

# EARTHCON RESOURCES MOZAMBIQUE

## GRAPHITE ANCUABE PROJECT





República de Moçambique  
Ministério dos Recursos Minerais e Energia

(Lei n° 20/2014, de 18 de Agosto; Lei n° 28/2014, de 23 de setembro; e Seus Regulamentos)

**Licença de Prospecção e Pesquisa**  
**11534L**

Titular:

*Earthcon Resources VIII, Lda*

Província:

*Cabo Delgado*

Recursos minerais abrangidos:

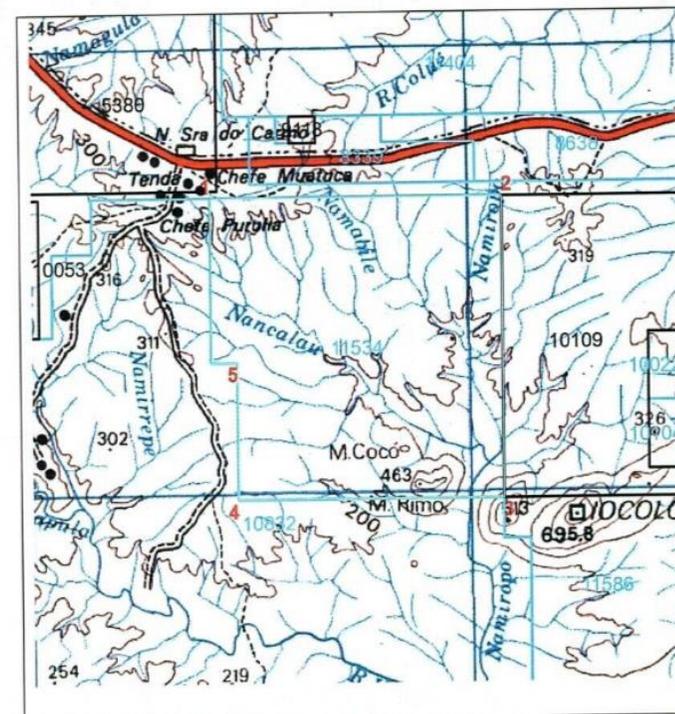
*Grafite e Minerais Associados*

Data de emissão: 30-01-2024

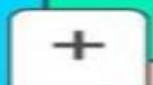
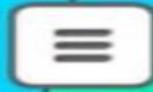
Válida até: 30-01-2029

O Ministro dos Recursos Minerais e Energia

*Carlos Joaquim Zacarias*  
Carlos Joaquim Zacarias



Titulo: 11534 L		Província: Cabo Delgado
Tipo: Licença de Prospecção e Pesquisa		Distrito: Ancuabe
Titular: Earthcon Resources VIII, Lda		
Chefe do Cadastro	<i>Zulh</i>	Área em hectares: 4.291,80 CADASTRO INAMI/MIREME 30-01-2024
Verificação cadastral		
Verificação legal	<i>CBG</i>	



