



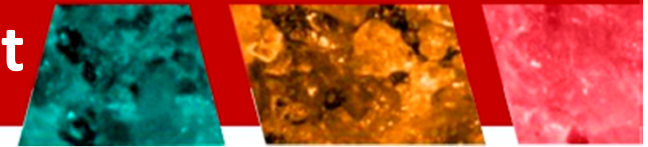
**9<sup>th</sup> - 11<sup>th</sup> February 2015**  
**Mining Indaba Presentation**

**ASX: MTA**

**Exploring for world class discoveries**

**[www.metalsofaufrica.com.au](http://www.metalsofaufrica.com.au)**

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# Corporate Snapshot



## Cherie Leeden - BSc Hons

### Managing Director

- Geologist
- Proven track record of discovering mineral resources (base metals, iron and coal)
- 13 years experience working for majors/juniors
- Predominantly African based and focussed for past 5 years



## Gilbert George - MEd

### Non Executive Chairman

- Experienced public company director
- >30 years international business experience
- Corporate funding experience in mining industry



## Brett Smith – BSc Hons

### Non Executive Director

- Geologist
- 25 years experience in exploration and resource definition
- Experienced public company director



## Andrew McKee

### Non Executive Director

- >30 years mining and corporate industry experience
- Experience in capital markets, project finance and venture capital
- Instrumental in several successful mine developments

3 ASX: MTA



## ASX code:

**MTA**

Share Price:  
as of 09 February 2015

**\$0.066**

Market Cap:  
12 week Range:

**\$8.54M**  
**A\$0.032- \$0.135**

Cash in bank:  
Current Shares on Issue:  
Current Options

**AUD\$2.95M**  
**129.4M**  
**57.8M listed**  
**20.3M unlisted**

Listed options  
(\$0.15; 07/01/2017)

Unlisted Options  
5M (\$0.25; 30/6/15)  
5M (\$0.40; 30/6/15)  
4M (\$0.25; 31/12/15)  
2.35M (\$0.15; 3/12/16)  
1.0M (\$0.26, 4/2/18)  
600k (\$0.168; 3/12/16)

SHAREHOLDER STRUCTURE  
Top 20  
Retail Shareholders

**%**  
**34.31**  
**65.69**

# MTA's flagship assets

## A focused, diversified exploration company

- ✓ Geographically diversified in politically stable coastal jurisdictions
- ✓ Exploring for ***the right commodities***
  - ✓ Zinc/Lead, Copper & Graphite
- ✓ Tier 1 exploration assets across the portfolio



### Mkindu, Tanzania (100%)

- Very large intrusive system
- Lamprophyre confirmed – test work underway

### Montepuez Project, Mozambique (100%)

- Graphite and vanadium at surface
- Maiden drill program intersected mineralisation
- Samples of 16.5% TGC and 0.3% V<sub>2</sub>O<sub>5</sub>
- Highly prospective graphite & vanadium Cabo Delgado Province (SYR&TON) with good logistics

### Balama Central Project, Mozambique (100%)

- Along strike and immediately adjacent to Syrah Resource's Balama graphite project
- 3km long VTEM target

### Rio Mazoe Project, Mozambique (80-100%)

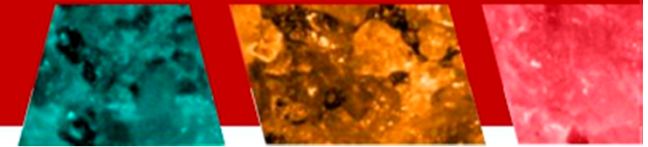
- Broken Hill style Zn-Pb-Ag mineralisation
- Drill intercepts of >20% Zn+Pb
- 1,448km<sup>2</sup> continuous landholdings
- Earning 80% on JV tenements

