

FutureBridge

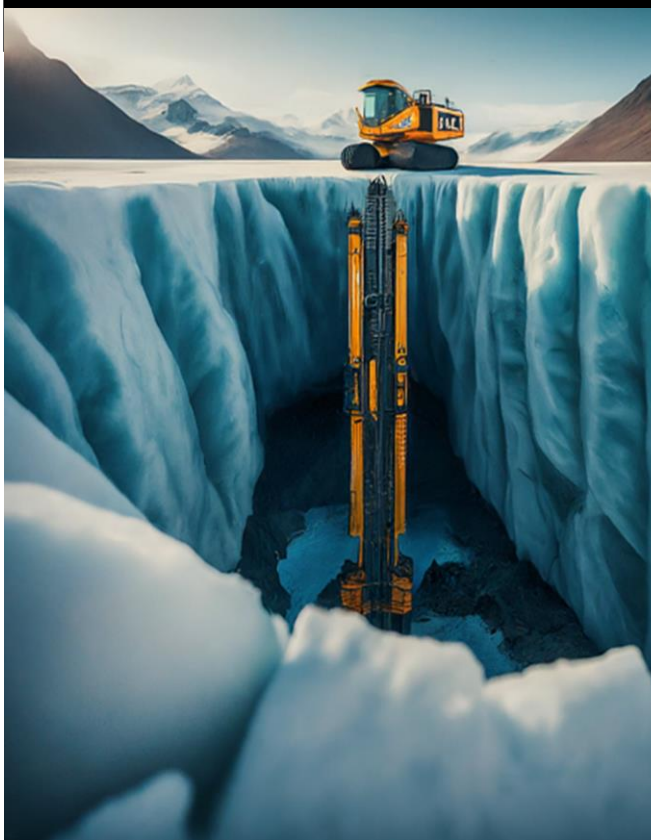
What is?

Sub-glacial mining! The race to harness subglacial riches

Depleting land based mineral reserves has spurred the search of rare earth mineral deposits in remote, subglacial mines.

The United States Geological Survey (USGS) estimates that subglacial minerals could supply 15% of global lithium, critical for advancing green technologies.

Antarctica's subglacial mineral reserves are estimated to hold up to 20 trillion tons of rare earth minerals, including cobalt, tellurium, and dysprosium—key for industries relying on advanced materials.



So far

141

mining permits have been granted for mineral exploration, and processing in Greenland

According to the United States Geological Survey (USGS)

15%

of the world's lithium supply could be met through subglacial deposits

What if?

Game-changing Technologies Transform Subglacial Mining

The British Antarctic Survey (BAS) and the Alfred Wegener Institute (AWI), have been conducting studies in Greenland and Antarctica to assess mineral ore deposits.

Alfred Wegener Institute (AWI) is developing a remote sensing system to map subglacial geology for mineral deposits.

Anglo American is advancing autonomous drones and remote sensing technology for exploration in extreme environments.

Transformation Begins...

Bluejay Mining, and Anglo American have already laid claim to licenses for exploration in the Greenland region.

What now?

The BIG questions

If the turnover of rare earth minerals sourced from the subglacial mines potentially reaches US\$10 Bn by 2040, then...

- ❖ Who will emerge as leaders in subglacial mining? How are they positioned today vis-à-vis their technologies, solutions and products?
- ❖ Which countries and regions will move fast with developing necessary ecosystem for technology and players to drive this transformation?
- ❖ How regulatory compliances and international treaties will impact the growth prospects of subglacial mining?



500 Mn tons

is the projected subglacial rare earth mineral reserves in Greenland

About FutureBridge

FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective to keep you ahead of the technology curve, propel your growth, identify new opportunities, markets and business models, answer your unknowns, and facilitate best-fit solutions and partnerships using our platforms, programs, and access to global ecosystems and players.