6km  
4mi

# Earthcon VIII

11534



**Em Vigor**

**Earthcon Resources VIII, Lda (100%)**

*Licença de Prospecção e Pesquisa*

Date Applied: **08/05/2023**

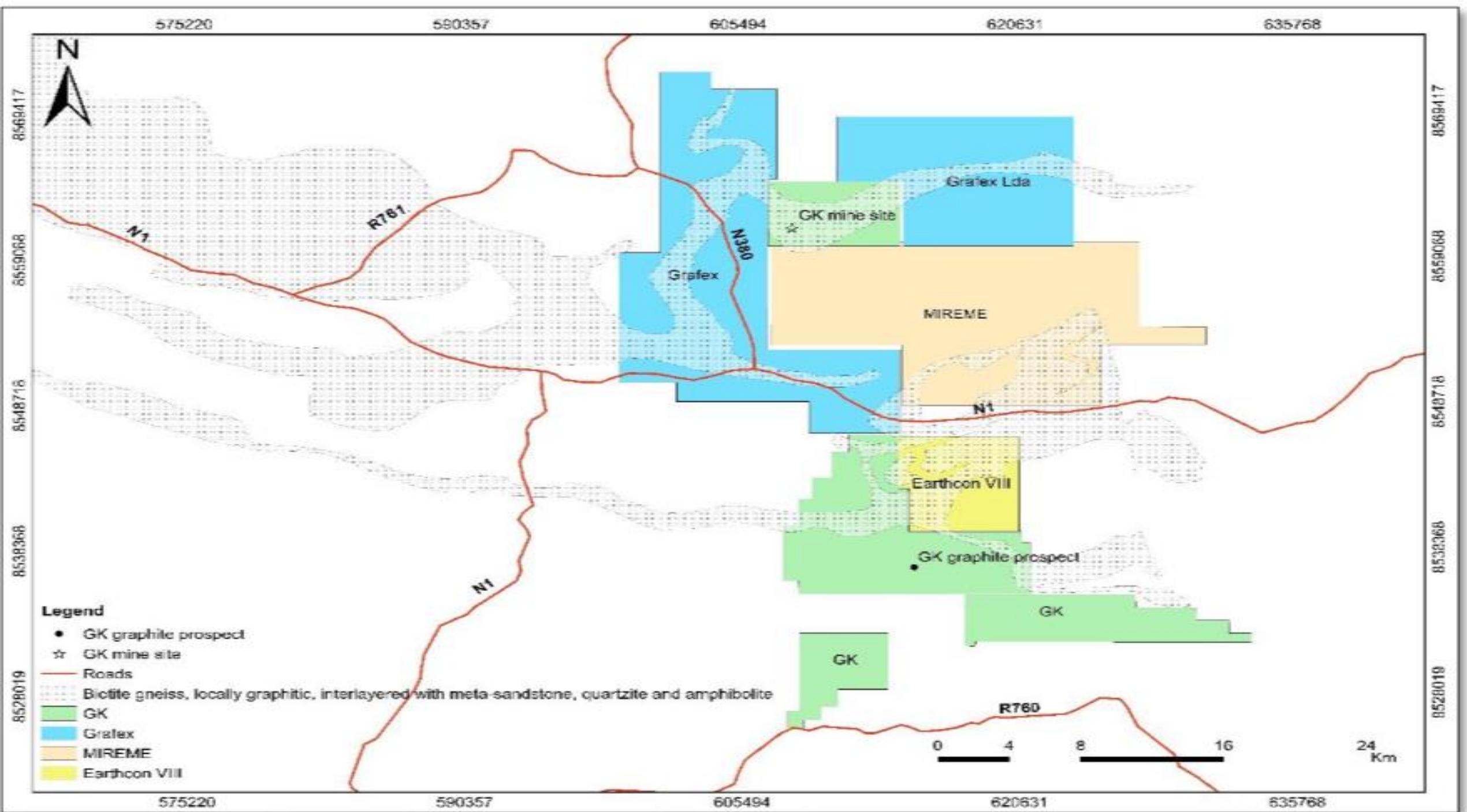
Date Granted: **30/01/2024**

Date Expires: **30/01/2029**

Resources: **Grafite, Minerais Associados**

Area (Ha): **4291.8**

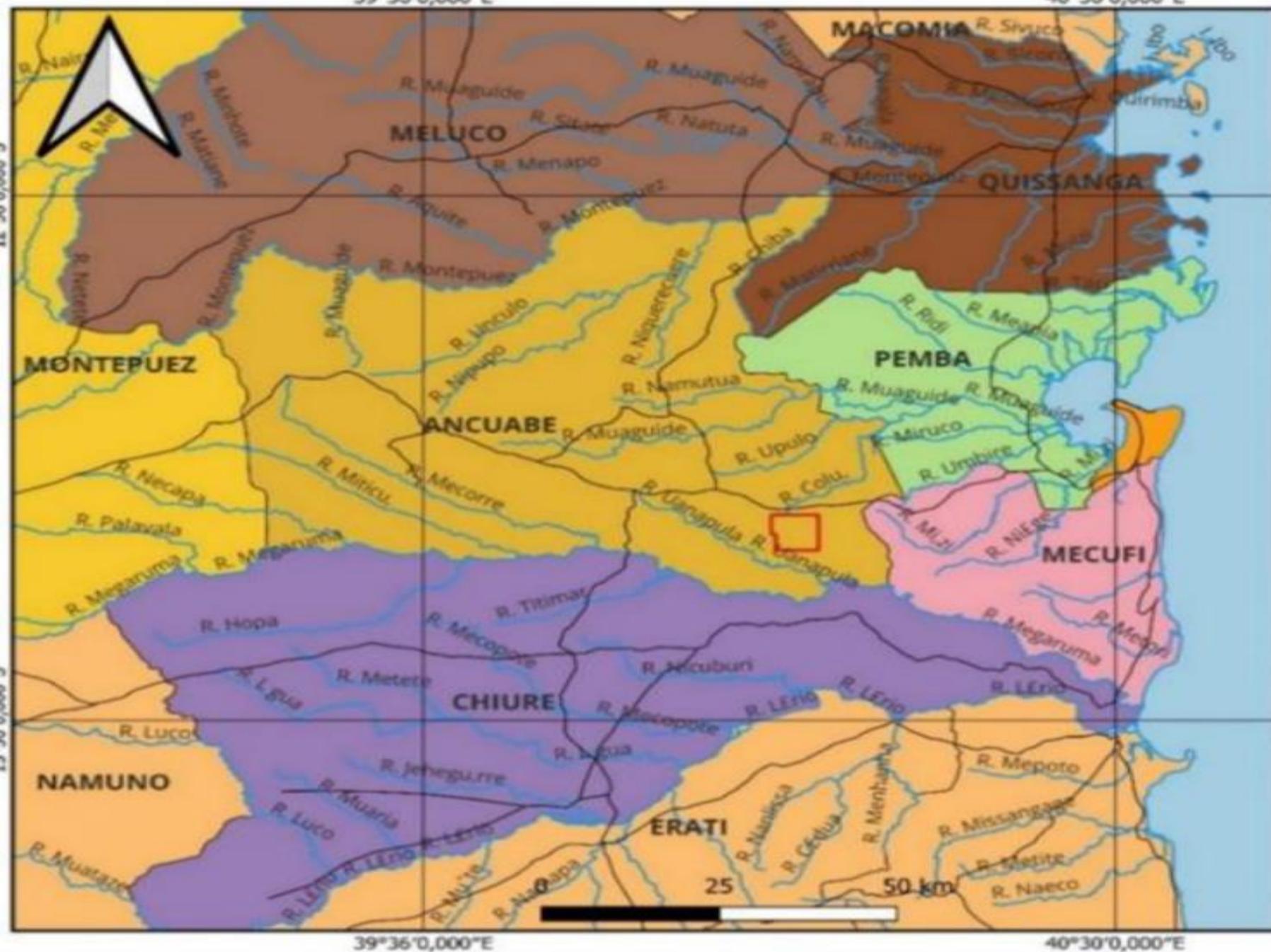






39°36'0,000"E

40°30'0,000"E



39°36'0,000"E

40°30'0,000"E

## Earthcon VIII Location Map

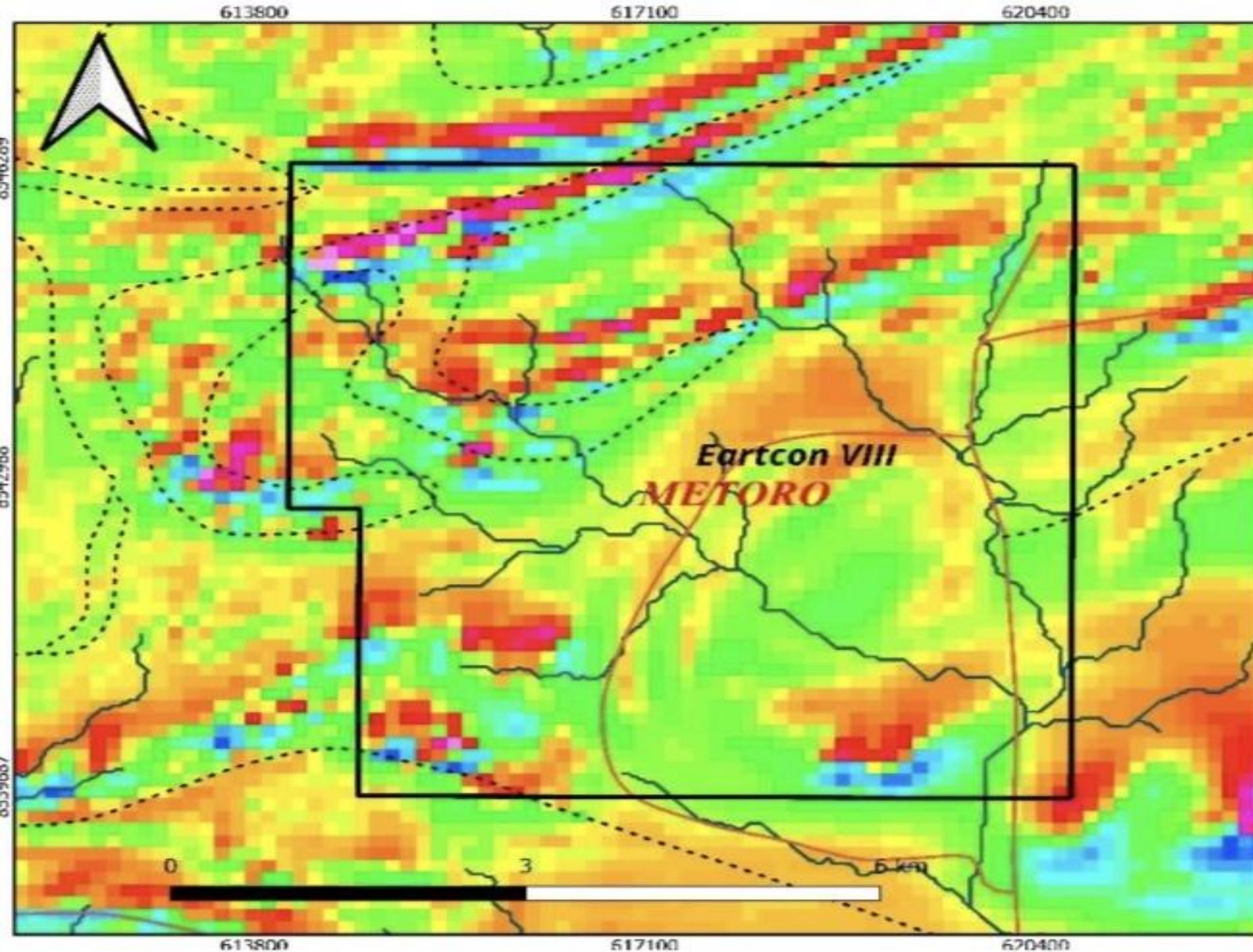
12°36'0,000"E



13°00'0,000"E

### Legend

- Earthcon VIII Outline
- Roads
- Rivers
- Ancuabe District



**Earthcon VIII  
Magnetic anomaly**



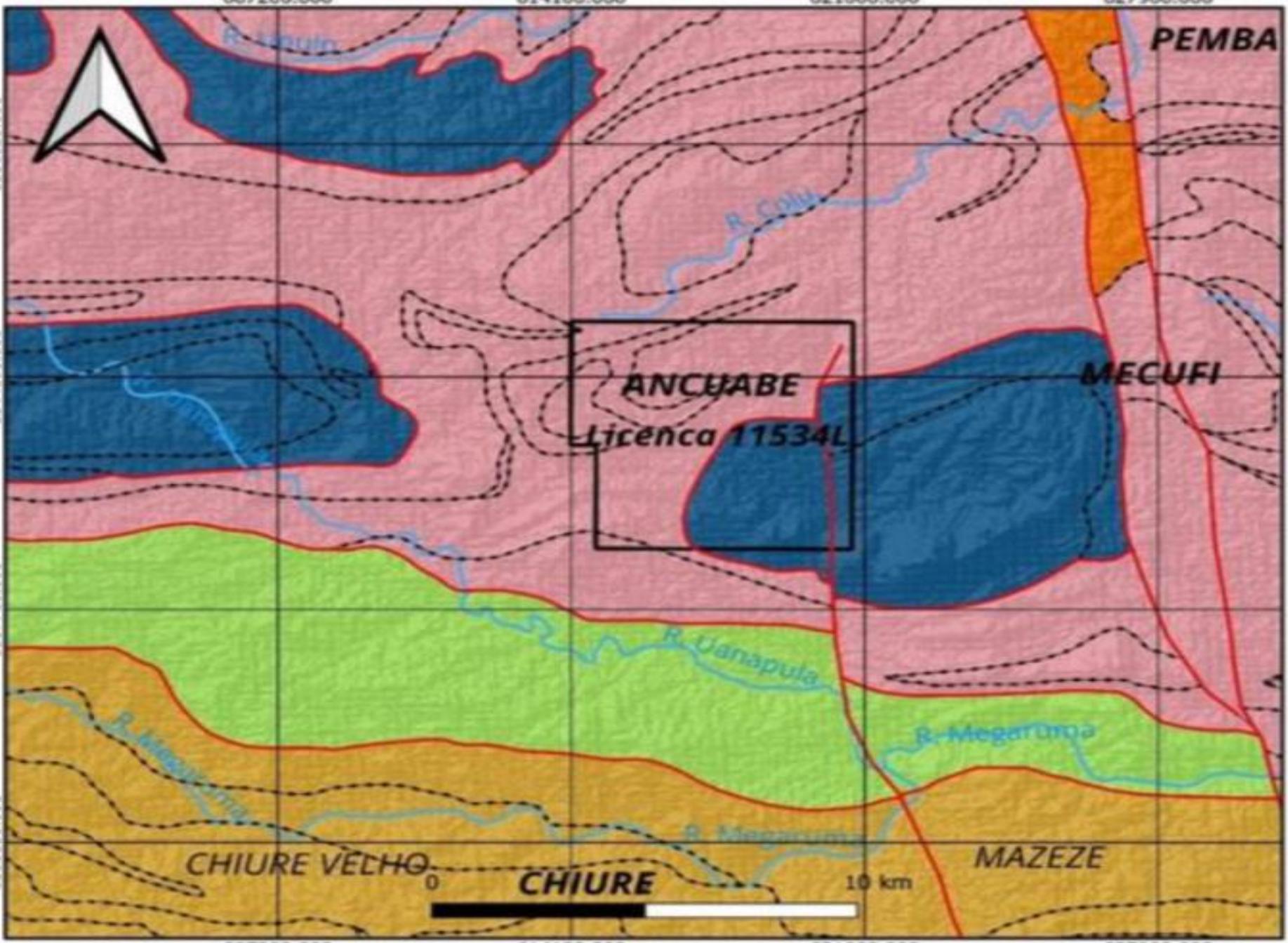
**Legend**

- Drainage
- Earthcon VIII Outline
- Faults\_Cabo\_delgado