### Kroussou Project, Gabon (90%)

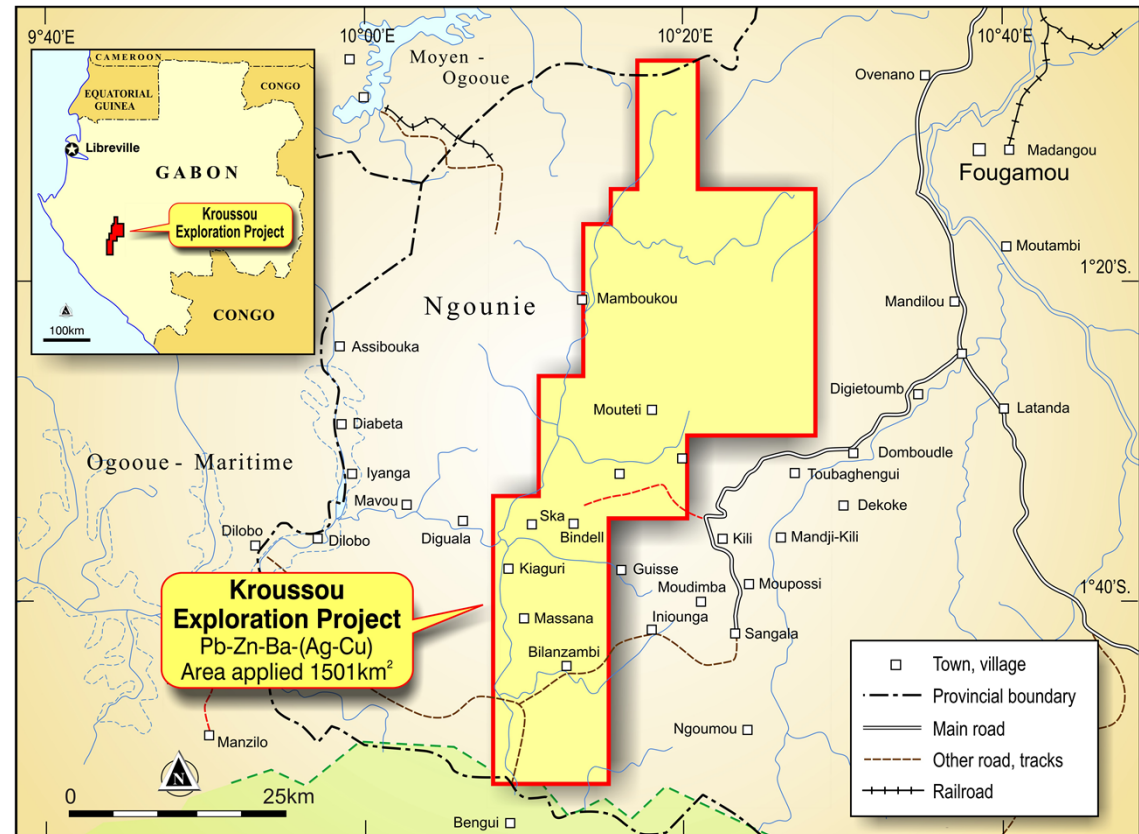
- Outcropping Zinc-Lead-Silver- Barite targets
- 85km of identified strike potential
- Portable XRF Niton confirm grades up to 35% Zn and 23% Pb



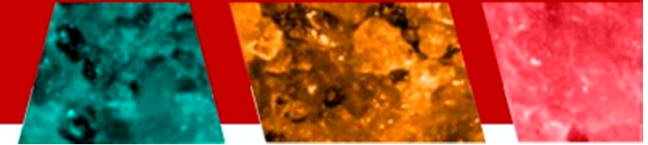
# Kroussou Project - Gabon



- High grade Zinc and Lead confirmed at surface
- >100 surface occurrences of zinc and/or lead mineralisation mapped
- Supply drop looming in lead & zinc to drive near term performance
- MTA is exploring for world class zinc deposits
- MTA has 90% equity  
(10% - Havilah Consolidated Resources is free carried by MTA for 2 years)
- Gabon experiences a dry season during East Africa's wet season
- Very good logistics (<250km from port)



# Kroussou Project - Gabon

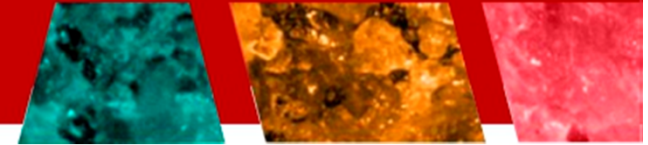


- Outcropping zinc – lead – silver – barite targets
- Mineralisation style said thought to be: Mississippi Valley Type or Lennard Shelf Type
- 1960's BRGM drilling intersected shallow zinc dominant Zn-Pb-Ag mineralised lenses – recent MTA reconnaissance field trip has verified this work and the project prospectivity
- XRF Niton (pXRF) results confirm high grade zinc and lead of;
  - up to 35 % zinc (Zn) and 23% lead (Pb) in outcrop
- Rock chip samples grade ranged from
  - Zinc 3.58% up to 38%
  - Lead grades ranged from 7.62% up to 23%
- Laboratory analysis is required to verify these results and 60 rock chip samples have been dispatched for analysis in South Africa



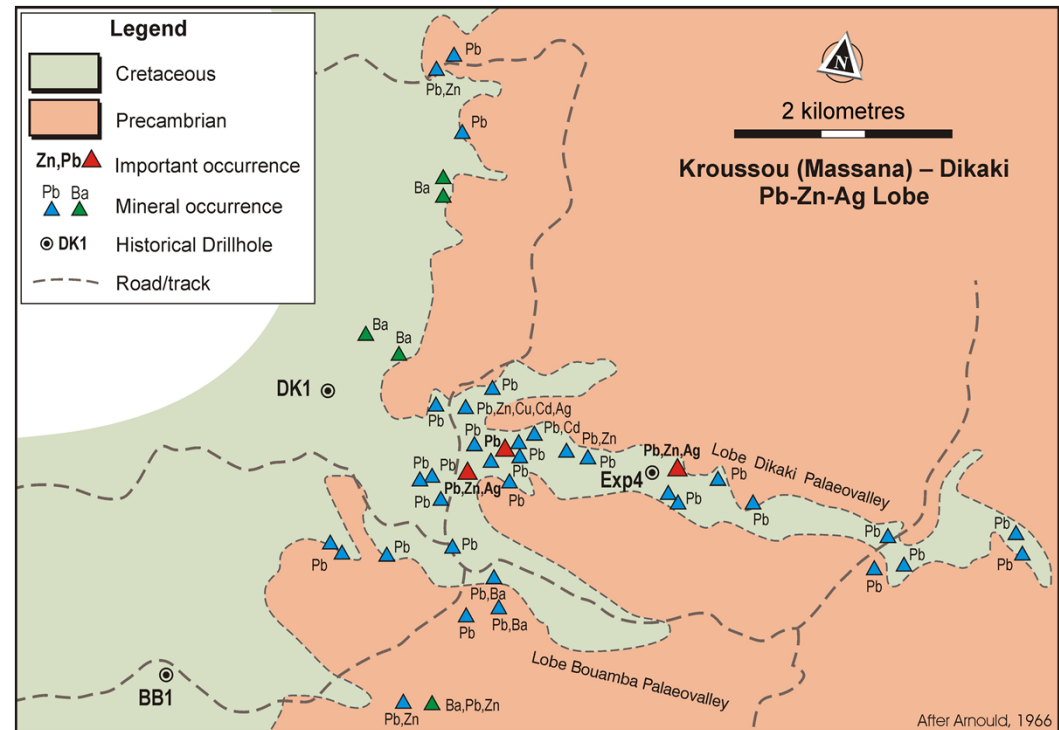
Photo (L to R): Disseminated galena (lead) and sphalerite (zinc) in silicified sandstone; Banded mudstone mineralised in zinc ; Disseminated galena (lead) mineralisation in conglomerate

