



MINROM

POTENTIAL LIES WITHIN

# Company Profile



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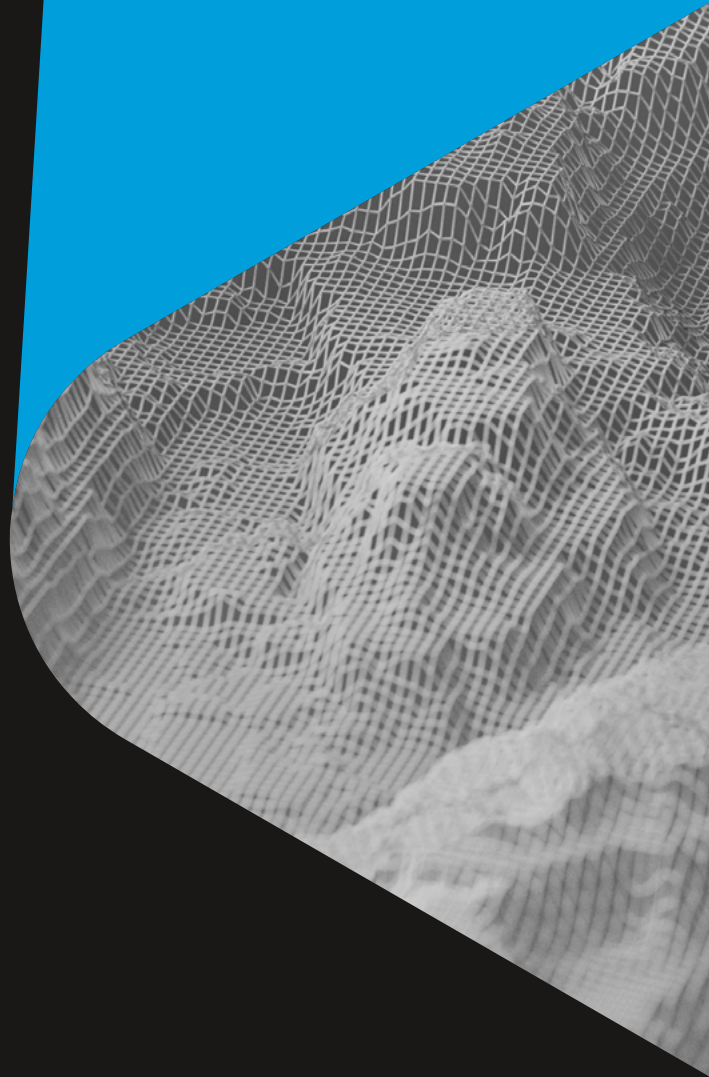
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ABOUT US

# Mineral Resource Management Partner



## COMPANY OVERVIEW

**MINROM is a leading geological and mining engineering consulting firm with a footprint throughout Africa. We specialise in identifying and unearthing project potential through scientific investigations in mineral exploration, 3D modelling, geometallurgical modelling and mining engineering.**

Headquartered in South Africa, MINROM is located in Cape Town, with remote offices in Namibia, DRC and Uganda. Our extensive experience in the minerals industry exploration, modelling and mining has led to scores of successful projects across the globe.



# About MINROM

## OUR VALUE PROPOSITION

**MINROM exists to harness the untapped potential of mineral resource assets by uncovering their hidden value and increasing NPV.**

By leveraging our knowledge and understanding of minerals and metals, MINROM empowers mining entrepreneurs and forward-thinking individuals to capitalise on the optimal opportunity to extract these minerals, optimally increasing shareholder value in a sustainable manner. With a commitment to innovation, MINROM employs innovative exploration techniques, 3D geological orebody modelling and geometallurgical modelling technology. Optimal mine planning, pit optimisation with CAPEX engineering delivers increased shareholder value and NPV.

## SERVICES

MINROM unlocks mineral asset value through proper mineral resource management

### Strategy



- Project Potential Advisory Services
- Project Ranking Matrices
- Exploration Strategies to Unlock Value
- Project Valuations
- Conceptual Project Evaluations (CPE)
- Preliminary Economic Assessments (PEA)
- Preliminary Feasibility Study (PFS)
- Feasibility Study (FS)
- Bankable/Definitive Feasibility Study (BFS/DFS)
- Independent Project Due Diligence Reviews

### Mineral Exploration



- Due Diligence Investigations
- Geophysics
- Soil Geochemistry
- Exploration Project Scoping
- Exploration Project Management
- Geochemistry
- Drilling Management
- Prospecting Work Programmes

### Resource Modelling & GIS



- Geological Modelling
- Geometallurgical Modelling
- Ore Domain Identification and Testing
- 3D Geological Block Modelling
- Mineral Resource Estimation
- GIS Services & Remote Sensing
- Competent Person's Reports

### Mining



- Stockpile Control
- Mining Rights Applications
- Mining Work Programmes
- Mine Surveys
- TSF (Slime Dam) Design
- Opencast and Underground Mine Design and Optimisation
- Mine Optimisation, Planning and Scheduling
- Mining Equipment Selection Studies
- Reserve Estimation and Reconciliation
- Mining Cost Optimisation Studies

### Hydrology Exploration



- Pump Testing
- Mine Dewatering
- Geophysics
- Borehole Planning
- Potable Drinking Water Supply for Lodges and Mine Camps

### Geology Training



- Field Mapping & Geological Field work
- Drilling Logging & Sampling
- Geological Databases
- Geostatistical Mineral Evaluation
- 3D Geological Block Modelling
- GIS & Remote Sensing



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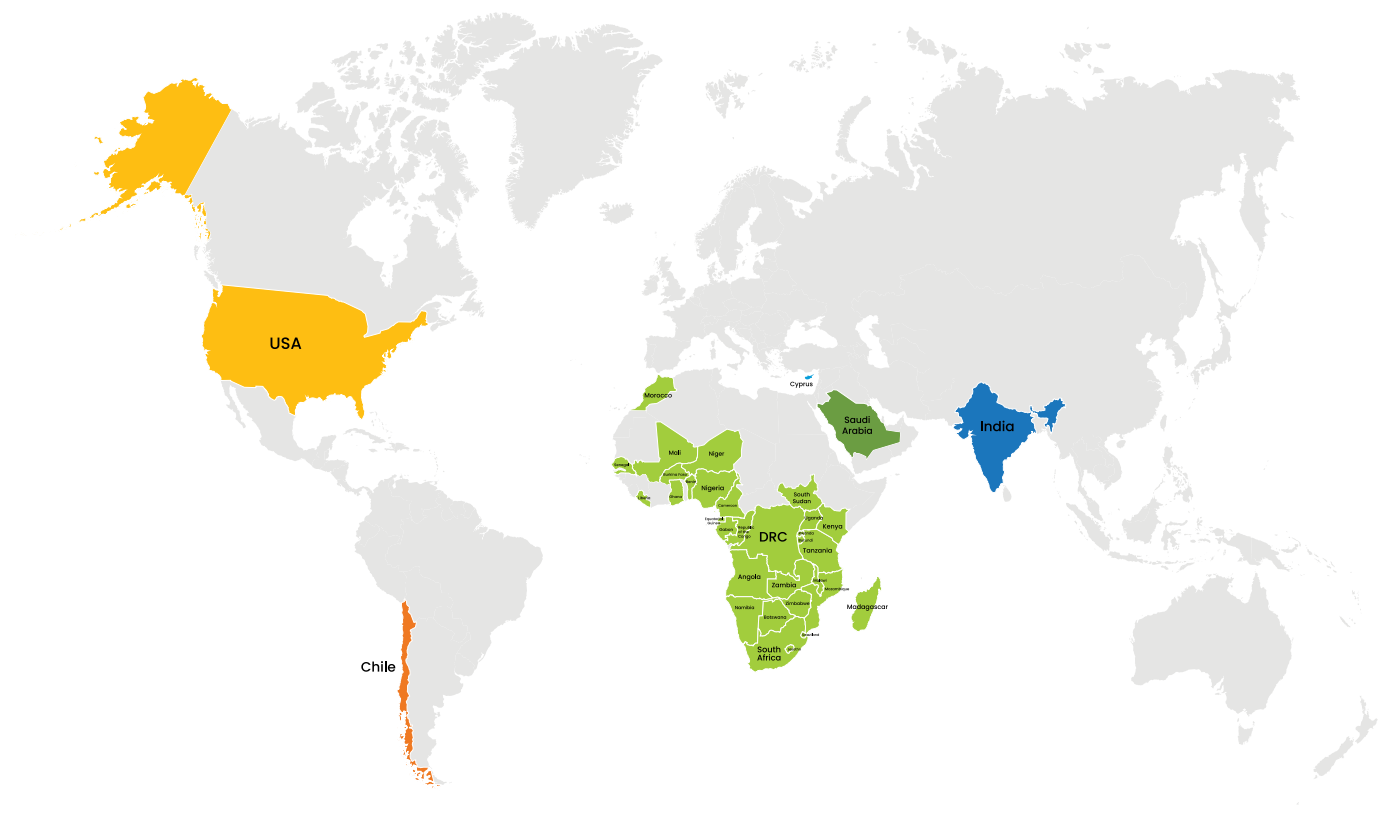
# Our Footprint

**MINROM has an impressive footprint of projects across the world.**

MINROM has worked on multiple commodities, geological deposit types and styles of mineralisation, and has expertise in base metals, industrial minerals, strategic minerals, critical minerals, battery minerals, precious metals and gemstones.



