



Savijo Geo-Engineering Co. Ltd

# Company Profile

Excellent Consultancy Services



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For the most current product information, please visit [www.savijogeo-engineering.com](http://www.savijogeo-engineering.com)

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### **Address**

**Savijo Geo-Engineering Co. Ltd**  
P.O BOX 11438, Dar es salaam, Tanzania.  
Location: Derm House 7<sup>th</sup> Floor, Plot  
no.16, Block 45A, Bagamoyo road,  
Kijitonyama Area. Dar es salaam.

### **Contacts**

Phone: +255 (0) 756 844 154/+255 (0) 767 101 855  
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# Introduction

## Company Background

Savijo Geo-Engineering Company Limited is a Tanzania registered private company founded in 2021. Currently, Office is located at Derm House 7<sup>th</sup> Floor, Plot No. 16, Block 45A, Bagamoyo Road, Kijitonyama Area, Dar es salaam, Tanzania. The aim of the company is providing consulting services to the fields of geotechnics, mining, geology, survey, environment, water resources, waste management, construction and Oil & Gas.



### Our Mission

To provide professionally high quality and efficient technical services to the mining, energy, hydro and engineering construction industries, fostering a safe, healthy and environmentally friendly working environment that contributes effectively to the sustainable development of the entire mining, energy and construction industries.



### Our Vision

To be recognized as the best company in the provision of specialized expert advice and solutions in the fields of geotechnics, mining, geology, survey, environment, water resources, waste management and Oil & Gas in Tanzania and internationally.

## Our Goals

- 01 To provide solution to geotechnical problems associated with mining, construction and other projects that requires geotechnical expert advice at any level.

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- 02 To provide consulting services to the mineral, energy and engineering construction sectors of the economy. Specifically focusing on initial mineral and fossil fuels prospecting and exploration, mines and projects development, mining operation and closure phases, and rehabilitation of disturbed areas. For the construction industry, services associated with site investigation, geotechnical, hydrological and hydro-geological investigations.

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- 03 To serve the small, medium and large scale mine sectors of the industry, through the conduct of technologically safe, efficient, and environmentally sound practices.

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- 04 To provide training in aspects of safety, health and environment in mines for safe mining and project continuity.













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- 05 To provide training in the field of Geotechnics, Mining, Geology, Survey, Environment, Water resources, Construction and Oil&Gas. Consultation in company and dispatch management.

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- 06 To conduct ore resource and reserve estimation in various minerals to determine both quality and quantity of an ore deposit, also known as tonnage and estimated economic value and life of mine.

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# Our Services

We offer services and Technical Support on below sectors.

 <p>Exploration &amp; Mining</p>	 <p>Resources &amp; Reserves</p>	 <p>Oil &amp; Gas</p>	 <p>Infrastructure</p>
 <p>Equipment Rental</p>	 <p>Hydro-services</p>	 <p>Energy</p>	 <p>Survey</p>
 <p>Drilling</p>	 <p>Environment &amp; OHS</p>	 <p>Management Training and Dispatch Management</p>	 <p>Social</p>



## Our Vision

To be recognized as the best company in the provision of specialized expert advice and solutions in the fields of geotechnics, mining, geology, survey, environment, water resources, waste management and Oil & Gas in Tanzania and internationally..

# 1. EXPLORATION & MINING SERVICES

## **Geotechnical Engineering Service.**

Geotechnical Investigation Drilling including Augerring and Coring drilling, Standard Penetration Test (SPT) performance, on site soil and Rocks sample selection for laboratory Testing etc.

Geophysical surveys, including seismic refraction, electrical resistivity, ground penetration radar, and geotechnical engineering and design services.

Geotechnical construction services to support new construction projects, i.e. Highway material selection and Testing, Sample testing, laboratory testing for soil modification, evaluation of foundation bearing conditions, and site geotechnical investigations.

Pressure meter testing in-situ (in place) testing performed to maximize the information obtained during subsurface exploration and field-testing programs, and to provide the project team with bearing capacity and settlement analysis information.