# Kroussou Project - Gabon



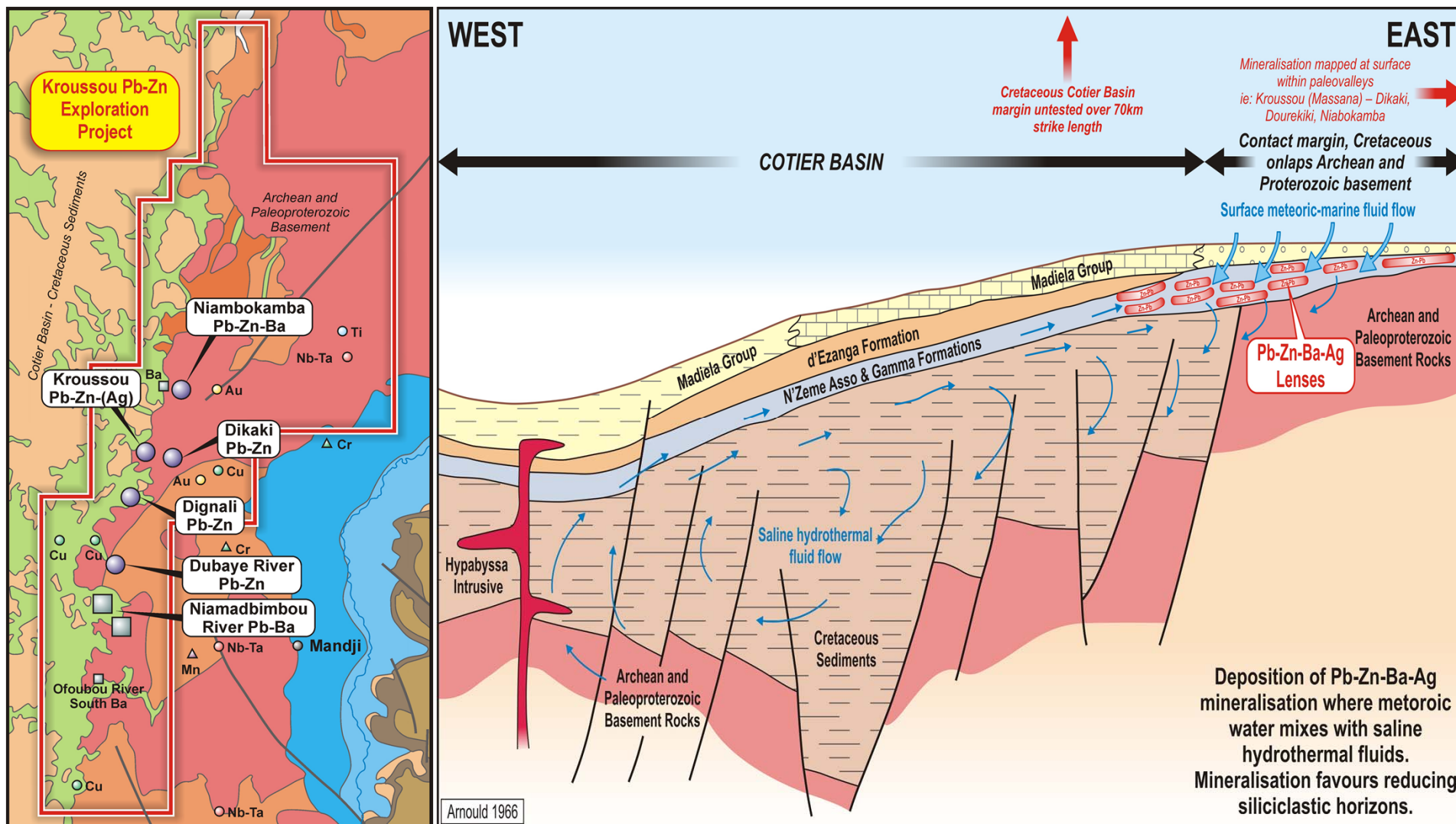
## High grade zinc & lead confirmed

- 5m wide mineralised horizon along a >3km strike length
- Shallow and at surface with multiple mineralised outcrops observed
- Under explored with 3km strike length confirmed across 85km of additional license area requiring follow up work
- Geology team currently in the field conducting geological mapping with the aim of defining drill targets for 2015
- Potential tier 1 asset



