

NATURAL RESOURCE MANAGEMENT AND ECONOMIC DEVELOPMENT IN MALAWI: WITH SPECIAL FOCUS ON MINING

by

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(MAMICO)**

28th APRIL 2025

PRESENTATION OUTLINE

We shall look at:

- WHAT IS MAMICO?
- MAMICO ALIGNMENT WITH LOCAL & INTERNATIONAL PROTOCOLS
- NATURAL RESOURCE MANAGEMENT & ECONOMIC DEVELOPMENT
- THE GEOLOGY OF MALAWI
- MINERAL RESOURCES OCCURRENCE
- CURRENT MINING ACTIVITIES
- MINING PROJECTS AND OPPORTUNITIES
- GOVERNANCE ISSUES
- SUMMARY & CONCLUSION

MAMICO: INTRODUCTION

- MALAWI MINING INVESTMENT COMPANY (MAMICO) is a Malawi Government owned Private Company. The Company was registered in December 2024 under Company Registration ACT.
- It is a state-owned enterprise (SOE) with a distinct entrepreneurial spirit, dedicated to catalyzing investments and value creation in Malawi's mineral sector.
- **CORE MANDATE:** to explore, develop, and commercialize the nation's mineral resources,
- MAMICO acts as **a strategic vehicle for unlocking Malawi's untapped mineral wealth.** The company is committed to fostering private-sector partnerships, driving local beneficiation and value addition, encouraging indigenous Malawian participation in mineral resource development, and accelerating economic transformation in alignment with *Malawi 2063 (MW2063)*.

MAMICO: INTRODUCTION CONT'

- MAMICO stands as **a catalyst** for business growth, leveraging innovation and global best practices to maximize returns while ensuring sustainable development.
- Positioned at the nexus of opportunity and expertise, MAMICO offers a robust platform for forward-thinking investors looking to capitalize on Africa's emerging mining frontier.
- With a clear focus on profitability, operational excellence, and long-term value creation, MAMICO is poised **TO REDEFINE MALAWI'S MINING LANDSCAPE, TURNING NATURAL WEALTH INTO ECONOMIC PROSPERITY.**
- MAMICO's operations stand on *Transparency, Accountability, Inclusivity, Integrity and Professionalism.*
- MAMICO believes that Malawians **MUST FULLY BENEFIT FROM THEIR MINERAL RESOURCES.** So when it comes to mineral resources then its "MALAWIAN FIRST".
- MAMICO is also about **SKILLS DEVELOPMENT** with **SPECIAL FOCUS ON THE YOUTH AND WOMEN**

MAMICO: ALIGNMENT WITH LOCAL AND INTERNATIONAL PROTOCOLS & INSTRUMENTS

MAMICO aligns and responds to several key local and international instruments.

➤ 1. 0 Local Instruments

➤ 1.1 MALAWI VISION 2063

➤ Pillar 2: Industrialisation: *“We shall have a vibrant knowledge-based economy with a strong manufacturing industry driven by productive and commercially vibrant agriculture and mining sectors”* page 17

➤ 1.2 ATM STRATEGY

➤ The ATM Strategy is a multifaceted approach to economic development in Malawi, with the aim of creating a more prosperous and self-reliant nation through agriculture, tourism, and mining.

1.3 THE MINES AND MINERALS ACT (Act No. 8 of 2019) – Revised 2023

MAMICO: ALIGNMENT WITH LOCAL AND INTERNATIONAL PROTOCOLS & INSTRUMENTS

2.0 INTERNATIONAL PROTOCOLS:

2.1 UNDP Sustainable Development Goals (“SDGs”) (2015–2030):

The mining industry has the opportunity and potential to positively contribute to all 17 SDGs. Mining can foster economic development by providing opportunities for employment, business development, increased fiscal revenues and infrastructure linkages. Many of the minerals produced by mining are also essential building blocks to technologies, infrastructure, energy and agriculture (World Economic Forum, 2016).