MINROM operates in multiple languages

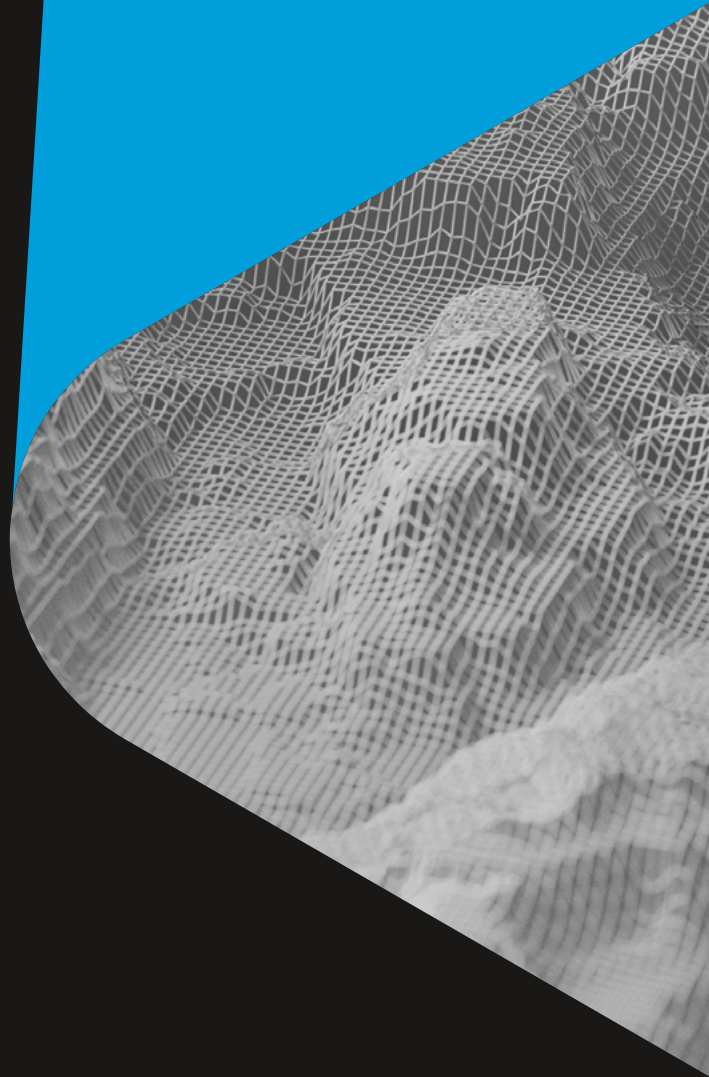


## We have experience in multiple commodities

- Manganese
- Iron
- Copper
- Cobalt
- Gold
- Graphite
- Lithium
- Tin
- Tantalum
- Tungsten
- Diamonds
- Coal
- REEs
- Nickel
- Vanadium
- Chrome
- PGEs
- Silver
- Silica
- Lime
- Lead
- Zinc
- Aluminium
- Vermiculite
- Mica and clay
- Feldspar
- Limonite
- Phosphate



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SERVICES

# Our Core Offerings

## SERVICES

# Strategy



**We are dedicated to delivering innovative, practical, and customised strategic solutions that meet our clients' needs and expectations through the following strategic services.**

Minrom is a leading Africa-based Mineral Resource Management consulting firm with a strategic framework to develop and unlock mineral resources. As experts in the field, we understand the challenges faced by businesses in the exploration and mining sectors, and we are equipped to provide guidance and support to help you make informed decisions.

## What We Do For You



### Project Potential Analysis

We provide advice on the technical and economic potential of mineral projects, based on our extensive experience and knowledge of the industry. We help our clients evaluate the strengths and weaknesses of their projects and identify opportunities to unlock asset value that lies within.



### Project Ranking Matrices

We apply customised project ranking matrices to prioritise project portfolios based on market trends, resource size, operational and capital requirements. We refer to these as our chunky economic models. We use multi-criteria decision analysis techniques to rank projects according to their technical, economic, social, environmental, and geopolitical aspects.



### Prospectivity Reviews

We conduct comprehensive and systematic reviews of the mineral potential of regions, countries, or specific areas, using the latest geoscientific data and methods.



### Exploration Strategies

We design and implement tailor-made exploration strategies aligned with each client's project goals, budget and timeline. We also provide project governance and guidance on exploration planning, execution, management, and reporting.



### Project Valuations

We provide project valuations to help clients determine the fair market value of their mineral projects or transactions. We use internationally accepted valuation standards and methodologies.



### Market and Commodity Reviews

We provide market and commodity reviews for our clients, to help them understand current and emerging trends, as well as the key drivers of the mineral industry. We provide advice on scenarios for future market conditions and opportunities.



### Techno-Economic Due Diligence

We provide techno-economic due diligence services to help our clients evaluate the technical and economic viability of mineral projects or transactions. We conduct thorough and independent reviews of all aspects of the projects or transactions, including geology, resources, reserves, mining methods, processing methods, infrastructure, capital costs, operating costs, revenues, cash flows, sensitivities, risks, opportunities, and valuation.



### Gap Analyses and Risk Assessments

We conduct gap analyses and risk assessments to identify and quantify uncertainties associated with our clients' exploration and projects' development strategies. We provide recommendations on how to mitigate or reduce these risks, enhance the confidence and reliability of their project outcomes and identify the potential of such projects.



### From Preliminary Economic Assessments to Bankable Feasibility Studies

We provide a range of economic studies for our clients' projects, ranging from preliminary economic assessments (PEA) to bankable feasibility studies (BFS). We conduct comprehensive technical and economic analyses of the projects' parameters, assumptions, inputs, outputs, results, and conclusions, and prepare high-quality reports that comply with international reporting codes and standards.



### Strategic Portfolio Assessment

We conduct strategic portfolio assessments to help clients optimise their project portfolio in alignment with their corporate vision and mission. We analyse the performance, value, and potential of their existing projects, as well as opportunities and threats in the external environment. We provide advice on portfolio diversification, rationalisation, expansion, or divestment.



## SERVICES

# Mineral Exploration



**Mineral exploration is a broad term that encompasses all stages of geological exploration for mineral resources. Typically, geological investigations are divided into several sequential stages which involve increasing expenditure and decreasing risk.**

We task ourselves with understanding the complexities of regional and local geology to build sufficient confidence in making accurate predictions about the geology and/or the contained mineralisation.

## What We Do For You



### Exploration Scoping

A proper exploration strategy should dictate all exploration programmes. Developing an exploration strategy and then scoping the different phases of the project can make the difference between project success or failure.



### Geological Desktop Studies

Geological desktop studies are the compilation and analysis of all existing relevant datasets and are generally used to identify target areas for additional exploration. This is an extremely cost-effective risk reduction tool which provides an initial - yet comprehensive - overview of the project's potential.



### Geospatial Analyses & Remote Sensing

Analysing all spatial data allows for patterns and trends to be identified. This aims to identify and refine exploration targets and typically includes spectral image manipulation, satellite imagery interrogation, basin and topographical analysis, regional and structural trend analyses, as well as spatial querying.



### Geological Investigations (Mapping)

Geological mapping is the basis for all geological interpretations and allows for predictions to be made. It includes identifying rock types, contacts, age relations, structural patterns, orientations, mineral assemblages, etc.



### Drilling Management

Exploration and production drilling are used to identify mineralisation. Drilling is the best way to properly understand the subsurface geology. MINROM has extensive experience in planning, managing, and executing drilling programmes, including percussion drilling, reverse circulation (RC), and diamond drilling (core).



### Project Management

Planning, organising, executing, controlling, and monitoring geological projects. Good project management means all the objectives are achieved.



## POTENTIAL LIES WITHIN



### Geochemistry

Chemical principles are applied to deepen the understanding of the geology. Soil sampling and other forms of chemical analyses are used to determine compositional patterns, relationships and correlations. This assists in geological target generation and/or refinement.



### 3D Geological and Geometallurgical Modelling

Geological models and incorporated geometallurgical modelling and characterisation enable us to completely capture the essential characteristics of a deposit including its size, shape, extent, orientation, internal and external deviations, grade properties, and so on. The list of what can be constructed or captured in a 3D geological model is almost endless.



### Competent Person's Reports

This is geological reporting according to international reporting codes such as SAMREC, JORC, NI 43-101. Competent Person's Reports are comprehensive technical documents detailing all geological work performed on a project and are typically used as a requirement for companies listed on the stock exchange.



### Geophysics

Geophysics assists in understanding the subsurface geology. Invasive and non-invasive surveys can be performed. Commonly used techniques are gravity, magnetics, electromagnetic methods (VTEM & SKYTEM), ground penetrating radar (GPR), resistivity, induced polarisation (IP), etc.



### Land Surveying

Spatial survey in which the topography is measured and a DEM and/or DTM of the land surface with contours is produced. Features of note are generally also recorded such as buildings, roads, railway lines, etc.



### Due Diligence Investigations

One of the biggest risks to a project is a lack of understanding of the quality of the geological data and any associated geological risks. Mitigate those risks with an independent geological due diligence investigation.



### Prospecting & Mining Rights

Development, preparation, compilation, and submission of prospecting and mining right applications. MINROM can assist with applications for South Africa as well as all SADC countries.



Geological Mapping (Tanzania)



Exploration Drilling (East Africa)

## SERVICES

# Resource Modelling, GIS & Geometallurgical Modelling



**Analysing spatial data allows for patterns, trends, and models to be constructed. Geological models capture the essential characteristics of a deposit including its size, shape, extent, orientation, internal and external structures, grade properties, and geometallurgical characteristics, ultimately unlocking NPV and project value.**

Geological investigations normally culminate in the construction of a 3D geological model designed to make sense of all the topographical and geological data and interpretations derived from the exploration investigations. A proper geological model forms the basis of a reliable mineral resource.

