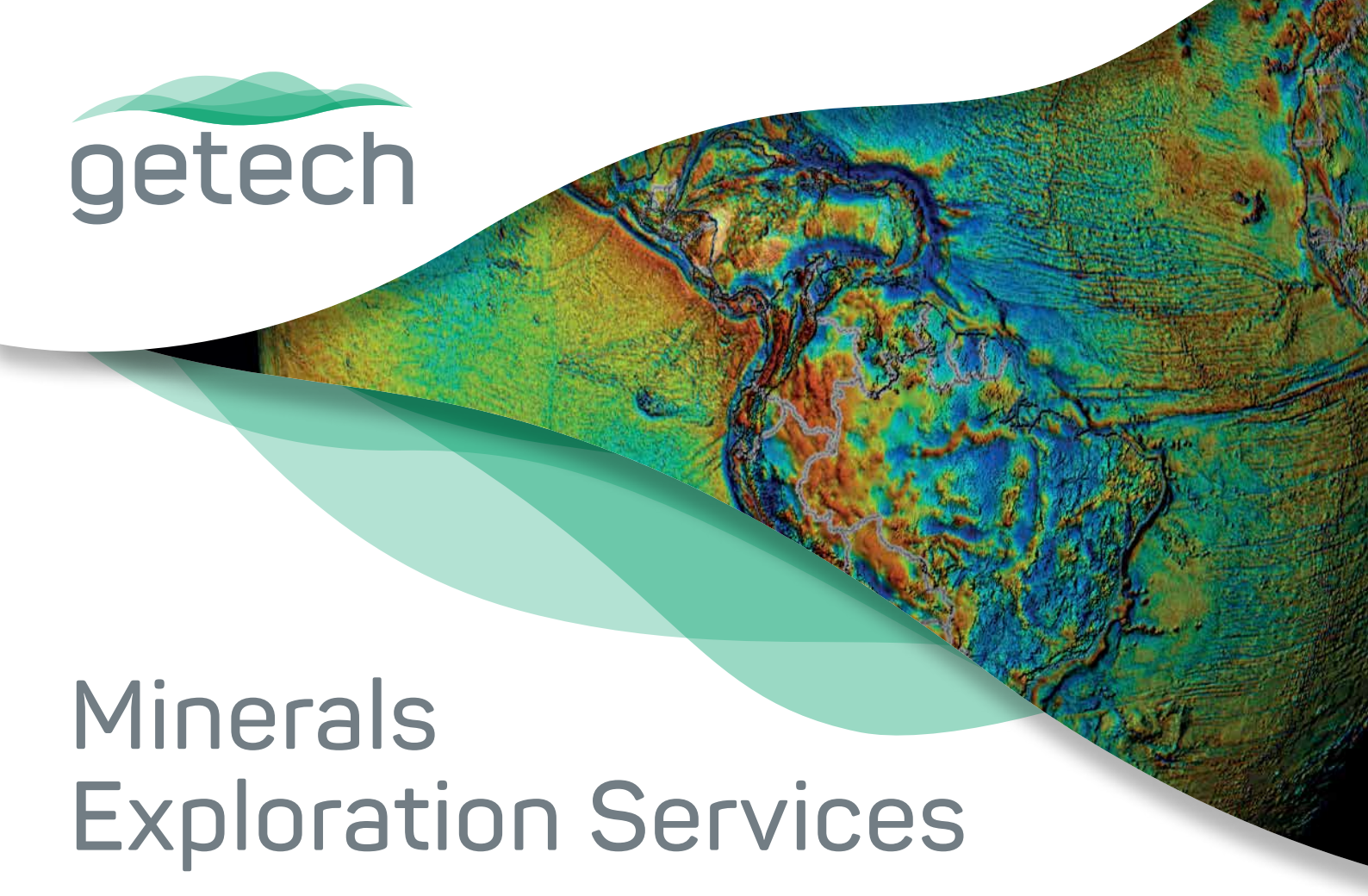
getech



Minerals Exploration Services

Employ a **Mineral Systems** approach to target generation

APPROACH

Getech has amassed an extensive database of geological observations and interpretations over more than three decades which has been applied successfully to natural resource exploration applications worldwide.