MAMICO: ALIGNMENT WITH LOCAL AND INTERNATIONAL PROTOCOLS & INSTRUMENTS

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2.2 African Union Agenda 2063

- **Aspiration 1:** A prosperous Africa, based on inclusive growth and sustainable development
- **Goal 1:** A high standard of living, quality of life and well-being for all citizens.
- **Priority Areas:**
 - Incomes, jobs and decent work
 - Poverty, inequality and hunger
 - Social security and protection including persons with disabilities
- Modern and liveable habitats and basic quality services

MAMICO: ALIGNMENT WITH LOCAL AND INTERNATIONAL PROTOCOLS & INSTRUMENTS

2.3 Southern African Development Community Mining Protocol

- **Article 2, General Principles:** “Member States recognise that a thriving mining sector can contribute to economic development, alleviation of poverty and the improvement of the standard and quality of life throughout the Region.”
- **Article 7, Section 2:** “Member States shall facilitate the development of small-scale mining through, amongst others, the provision of technical extension services, establishment of marketing facilities including exhibitions and establishment of mineral exchanges.”



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MAMICO: ALIGNMENT WITH LOCAL AND INTERNATIONAL PROTOCOLS & INSTRUMENTS

2.4 CRITICAL RAW MATERIALS ACT

➤ REGULATION (EU) 2024/1252 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 11 April 2024

establishing a framework for ensuring a secure and sustainable supply of critical raw materials.

A well governed mining sector which includes a well-regulated and managed MAMICO can help to achieve the requirements of these **local and international instruments.**

NATURAL RESOURCE MANAGEMENT & ECONOMIC DEVELOPMENT

- What is the relationship between natural resources and economic development?
- The Role of Natural Resources in Economic Development. *An abundance of natural resources in a country means that development will come a lot easier to that country than for one where there isn't much natural resource available.*

NATURAL RESOURCE MANAGEMENT

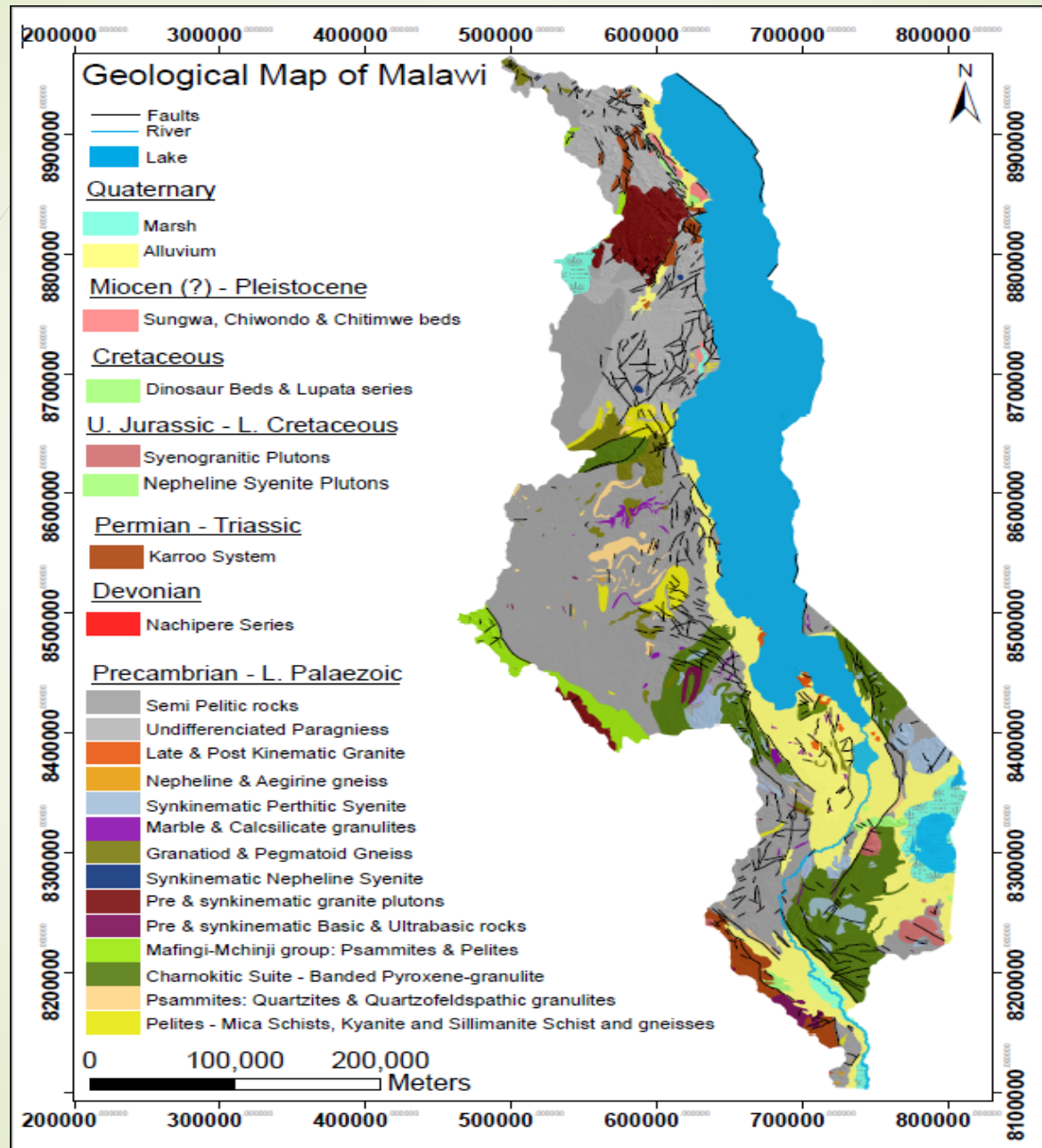
- WHAT ABOUT “THE RESOURCE CURSE?” Also called “THE PARADOX OF THE PLENTY”
- One of the more influential ideas in recent development discourse and policy is the so called ‘**resource curse**’. The big idea behind the ‘resource curse’ is that mineral and fuel abundance in less developed countries (LDCs) tends to generate negative developmental outcomes, including poor economic performance, growth collapses, high levels of corruption, ineffective governance and greater political violence. Natural resources, for most poor countries, are deemed to be more of a ‘curse’ than a ‘blessing’.
- IS THIS TRUE?