- - - Geocontacts\_Cabo\_delgado

607200.000 614100.000 621000.000 627900.000

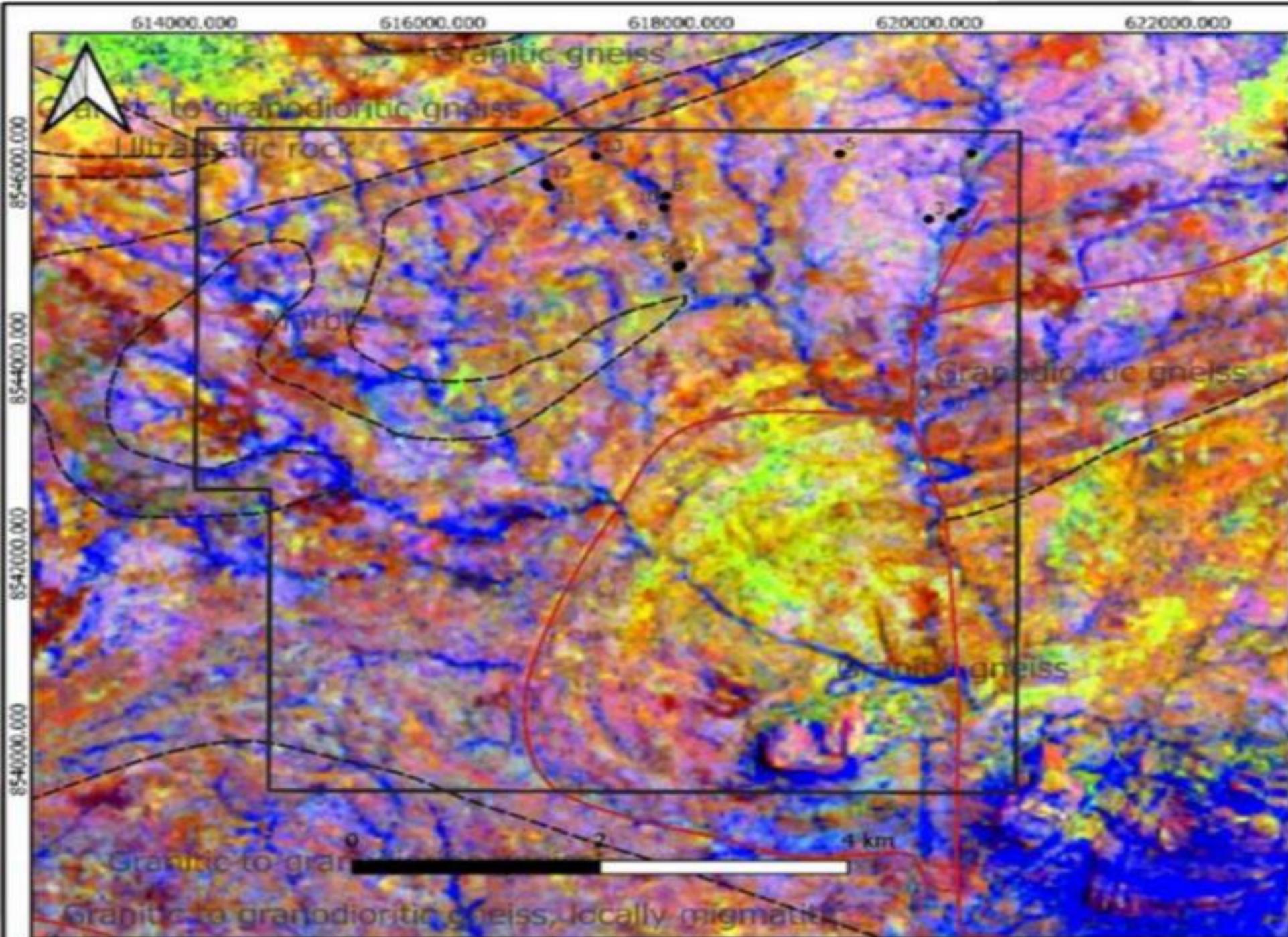
# Earthcon VIII Geological Map

8551620.000  
8544690.000  
8537760.000  
8530830.000



- Faults\_Cabo\_delgado
- Geo\_Features\_Cabo\_delgado
- - - Geocontacts\_Cabo\_delgado
- Rivers
- Earthcon VIII outline
- Complex\_Marrupa
- Complex\_Lalamo
- Complex\_Meluco
- Complex\_Montepuez
- Complex\_Xixano
- Complex\_Nairoto
- Complex\_NAMPULA
- Complex\_Ocua
- Recent\_Paleogene\_sediments

607200.000 614100.000 621000.000 627900.000



**Earthcon VIII  
licence 11534L ON  
Landsat & Strutural  
Data**



**Legend**

- Visited areas
- | Geology\_Cabo\_delgado
- ▭ Licença 11534L
- Geocontacts\_Cabo\_delgado
- Faults\_Cabo\_delgado