## **Drilling.**

We design drilling programme based on Exploration Data, we supervise and provide the following drilling services: -

Air Circulation (AC) Drilling Services.

Rotary Air Blast (RAB) Drilling Services.

Reverse Circulation (RC) Drilling Services.

Diamond core Drilling Services.

## **Mineral Exploration Services.**

Geophysical Survey Services such as Ground Magnetic Survey, Airborne Magnetic Survey, Induced Polarization (IP) Survey, Controlled Source Audio Magnetotelluric method, Transient Electromagnetic method etc.

Geochemical Survey Services such as the use of NITON XRF Machine for rapid delineation of geochemical anomalies, increase sample density over tradition lab methods and direct analysis of drill core and cutting to drive mineral exploration directly on site.

Mining Engineering Planning such as Mining Engineering planning, mining planning and scheduling, Mine production.

Environmental Impact Assessment-Environmental Approvals and Compliance, Mine Operation Support, Environmental Management, Mine Closure and Rehabilitation.

## **Mine Closure planning.**

Mine Closure Planning is both a legal requirement and an industry's good practice that allows Mines to carry out designs with mine closure in mind. Early planning for closure enables the Company to address specific Project issues and uncertainties in the designs which can be updated over the life cycle of the Project. With limited information at the feasibility study stage regarding Closure, a conceptual plan is usually prepared and is required in Tanzania as part of the Environmental Impact Statement that needs Government approval prior to issuance of the Mining Licence. The Conceptual Closure Plan needs to be updated regularly as more operational data, information and studies become available. Savijo Geo-Engineering Company assists its Clients in preparation of conceptual closure plans and updating them to Detailed Closure Plans.

### **Permits minerals rights and Management services.**

Savijo Geo-Engineering Company carries out the required processes to prepare and submit mining and prospecting right applications, this includes all the necessary permits and related authorizations.

We provide services of preparing a Legal Register/permitting plan based on a legislative review and in relation to a particular project, from the initial stages of the project, execution and closure. This will form a primary reference document and will be the basis of the assessment of legal compliance in the HSE field.

### **Mining Engineering Services.**

Conducting Feasibility study which analyses and select the optimum mining methods, mine access, production planning and scheduling, personnel and material handling, mine services, financial and economic analysis. Sensitivity analysis and risk assessment, infrastructure requirements and environmental analysis and Preparation of bankable reports.

### **Artisanal and Small-scale Mining.**

Artisanal and Small-scale Mining (ASM) is commonly carried out in many parts of Tanzania aiming at production of various types of minerals such as sand, gold, gemstones, gravels, tin, copper ores, gypsum, dimension stones and industrial minerals to mention a few. Savijo Geo-Engineering Company Ltd provides high quality independent and professional consultancy services to governments, NGOs, aid agencies and the private sector in supporting small scale mining within Tanzania and outside Tanzania. Small scale operations usually have limited funding, and ability to optimize the use of fund is critical in these operations. With the increasing overheads and commitments associated with employing full-time staff, outsourcing of Exploration and Mining Personnel makes good economic and legal sense.



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**Savijo Geo-Engineering Company Ltd**

**Excellent Consultancy Services**

## 2. OIL & GAS

### **Permits and Environmental service.**

Savijo Geo-Engineering Company Ltd carries out the required processes to prepare and submit mining and prospecting right applications, this includes all the necessary permits and related authorizations.

We provide services of preparing a Legal Register/permitting plan based on a legislative review and in relation to particular Oil and Gas projects, from the initial stages of the project, execution and closure. This will form a primary reference document and will be the basis of the assessment of legal compliance in the HSE field.

### **Geotechnical Engineering.**

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# 3. INFRASTRUCTURE

## **Permits and Environmental services.**

Savijo Geo-Engineering Company Ltd carries out the required processes to prepare and submit applications on Infrastructural Project, this includes all the necessary permits and related authorizations.