NATURAL RESOURCE MANAGEMENT

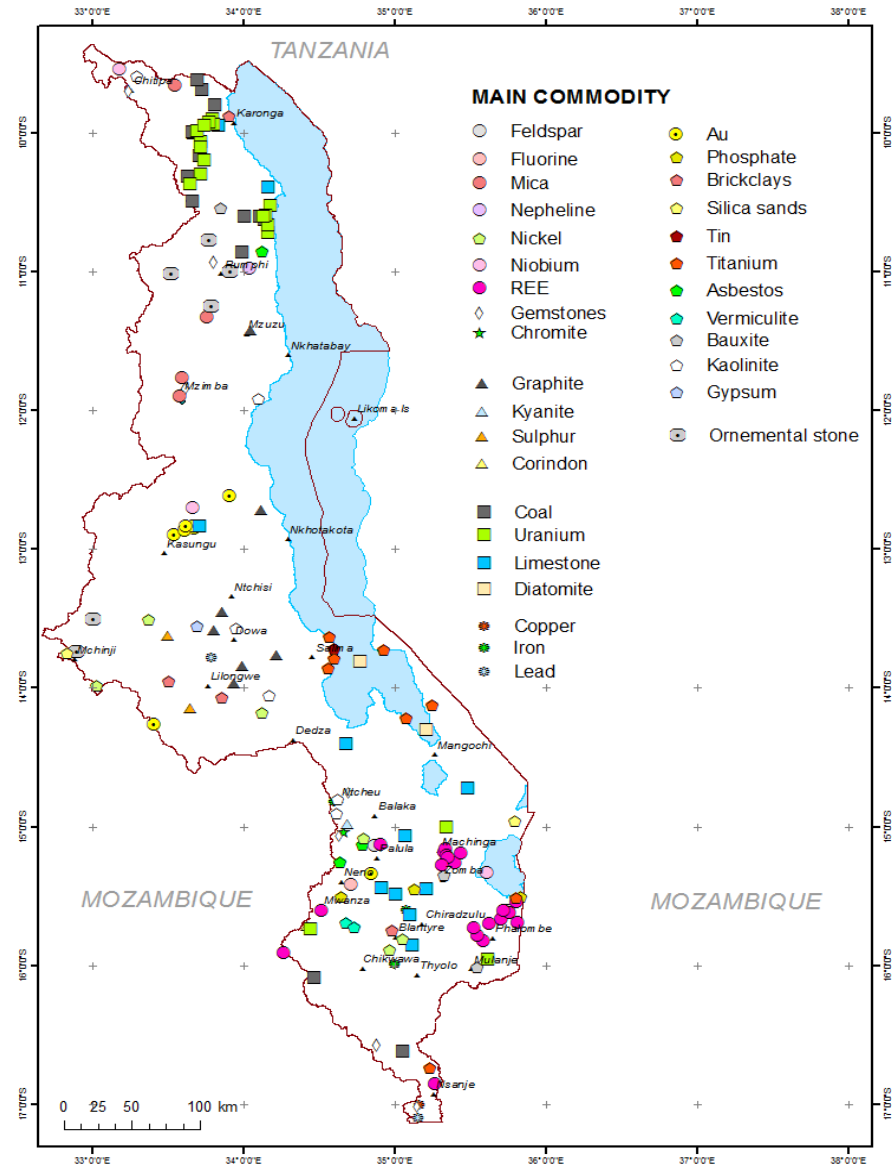
THE ANSWER IS NO, NOT NECESSARILY TRUE

The Answer lies in **NATURAL RESOURCE MANAGEMENT STRATEGIES**

Natural resource management strategies focus on protecting, preserving, and restoring resources in the environment through sustainable practices, including conservation, efficient use, governance and renewable energy adoption. This is what MAMICO stands for.



MINERAL OCCURRENCES



Known Mineral Deposits in Malawi

Table 1: Known mineral deposits, reserves and grades

DEPOSIT	LOCATION	DELINEATION RESERVES (Million tonnes /grade)
Bauxite	Mulanje	28.8/43.9% Al ₂ O ₃
Uranium	Kayelekera	12.5/0.2% Ur ₃ O ₈
Monazite/ Strontianite	Kangankunde	11/ 8% Strontianite and 60% REO
Rutile	Kasiya - Lilongwe	18.6 billion tonnes of ore. 1% rutile, 17.9 million tonnes of rutile
Corundum	Chimwadzulu-Ntcheu	Not conclusive
Graphite	Katengeza-Dowa	8.0/75.6gm per m ³
	Kasiya in lilongwe	24.4 million tonnes
Limestone	Malowa Hill-Bwanje	15/48% CaO, 1.2% MgO

Known Mineral Deposits in Malawi Cont'd..

	Mchenga	5/17% Ash, 0.5% Sulphur and calorific value of 6,800kcal/kg
Phosphate	Tundulu-Phalombe	2.017% P ₂ O ₅
Pyrite	Chisepo-Dowa	34/8% S
	Malingunde-Lilongwe	10/12% S
Glass Sands	Mchinji Dambos	1.6/97% SiO ₂
Dimension Stone	Chitipa, Mzimba, Mangochi, Mchinji	Blue, Black, Green, and Pink Granite
Gemstones	Mzimba, Nsanje, Chitipa, Chikwawa, Rumphu, Ntcheu	Numerous pegmatites and volcanic

Source: Geological Surveys Bulletins and Private Companies Mineral Exploration Reports

Known Mineral Deposits in Malawi Cont'd..