612500.000

617400.000

622300.000

8548620.000

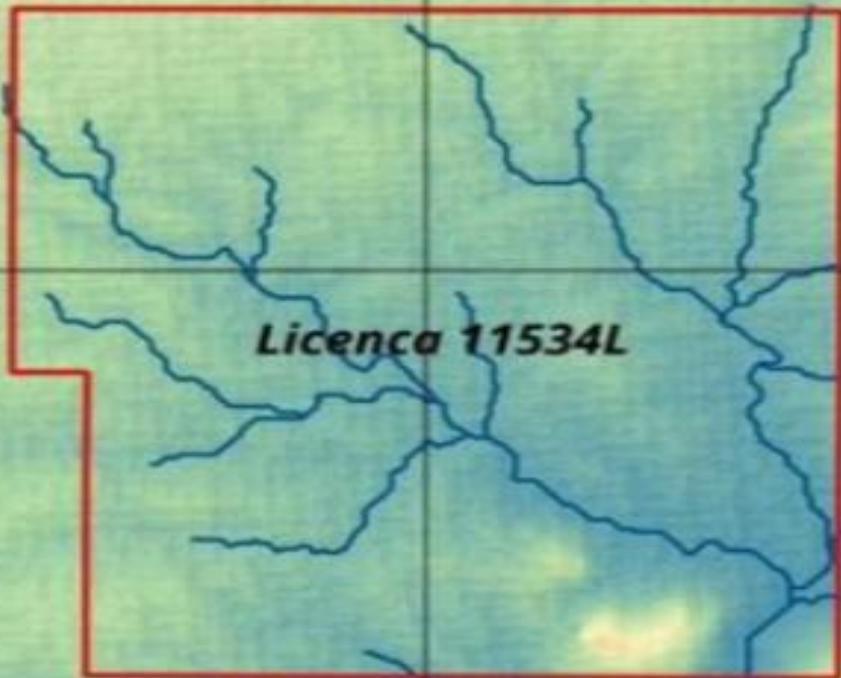
8543690.000

8538760.000

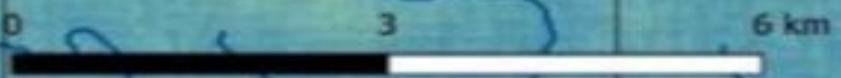
612500.000

617400.000

622300.000



*Licenca 11534L*



### Earthcon VIII geomorphology and drainage network



### Legend

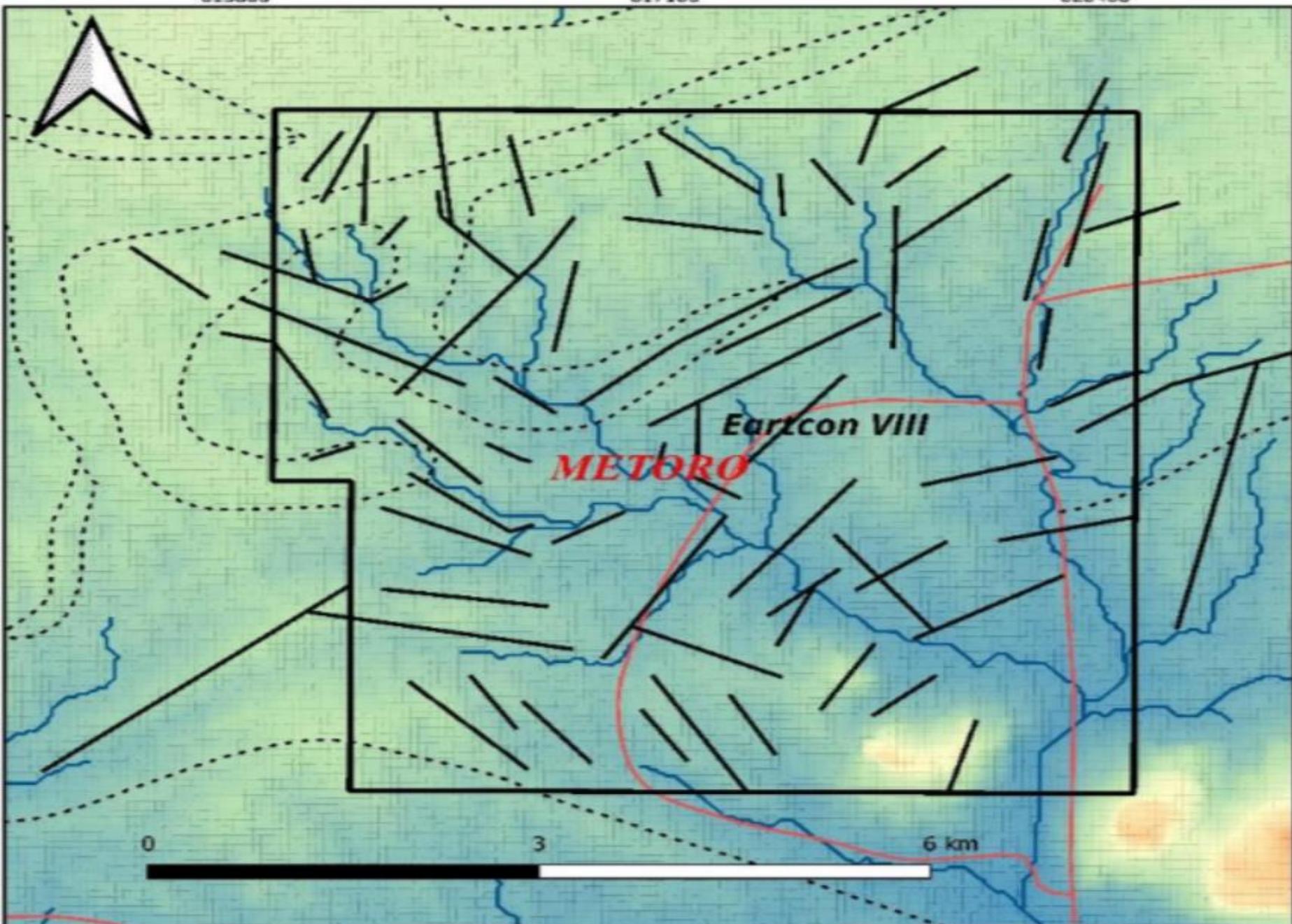
- Earthcon VIII Outline
- Drainage
- Altimetry  
meters
- 687
- 132

613800

617100

620400

### Earthcon VIII geostructural information



### Legend

- Drenagem\_01
  - Earthcon VIII Outline
  - Faults\_Cabo\_delgado
  - Geocontacts\_Cabo\_delgado
  - Structures
- Altimetry  
meters
- 687
  - 143

