact zone bellow out
- Contact zone viewed along a 40km long strike of the Kobberminebugt shear zone trending northeast.
- Mineralisation appears to be suitable to detection from high resolution geophysics (magnetics + gravity).



Collection of images take at the Josva site during the 2022 Kobberminebugt reconnaissance site visit.



# AMAROQ CONCLUSIONS FROM THE 2022 KOBBERMINEBUGT PROGRAMME

## *Western Extension of a South Greenland Copper Belt*

The copper mineralization observed at Josva and the surrounding area is exceptionally high grade but is currently too small to be considered economic.

However, it is further evidence of significant copper rich fluid involvement during the late stage Ketilidian age subduction (late Paleoproterozoic) and therefore further highlights the significance of the South Greenland copper district.

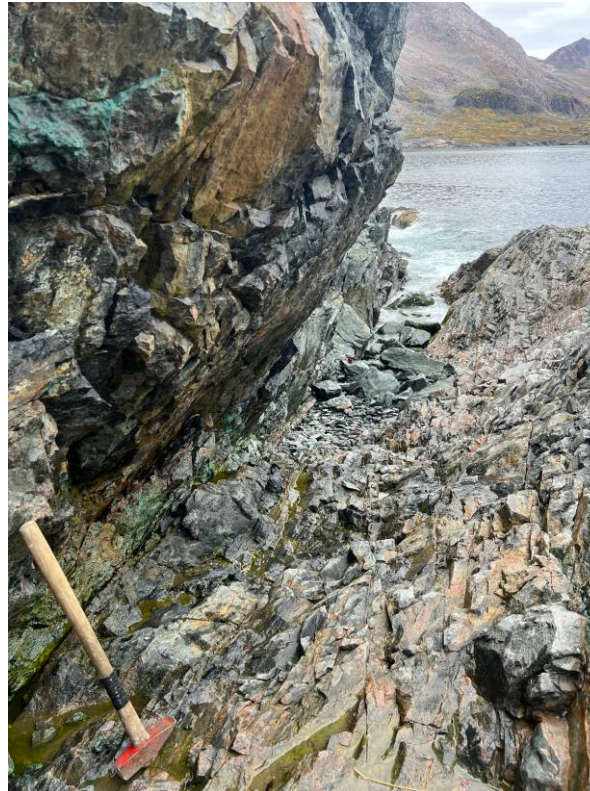
Skarn mineralization of this type is unlikely to be isolated and is likely repeated along the strike of the metavolcanic or metasedimentary – granite contact; >40km, with a similar scale contact zone observed in the northern areas of the licence.

Further, the attitude and style of this mineralization lends itself to areas of wider and therefore larger scale mineralisation which may reach economic scales. Globally skarns can form significant scale base metal orebodies.

Further exploration is warranted, and a detailed magnetics and gravity survey is considered ideal to generate further targets at depth in and around Josva and along strike.