We provide services of preparing a Legal Register/permitting plan based on a legislative review and in relation to Infrastructural developmental projects, from the initial stages of the project, execution and closure. This will form a primary reference document and will be the basis of the assessment of legal compliance in the HSE field.

Geotechnical Investigation Drilling including Augerring and Coring drilling, Standard Penetration Test (SPT) performance, on site soil and Rocks sample selection for laboratory Testing etc

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**Permits and Environmental service.**

Savijo Geo-Engineering Company Ltd is will be carrying out the required processes to prepare and submit applications on Hydro Project, this includes all the necessary permits and related authorizations.

We provide services of preparing a Legal Register/permitting plan based on a legislative review and in relation to Hydro developmental projects, from the initial stages of the project, execution and closure. This will form a primary reference document and will be the basis of the assessment of legal compliance in the HSE field.

**Geophysical studies of the ground.**

Geotechnical Investigation Drilling including Augerring and Coring drilling, Standard Penetration Test (SPT) performance, on site soil and Rocks sample selection for laboratory Testing etc

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# 5. ENERGY

## **Permits and Environmental service.**

Savijo Geo-Engineering Company Ltd is will be carrying out the required processes to prepare and submit applications on Energy Project, this includes all the necessary permits and related authorizations.

We provide services of preparing a Legal Register/permitting plan based on a legislative review and in relation to energy developmental projects, from the initial stages of the project, execution and closure. This will form a primary reference document and will be the basis of the assessment of legal compliance in the HSE field.

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# 6. SURVEY

## **Permits and Environmental service.**

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## **Geotechnical Engineering.**

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# 7. ENVIRONMENT

Savijo Geo-Engineering Company Ltd has the expertise and experience to undertake the full range of studies required for Environmental Impact Assessments (IFC and local compliance). This includes the statutory public participation and consultation process, specialist studies and all the required interactions with the regulating authorities.

Savijo Geo-Engineering Company Ltd approach towards EIA development also emphasizes the management of identified risks, thus adding significant value to the organization beyond the delivery of a report submitted to regulators for approval. Environmental statements on internal and external processes and activities are available to companies that do not require a full **Environmental management program.**

Environmental impact assessment	Environmental Audit.	Environmental Management
Environmental Monitoring.	Baseline Study	Noise and Vibration Survey
Radiation	Air Quality.	Hydro Geology

**Air Quality,** The control and management of dust are paramount for ensuring the safety, health, and productivity of workers, as well as the sustainability of operations. Dust generated during various activities like mining, construction can have detrimental effects on both the environment and human health.

### **Protecting Worker Health and Safety**

Operations often involve various processes that generate significant amounts of dust, such as drilling, blasting, crushing, and transportation of materials. Exposure to excessive dust levels can lead to respiratory problems, including silicosis, chronic obstructive pulmonary disease (COPD), and other lung diseases. By implementing comprehensive dust monitoring programs, we can identify areas with high dust concentrations and take necessary measures to mitigate risks, such as improved ventilation, use of personal protective equipment, and modifications to operational practices

### **Compliance with Regulations and Standards**

Operations are subject to stringent regulations and standards set by government agencies and industry bodies to ensure worker safety and environmental protection. Dust monitoring plays a crucial role in demonstrating compliance with these regulations. By monitoring dust levels and implementing appropriate control measures, we can assist companies to meet regulatory requirements, avoid penalties, and maintain a positive reputation within the industry.

### **Environmental Impact and Sustainability**

Excessive dust emissions from activities like mining, construction can have significant environmental impacts. Dust particles can settle on surrounding vegetation, water bodies, and residential areas, leading to ecosystem disturbances and potential health hazards for nearby communities. Dust monitoring allows mining companies to assess their environmental footprint and take proactive measures to minimize dust emissions. This can include implementing dust suppression techniques, utilizing advanced dust control technologies, and adopting best practices for dust management, thereby reducing the overall impact on the environment and promoting sustainable mining practices.