613800

617100

620400

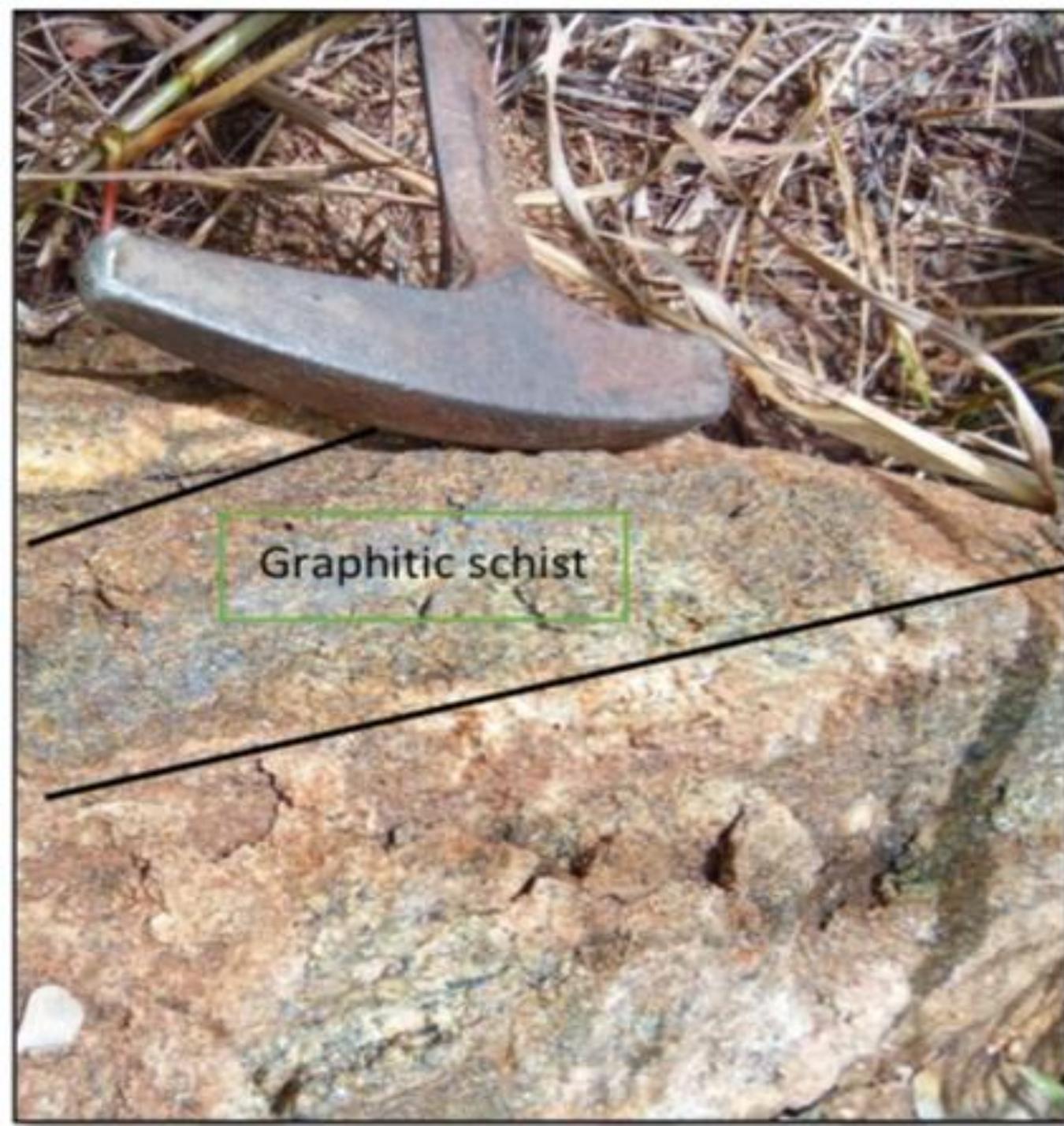
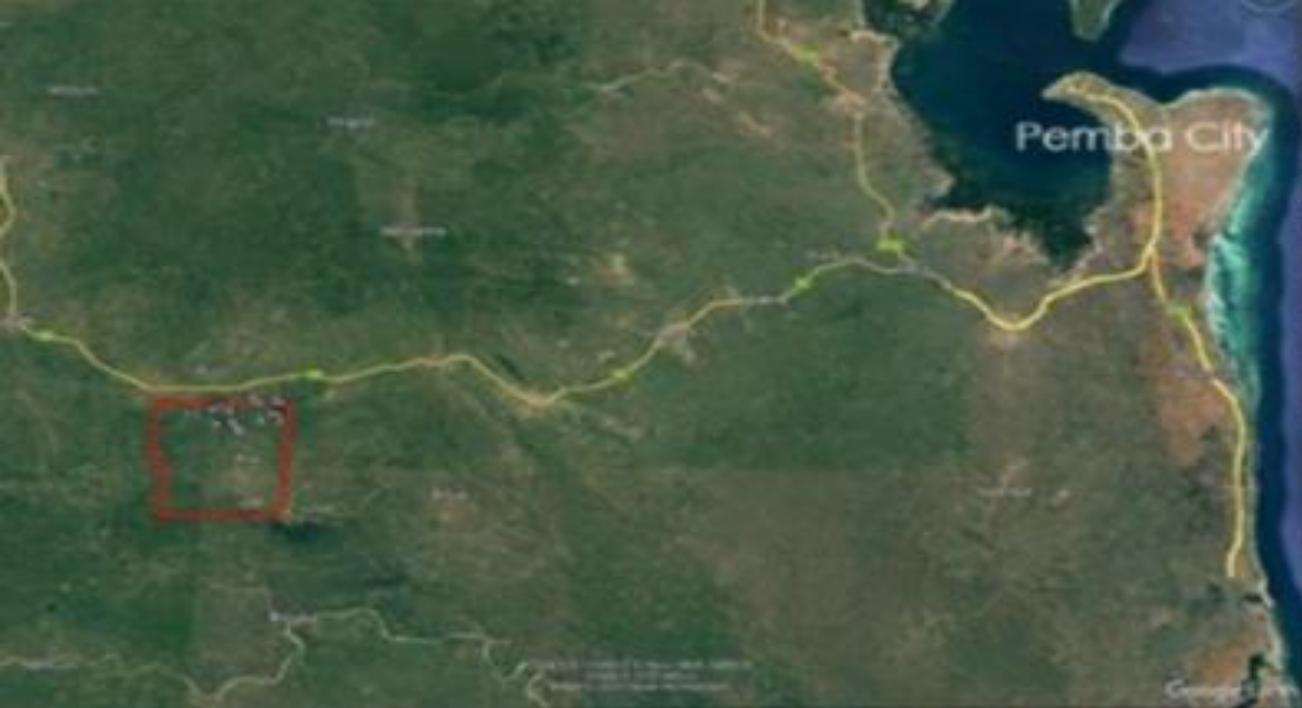








Figure 15. Earthcon VIII water catchment

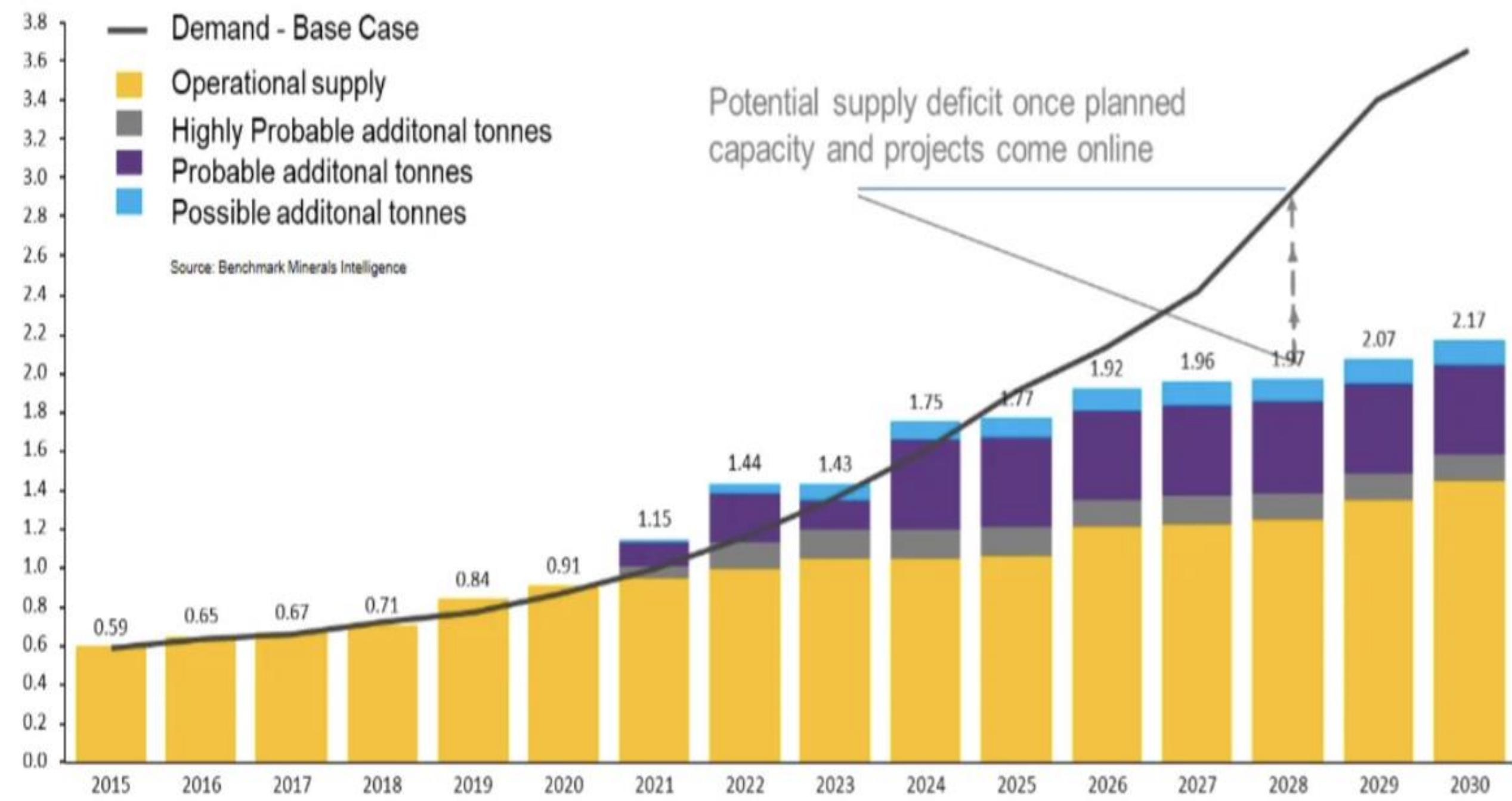


Million tonnes

- Demand - Base Case
- Operational supply
- Highly Probable additional tonnes
- Probable additional tonnes
- Possible additional tonnes