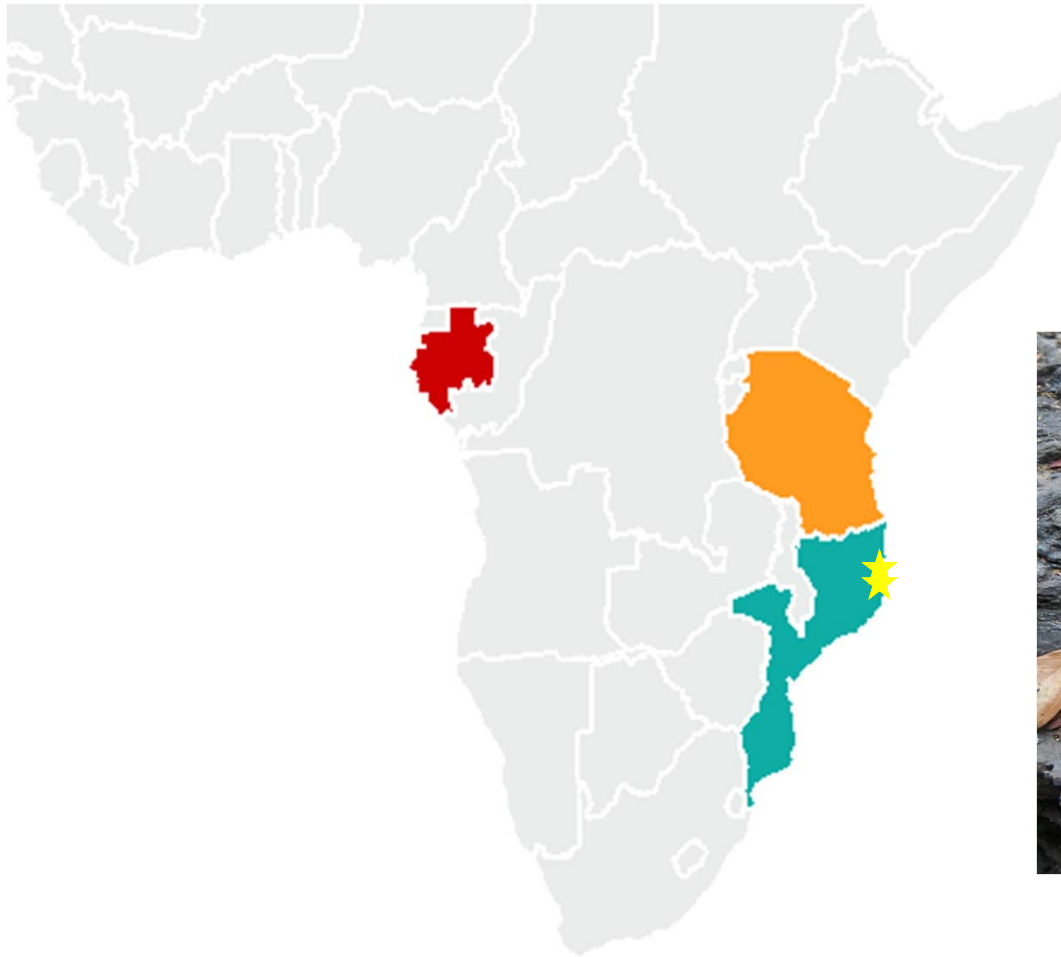
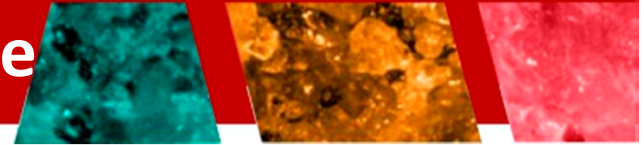
# Kroussou Project - Gabon

Geology (based on 1960's BRGM drilling)





