

The GST has specialized expertise and experience in economic geology

- Gold and base metals exploration (mapping, sampling, drilling, logging)
- Diamond exploration (indicator mineral sampling, processing and analyzing)
- Layered mafic intrusion-hosted PGE exploration
- Mineral prospect evaluation and modelling
- Ground geophysics (magnetics, IP, gravity and EM)
- Geochemical surveys (sampling, analysis, processing and data evaluation)
- Exploration for gemstones
- Coal geology, petrology and characterisation
- Environmental baseline studies, impact assessment and monitoring
- 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

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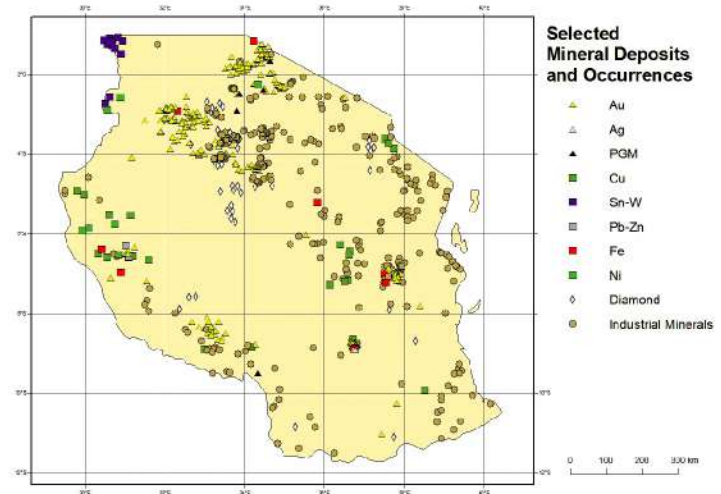
Mining & Geology in Tanzania



Tanzania continues to be one of Africa's biggest mining success stories, endowed with geology which is highly prospective for precious metals, fossil fuels, uranium, base metals, gemstones, industrial minerals and fossil fuels. The country also offers stable political environment with sound legal and fiscal policies.

Tanzania has risen from an insignificant gold producer to become Africa's third largest gold producing country. More than 52 tons of gold were produced in Tanzania in 2005.

Minerals exported are not only gold, but in rank of value also coloured gemstones, diamonds, copper, silver, salt, ornamental stones, gypsum, and phosphate.





The Geological Survey of Tanzania (GST) in Dodoma

The Geological Survey of Tanzania (GST) is a Government Institution under the Ministry of Minerals responsible for acquiring, processing, interpreting, archiving and disseminating national geo-scientific data to various stakeholders for the purpose of promoting and attracting investment in different sector especially mining. Being the oldest best geo-scientific organization in East and Central Africa, GST has been providing geo-scientific services since 1925.

As the custodian of the national geo-scientific data and information collected over the past 90 years, the institution has all it takes to solve geo-scientific problems. The data and information at our disposal include geo-scientific maps and reports, countrywide low resolution airborne geophysical data and high resolution for some parts of the country; and geochemical data for some selected areas. GST hosts a core library with drill cores collected across the country and a national geological Museum with various minerals, fossils and rock samples.

Mineral exploration firms, miners, construction and water drilling companies and other related earth resource stakeholders need not to survey the country's vast land but they are encouraged to consult (at a one stop geo-scientific centre) the Geological Survey of Tanzania for guidance. The GST's offices are centered in the capital town of Tanzania – Dodoma.



Mapping

GST's mapping programmes produce basic information for the needs of the mineral sector (mineral occurrences, exploration and mining ventures), land use planning, construction industry, environmental studies and other sectors of the economy. Over 95 % of the entire country has been geologically mapped. This has generated basic geological and mineralogical data and information used by investors in the mining sector and other sectors of the economy.

GST is also active in airborne and ground geophysical survey as well as in geochemical mapping, monitoring of geohazards, environmental and geotechnical investigations.



The Geological Survey of Tanzania and its Laboratory offers the following support to potential investors and public institutions:

- Production and dissemination of geo-scientific data
- Technical support to both public and private investors in mining
- Sample preparation for chemical and geochemical analysis
- Chemical analysis of major and trace elements
- base and precious metals, pollutant elements
- Petrological, geotechnical and mineralogical investigations
- Petrophysical studies
- Environmental sample analysis (water, plants, soil, sediments)
- Geotechnical studies

GST has a very proactive team of 43 geoscientists versed in various disciplines of geoscience and different levels of qualifications. The professional team is assisted by a very dynamic and equally enthusiastic team of 49 technicians with various knowledge.



Exploration Services

Tanzania offers the exploration industry a favourable investment climate and operating environment with significant potential for new discoveries as many commodities still are highly under-explored. GST has been involved in the mineral exploration projects. These projects have ranged from regional- to prospect-scale and have led to the discovery of a number of significant deposits which are now world class gold mines. Much of the present exploration activity in Tanzania is concentrated in gold, base metals, platinum group metals (PGM), uranium, gemstones, diamonds, fossil fuels (coal and hydrocarbon), geothermal energy sources and industrial minerals.

Nyankanga Pit - Geita Gold Mine