## What We Do For You



### Geospatial Analysis & Remote Sensing

Analysing all spatial data allows for patterns and trends to be identified. This aims at identifying or refining exploration targets and typically includes spectral image manipulation, satellite imagery interrogation, basin and topographical analysis, regional and structural trend analyses, and spatial querying.



### 3D Geological & Metallurgical Models

Geological models capture the essential characteristics of a deposit including its size, shape, extent, orientation, internal and external deviations, grade properties, and geometallurgical components. What makes a good geological model is a proper understanding the geology, structures, and mineralisation.



### Geostatistical Resource Estimations

Geostats integrate complex numerical datasets (e.g. assay and sample data) to determine the expected grade and tonnages of a deposit. Mineral resources can be classified and reported in a CPR according to international codes such as JORC, NI 43-101 and SAMREC.



### GIS Services

- Georeferencing
- Digitisation/Vectorisation
- Creation of Digital Maps/Plans
- Basin & Topographical Analysis
- Regional & Structural Trend Analyses
- Photogrammetry & Orthomosaic Processing
- Drone Data DEM/DTMs Processing
- Remote Sensing



### 3D Modelling Services

- Wireframing
- Explicit models
- Semi-automated explicit models
- Implicit models



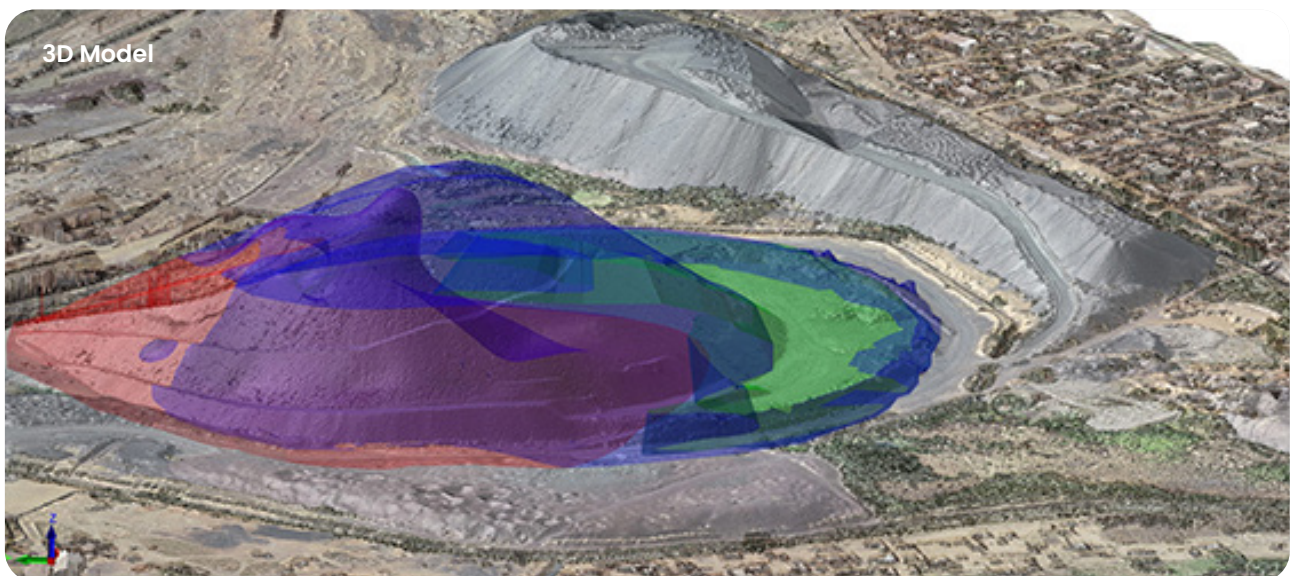
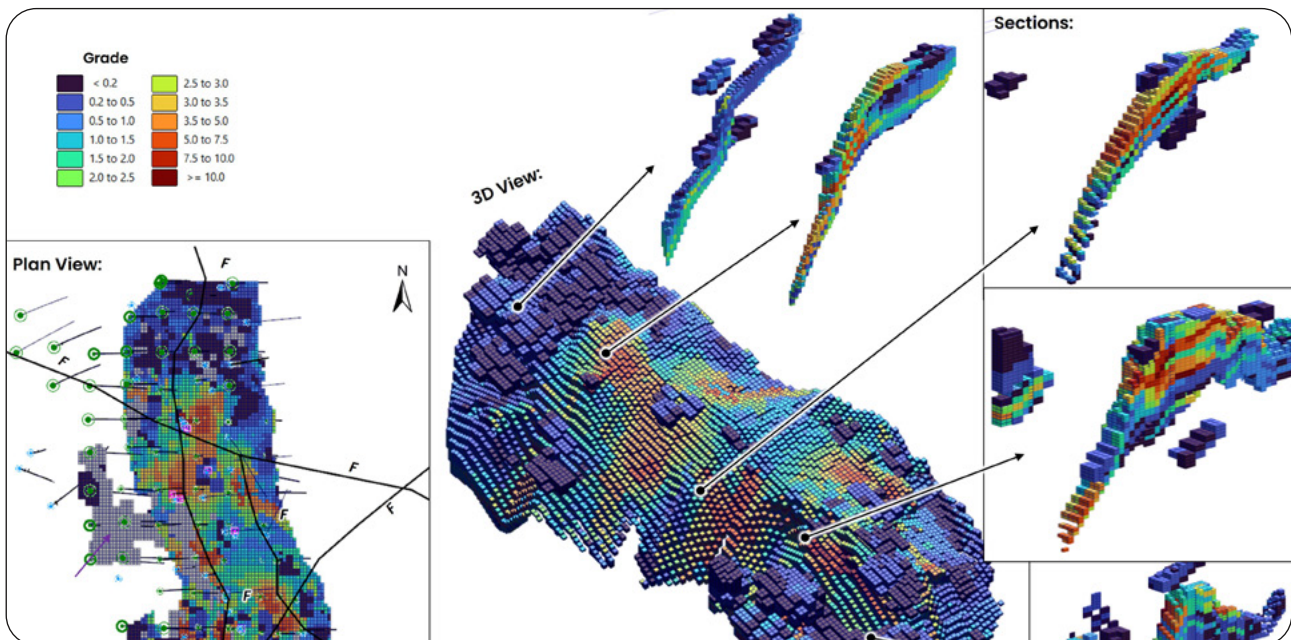
### Resource Services

- Block models
- Grade-tonnage reporting
- Geostatistical analyses
- Resource modelling
- Geometallurgical models
- Mineral resource statements
- Competent Person's Reports



### Mining Services

- Depleting, editing, updating of mining block models
- Resource reconciliations (F1, F2, F3)
- Reserve declaration
- Mine optimisation and design
- Mine planning & scheduling





## SERVICES

# Mining



**Our team of experienced geologists and mining engineers combines technical expertise with a comprehensive understanding of mining operations to deliver customised solutions that optimise resource extraction, ensure geological stability, and maximise profitability.**

The geological development of an identified resource doesn't stop once the initial exploration has been completed. MINROM has experience in all aspects of mine geology, from block modelling and resource estimations to sampling and grade control, and supportive mineral resource management (MRM) functions. MINROM mitigates risks in mining geology and projects through proper planning, development and management of resources. MINROM also performs mine optimisation, planning, and storage facility designs.

## What We Do For You



### Sampling & Grade Control

Misclassification of ore, poor grade information, and errors in estimations can result in millions in lost revenue. The need for representative sampling procedures in open-pit mining is increasingly important. Proper grade control allows for precise mine planning and ensures ore and waste are reported correctly.



### Geological Block Models

3D Geological Block models allow for resource reporting, mine design and pit optimisation, and are the basis for most mining engineering processes.



### Resource Statements

Reporting mineral resources according to SAMREC, JORC, NI 43-101 reporting codes. Fit-for-purpose resource and mineralisation statements and estimations for small-scale miners.



### Stockpile Control

Managing the stockpile and discard dump movement, loading, blending and storage, can be the key to maximising ore sales revenue. Properly managed stockpiles allow for reconciliation and optimisation.



### Mining Works Programme

Development, compilation, and submission of mining works programmes (MWP) in accordance with the requirements of the South African Department of Mineral Resources (DMR).



### Due Diligence Investigations

One of the biggest risks to a project is not understanding the quality of the geological data and any associated geological risks. Mitigate those risks with an independent geological due diligence investigation, the verification of data quality, resource estimation, and risks and provision of technical assurance for mining investments.



### Mine Surveys

Mine surveys, drone surveys (photogrammetry and LiDAR), coordinate system conversions, mine reconciliations and stockpile volumetrics.



### Prospecting & Mining Rights

Development, preparation, compilation, and submission of prospecting and mining rights applications. MINROM can assist with applications for South Africa as well as all SADC countries.