Source: Benchmark Minerals Intelligence

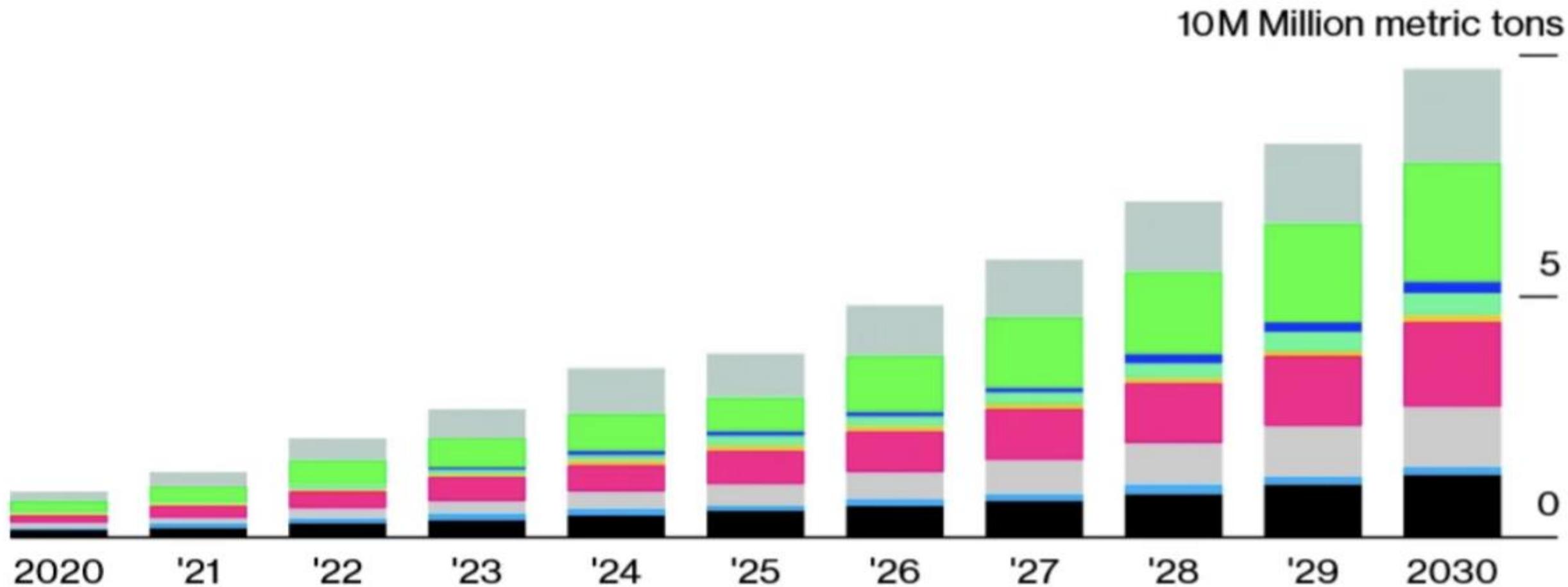
Potential supply deficit once planned capacity and projects come online



# Battery Boom

Rising EV demand supercharges demand forecasts for a group of metals

■ Lithium ■ Cobalt ■ Nickel ■ Graphite ■ Manganese ■ Iron ■ Phosphorus  
■ Aluminum ■ Copper

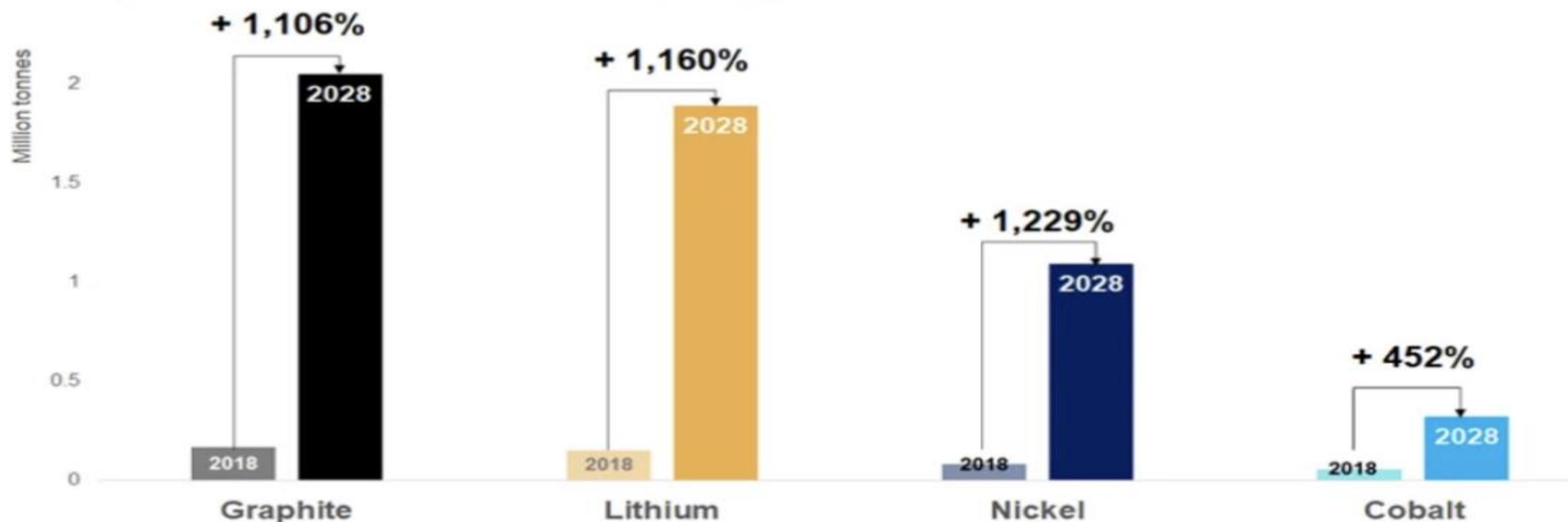


BloombergNEF

All metals expressed in metric tons of contained metal, except lithium is in lithium carbonate equivalent.

# Graphite demand and supply forecast charts

## Demand Growth for Critical Battery Raw Materials from LiB

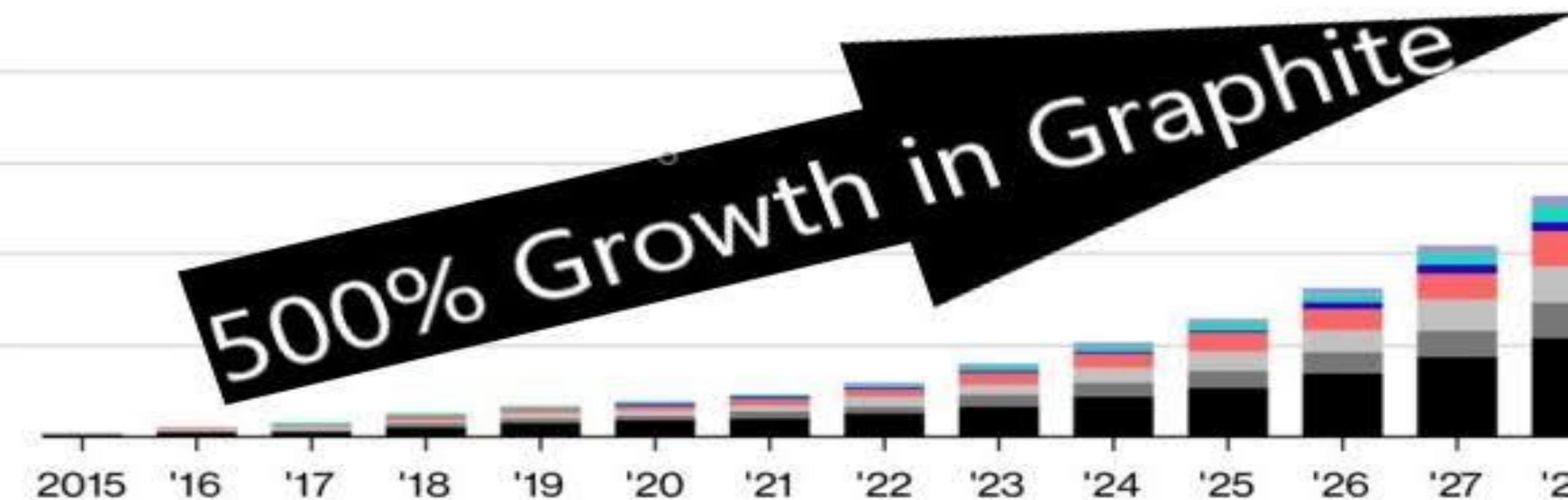


Source: Syrah Resources analysis, data from Benchmark Minerals/Visual Capitalist (2019)