### **Optimization of Operations**

Effective dust monitoring provides valuable data that helps companies identify patterns and trends in dust generation. This data can be utilized to optimize operational processes and reduce dust generation at its source. SGE will be identifying areas with excessive dust emissions, companies can make informed decisions about equipment modifications, process adjustments, and the implementation of engineering controls to minimize dust release. Improved operational efficiency not only enhances worker safety and environmental sustainability but also contributes to cost savings and increased productivity.

### **Community Engagement and Social Responsibility**

Companies have a responsibility to engage with local communities and address their concerns regarding dust emissions. By investing in dust monitoring and control measures, companies demonstrate their commitment to protecting the health and well-being of nearby residents. This proactive approach fosters positive relationships with communities, enhances social license to operate, and reduces potential conflicts and SGE will assist on this.

Dust monitoring is a critical component of responsible operations practices. It enables companies to safeguard worker health and safety, comply with regulations, minimize environmental impacts, optimize operations, and

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engage with communities effectively. By prioritizing dust monitoring, the mining and construction sectors can demonstrate its commitment to sustainable and responsible mining and construction practices, contributing to the overall well-being of workers, nearby communities, and the environment. SGE will be able to assess the situation, monitor and manage at all levels of industries.

# 8. OHS ISSUES

Savijo Geo-Engineering Company Ltd has the expertise and experience to undertake the range of studies required for Occupational safety and health compliance. Occupational Health and Safety Compliance, also known as OHS Compliance, is a standard involving compliance to all the required legal standards as they are stipulated in the Occupational Health and Safety Act 85 of 1993. This includes the statutory public participation and consultation process, specialist studies and all the required interactions with the regulating authorities.

Savijo Geo-Engineering Company Ltd approach towards Occupational safety and health where by Occupational safety and health is a discipline with a broad scope involving three major fields -Occupational Safety, Occupational Health and Industrial Hygiene. Occupational safety deals with understanding the causes of accidents at work and ways to prevent unsafe act and unsafe conditions in any workplace.

Occupational Hygiene.	Occupational Safety Services.	Occupational Medical.
Fire Safety.	EHS Management Software	EHS Staff Outsourcing.

**Occupational Hygiene:** Risk assessments and evaluation of employee exposure to hazardous chemical substances and biological agents.

**Occupational Safety Services:** Conduct audits and assist in developing appropriate risk management programs Health and Safety Inspections Undertaking Accident Incident.

**Occupational Medical:** Baseline, Periodical & Exit medicals, Audiometric Tests Lung Function, Tests Biological Monitoring, Driver Vision Screening Development of documentation on minimum standards of fitness to perform work, Integration of medical surveillance finding with assessment hygiene exposure data and records Annual medical report.

**Fire Safety:** Fire Risk Assessments Fire Surveys and Audits Fire safety strategies Fire Evacuation Drills Fire safety training Supply, Installation and servicing of firefighting equipment.

**EHS Management Software:** An effective EHS management system helps organizations in any industry remain highly productive in today's competitive marketplace. Our EHS Management software connects all areas of safety, health and environment into one easy-to-use platform. Manage your entire EHS program in our configurable system to save time and improve efficiency in your EHS program.

**EHS Staff Outsourcing:** SAFEWORK & ENVIRONMENT CONSULTANTS LIMITED can provide clients an assigned and dedicated on-site EHS expert with proven experience. Our EHS professionals provide support based on the specific needs, requests, and time frames of the client. Our experts do the heavy lifting which allows our clients to concentrate on their primary business, technologies, and job functions.

## 9. RESOURCE ESTIMATION

Savijo Geo-Engineering Company Ltd has the expertise and experience to undertake the full **Mineral resource estimation** and this is used to determine and define the ore tonnage and grade of a geological deposit, from the developed block model. There are different estimation methods used for different scenarios dependent upon the ore boundaries, geological deposit geometry, grade

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variability and the amount of time and money available. A typical resource estimation involves the construction of a geological and resource model with data from various sources. Depending on the nature of the information and whether the data is hard copy or computerized, the principal steps of computer resource estimation are:

1. Creation, standardization and validation of the database.
2. Section plotting and interactive geological modeling.
3. Geostatistical analysis.
4. Block modeling and block estimation.