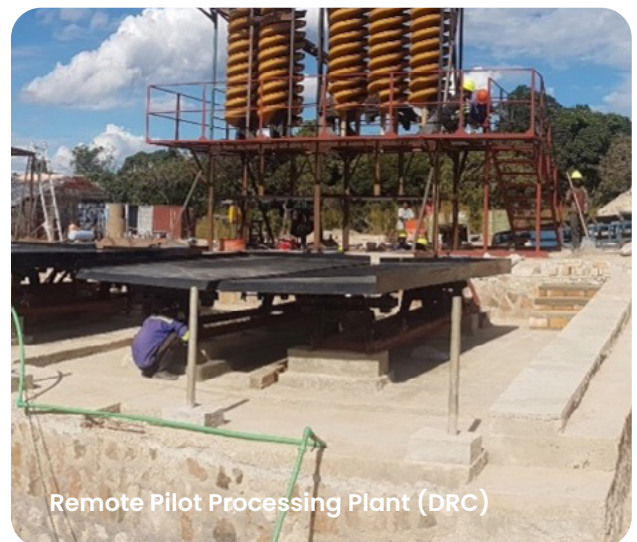
Zinc, Copper and Cobalt Operation (DRC)



Opencast Copper Mining Operation (DRC)



Remote Pilot Processing Plant (DRC)



## SERVICES

# Hydrology Exploration



**Our hydrogeological division combines advanced modelling techniques, data analysis, and field investigations to assess groundwater resources, develop sustainable water management strategies, and mitigate potential environmental impacts.**

We have a strong focus on the intricate dynamics of groundwater systems and provide specialised solutions to address the unique challenges faced by clients in various industries. We specialise in detection, quantification and management of water resources. Our expertise in hydrogeological and aquifer modelling will ensure the long-term successful management of water resource projects. We combine our vast geological knowledge with our experience in hydrogeological processes and investigations, ensuring we can deliver solutions specific to the client's requirements.

## What We Do For You



### Water Borehole Drilling

Drilling to strike water and intercept underground water sources and aquifers.



### Groundwater Exploration

Determining where to drill for water and site drill holes through aquifer mapping, geophysics and structural geology to find locations with the best chance of striking water.



### Groundwater Management

Testing, monitoring and managing the quality of the water, as well as managing the amount of water that can be sustainably extracted.



### Pump Testing

Determining water yield, quality and pumpability. Testing the sustainability of pumping water and the volume that will be obtained.



### Mine Dewatering

Mine dewatering involves comprehensive studies on the sources, flow dynamics, and spatial extent of water within a mining operation, to determine the optimal methods of managing and dewatering the mine for safe and legal mine management.



## Soil and Agriculture

Our hydrogeological division also deals with all geological aspects relating to soil and agriculture. This includes analysing soils and soil profiles, and performing soil sampling and testing. The following services are offered:



### Soil Geochemistry

Soil sampling and soil chemistry testing for environmental investigations and agriculture.



### Agricultural Drone Surveys

Monitoring the health and growth of your crops using drones to survey the agricultural area.



### NDVI Crop Analysis

Drone survey imagery can be processed to provide colour maps of the crops showing the vegetation's health.





# Geology Training



**Our training department empowers professionals with the knowledge and skills needed to excel in the field of geology. We provide comprehensive and practical education, covering various aspects of geology from fundamental concepts to advanced techniques.**

MINROM offers GIS and geological training courses in the mineral exploration and mining geology disciplines. The courses are aligned with industry standards and best practice guidelines. MINROM offers both set curriculum courses held annually, and tailor-made courses to meet clients', companies', or mines' expressed requirements. The standard geological training programmes are aimed at students, graduate geologists, small-scale mining operators (and their supporting geological teams), and prospectors.

## What We Do For You



### Logging & Sampling

This course covers everything to do with logging and the drilling and sampling of core, RC rock chips and percussion chips. This includes recovery, alteration, lithological, mineralisation and geotech (RQD) logging, as well as sampling protocols and extraction techniques.



### Survey Geologists

Participants learn the basic concepts of surveying, from setting up and using the differential survey instrument (Leica, Trimble, Total station) through to plotting, calculating and modelling survey data.



### Drilling for Geologists

This course teaches the fundamental processes that are involved in drilling (types, methods, techniques, operation, etc). Participants will also learn how to effectively identify how to plan drillholes and manage all aspects of a drilling project.



### Geological Databases: Set-up & Management

This course focuses on collecting, evaluating, standardising, validating, storing and securing geological and spatial data. Your geological data is your asset: learn how to use and protect it.



### Geostatistical Mineral Evaluation

This course covers a range of practical and technical skills in mineral estimation. It covers the basics of geospatial statistics (geostats) and goes into detailed geospatial analyses, data processing, variography and estimations. Statistical skills are not a prerequisite.



### 3D Geological Modelling

This course will train participants in the fundamentals of geological modelling, focusing on techniques, methods, best practice principles and quality of the geological model. Micromine™ is used as the primary software, however, the pros and cons of other software packages are also discussed.



### GIS & Remote Sensing

The course exposes learners to using real-life generated field data to create geological maps, sections, grids and various vector and raster data outputs. Attendees will also learn how to obtain, manipulate and process imagery (satellite and spectral). Open-source software will be used (QGIS).



### Geological Fieldwork

This outdoor course applies book knowledge to practical geological problem solving in the field. Participants will learn how to use geological equipment, collect field data, measure geological features, extract required information from rocks and how all this information can be used and applied.



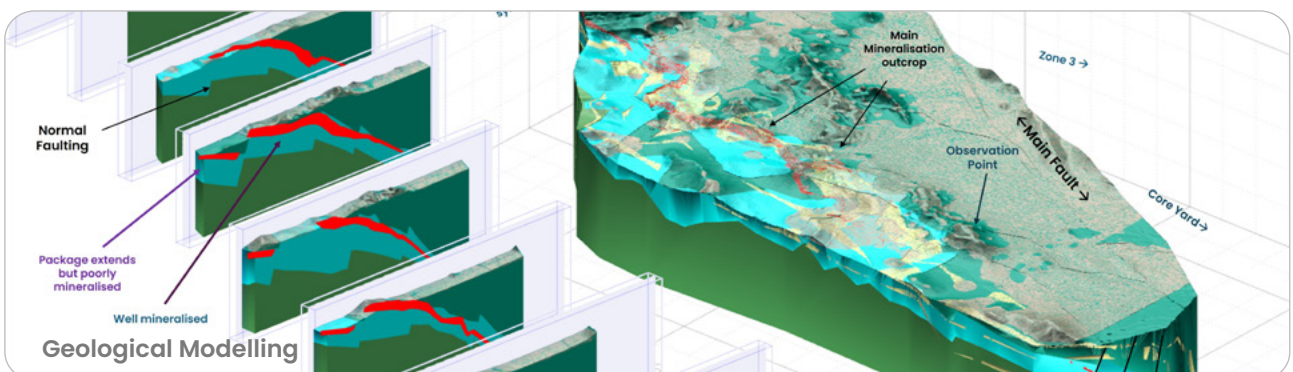
Sampling and Surveying



Sampling and Surveying



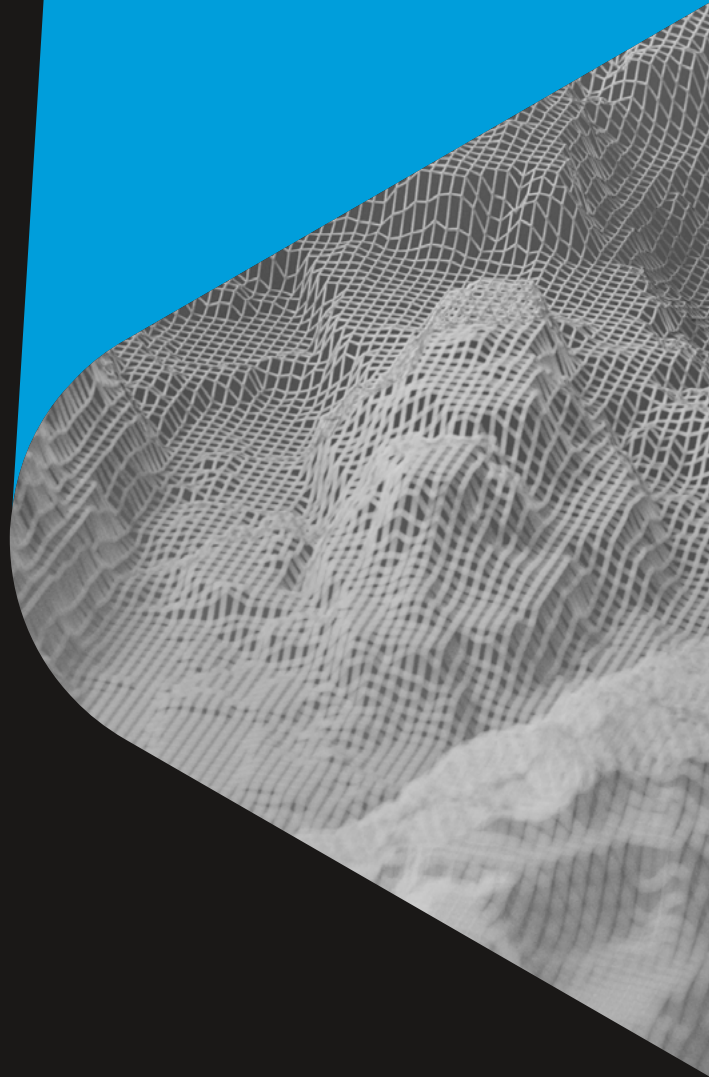
Geological Core Logging



Geological Modelling



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OUR TEAM

# Intellectual Resources



## THE MINROM APPROACH

**In the past decade, we have developed and refined key aspects of what makes our services so competitive, unique and in demand – this is what we like to refer to as the ‘MINROM approach’, which combines our company’s ethics, qualities and philosophy with a tried-and-tested method.**

At MINROM, we pride ourselves on being agile, flexible, self-sufficient and independent. We are committed to having a strong and reliable in-house capacity. We also work closely with geophysical, geostatistical and metallurgical experts in order to maximise our contribution to your project’s value.

MINROM favours the phased approach to exploration programmes to maximise shareholders. Here at MINROM, we adhere to best practices in safety and environmental management. We operate in accordance with the guidelines and procedures of the South African Council for Natural Scientific Professions (SACNASP), and are committed to safe and ethical operations, with open and transparent reporting.



