



Map production and other services

GST offers:

- Gold and base metals exploration (mapping, sampling, drilling, logging)
- Diamond exploration (indicator mineral sampling, processing, analyzing)
- Layered mafic intrusion-hosted PGE exploration
- Mineral prospect evaluation and modelling
- Ground geophysics (magnetics, IP, gravity and EM)
- Geochemical surveys (sampling, analysis, processing, data evaluation)
- Exploration for gemstones
- Coal geology, petrology and characterisation
- Environmental baseline studies, impact assessment and monitoring
- Geotechnical studies
- GIS (ArcGIS and MapInfo); Geochemical software (Chimera)
- Geophysical data software (OasisMontaj, Model Vision Pro)
- Geological mapping database software (RockLog Net and SIGMA)
- Excellent digital databases



For Enquiries

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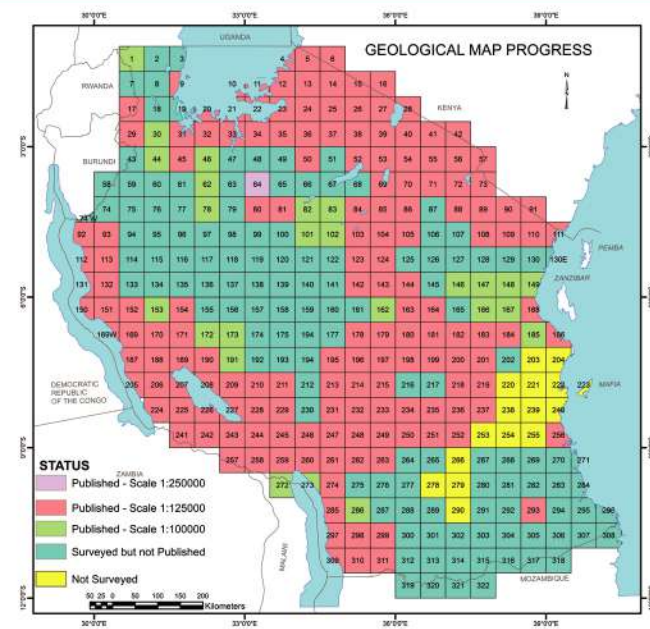
Geological Survey of Tanzania Data for Mining Development



Geological Background and Data Availability

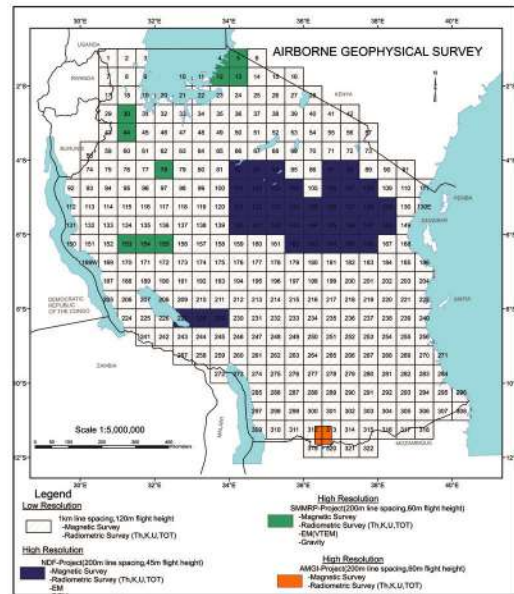
Tanzania is blessed with a geological environment conducive for hosting diverse types of mineral deposits. The country hosts a mining investment area close to one million km² with lithotypes, representing virtually all the known chrono-stratigraphical units of the world ranging from Archaean, Proterozoic, Phanerozoic to Quarternary ages. These geological formations host a variety of minerals such as gold, base metals, diverse types of gemstones (including tanzanite, diamond, emerald, sapphire, ruby, beryl, tourmaline, garnet), fossil fuel, various industrial minerals, building materials, water, coal, uranium and hydrocarbons. There are also various sites with geothermal energy sources.