	Chenkumbi-Balaka; Chikoa-Livwezi-Kasungu	10/46.1% CaO, 3.5% MgO
Titanium bearing Heavy Mineral Sands	Nkhotakota-Salima	700/5.6% HMS
	Chipoka	inconclusive
	Mangochi	680/6.0% HMS
	Halala (Lake Chilwa)	15/6.0 % HMS
Vermiculite	Feremu-Mwanza	2.5/4.9% (Med+Fine)
Coal	Mwabvi-Nsanje	4.7/30% ash
	Ngana-Karonga	15/21.2% ash

Mineral Production In Malawi

Production Type Stones	2022/23 Actual Quantity (tonnes)	2023/2024 Actual Quantity (tonnes)	Percentage Change
Coal	62,166.1	64,250.8	3.4%
Cement Limestone	277,979.4	216,397.8	-22%
Iron ore	981.7	639.34	-35%
Hydrated & Agriculture Lime	26,441.17	27,763.2	5%
Other Uranium Concentrates	0	0	
Phosphate	0	0	0
Rock Aggregate	504,536.0	318,729.74	-37%
Gold (Assayed)	0.07	0.06	-15%
Precious & Semi-Precious	329.5	793	140%
Dimensional Stones	2,040.5	2,241.0	10%

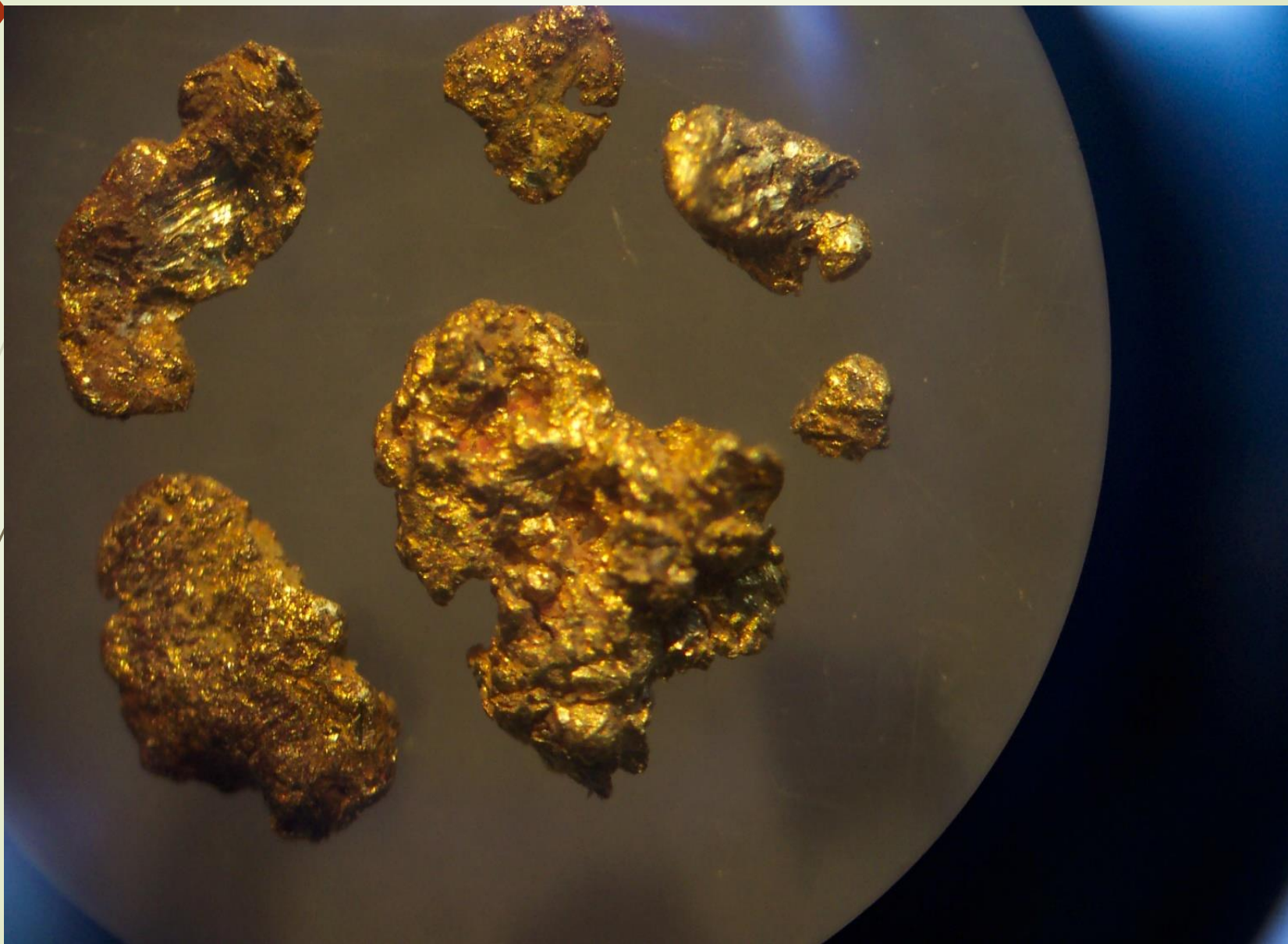
Source: Annual Economic Report 2024

GOLD

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1. GOLD MINING

- Malawi has been “quietly” mining gold. Mostly this has been alluvial gold with a few exceptions eg the Breeze underground gold mines in Lisungwe area (Ntcheu).
- In fact there was “Gold Rush” in Malawi in 1938 and its believed that some company (Nyasaland Gold Mining Company) made a 10,000 pounds profit from gold sales in 1938!!
- At the moment over 30 sites, spread throughout the country, are actively mining gold (See Map). Gold villages exist in some of these sites. The Bowa gold village in Dwangwa is a typical example of a “Gold Mining Village”.





GOLD MINING CONT'D