### **Geological modelling**

An orebody model serves as the geological basis of all resource estimation, an orebody modeling project starts with a critical review of existing drill hole and surface or underground sample data as well as maps and plans with current geological interpretation. Drill hole and/or sample databases are set up to suit all the quantitative and qualitative information necessary to build a resource model. The creation of a geological model may include the following steps:

- Computer-based 3D orebody modeling
- Sectional, longitudinal, 3D and multi-seam modeling
- Geostatistical analysis, variographic analysis of composite spatial continuity

### **Block model estimation**

Once the geological modeling is completed, the geological envelopes are divided into block models. Subsequently, the estimation of these blocks is done from "composites" that are point measures of the grade of ore in the rock. Several different mathematical methods can be used to do the estimation depending on the desired degree of precision, quality and quantity of data and of their nature.

### **RESERVES**

In geology, a reserve is the economically mineable portion of a mineral resource. Reserves are estimated by taking into account the cost of mining, processing, and extracting the resource.

How are reserves estimated?

#### **Mineral resources**

Concentrations of a commodity that have the potential to be economically extracted. Geologists typically estimate mineral resources.

#### **Mineral reserves**

The economically mineable part of a measured or indicated mineral resource. Mining engineers or reserve estimation specialists typically estimate mineral reserves.

#### **Types of mineral reserves**

##### **Probable mineral reserve**

A lower confidence estimate that is still high enough to justify developing the deposit.

##### **Proved mineral reserve**

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The highest confidence estimate, which implies a high level of confidence in the geological factors.

### **Why are reserves important?**

Mineral reserves are important because they help investors decide if it's economically feasible to mine a resource. Proven mineral reserves are the lowest risk for investors.

SGE will provide you with the excellent service on this for right decision of your mine.

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## **MANAGEMENT TRAINING AND DISPATCH MANAGEMENT.**

Savijo Geo-Engineering Company undertakes management principles training for the aim of helping companies to improve their management systems for the growth of the company. On management training we focus on improving an individual's skills as a leader and manager. There may be an emphasis on soft skills, such as communication and empathy, which enable better team work and more progressive relationships with the people they manage. On dispatch management we focus on offering skills in organizing, assigning, and optimizing the schedules and routes for workers within the delivery, maintenance, and service businesses

# **10 . TRAINING & MANAGEMENT.**

**We offer Technical training programs for graduates and employees in the field of Geotechnics, Mining, Geology, Survey, Environment, Water resources, Construction and Oil & Gas.**