# MTA's Graphite Projects - Mozambique

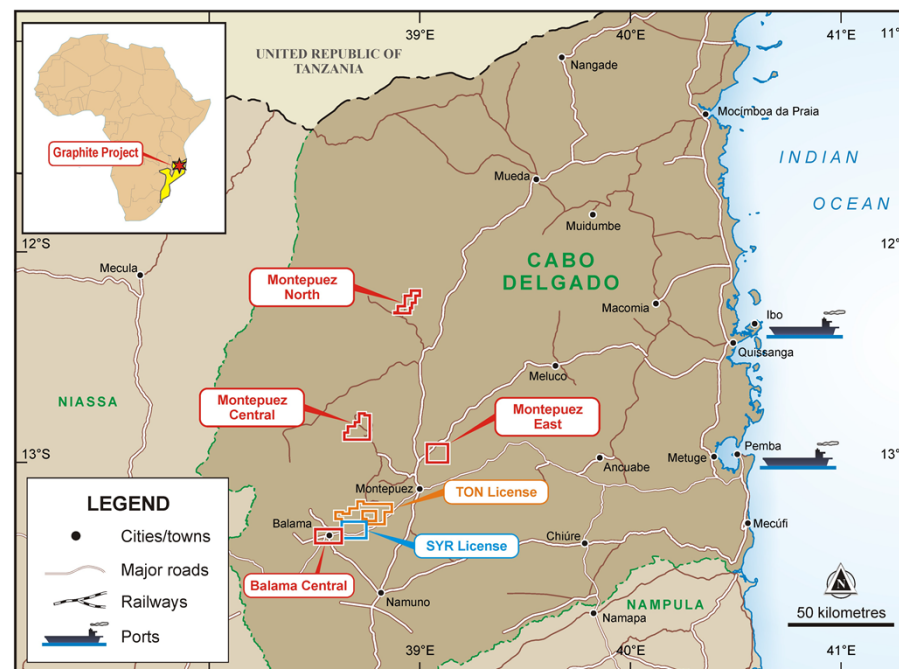


**Exploring Cabo Delgado – the world's richest graphite province**

# Cabo Delgado

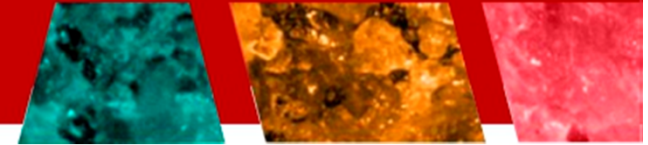


- **Cabo Delgado province hosts the worlds largest graphite deposits**
  - The Balama Graphite Resource (Syrah Resources Limited ASX:SYR); 1.15Bt at 10.2% TGC and 0.23% V2O5
  - Nicanda Hill Graphite Resource (Triton Resources Limited ASX:TON); 1.47Bt at 10.7% TGC and 0.27% V2O5
- **Excellent infrastructure**
  - sealed and well maintained road
  - close proximity of deep water port
  - existing water and power supply
- **All MTA projects are 100% owned**
- **Recently acquired Balama Central project**
  - immediately along strike of Syrah Resources neighbouring license
- **Abundant drill targets for 2015**

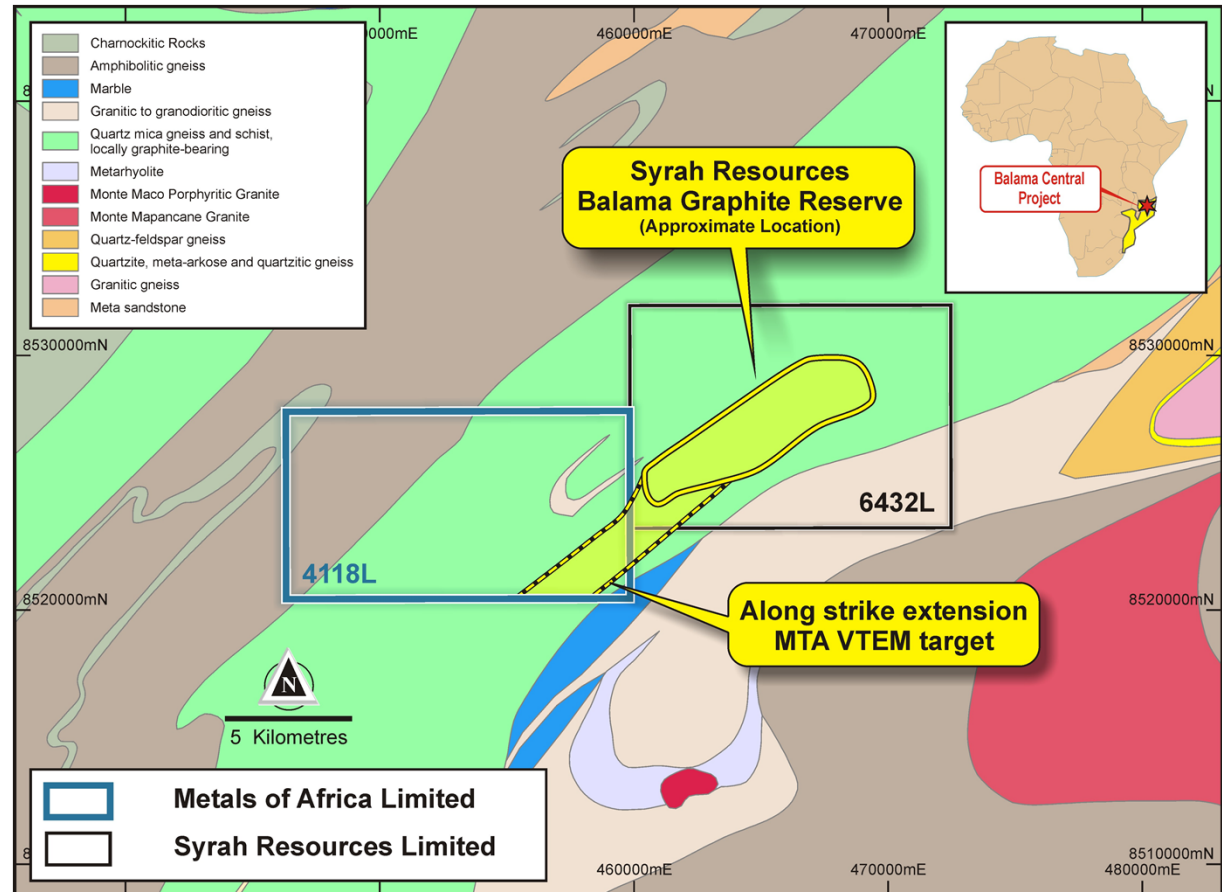


***There is currently more graphite in the Cabo Delgado province of Mozambique than the rest of the world's graphite resources combined***