- ➡ Bowa gold mining village at Dwangwa over 3,000 people at the peak.
- ➡ Oldest and largest gold mining village
- ➡ Bua up to 1000 people at the peak.

GEMSTONES

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- Gemstones found in Malawi are mainly ruby, sapphire, aquamarine, beryl, garnet, amethyst, rose quartz and various agates. Gemstone mining in Malawi is almost all done on an artisanal basis, used by locals as a way of supplementing their income. One exception to this is the ruby and sapphire mine at Chimwadzulu Hill in Ntcheu District. Chimwadzulu is the single biggest gemstone mine in Malawi.
- The deposit produces a range of sizes -- generally less than two carats, but larger stones have been found. The colour of the corundum goes from a light pink-orange (padparadscha) to pink to deep purple, and can be sold unheated. The material is mainly being marketed in the United States .
- Another active area is Mzimba, in the northern part of the country near the border with Zambia. Mzimba's main gemstone is aquamarine, but it also produces other types of beryl, as well as garnet, amethyst, and rose quartz.
- AGATES: Including blue agate found mainly in the Lower Shire.

GEMSTONES CONT'D



“Padparadscha” is an ancient Sanskrit word used to describe the color of a tropical lotus flower. One of the rarest gemstones of the world, Padparadscha sapphires are rivaled by no other gemstone species or color substitute. a rare, pinkish-orange sapphire, known for its unique color and rarity. Found also in Malawi at Chimwadzulu.