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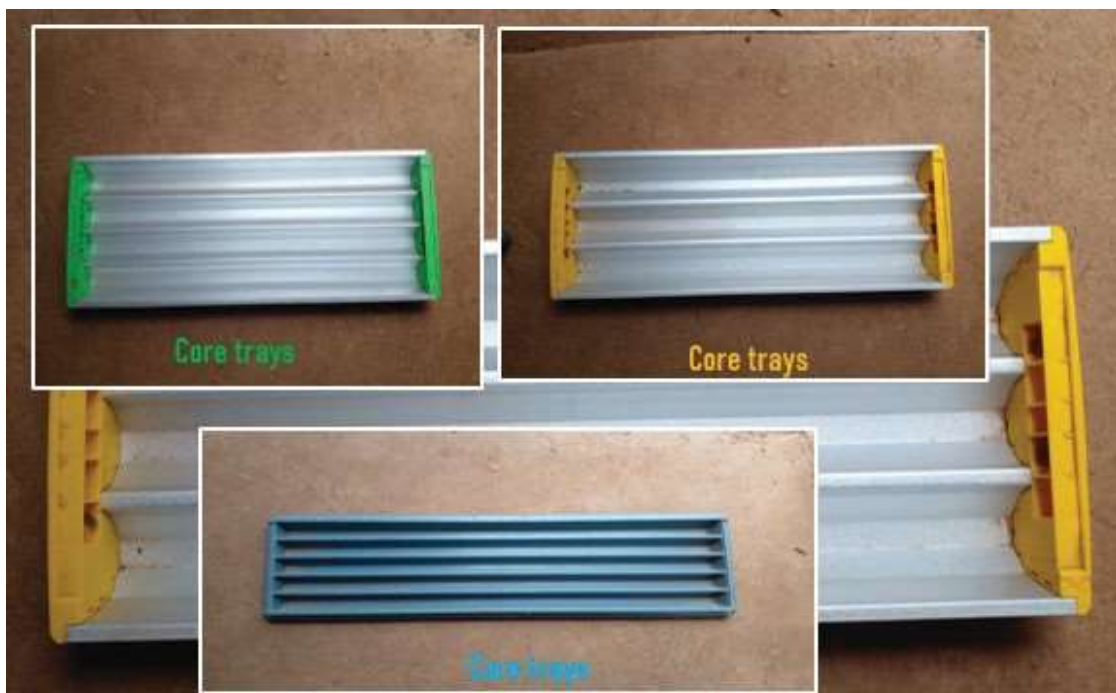
Web: [www.savijo.com](http://www.savijo.com)

# 11. GENERAL SUPPLIES

We supply geological and mining equipment. We offer a variety of geological, mineral exploration, surveying and mining supplies. We can supply a range of soil sample bags, chips trays and geological field equipment;

## LIST OF ITEMS WE SUPPLY

- Core boxes, Core saws, Core saw blades, Core & Sample splitters, Drill Hole Plug, Core cutting Accessories, Core Orientator, Rock chip Tray, Sample bags, Sample cards, Sample vials, Canisters and Buckets and Soil sampling tools.
- Geological hammers, Picks, Chisels and Hand tools, Vests, Belts and Cases, Rock and Sand identification, all weather Notebooks, Cases and Pens, Measuring and Testing Equipment, Hand Lenses and Lanyards, Plotting and Drafting Supplies and Acid& Sniffer Bottles. And all other tools and consumables related to Geological, Mineral exploration, surveying and mining as per requirements from Clients.