**Exposure of the main historical orebody at Josva ►**

**Historical mine equipment see across Kobberminebugt ►►**



**Granite contact being traced along strike up the Kobberminebugt shear zone**



# REFERENCE - SKARN DEPOSITS

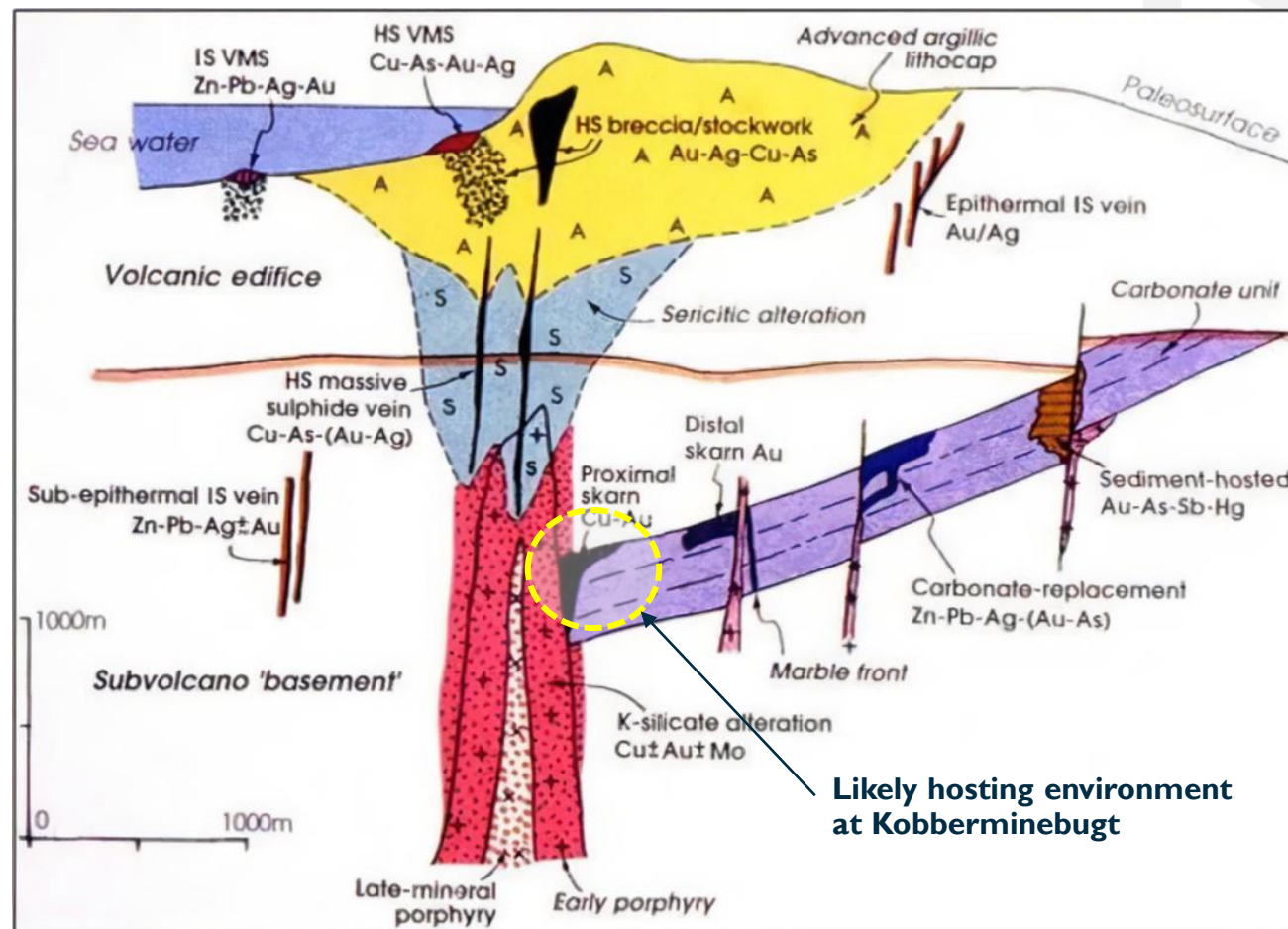
## *Environments for Skarn Mineralisation*

Skarns can form during regional or contact metamorphism and from a variety of metasomatic processes involving fluids of magmatic, metamorphic, meteoric, and/or marine origin. They are found adjacent to plutons, along faults and major shear zones, in shallow geothermal systems, on the bottom of the seafloor, and at lower crustal depths in deeply buried metamorphic terrains.

Skarns can be subdivided according to several criteria. Exoskarn and endoskarn are common terms used to indicate a sedimentary or igneous protolith, respectively.

Copper skarns are perhaps the world's most abundant skarn type. They are particularly common in orogenic zones related to subduction. Most copper skarns are associated with porphyritic plutons, many of which have co-genetic volcanic rocks, stockwork veining, brittle fracturing and brecciation, and intense hydrothermal alteration. These features are suggestive of a relatively shallow environment of formation. Most copper skarns form in close proximity to stock contacts with a relatively oxidized skarn mineralogy.

The largest copper skarns are associated with mineralized porphyry copper plutons. These deposits can exceed 1 billion tons of combined porphyry and skarn ore with more than 5 million tons of copper recoverable from skarn.



**Potential skarn mineralization environment associated with proximal porphyritic intrusions. After L.Meinert and K.Dawson,**





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