SOME MALAWI GEMSTONES

Amethyst



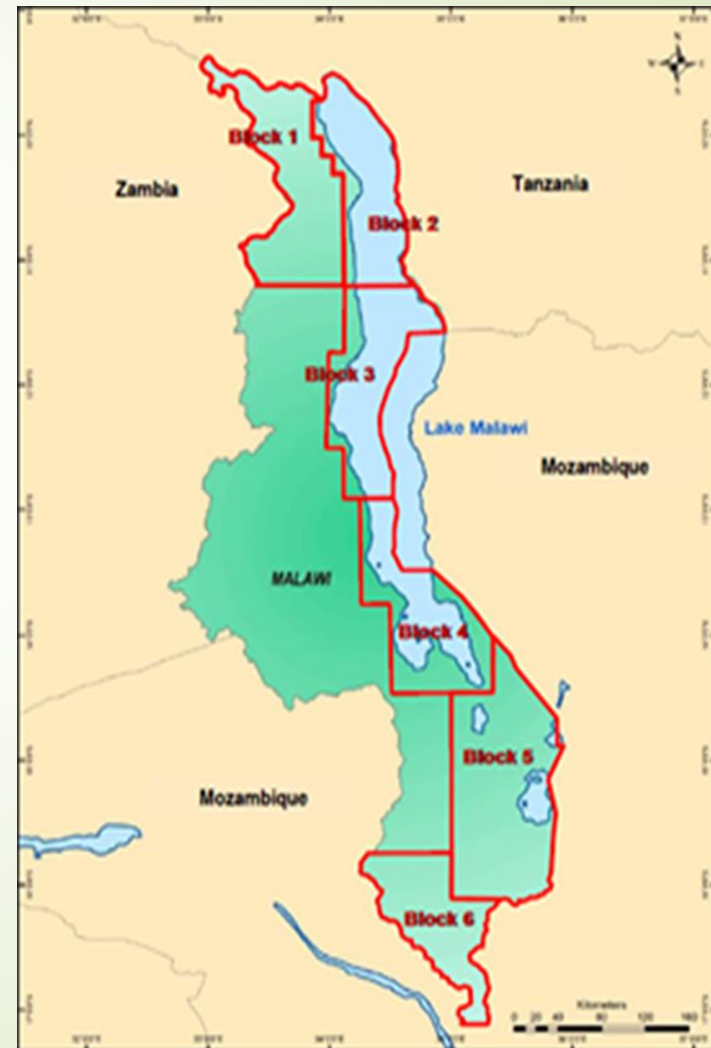
Ruby



OIL AND GAS EXPLORATION

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1. The country is divided into six exploration blocks;
2. Exploration licences were previously granted to companies from 2013 to 2016.
3. Licences for all the Blocks were relinquished largely due to negative economic impacts;
4. Data for the preliminary studies is available and all Blocks are free to be explored.



MAMICO CRITICAL PROJECTS

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- 1- GOLD BUYING AND SELLING
- 2- GOLD EXPLORATION
- 3- STATE OF THE ART GEOLOGICAL LABORATORY WITH COMPANY OFFICES
- 4- GEMSTONE BUYING AND SELLING AND JEWELLERY FACTORY
- 5- LIME AND CEMENT FACTORY
- 6- RUTILE PROJECT
- 7- GRAPHITE PROJECT
- 8- RARE EARTH MINERALS
- 9- NIOBIUM
- 10- URANIUM
- 11- OIL AND GAS
- 12- QUARRYSTONE
- 13- LITHIUM
- 14- NICKEL
- 15- COPPER
- Pyrite

ADVANCED STAGE PROJECTS

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- **Sovereign Metals**, backed by Rio Tinto, is racing to develop the Kasiya Rutile-Graphite Project, which boasts the world's largest known rutile resource and the flake graphite reserve
- By just looking at the volume and quality of the resource “Kasiya is a game-changer”. This project will play a very key role in the soaring demand for sustainable minerals in the green energy sector.
- **Australia's Lindian Resources** and **Mkango Resources** are actively courting investors for the Kangankunde and Songwe Rare Earths Projects respectively. Rare earths are a critical component in the production of high-tech gadgets and renewable energy technologies.

ADVANCED STAGE PROJECTS CONT'

- **The Niobium Project in Mzimba, and Kasungu** is capitalising on the growing demand for this additive.
- **Australian firm Lotus Resources** This project will position Malawi as a serious contender in the global uranium market, just as demand for nuclear energy is surging.

GOVERNANCE ISSUES

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The Malawi Government is implementing the following initiatives to speed up mineral development:

- Putting in place a policy and legislative framework which is conducive and more attractive to investment:
 - ✓ Mines and Minerals Policy approved in 2013;
 - ✓ New Mines and Minerals Act (No.8 of 2019) – Revised in 2023
- The Petroleum Policy is being finalised and the Petroleum legislation is being reviewed;
- Geological data base is being updated through:
 - Acquisition of high density airborne geophysical data through the KAUNIUNI PROGRAMME;
 - Updating geological maps;
 - Modernizing the mineral cadastre; and
 - Setting up a geo-data management platform for ease of data access.

GOVERNANCE ISSUES CONT'D

The Malawi Government further:

- Facilitated the introduction of mining related courses at institutions of high learning;
- Provides support towards infrastructure development to support mining e.g. facilitating access road construction and enhancing energy generation;
- Facilitates the rehabilitation and re-equipping of mineral laboratories to enhance mineral research, exploration and mining.