# Balama Central Project

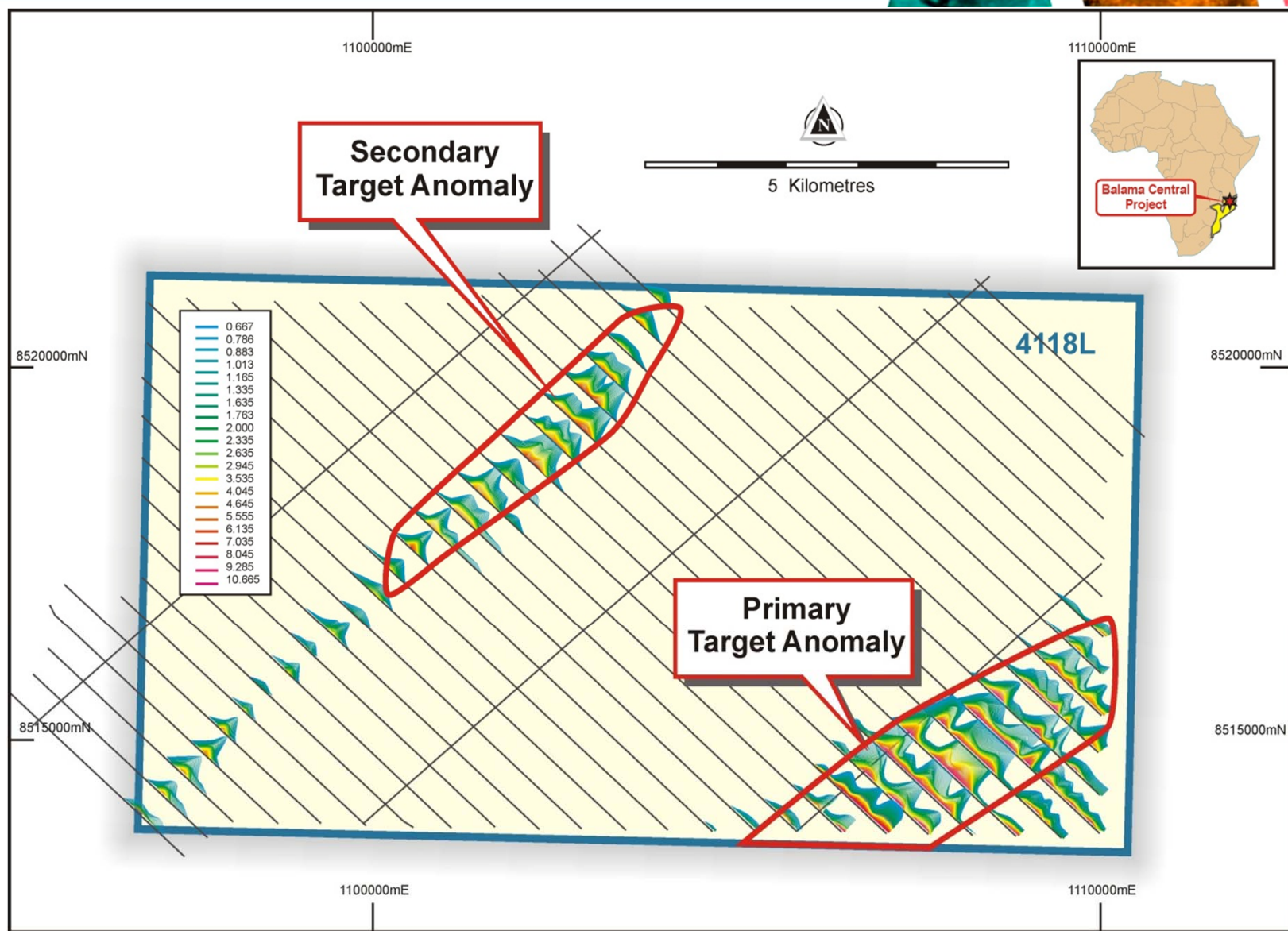


- Recently acquired the neighbouring license to Syrah Resources' Balama Graphite Reserve
- Recently flown VTEM survey indicates a strike extension of the neighboring SYR's Balama deposit into 4118, extending for approximately 3 km into MTA's Balama Central Project
- Drilling will commence after the wet season Q2, 2015