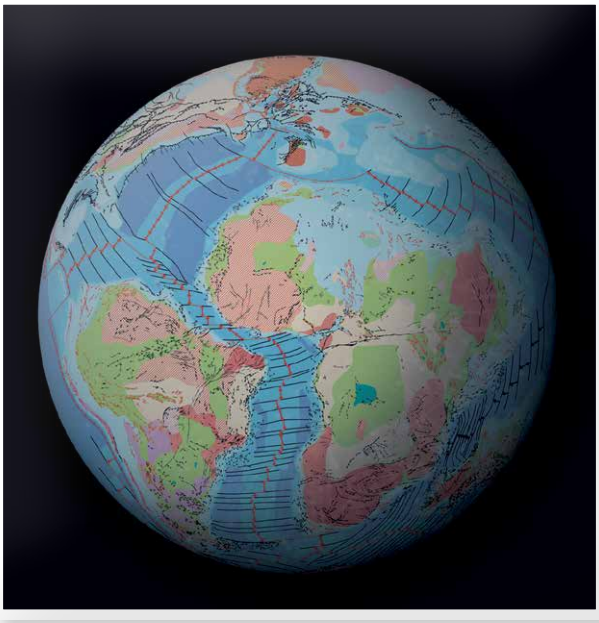
These data exist for each geological age for every point on the earth. Using a mineral systems approach, Getech has developed an algorithm wherein an assessment is made for any given location and age of all genetic factors that could result in the formation of a given mineral deposit.

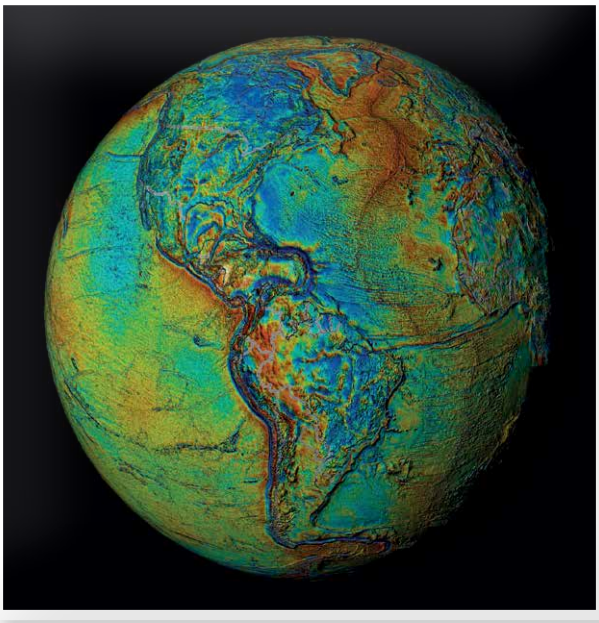
BENEFITS

- Genetic criteria for deposit type are determined using latest ore deposit research.
- Thousands of data layers are searched to find proxies that represent genetic criteria (e.g. rock type, total organic carbon (reductant), highstand-lowstand, regional stress field, palaeoclimate, palaeotopography).
- A ‘play map’ is constructed indicating co-location of positive genetic conditions across a study area to generate regional exploration targets.
- Play map is validated against known deposits, and iterated.

KEY FEATURES

- Getech's critical minerals analysis has been shown to be effective globally for a wide range of deposit types.
- Workflows established for IOCG, sedimentary hosted copper, epithermal gold, lithium, natural hydrogen and others.
- Analysis can be performed for a specific deposit target age or for a range of ages.
- Getech data can be combined with complementary data from clients to enhance the efficacy and detail of the mineral systems analysis.
- Target deliverables are provided in consultation with clients to refine geological and environmental criteria for a given area and age to ensure the highest level of targeting certainty.
- Play maps and genetic criteria maps are provided in industry standard GIS formats.
- Genetic criteria for various deposit types are presented as individual maps with pixels no larger than 0.5 degrees.
- In addition to mineral systems play maps, surface layers such as infrastructure, sovereign risk and cover thickness can be provided for use in more effectively filtering target areas.
- Development ongoing to expand the catalogue of target commodities and deposit styles.





To learn more about our Minerals Exploration Services email **info@getech.com** or visit **www.getech.com**

Getech_02_2023_v1

ABOUT GETECH

Getech applies its world-leading geoscience data and unique geospatial software products to accelerate the energy transition by locating, developing and operating geoenergy and green hydrogen projects.

getech

Getech and www.getech.com are trademarks, registered trademarks, or service marks of Getech Group plc in the United States and the European Community. ©2023 Getech Group plc. All rights reserved.