## From the CEO



**Oscar van Antwerpen**  
CEO & Mineral Resource Manager

Oscar van Antwerpen is the founder and CEO of MINROM. He is qualified in mineral resource management (MRM) and has more than 32 years of extensive experience. He performed fundamental mineral resource management and continuous improvement functions with Gold Fields South Africa and BHP Billiton. He is also a registered Professional Natural Scientist (Pr.Sci.Nat.) with SACNASP, a member of the Geological Society of South Africa, a trained Six Sigma practitioner, and is registered as a Competent Person to declare manganese, iron and graphite resources.

Oscar is a skilled mineral resources manager, with a wealth of experience gained from his employment in numerous mines in South Africa. He is deeply passionate about training and empowering young individuals. This has led Oscar to develop the training division of MINROM, where he is an integral part of transferring decades of accrued knowledge and experience in the mining industry.

MINROM has a remarkable, energetic and qualified team of specialists in the mineral resources industry.

At MINROM, youthful energy and enthusiasm unite with age and experience. Combining tried-and-tested methods with innovative ideas and technologies enables MINROM to achieve the highest levels of proficiency.

## General Manager



**Graham Duncan**  
General Manager

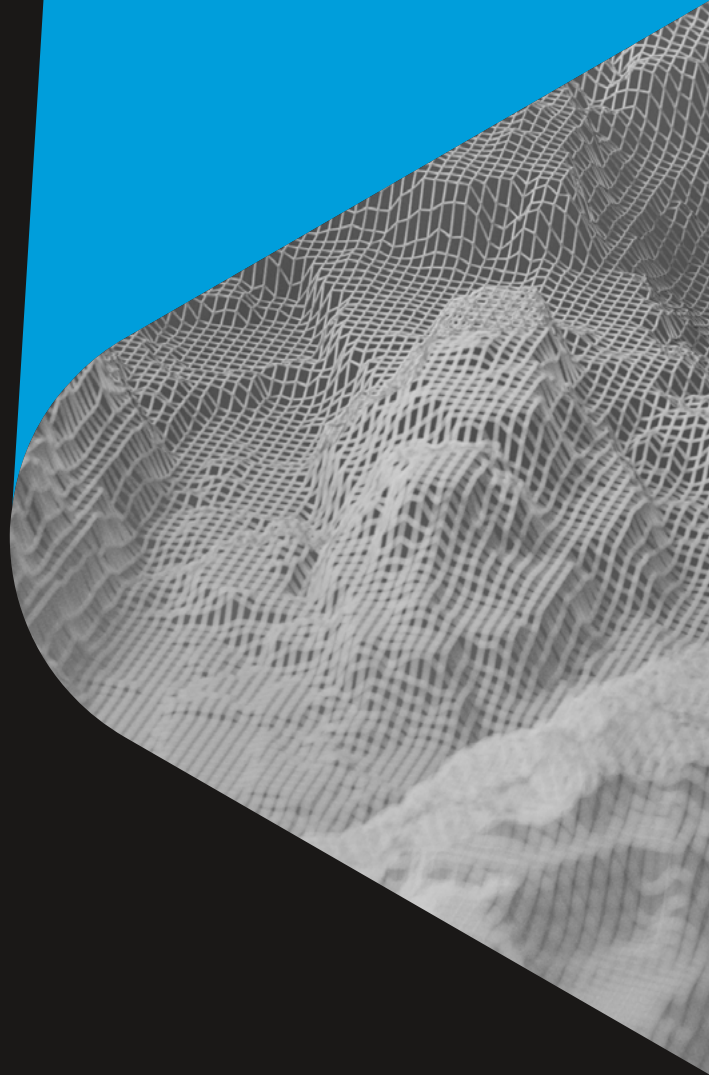
**Our company has put together a group of highly qualified geologists who are authorities in the industry.**

### Graham Duncan

Graham Duncan is the general manager at MINROM and is an experienced resource geologist with a demonstrated history of working in the mining & metals industry. With a solid grounding in exploration throughout Africa and the Middle East, Graham is a skilled mineral resource estimator, 3D geological modeller, and Competent Person (JORC). Graham has a BSc Honours (cum laude) in Geology from the University of Johannesburg and has completed numerous courses and postgraduate degrees. He is a registered Professional Natural Scientist (Pr.Sci.Nat.) with SACNASP as well as a member of the GSSA and the SAIMM.



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EXPERIENCE

# Recent Projects



## Recent Projects

| Year | Commodity | Country           | Region | Project Type                                                 |
|------|-----------|-------------------|--------|--------------------------------------------------------------|
| 2025 | Cu        | South Africa      | -      | Phosphate Positioning Study                                  |
| 2025 | Au        | Republic of Congo | -      | Scoping Study                                                |
| 2025 | -         | South Africa      | -      | Desktop Study                                                |
| 2025 | -         | South Africa      | -      | Literature Review for Prospecting Rights in Namaqua District |
| 2025 | Cr        | Uganda            | -      | Scoping Study, Site Visit & Reporting                        |
| 2025 | Au        | South Africa      | -      | Literature Review, Site Visit and Report                     |
| 2025 | Mn        | DRC               | -      | Scoping & Development of a Drilling Plan                     |
| 2024 | -         | RSA               | -      | Mine Plan & Rehabilitation Plan                              |
| 2024 | REE       | Namibia           | -      | PSF Team Site Meeting                                        |
| 2024 | -         | South Africa      | -      | Remote Sensing                                               |
| 2024 | -         | Angola            | -      | License Ranking                                              |
| 2024 | -         | Namibia           | -      | Surface Mapping                                              |
| 2024 | -         | Zimbabwe          | -      | Mineral Resource Comparison Review                           |
| 2024 | -         | Zimbabwe          | -      | Mineral Resource Comparison Review                           |
| 2024 | -         | RSA               | -      | License Ranking                                              |
| 2024 | -         | South Africa      | -      | TSF MRE Fatal Flaw Analysis                                  |
| 2024 | -         | Namibia           | -      | MR Presentation                                              |
| 2024 | -         | South Africa      | -      | High Level Review                                            |
| 2024 | -         | South Africa      | -      | Technical Geological Review                                  |
| 2024 | -         | South Africa      | -      | Desktop Study                                                |
| 2024 | -         | South Africa      | -      | Desktop Study                                                |
| 2024 | -         | South Africa      | -      | Mining Permit Renewal                                        |
| 2024 | -         | South African     | -      | Literature Review, Site Visit and Exploration Scoping        |
| 2024 | -         | DRC               | -      | Micromine Training - French                                  |
| 2024 | -         | Namibia           | -      | Site Verification and Model Updates                          |
| 2024 | Coal      | Swaziland         | -      | Site Visit                                                   |
| 2024 | -         | South Africa      | -      | -                                                            |
| 2024 | -         | Namibia           | -      | Literature Review & Remote Sensing Study                     |
| 2024 | Li, Sn    | Namibia           | -      | Consultation Meeting                                         |
| 2024 | -         | Eswatini          | -      | Data Digitisation and Geological Model                       |
| 2024 | -         | South Africa      | -      | Positioning Study                                            |
| 2024 | -         | South Africa      | -      | Remote Sensing                                               |
| 2024 | -         | Namibia           | -      | Progress Report Update                                       |
| 2024 | -         | South Africa      | -      | Desktop Study                                                |
| 2024 | -         | Namibia           | -      | Audit Queries                                                |
| 2024 | -         | Saudi Arabia      | -      | MRE Scoping Site Visit                                       |
| 2024 | -         | South Africa      | -      | Desktop Building Sand Analysis                               |
| 2024 | -         | South Africa      | -      | Project Prospectivity & Positioning Assessment               |
| 2024 | -         | South Africa      | -      | Project Positioning Study                                    |
| 2024 | Aggregate | Saudi Arabia      | -      | Manage Resource Upgrade, MRE & JORC CPR                      |
| 2024 | -         | South Africa      | -      | Independent Geological Report                                |