# Balama Central VTEM summary data





# Near term re-rating potential

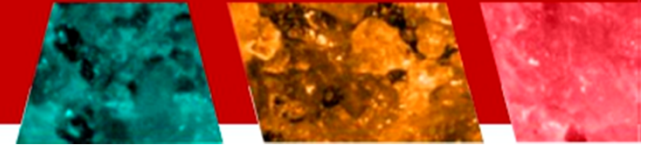


Code	SYR	TON	MTA
Project(s)	Balama	Balama North Balama South Ancuabe	Central Balama Montepuez
Sampling results	Up to 23.3% TGC (share price <b>\$0.79</b> , Apr 2012)	Up to 17.6% TGC (share price <b>\$0.06</b> , Nov 2013)	Up to 16.5% and 0.31% V <sub>2</sub> O <sub>5</sub> (share price <b>\$0.17</b> , Aug 2014)
Drill assays	287.5m at 10.1% TGC and 0.12% V <sub>2</sub> O <sub>5</sub> (share price <b>\$2.65</b> , Aug 2012)	14.7m at 18.7% TGC (share price <b>\$0.125</b> , Jan 2014)	? (results pending)
Resource	1.15Bt at 10.2% TGC and 0.23% V <sub>2</sub> O <sub>5</sub>	1.46Bn at 10.7% TGC and 0.27% V <sub>2</sub> O <sub>5</sub>	?
Current Share Price	\$3.77	\$0.155	\$0.067
Market Cap	\$618.8m	\$48.2m	<b>\$8.7m</b>

Source: IRESS market data, company announcements – updated 6 February, 2015

- Exploration to date shows potential for a discovery similar to that by Syrah Resources (SYR.ASX) and Triton Minerals (TON.ASX)
- Cheapest entry into an emerging world class graphite and vanadium province
- Enormous re-rating potential on the back of exploration success

# Montepuez Central Graphite Project



- Outcropping graphite bearing schist and gneiss – **grades of up to 16.5% TGC and 0.3% vanadium**
- **10 km long strong VTEM anomaly** is coincident with the outcrops of graphite
- A green mineral within the graphite bearing unit has been **confirmed as roscoelite** – a mineral containing vanadium. Large flake size has been correlated to the higher grade rock chip samples.
- **21 diamond drill hole 2,705m drill program completed in late December 2014**
- >40m wide mineralised zone intersected over a strike length of 800m (and open in all directions)
- **First assay results anticipated in mid February 2015, lab results will continue through to April**

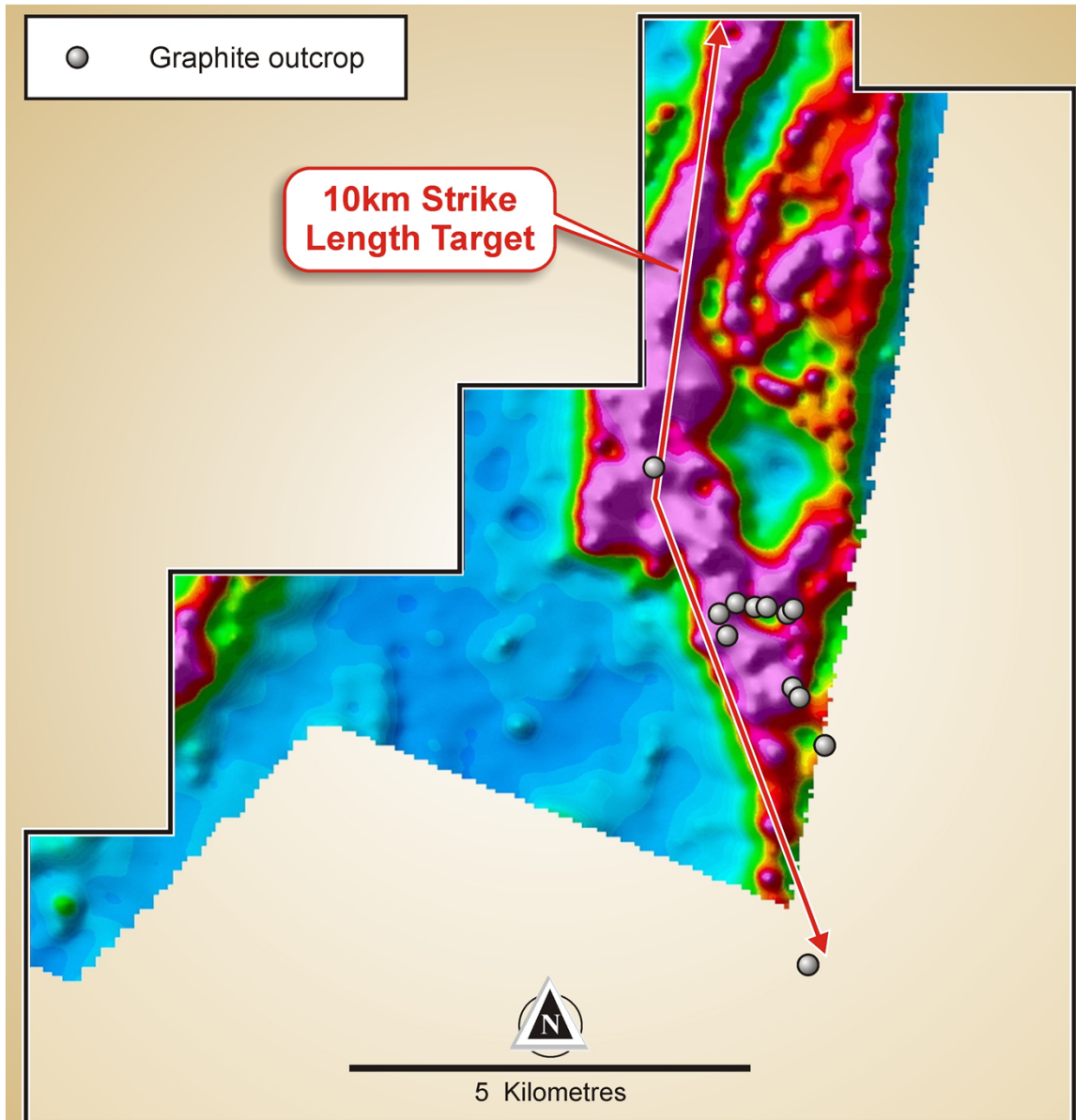
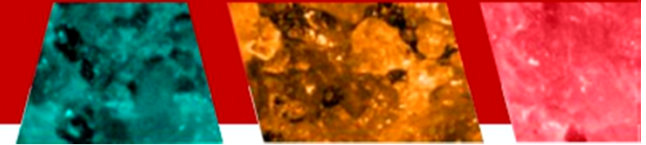