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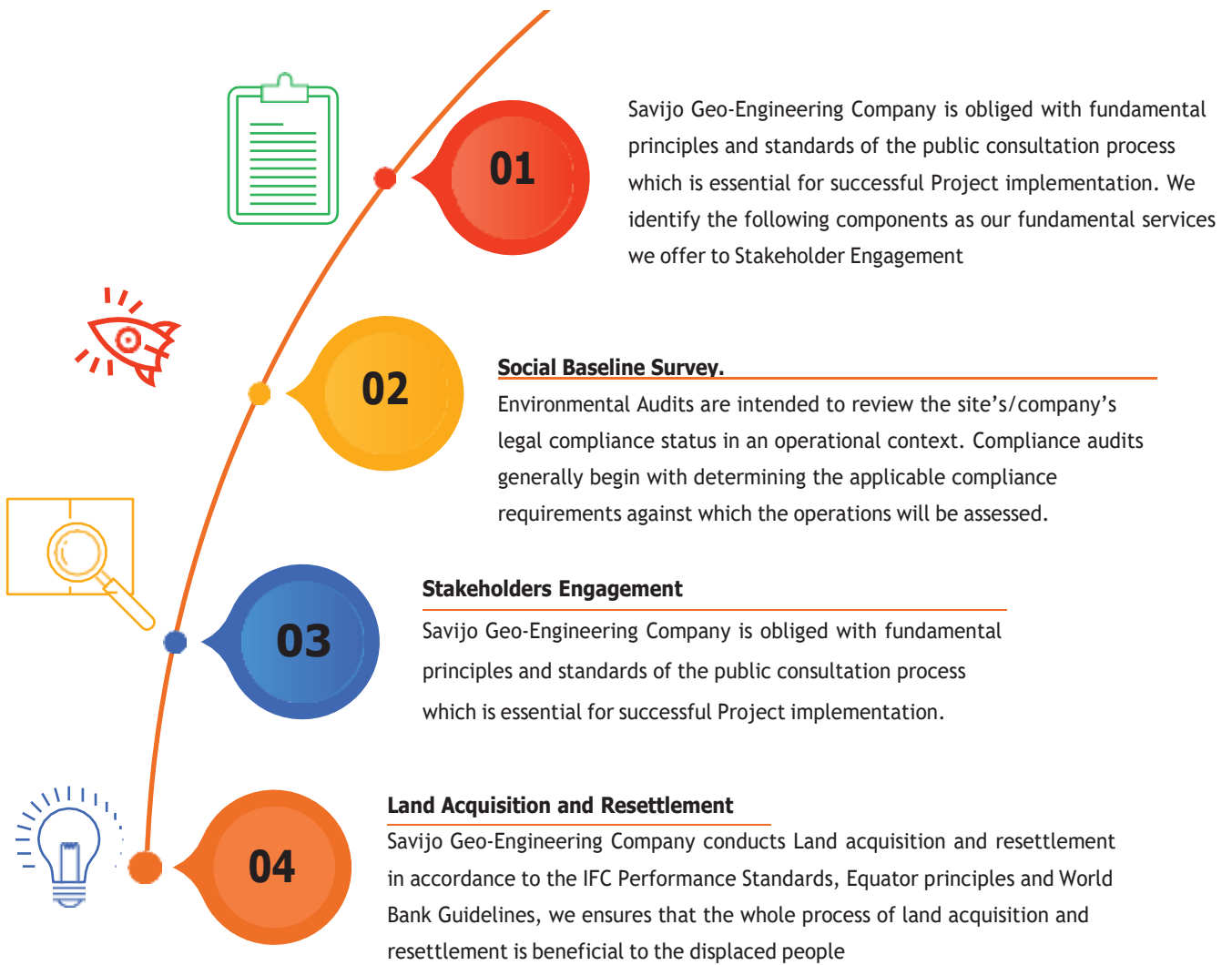
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## Social Impact Assessment.

Savijo Geo-Engineering Company is conversant in conducting social impact assessment and planning for effective social mitigation plans that could mitigate Project adverse impacts and enhance the positive ones. Our fundamental principles in Social Impact Assessment are underpinned to ensure:



**Savijo Geo-Engineering Company guarantees quality and timely delivery of the audit findings for legal compliance and site operational improvements**

# OUR PROJECTS

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## Savijo Geo-Engineering Co. Ltd

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Project Details	Client	Duration	Project Status
Dewatering boreholes project for the Underground Mine to reduce water pressure into the mine drives.	MATONGO GOLD MINE, NYAMONGO - TARIME - TANZANIA.	2021	Completed
RC Drilling project for exploration works as part of due diligence for business purpose.	AURELIUS RESOURCES INC, CHUNYA - MBEYA - TANZANIA.	2022	Completed
New Luika Gold Mine (Shanta Gold Mining Limited)	Baseline respirable dust monitoring and employee's exposure profiles establishment, Shanta Gold Mining Ltd - Chunya Baseline Area and Personal Noise Exposure survey. Baseline Personal Noise Exposure survey Baseline respirable dust monitoring and employee's exposure profiles establishment, Shanta Gold Mining Ltd - Chunya	2022	Completed
Detailed Geological mapping and Geological map drawing.	AURELIUS RESOURCES INC, CHUNYA - MBEYA - TANZANIA.	2022	Completed
Detailed Geological mapping and Geological map drawing. Commodity: Coal	TEAMONE COMPANY LTD, ILALA - DSM - TANZANIA.	2022	Completed
Detailed Geological mapping and Geological map drawing. Commodity: Graphite	IN&OUT COMPANY LTD, ILALA - DSM - TANZANIA.	2022	Completed