## POTENTIAL LIES WITHIN

| Year      | Commodity     | Country      | Region              | Project Type                                                            |
|-----------|---------------|--------------|---------------------|-------------------------------------------------------------------------|
| 2024      | Au            | Brazzaville  | -                   | Mineral Resource Site Visit & Data Validation                           |
| 2024      | Au            | South Africa | -                   | Council for Geoscience: Drill Hole Data Retrieval                       |
| 2024      | Fe            | South Africa | -                   | PPS                                                                     |
| 2024      | -             | Namibia      | -                   | Surface Mapping                                                         |
| 2024      | Cu            | Saudi Arabia | -                   | Met Model, Domaining, Second Phase Sample Selection                     |
| 2024      | Cr            | South Africa | -                   | Life of Mine Investigation (Phase 2)                                    |
| 2024      | Graphite      | South Africa | -                   | Chrome Prospectivity Assessment & Exploration Strategy                  |
| 2024      | Graphite      | South Africa | -                   | Volumetric Estimate                                                     |
| 2024      | Zn, Cu, Au    | South Africa | -                   | Magnesite Positioning Study                                             |
| 2024      | Mg            | South Africa | -                   | Conceptual Resource Model, Exploration Strategy & Governance Parameters |
| 2024      | P             | Angola       | -                   | Site Visit and Scoping Study                                            |
| 2024      | Cr            | South Africa | -                   | Review & Commentary: Haakdoorndrift Drilling Report                     |
| 2024      | -             | Saudi        | -                   | Phase 4 Mineral Resource Updates                                        |
| 2024      | -             | DRC          | -                   | Remote Sensing, Target Generation & Drill Programme Scoping             |
| 2024      | -             | DRC          | -                   | Onsite Exploration Management & Data Collection                         |
| 2023      | Li            | South Africa |                     | GIS Study, Literature Review                                            |
| 2023      | Li            | Namibia      | Regional            | Geological Report, GIS Study & Literature Review                        |
| 2023      | Diamonds      | Namibia      | Malanje             | GIS Study & Literature Review                                           |
| 2023      | Li            | Angola       | -                   | GIS Study & Literature Review                                           |
| 2023      | Ni            | Namibia      | -                   | Geological Report                                                       |
| 2023      | Li, Ta        | DRC          | -                   | Mapping & Site Visit                                                    |
| 2023      | Fe            | Namibia      | Erongo              | -                                                                       |
| 2023      | Zn, Li        | Namibia      | Erongo              | Site Visit, GIS Study & Literature Review                               |
| 2023      | Au            | Namibia      | Regional            | Site Visit, Data Integrity                                              |
| 2022-2023 | Au            | Zimbabwe     | Regional            | Site Visit, Data Integrity                                              |
| 2022-2023 | Au            | Zimbabwe     | Regional            | Site Visit, Data Integrity                                              |
| 2022-2023 | Li, Sn, Ta, W | Zimbabwe     | Regional            | GIS Study, Literature Review                                            |
| 2023      | Li            | DRC          | -                   | GIS Study, Literature Review                                            |
| 2023      | Fe            | Namibia      | Khomas              | Geological Report,                                                      |
| 2023      | Mn            | Namibia      | Omaheke             | Mapping, Site Visit, GIS Study                                          |
| 2023      | Li            | Namibia      | Erongo              | Mapping, Site Visit, Geological Report, GIS Study                       |
| 2023      | Diamonds      | Angola       | -                   | Geological Report, GIS Study                                            |
| 2023      | Water         | Oman         | Regional            | Hydro Study                                                             |
| 2023      | Multi         | DRC          | Katanga             | Desktop Study & Remote Sensing Analysis                                 |
| 2023      | Li            | Zimbabwe     | Mashonaland Central | Due Diligence                                                           |
| 2023      | Limestone     | South Africa | Limpopo             | Exploration & Mineralisation Estimation                                 |
| 2023      | Graphite      | Uganda       | Kitgum              | Exploration                                                             |
| 2023      | Li            | Namibia      | Erongo              | Desktop Study                                                           |
| 2023      | Li            | Namibia      | Erongo              | Desktop Study                                                           |
| 2023      | Li            | Namibia      | Erongo              | Site Visit & Scoping Study                                              |
| 2023      | Fe            | Namibia      | Khomas              | Geophysical Survey                                                      |
| 2023      | Multi         | Angola       | North-East          | Desktop Study & Remote Sensing Analysis                                 |
| 2023      | Fe            | South Africa | Limpopo             | Advisory Services                                                       |
| 2023      | Multi         | Namibia      | Regional            | Desktop Study                                                           |
| 2023      | Mn            | Namibia      | Omaheke             | Techno-Economic Assessment                                              |



## POTENTIAL LIES WITHIN

| Year      | Commodity           | Country            | Region                                | Project Type                                        |
|-----------|---------------------|--------------------|---------------------------------------|-----------------------------------------------------|
| 2023      | Li                  | Namibia            | Erongo                                | Desktop Study                                       |
| 2023      | Cu, Co              | DRC                | Katanga                               | Conceptual Study                                    |
| 2023      | Fe                  | South Africa       | Limpopo                               | Exploration                                         |
| 2023      | Ni, Cr              | DRC                | Kasai Central                         | 3D Geological Model and Mineralisation Estimation   |
| 2022      | Mn                  | South Africa       | Western Cape                          | Drilling & Mineralisation Estimation                |
| 2023      | Li                  | Namibia            | Erongo                                | Site Visit & Scoping Study                          |
| 2023      | Li                  | Namibia            | Erongo                                | Site Visit & Scoping Study                          |
| 2023      | Mn                  | Namibia            | Omaheke                               | Site Visit & Scoping Study                          |
| 2023      | Agriculture         | South Africa       | Western Cape                          | GIS Services                                        |
| 2023      | Li                  | Namibia            | Erongo                                | Site Visit & Scoping Study                          |
| 2023      | Graphite            | Uganda             | Kitgum                                | Advisory Services                                   |
| 2023      | Diamonds            | Angola             | Regional                              | GIS Services                                        |
| 2023      | Water & Wind        | Oman               | Regional                              | Hydrological & Wind Study                           |
| 2022-2023 | Fe                  | Eswatini           | Hhohho                                | Mapping, Drilling & Resource Estimation             |
| 2022-2023 | Graphite, Li & Ni   | Sub-Saharan Africa | Sub-Saharan Africa                    | Advisory Services                                   |
| 2021-2023 | Cu, Co              | DRC                | Katanga                               | Drilling & Resource Estimation, Metallurgical Study |
| 2021-2023 | Co, Cu, Ge, Ni      | DRC                | Katanga                               | MRM Services                                        |
| 2022      | PGE's               | South Africa       | North West, Limpopo & Mpumalanga      | Due Diligence & Site Visit                          |
| 2022      | Fe                  | South Africa       | Northern Cape                         | Geophysics & Drilling                               |
| 2022      | Cu, Co              | DRC                | Lualaba                               | Advisory Services                                   |
| 2022      | Au                  | DRC                | Kakesa                                | Site Visit & Scoping Study                          |
| 2022      | Fe                  | RSA                | Northern Cape                         | Exploration                                         |
| 2022      | Sillimanite         | South Africa       | Northern Cape                         | Mapping                                             |
| 2022      | Aggregate           | RSA                | Eastern Cape                          | Licence Application                                 |
| 2022      | Graphite            | Uganda             | Kitgum                                | Metallurgical Study & Block Model                   |
| 2022      | Au                  | South Africa       | KwaZulu Natal                         | Licence Application                                 |
| 2022      | Au                  | South Africa       | North West                            | Advisory Services                                   |
| 2022      | Diamonds            | South Africa       | Northern Cape                         | Exploration                                         |
| 2022      | Au, Fe              | Angola             | Regional                              | Site Visit & Scoping Study                          |
| 2022      | Aggregate           | South Africa       | Western Cape                          | Due Diligence                                       |
| 2022      | Aggregate           | South Africa       | Eastern Cape                          | Site Visit & Optimization Study                     |
| 2022      | Training            | Senegal            | -                                     | Geological Modelling & Estimation Training          |
| 2022      | Limestone           | South Africa       | North West                            | Exploration & Mineralisation Estimation             |
| 2022      | Training            | DRC                | -                                     | Geological Modelling & Estimation Training          |
| 2022      | Fluorspar           | South Africa       | Gauteng                               | Geometallurgical Model                              |
| 2022      | Heavy Mineral Sands | South Africa       | Eastern Cape                          | Due Diligence                                       |
| 2022      | Li                  | Zimbabwe           | Matabeleland South & Mashonaland East | Due Diligence & Site Visit                          |
| 2022      | Graphite            | Tanzania           | South-East                            | Due Diligence                                       |
| 2022      | Graphite            | Tanzania           | South-East                            | Due Diligence                                       |
| 2022      | PGE's & Cr          | Zimbabwe           | Midlands                              | Due Diligence                                       |
| 2022      | Au                  | Zimbabwe           | Midlands                              | Site Visit & Advisory Services                      |
| 2022      | Graphite            | Tanzania           | South-East                            | Due Diligence                                       |
| 2022      | Training            | South Africa       | -                                     | Geology Training                                    |
| 2022      | Au                  | Zimbabwe           | Midlands                              | 3D Geological Model & Mineralisation Estimation     |
| 2022      | Sand                | South Africa       | Western Cape                          | Licence Application                                 |