Tanzania possesses a geological and mineral database, which is virtually complete for work done since the mid 1930s. Such a comprehensive collection is a major asset in the evaluation of the country's mineral resources. The data include high-resolution airborne magnetic, radiometric and electromagnetic surveys in selected areas, geological maps and geochemical data. A new data dissemination policy has been developed.



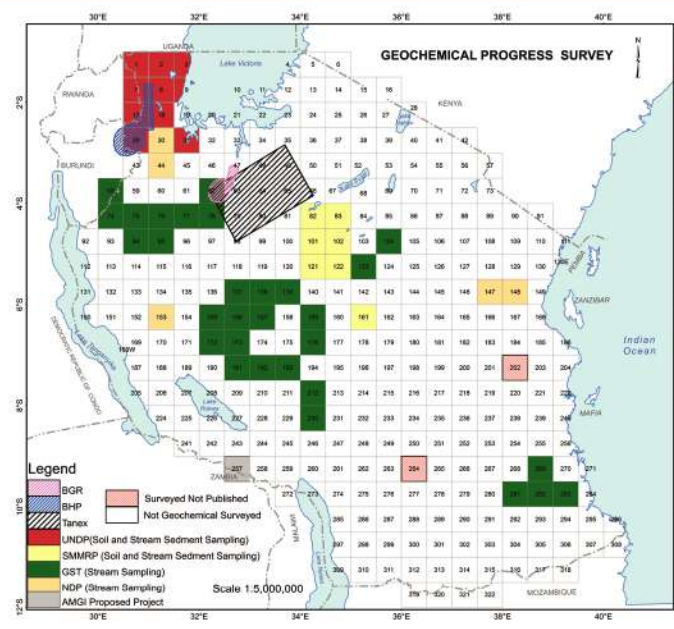
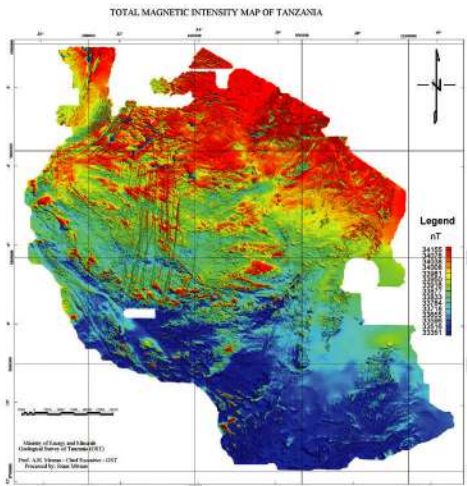
Geological Maps

Geological maps at a scale of 1:125,000 and 1:100,000 cover over 95 % of the 322 Quarter Degree Sheets (QDS). Few maps are available at a scale of 1:250,000. Other maps include a geological map of Tanzania, Lake Victoria Gold Field, Kigoma-Mpanda & Rukwa Mineral Promotion Block Maps, and Mineral Occurrences Maps are available. Recent developments cover, among others, a Minerogenic Map.



Aero-Geophysical Data

Countrywide airborne coverage by magnetic, electromagnetic and radiometric survey is available. Several high-resolution airborne surveys were carried out in specific selected areas including the most recent surveys in 2013 under the SMMRP (Sustainable Management of Mineral Resources Programme).



Geochemical Data

Reconnaissance geochemical surveys have been conducted on more than 21 % of the land area of Tanzania. The surveys were particularly on base metals such as copper, silver and zinc. Other elements including gold, nickel and some rare earth elements were also included in some surveys depending on the purpose of the survey.



Database, Library, Archive and Museum in Dodoma

The Geological Survey of Tanzania (GST) is the custodian of National geoscientific data and information collected for almost 90 years. GST is responsible for the acquisition and storage of geoscientific data and information used in the mineral resources sector and other sectors of the economy. This immense quantity of documentation is currently transformed into a modern Geo-data and Information Management System known as GMIS (Geological and Mineral Information Management System) for safe keeping, easy handling and management as well as for easy dissemination to end users.