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Detailed Geological mapping and Geological map drawing.	NEHAR EDEN CORP LTD, CHUNYA - MBEYA	2022	Completed
Detailed Geological mapping and Geophysical survey on Graphite deposit.	NEHAR EDEN CORP LTD, MATOMBO - MOROGORO	2023	Completed
Detailed Geological mapping , Geophysical survey and diamond drilling on Graphite deposit.	METL, MERERANI - ARUSHA	2024	Ongoing
Resource estimation and Mine planning on COAL deposit.	JITEGEMEE HOLDING CO LTD, SONGEA - RUVUMA	2024	Completed
Detailed Geological mapping, Trenching and Diamond drilling on GRAPHITE deposit.	RUVUMA NICKEL LTD , HANDENI - TANGA	2025	Ongoing
Reconnaissance survey for Bauxite in Tanzania.	EGYPTIAN COMPANY FOR EXPORT	2025	Ongoing
Detailed Geophysics survey on Gold deposit.	MARA MINING INVESTMENT LTD, NYAMONGO - MARA	2024	Completed
Detailed Geophysics survey on Gold deposit.	ALNITAK RESOURCES LTD, NAMPALAHALA - GEITA	2024	Completed

**Savijo Geo-Engineering Co. Ltd**

P.O BOX 11438, Dar es salaam, Tanzania.  
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1.

### Geotechnical works at RIO ZIM MINE, ZIMBABWE

**Project Details:**

**Project:** Geotechnical study for pits, Geotechnical drilling, Data collection and Historical data review and validation.

**Period:** 2022 to date

**Achievement:** Geotechnical database is established.

**Status:** - Ongoing project.

01

### 2. Geotechnical works at PETRA DIAMONDS MINE, TANZANIA

**Project Details:**

**Project:** Geotechnical study for pits, Water treatment PLANT and Radar slope monitoring parameters for pit wall monitoring.

**Period:** 2021

**Achievement:** Geotechnical system established.

**Status:** Ongoing project.

02



### 3. Resource and Reserve review for SOTB MINE, BURUNDI

#### Project Details:

**Project:** Data review, Resource Drilling, Modelling and Resource

**Period:** - 2021 to date.

**Achievement:** - Data review completed and Drilling ongoing.

**Status:** - Ongoing project.

# 03

### 4. Geotechnical works at EUROCOM, DSM- TANZANIA.

#### Project Details:

**Project:** Geotechnical study for YARD CONSTRUCTION and all facilities

**Period:** 2022

**Achievement:** Study completed and YARD constructed at the standards

**Status:** Completed

# 04

**Savijo Geo-Engineering Co. Ltd**

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**5. GEOPHYSICS SURVEY (IP & MAGNETIC)  
NAHAR EDEN CORP LTD – CHUNYA, MBEYA – TANZANIA.**

05

**Project Details:**

**Project:** Geophysical survey using Ground Magnetic survey and Induced Polarization.

**Period:** 2021

**Status:** Completed

Geophysical survey using Ground Magnetic survey and Induced Polarization for Nehar Eden Corp Ltd in Chunya, Mbeya - Tanzania.



06

**JINLONG MINING CO. LTD – CHUNYA, MBEYA – TANZANIA.**

**Project Details:**

**Project:** Geophysical survey using Ground Magnetic survey and Induced Polarization.

**Period:** 2021

**Status:** **Completed**

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**Geophysical survey using Ground Magnetic survey and Induced Polarization for Atocha Group Ltd in Chunya, Mbeya – Tanzania.**

# 06

## **ATOCHA GROUP LIMITED – CHUNYA, MBEYA – TANZANIA.**

### **Project Details:**

**Project:** Geophysical survey using Ground Magnetic survey and Induced Polarization review of the mine.

**Period:** 2021

**Status:** Completed

# For Enquiries:

Please Get in touch with us...



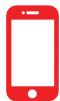
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