## POTENTIAL LIES WITHIN

| Year      | Commodity        | Country           | Region               | Project Type                               |
|-----------|------------------|-------------------|----------------------|--------------------------------------------|
| 2022      | Au               | Zimbabwe          | Midlands             | Techno-Economic Due Diligence              |
| 2022      | PGE's, Cr        | South Africa      | Limpopo              | Desktop Study                              |
| 2022      | Mn               | South Africa      | Northern Cape        | Geological Model & Resource Estimation     |
| 2022      | Au               | Mozambique        | Changara             | Desktop Study & Site Visit                 |
| 2022      | Mn               | South Africa      | Western Cape         | Desktop Study & Site Visit                 |
| 2022      | Limestone        | South Africa      | Western Cape         | Desktop Study                              |
| 2022      | Cu, Co           | DRC               | Katanga              | Due Diligence & Site Visit                 |
| 2022      | Fe               | India             | Karnataka            | Resource Review                            |
| 2022      | Mn, Fe           | Namibia           | Otjozondjupa         | Drilling & Resource Estimation             |
| 2021-2022 | Au               | Equatorial Guinea | Centro Sur/Wele-Nzas | Regional Exploration, MRM On-Site Services |
| 2021-2022 | Mn & Fe          | South Africa      | Northern Cape        | Drilling & Resource Estimation             |
| 2021      | Fe               | Namibia           | Dordabis             | On-site geological services                |
| 2021      | Mn               | South Africa      | Northern Cape        | Due Diligence                              |
| 2021      | Mn, Fe           | South Africa      | Northern Cape        | Drilling                                   |
| 2021      | Mn, Fe           | South Africa      | Northern Cape        | Mapping, Sampling and Range Analysis       |
| 2021      | Mn               | South Africa      | Northern Cape        | Exploration                                |
| 2021      | Feldspar         | South Africa      | Limpopo              | Resource Depletion                         |
| 2021      | Mn, Fe           | Namibia           | Otjozondjupa         | Drilling & Resource Estimation             |
| 2021      | Fe, Mn           | South Africa      | Northern Cape        | Desktop Study                              |
| 2021      | Sn, Ta, Nb       | DRC               | North Kivu           | Exploration                                |
| 2021      | Cu, Co           | DRC               | Haut Katanga         | Due Diligence & JORC CPR                   |
| 2021      | Fe               | South Africa      | Northern Cape        | Exploration                                |
| 2021      | Diamonds, Au, Ni | DRC               | Kasai Central        | Exploration                                |
| 2021      | Fe               | Namibia           | Khomas               | Resource Update                            |
| 2021      | Graphite         | Uganda            | Kitgum               | CPR                                        |
| 2021      | Si               | Saudi Arabia      | Riyadh               | Pre-Feasibility Study                      |
| 2020      | Fe               | Namibia           | Khomas               | Feasibility Study                          |
| 2020      | Fe               | South Africa      | Northern Cape        | Due Diligence                              |
| 2020      | REE, Verm.       | South Africa      | Limpopo              | Drilling & Mineralisation Estimation       |
| 2020      | REE, Verm.       | South Africa      | Limpopo              | Due Diligence & Site Visit                 |
| 2020      | Fe               | Namibia           | Khomas               | Drilling & Resource Estimation             |
| 2020      | Cu               | South Africa      | Northern Cape        | Due Diligence                              |
| 2020      | Fe               | South Africa      | Northern Cape        | Geological Reconnaissance                  |
| 2020      | Fe               | South Africa      | Northern Cape        | Due Diligence                              |
| 2020      | Mn               | South Africa      | Northern Cape        | 3D Geological Model & Resource Estimation  |
| 2020      | Ge, Ga, Ag       | DRC               | Katanga              | 3D Geological Model & Resource Estimation  |
| 2020      | Cu, Co           | DRC               | Katanga              | Drilling & Resource Estimation             |
| 2020      | Si               | Saudi Arabia      | Riyadh               | Exploration, CPR                           |
| 2020      | Fe               | Namibia           | Dordabis             | Exploration, CPR, JORC, BFS                |
| 2019-2020 | Fe, Mn           | South Africa      | Northern Cape        | On-site MRM Services, CPR, JORC            |
| 2019      | Fe               | South Africa      | Limpopo              | Drilling & Resource Estimation             |
| 2019      | Au               | Ghana             | Bole                 | Desktop Study                              |
| 2019      | Fe, Mn           | South Africa      | Northern Cape        | MRM On-site Services                       |
| 2019      | Graphite         | Uganda            | Kitgum               | CPR                                        |
| 2019      | Cu, Co           | Zambia            | Ndola                | Report                                     |



## POTENTIAL LIES WITHIN

| Year      | Commodity     | Country      | Region            | Project Type                                  |
|-----------|---------------|--------------|-------------------|-----------------------------------------------|
| 2019      | Au            | Ghana        | -                 | DD, Review, Report                            |
| 2019      | Fe, Mn        | South Africa | Northern Cape     | Exploration, CPR                              |
| 2019      | Cr            | South Africa | North West        | MWP                                           |
| 2019      | Mn, Fe        | South Africa | Northern Cape     | Exploration                                   |
| 2019      | Fe            | South Africa | Northern Cape     | Exploration                                   |
| 2019      | Coal          | South Africa | KZN               | Exploration, CPR                              |
| 2019      | Lime          | South Africa | North West        | CPR                                           |
| 2019      | Cu, Co        | DRC          | Katanga           | Exploration, CPR                              |
| 2019      | Cu, Co        | DRC          | Katanga           | Exploration                                   |
| 2019      | Lime, Fe      | South Africa | Limpopo           | Exploration                                   |
| 2019      | Sn            | Zambia       | Southern Province | Exploration                                   |
| 2019      | Cr, PGE       | South Africa | Limpopo           | Review                                        |
| 2019      | Fe            | South Africa | Limpopo           | Exploration, CPR, JORC, Mining Work Programme |
| 2019      | Al            | South Africa | Limpopo           | DD, JORC                                      |
| 2019      | Au            | DRC          | Tanganyika        | DD, CPR                                       |
| 2019      | Cu, Co        | DRC          | Kamina            | DD, CPR                                       |
| 2019      | Graphite      | Uganda       | Kitgum            | Exploration, CPR, JORC, ASX, LSE              |
| 2019      | Feldspar      | South Africa | Limpopo           | Review                                        |
| 2019      | Diamonds      | South Africa | North West        | Exploration                                   |
| 2019      | Water         | South Africa | Western Cape      | Report                                        |
| 2019      | Si            | Saudi Arabia | Riyadh            | Mapping, Report, Range analysis               |
| 2019      | Mn, Fe        | South Africa | Northern Cape     | Exploration, Report                           |
| 2019      | Cu            | Namibia      | Erongo            | DD                                            |
| 2019      | Cr            | South Africa | North West        | Report                                        |
| 2019      | Water         | South Africa | Western Cape      | Report                                        |
| 2019      | Cu            | DRC          | Kasai             | DD                                            |
| 2019      | Cr            | South Africa | Limpopo           | Report                                        |
| 2019      | V             | South Africa | Limpopo           | Exploration, CPR                              |
| 2018-2019 | Graphite, Au  | Mozambique   | Cabo de Delgado   | Mapping, Geophysics, Soil Sampling, CPR       |
| 2018-2019 | Cu            | South Africa | Northern Cape     | Mapping, CPR, NI43-101                        |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Li, Sn, Ta, W | Namibia      | Erongo            | CPR, JORC - ASV, NSX                          |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Coal          | South Africa | North West        | Study                                         |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR, JORC                                     |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2018-2019 | Cu            | South Africa | Northern Cape     | CPR                                           |
| 2017-2019 | Fe            | Namibia      | Erongo            | Exploration, CPR, JORC                        |
| 2017-2019 | Sn, Ta, W     | DRC          | Mitwaba           | Mapping, CPR                                  |
| 2018      | Co, Au        | Uganda       | Eastern Uganda    | Exploration, CPR                              |



## POTENTIAL LIES WITHIN

| Year      | Commodity         | Country      | Region          | Project Type                  |
|-----------|-------------------|--------------|-----------------|-------------------------------|
| 2018      | Cu, Ag, Au        | South Africa | Northern Cape   | DD                            |
| 2018      | Sn                | DRC          | South Kivu      | MRM System Review             |
| 2018      | Au                | South Africa | Magaliesberg    | DD                            |
| 2018      | Cu, Co            | DRC          | Kolwezi         | DD, CPR, JORC                 |
| 2018      | Cu, Co            | DRC          | Katanga         | Report                        |
| 2018      | Sn                | Namibia      | Kunene          | DD, CPR, JORC                 |
| 2018      | Sn                | Namibia      | Khorixas        | MWP                           |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC                 |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC                 |
| 2018      | Cu, Co            | DRC          | Katanga         | Exploration, CPR              |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC                 |
| 2018      | Cu, Co            | DRC          | Katanga         | DD                            |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC                 |
| 2018      | Cu, Co            | DRC          | Katanga         | Exploration                   |
| 2018      | Cu, Co            | DRC          | Katanga         | Exploration, CPR, JORC        |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC                 |
| 2018      | REE               | Malawi       | -               | Review                        |
| 2018      | P                 | Chile        | Antofagasta     | DD, NI43-101                  |
| 2018      | Co, Cu            | DRC          | Katanga         | DD, Exploration, JORC, ASX    |
| 2018      | Cu, Co            | Zambia       | Central Project | Exploration, CPR              |
| 2018      | Cu, Co            | DRC          | Kamina          | DD                            |
| 2018      | REE               | Namibia      | -               | Review                        |
| 2018      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC, ASX            |
| 2018      | Li                | South Africa | Northern Cape   | DD                            |
| 2018      | Water             | South Africa | Western Cape    | Hydrogeological Drilling      |
| 2018      | Cu, Co            | DRC          | Katanga         | DD                            |
| 2018      | REE               | South Africa | -               | Review                        |
| 2018      | REE               | Tanzania     | -               | Review                        |
| 2018      | Ta, Sn            | Namibia      | Erongo          | Exploration, DD, CPR          |
| 2018      | Gemstones         | South Africa | Ekurhuleni      | review                        |
| 2018      | Sn, Ta, W, Co, Au | Uganda       | -               | DD, CPR, JORC, ASX            |
| 2018      | Water             | South Africa | Free State      | Geohydrological Investigation |
| 2018      | Cr                | Zimbabwe     | Mhondorongezi   | DD, CPR                       |
| 2018      | Water             | Tanzania     | Lindi District  | Geohydrological Investigation |
| 2018      | Cu, Au            | DRC          | South Kivu      | DD                            |
| 2018      | REE               | Zimbabwe     | -               | Review                        |
| 2017-2018 | Fe, Mn            | South Africa | Northern Cape   | CPR                           |
| 2016-2018 | Cu, Co            | DRC          | Katanga         | Exploration, CPR, JORC        |
| 2017      | REE               | South Africa | Northern Cape   | Review                        |
| 2017      | Cr                | South Africa | North West      | Review                        |
| 2017      | Cr                | South Africa | North West      | Exploration                   |
| 2017      | Cu, Co            | DRC          | Katanga         | DD, CPR, JORC, ASX            |
| 2017      | REE               | Namibia      | Erongo          | DD                            |
| 2017      | REE               | South Africa | Northern Cape   | PWP                           |