# Demand Surge

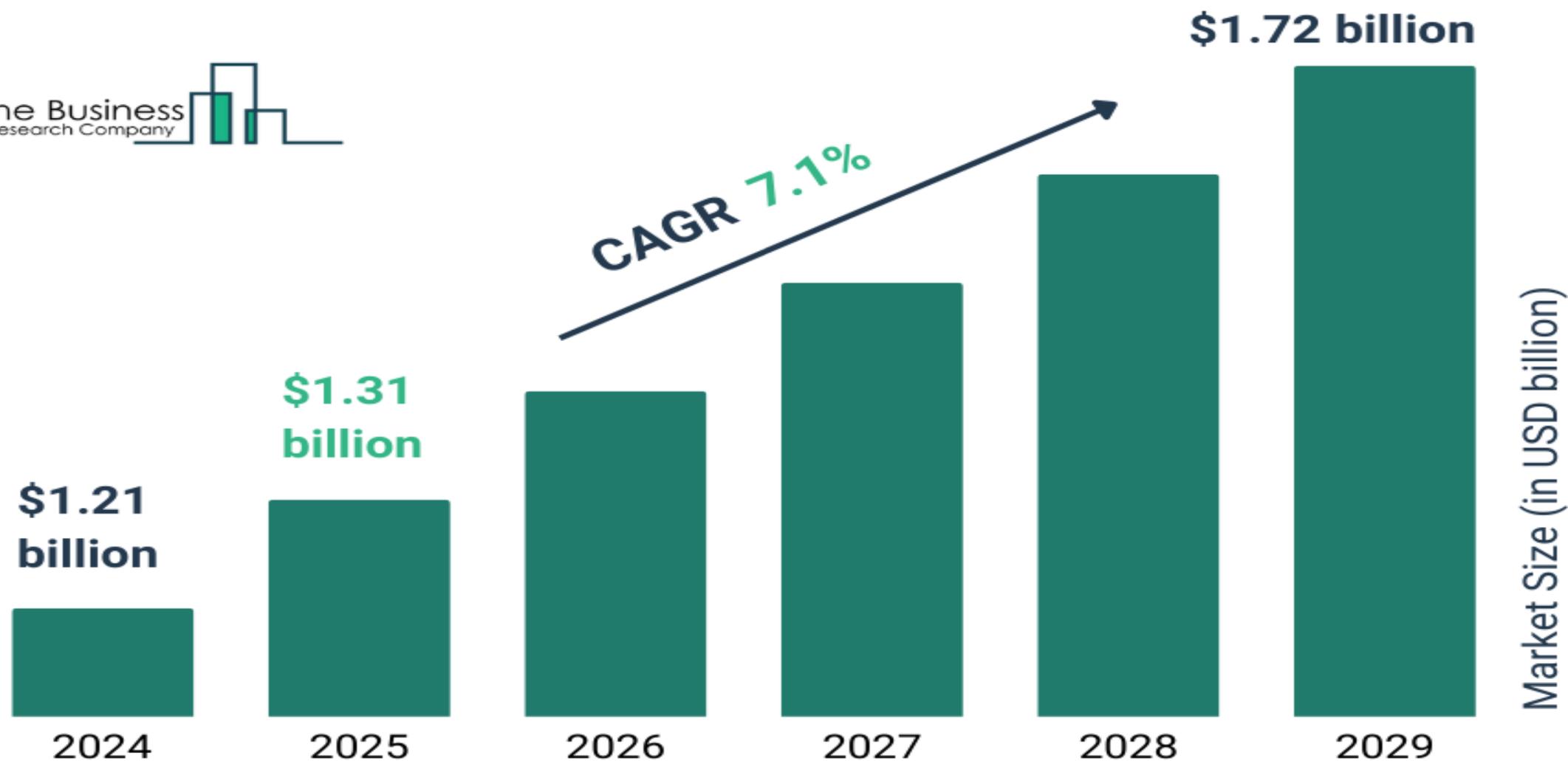
Global metals and materials demand from EV lithium-ion batteries

■ Graphite ■ Nickel ■ Aluminum ■ Copper ■ Lithium ■ Cobalt



Source: Bloomberg New Energy Finance

# Graphite Global Market Report 2025

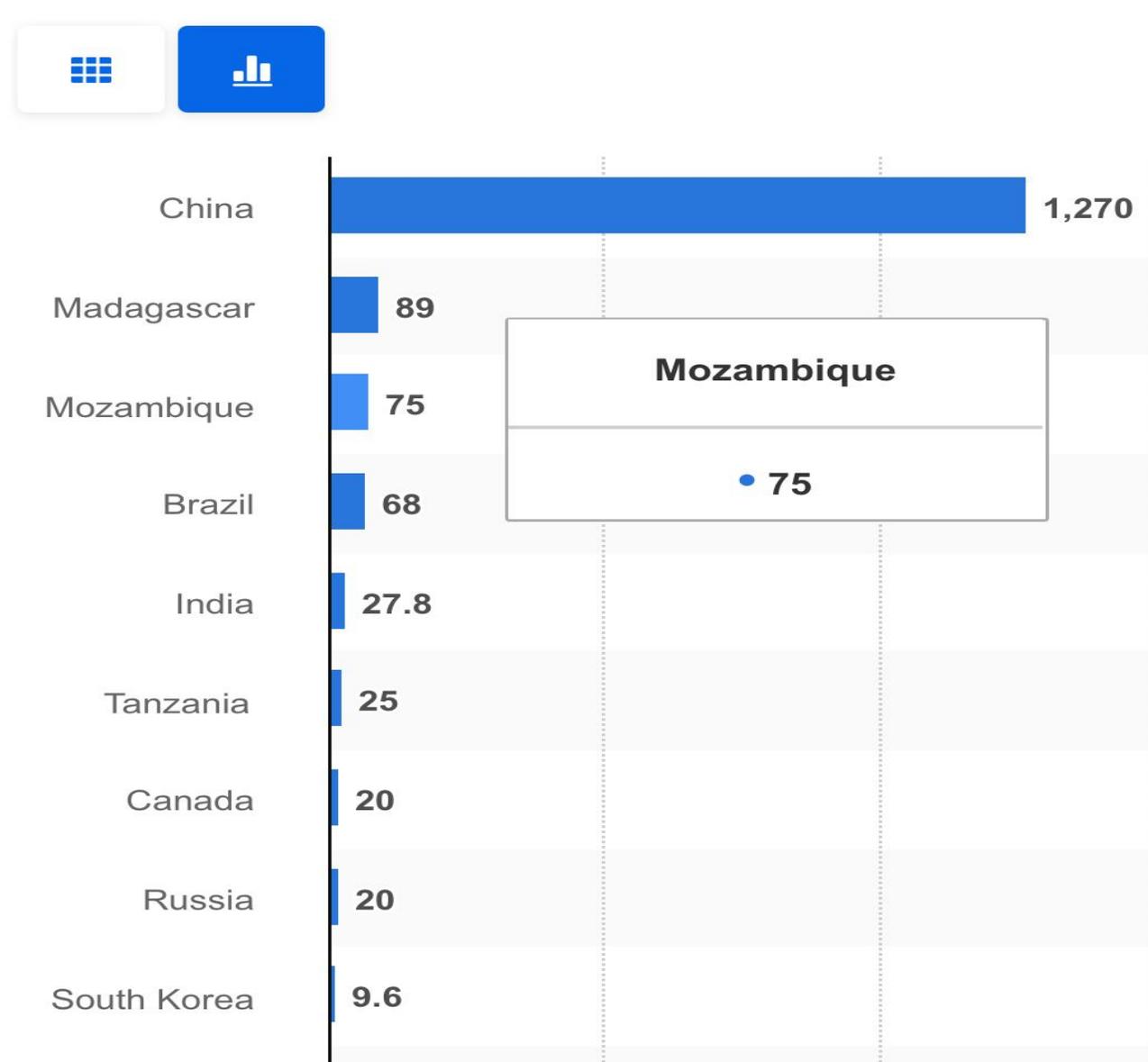




- demand for graphite from EVs and batteries will rise almost x10 by 2032
- batteries require larger volumes of graphite than nickel, cobalt or lithium
- decarbonisation drive needs new supply of graphite outside China