SUMMARY

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“This is Malawi’s Moment.”

➤ Malawi, through MAMICO, is not just offering **world class mineral resources**, the country is also offering STRATEGIC PARTNERSHIPS, EXCELLENT, MODERNISED, EASILY ACCESSIBLE & RELIABLE GEOLOGICAL DATA, STABILITY, A STRATEGIC LOCATION, and COMMITMENT TO RESPONSIBLE MINING PRACTICES.

➤ As the world is busy banging its heads trying to find secure and sustainable mineral supplies:

Malawi’s **SLEEPING GEOLOGICAL GIANT** has awakened, her untapped mineral riches are shining brighter than ever.

➤ Indeed the \$30 billion question is now not if, but when will this African nation truly unleash its mining power, indeed its mineral ocean..

SUMMARY CONT'D

- Malawi has been very busy sorting out its governance issues in the mining sector.
- This includes coming up with new mining laws and policies, updating geological data base, infrastructure development etc.
- The establishment of MAMICO is a complete ‘GAME CHANGER’ for the country. MAMICO will ensure that huge benefits from mining go to Malawi Government and indeed MALAWIANS.

WHAT OTHERS ARE SAYING

“Malawi’s \$30 Billion Mineral Bonanza: Global Investors Flock to Untapped Riches”

(Zambian Mining Magazine, 18th March 2025)

“Forget safaris and tea plantations; Malawi is poised to become Africa’s next mining powerhouse, with a staggering \$30 billion in potential mineral wealth luring global investors like bees to a honeypot. ” (ZMM, 18/03/25).

“The World Bank’s predictions are nothing short of electrifying: by 2034, Malawi’s mineral exports are expected to rake in a cool \$3 billion annually, propelling the sector to a dazzling over 12% of the country’s GDP This isn’t just about digging up rocks; it’s a seismic shift that could redefine Malawi’s economic landscape, turning it from a landlocked agricultural nation into a key player in the global minerals trade”. (From ZMM, 18/03/25).

SUMMARY CONT'D

“This is Malawi’s Moment.”

- Indeed HISTORIANS, GEOSCIENTISTS, PHILOSOPHERS, MINERALS MARKET WATCHERS & EXPERTS, STOCK EXCHANGE WATCHERS & MANAGERS, POLITICIANS etc. are rewriting and repositioning MALAWI’S MINING PORTIFOLIO.
- Indeed the future of Malawi’s mining industry will NOW be written in the NUMEROUS & LUCRATIVE MINING DEALS struck and the partnerships BORN!!!!!!!!!!

CONCLUSION

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1- THE GOOD NATURAL RESOURCE MANAGEMENT SHOWN BY THE MALAWI GOVERNMENT THROUGH MINERAL RESOURCES WILL CERTAINLY LEAD TO BIG ECONOMIC DEVELOPMENT FOR THE COUNTRY.

2- THE ESTABLISHMENT OF **MAMICO** IS A “GAME CHANGER” FOR MALAWI. THE COMPANY WILL:

(i) SPEED UP INVESTMENTS IN THE MINING SECTOR; (ii) GENERATE REVENUE FOR GOVERNMENT; (iii) BRING FOREX INTO THE COUNTRY; (iv) EMPLOYMENT FOR MALAWIANS; (v) SKILLS DEVELOPMENT; and (vi) EMPOWER LOCAL MALAWIANS TO INVEST IN MINING.

“THE ONCE FAST ASLEEP GEOLOGICAL GIANT OF MALAWI IS NOW NOT ONLY AWAKE AND ALERT, BUT ALSO

VERY THIRSTY AND HUNGRY FOR GENUINE INVESTMENTS. “

A large graphic of the Malawian flag, consisting of three horizontal stripes of black, red, and green. A stylized red sun with rays is positioned at the top, partially overlapping the black stripe.

Invest in Malawi:
“The Warm Heart of Africa”

THANK YOU FOR YOUR ATTENTION