## POTENTIAL LIES WITHIN

| Year      | Commodity       | Country      | Region                 | Project Type                                          |
|-----------|-----------------|--------------|------------------------|-------------------------------------------------------|
| 2017      | REE             | South Africa | North West             | PWP                                                   |
| 2017      | Cu, Co          | DRC          | Katanga                | DD, CPR                                               |
| 2017      | Cu-Co           | DRC          | Haut-Katanga           | DD, CPR, JORC, ASX                                    |
| 2017      | REE             | South Africa | Northern Cape          | PWP                                                   |
| 2017      | Cu, Co          | Uganda       | Eastern Uganda         | DD                                                    |
| 2017      | REE             | South Africa | North West             | PWP                                                   |
| 2017      | Cu, Co          | DRC          | Katanga                | DD, CPR                                               |
| 2017      | Co              | DRC          | Haut-Katanga           | DD, CPR, JORC, ASX                                    |
| 2017      | Cu, Co          | DRC          | Katanga                | DD, CPR, JORC, ASX                                    |
| 2017      | REE             | South Africa | Northern Cape          | PWP                                                   |
| 2017      | REE             | South Africa | Northern Cape          | PWP                                                   |
| 2017      | REE             | South Africa | Northern Cape          | PWP                                                   |
| 2017      | REE             | South Africa | Northern Cape          | PWP                                                   |
| 2016-2017 | Sn, Ta, W, Nb   | DRC          | Mitwaba                | CPR                                                   |
| 2014-2017 | Graphite        | South Africa | Limpopo                | Exploration, CPR                                      |
| 2016      | Au              | Uganda       | Namayingo              | DD, CPR                                               |
| 2016      | Li, Sn, Ta, W   | Zimbabwe     | Masvingo               | DD, CPR                                               |
| 2016      | Diamonds        | Namibia      | Hardap                 | DD                                                    |
| 2016      | Sn, Ta, W, Li   | Namibia      | Erongo                 | Exploration, CPR                                      |
| 2016      | Li              | Uganda       | Mitoma                 | DD                                                    |
| 2016      | Au              | Senegal      | Kédougou               | DD                                                    |
| 2016      | Au, Pd, Pt      | Cyprus       | Troulli area           | DD                                                    |
| 2016      | Ta, Sn, Li      | DRC          | Tanganika District     | DD                                                    |
| 2016      | Au              | Zambia       | Ndola                  | DD                                                    |
| 2016      | Au, Gemstones   | Mozambique   | Gilé Region            | Exploration, CPR, JORC                                |
| 2016      | Li, Ta          | Uganda       | Mitoma                 | DD                                                    |
| 2016      | Mn              | Namibia      | Erongo                 | Exploration, CPR, JORC                                |
| 2016      | Cu, Co          | DRC          | Katanga                | DD, CPR, JORC                                         |
| 2016      | Li, Ta, Sn, REE | Uganda       | Mitoma                 | DD                                                    |
| 2015      | Au, Cu          | Namibia      | Erongo                 | Exploration, CPR, JORC                                |
| 2015      | Ag, Au, U       | Namibia      | Erongo                 | DD                                                    |
| 2015      | Mn              | Kenya        | Vijiweni               | DD                                                    |
| 2015      | Fe, Mn          | South Africa | Northern Cape          | Exploration, CPR, MRM services                        |
| 2015      | Li, Ta          | Zimbabwe     | Mashonaland            | DD, CPR                                               |
| 2015      | Diamonds        | Botswana     | Orapa                  | Exploration, JORC, CPR                                |
| 2015      | Li, Ta          | Zimbabwe     | Mashonaland            | DD                                                    |
| 2015      | Fe, Mn          | South Africa | Northern Cape          | Exploration, CPR, JORC                                |
| 2015      | Cu, Au          | Zambia       | North-Western Province | Exploration, CPR, JORC                                |
| 2015      | Fe, Mn          | South Africa | Northern Cape          | DD, CPR, JORC, MRM services                           |
| 2015      | Fe, Mn          | South Africa | Northern Cape          | DD, CPR, JORC, On-site MRM Services, Mine Development |



## POTENTIAL LIES WITHIN

| Year      | Commodity       | Country      | Region         | Project Type                |
|-----------|-----------------|--------------|----------------|-----------------------------|
| 2015      | Li, Ta          | Zimbabwe     | Mashonaland    | Exploration, CPR, JORC      |
| 2015      | Au, Ag, Cu      | Namibia      | Erongo         | Exploration, CPR, JORC      |
| 2015      | Diamonds        | Mozambique   | Chicualacuala  | Exploration                 |
| 2015      | Diamonds        | Mozambique   | Gaza           | DD                          |
| 2015      | Ti, Fe, V       | Zambia       | Petauke        | Exploration                 |
| 2015      | Gemstones       | South Africa | Northern Cape  | DD                          |
| 2015      | Au              | Zambia       | Ndola          | DD, CPR                     |
| 2014      | Sn, Graphite, F | Namibia      | Bathanien      | DD                          |
| 2014      | Fe              | USA          | Navada, LV     | CPR                         |
| 2014      | Li, Ta, Sn, REE | Namibia      | Erongo         | Exploration, CPR, JORC      |
| 2014      | Mn              | Zambia       | Milenge        | DD                          |
| 2014      | Graphite        | Namibia      | Erongo         | Exploration, CPR, JORC      |
| 2014      | Graphite        | Tanzania     | Tanganika      | Exploration, CPR, JORC      |
| 2014      | Cu, Ag, Zn      | Namibia      | Omaheke Region | DD                          |
| 2014      | Cu              | Namibia      | Hardap         | DD, CPR                     |
| 2013-2014 | Mn              | South Africa | Northern Cape  | Report                      |
| 2013-2014 | Mn              | South Africa | Northern Cape  | Report                      |
| 2013      | Mn & Fe         | South Africa | -              | DD                          |
| 2013      | Mn & Fe         | South Africa | -              | Exploration, Report         |
| 2013      | P               | South Africa | Western Cape   | Review                      |
| 2013      | Mn & Fe         | South Africa | -              | Exploration, Report         |
| 2013      | Mn & Fe         | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | South Africa | Northern Cape  | Exploration, DD             |
| 2013      | Mn & Fe         | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | South Africa | Northern Cape  | Exploration, CPR, JORC, ASX |
| 2013      | Mn & Cu         | South Africa | North West     | Exploration, CPR            |
| 2013      | Mn              | South Africa | Northern Cape  | DD, Exploration             |
| 2013      | Mn              | South Africa | Northern Cape  | DD, Exploration             |
| 2013      | Mn              | South Africa | Northern Cape  | Exploration, DD, CPR        |
| 2013      | Fe              | South Africa | Limpopo        | Exploration, CPR            |
| 2013      | Mn              | South Africa | Northern Cape  | MRM                         |
| 2013      | Mn & Fe         | South Africa | Northern Cape  | Exploration, CPR            |
| 2013      | Mn & Fe         | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | South Africa | Northern Cape  | DD                          |
| 2013      | Mn              | Namibia      | Erongo         | Exploration, CPR, JORC, ASX |
| 2013      | Cu Sn           | South Africa | Northern Cape  | DD                          |
| 2013      | Li              | Namibia      | Hardap         | DD                          |
| 2013      | Mn              | South Africa | Western Cape   | Exploration, CPR, JORC      |
| 2013      | Mn              | South Africa | Northern Cape  | MRM                         |
| 2012      | Ta              | South Africa | -              | DD                          |
| 2012      | Fe, V           | Mozambique   | Tete           | DD, CPR                     |
| 2012      | Base Metals     | Mozambique   | -              | DD                          |



## POTENTIAL LIES WITHIN

| Year | Commodity   | Country      | Region          | Project Type                                              |
|------|-------------|--------------|-----------------|-----------------------------------------------------------|
| 2012 | Mn          | Zambia       | Mansa           | DD                                                        |
| 2012 | Mn          | Zambia       | Mansa           | DD, CPR                                                   |
| 2012 | Coal        | Mozambique   | Tete            | DD                                                        |
| 2012 | Sn          | South Africa | Limpopo         | Exploration, CPR, JORC, LSE Listing for Bushveld Minerals |
| 2012 | Ni          | Mozambique   | Cabo de delgado | DD                                                        |
| 2012 | Cu          | South Africa | Northern Cape   | DD                                                        |
| 2012 | Au          | Namibia      | Hardap          | Exploration                                               |
| 2012 | Mn          | Burkina Faso | Kossi           | DD, CPR                                                   |
| 2012 | Coal        | Mozambique   | Tete            | DD                                                        |
| 2012 | Base Metals | Mozambique   | Tete            | DD                                                        |
| 2011 | Fe          | Mozambique   | Tete            | DD                                                        |
| 2011 | Fe          | Benin        | Borgou          | DD, CPR                                                   |
| 2011 | Cu, Ta, Sn  | DRC          | -               | DD, CPR                                                   |
| 2011 | Au & Sn     | Nigeria      | -               | DD, CPR                                                   |
| 2011 | Ta          | Nigeria      | -               | DD, CPR                                                   |
| 2011 | Coal        | Nigeria      | -               | DD, CPR                                                   |
| 2011 | Multiple    | Tanzania     | -               | DD, CPR                                                   |
| 2011 | REE         | Zimbabwe     | -               | DD, CPR                                                   |
| 2011 | Coal        | Zimbabwe     | -               | DD, CPR                                                   |
| 2011 | Fe, REE     | Namibia      | Erongo          | Exploration, CPR, JORC                                    |
| 2011 | Cr          | Zimbabwe     | Central         | Review                                                    |
| 2011 | Cu          | South Africa | Limpopo         | Review                                                    |
| 2011 | Fe          | Nigeria      | Kogi            | Review                                                    |
| 2011 | Ti          | Cameroon     | Northern        | Review                                                    |
| 2011 | Ta, Sn      | Cameroon     | Northern        | Review                                                    |
| 2011 | Au          | Zimbabwe     | Eastern         | Review                                                    |
| 2010 | Fe          | Nigeria      | Central         | Review                                                    |



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