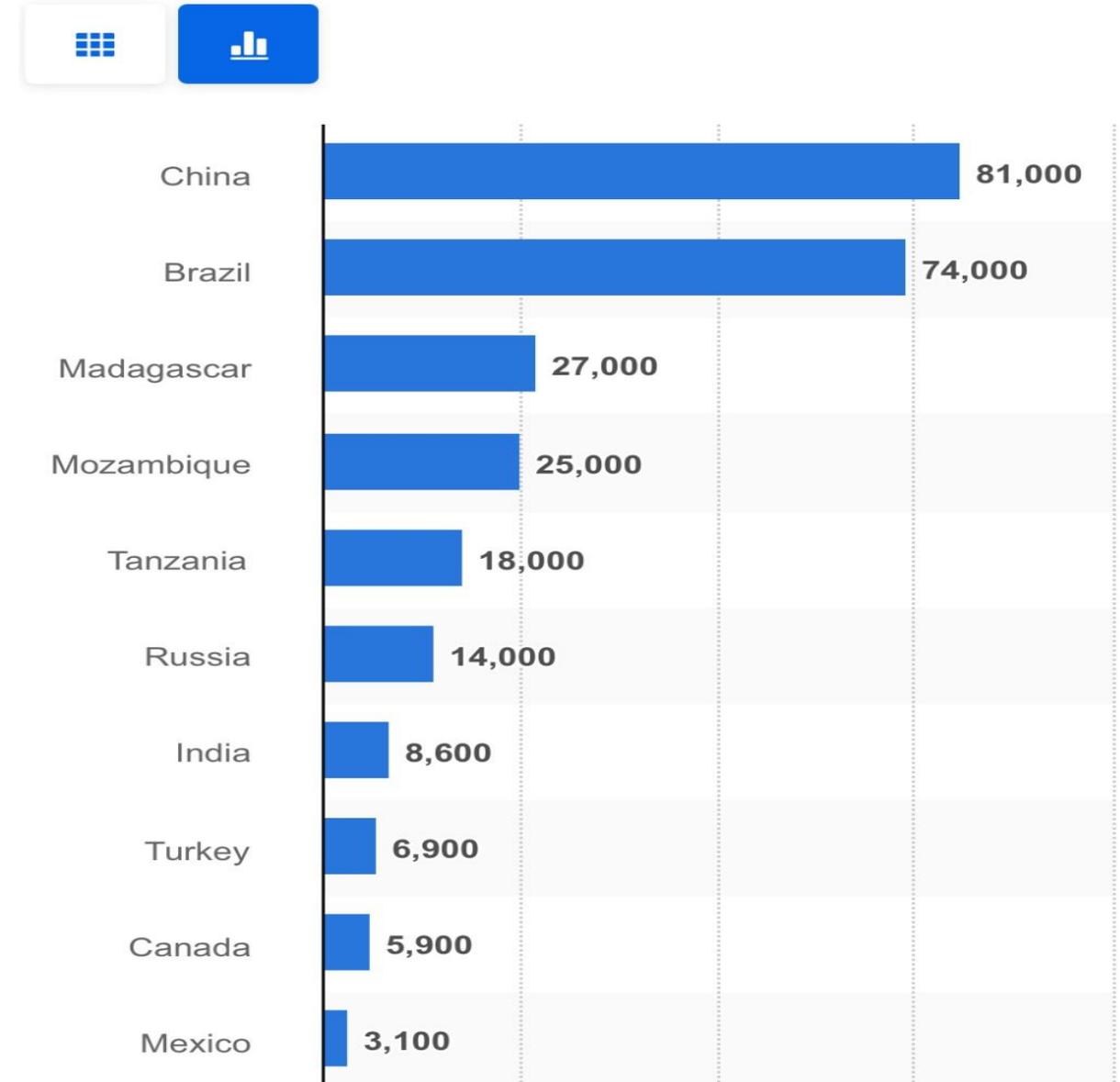
# Leading graphite producing countries worldwide in 2024

(in 1,000 metric tons)



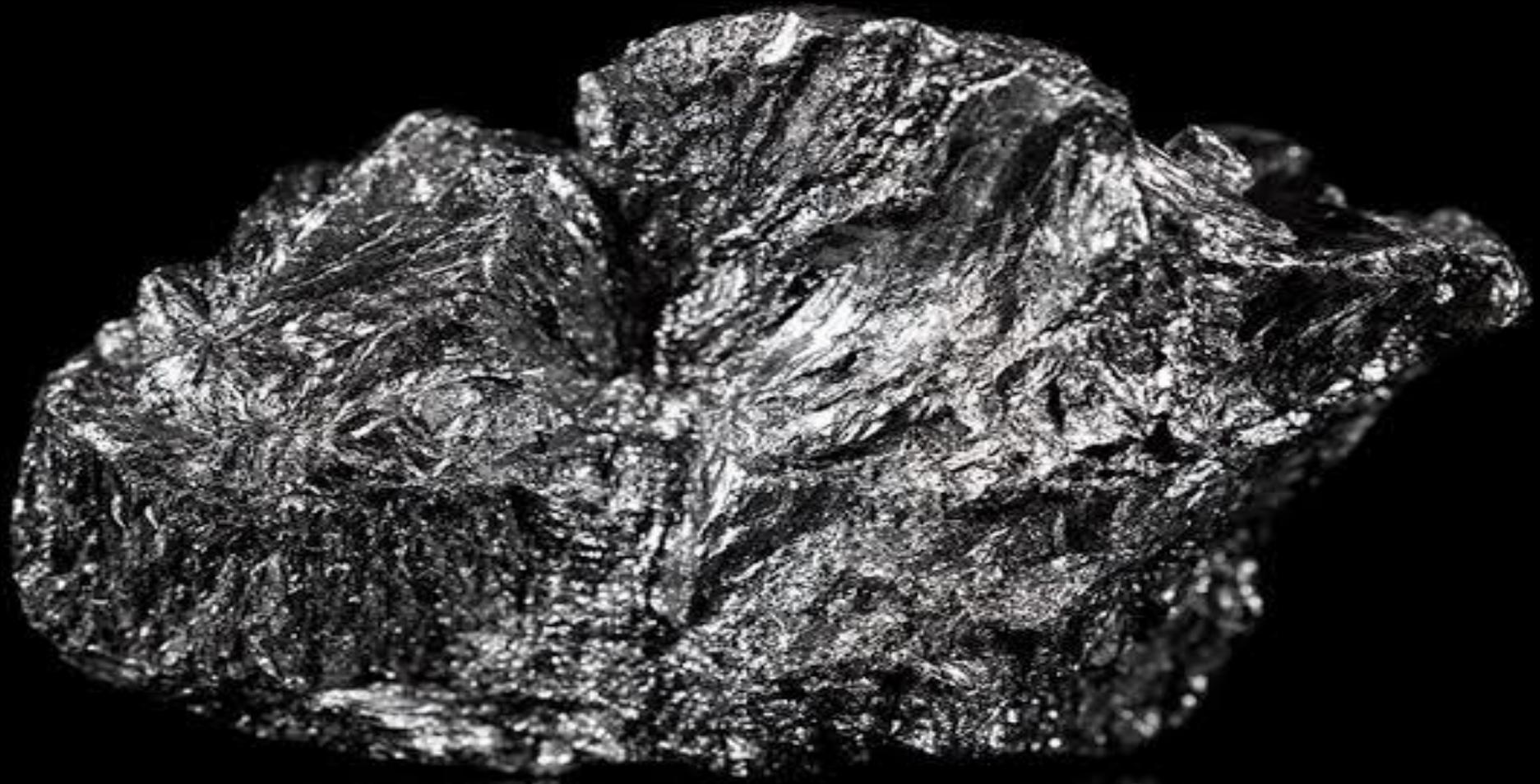
# Leading countries based on reserves of graphite worldwide in 2024

(in 1,000 metric tons)



## EARTHCON RESOURCES - GRAPHITE

- EARTHCON RESOURCES VIII, LDA WAS GRANTED PROSPECTING RIGHT 11534L ON 30<sup>TH</sup> JANUARY 2024 VALID TILL 30<sup>TH</sup> JANUARY 2029.
- THE LICENSE IS SITUATED WITH IN THE ANCUABE GRAPHITE MINERALIZATION BELT ADJACENT TO MAJOR GRAPHITE MINES (GK ANCUABE AND GRAFEX). AVERAGE GRAPHITE CONTENT RANGES FROM 8% TO 12% TOTAL GRAPHITIC CARBON (TGC)
- THE LICENCE IS LOCATED 70 KM FROM THE DEEP-WATER PORT OF PEMBA CITY AND IS EASY ACCESSIBLE BY NATIONAL ROAD NETWORK – N1.
- THE LICENSE HAS ENOUGH WATER SOURCE FOR EXPLORATION AND MINING ACTIVITIES BY EXISTING WATER CATCHMENT SITUATED WITH IN LICENSE AREA.
- THE LICENSE IS LOCATED NEAR NATIONAL MEDIUM VOLTAGE POWER LINE WHICH ENSURES EASY ACCESS AND RELIABLE ENERGY SUPPLY FOR FUTURE MINING ACTIVITIES.



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