Graphitic gneiss containing 16.5% TGC + 0.3% Vanadium



Graphitic schist unearthed via trenching containing 13.7% TGC

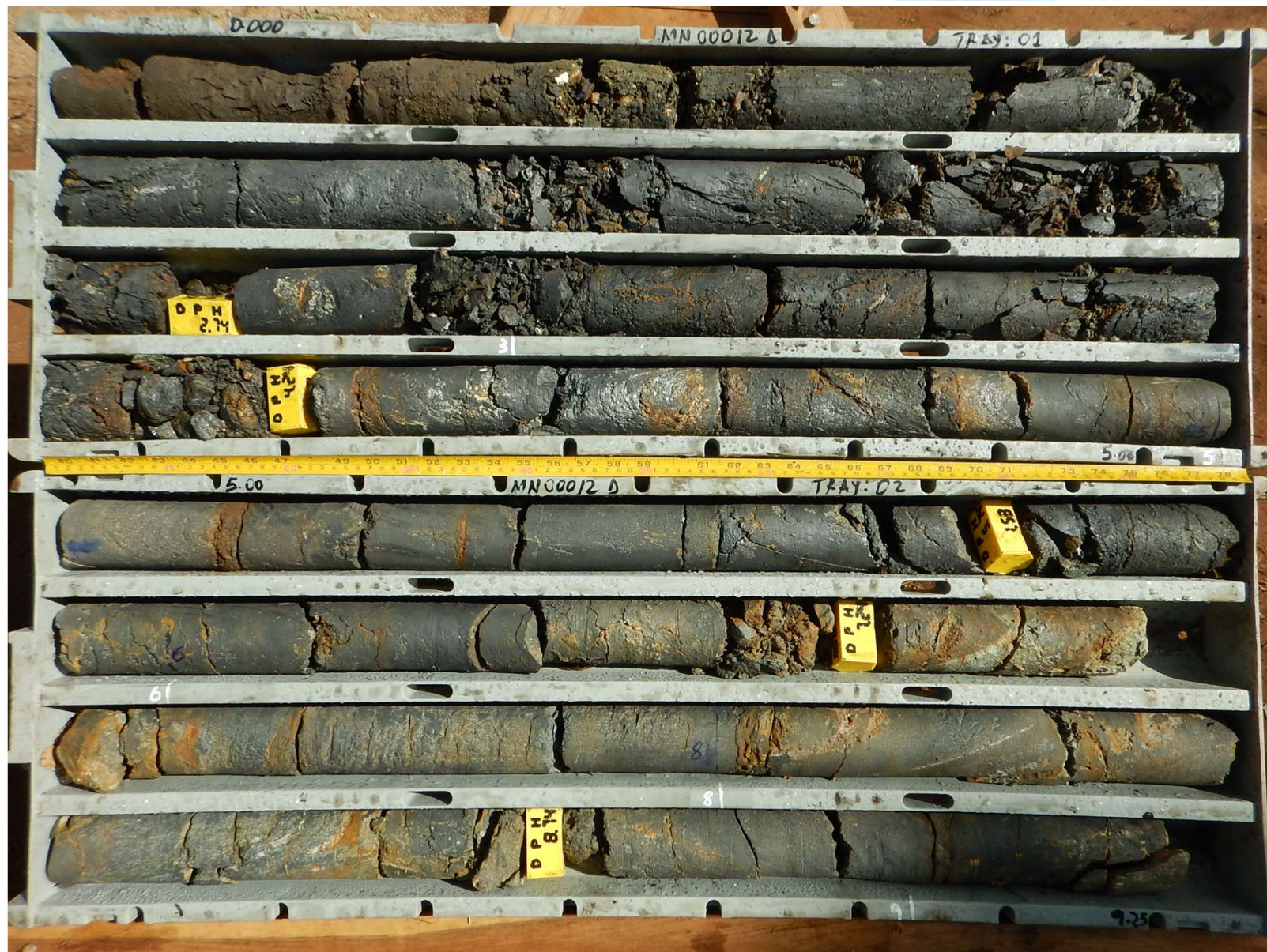
# Montepuez Central Project – VTEM target



- Very strong VTEM anomaly identified
- 10 km long and up to 2 km wide
- Interpreted to represent a graphitic unit – verified by drilling
- The geological system has been enriched with both graphite and vanadium
- Additional drilling is required to ascertain depth and grade potential 'sweet spots'
- Maiden drill program completed in late December 2014 – first assay results anticipated in late Q1, 2015

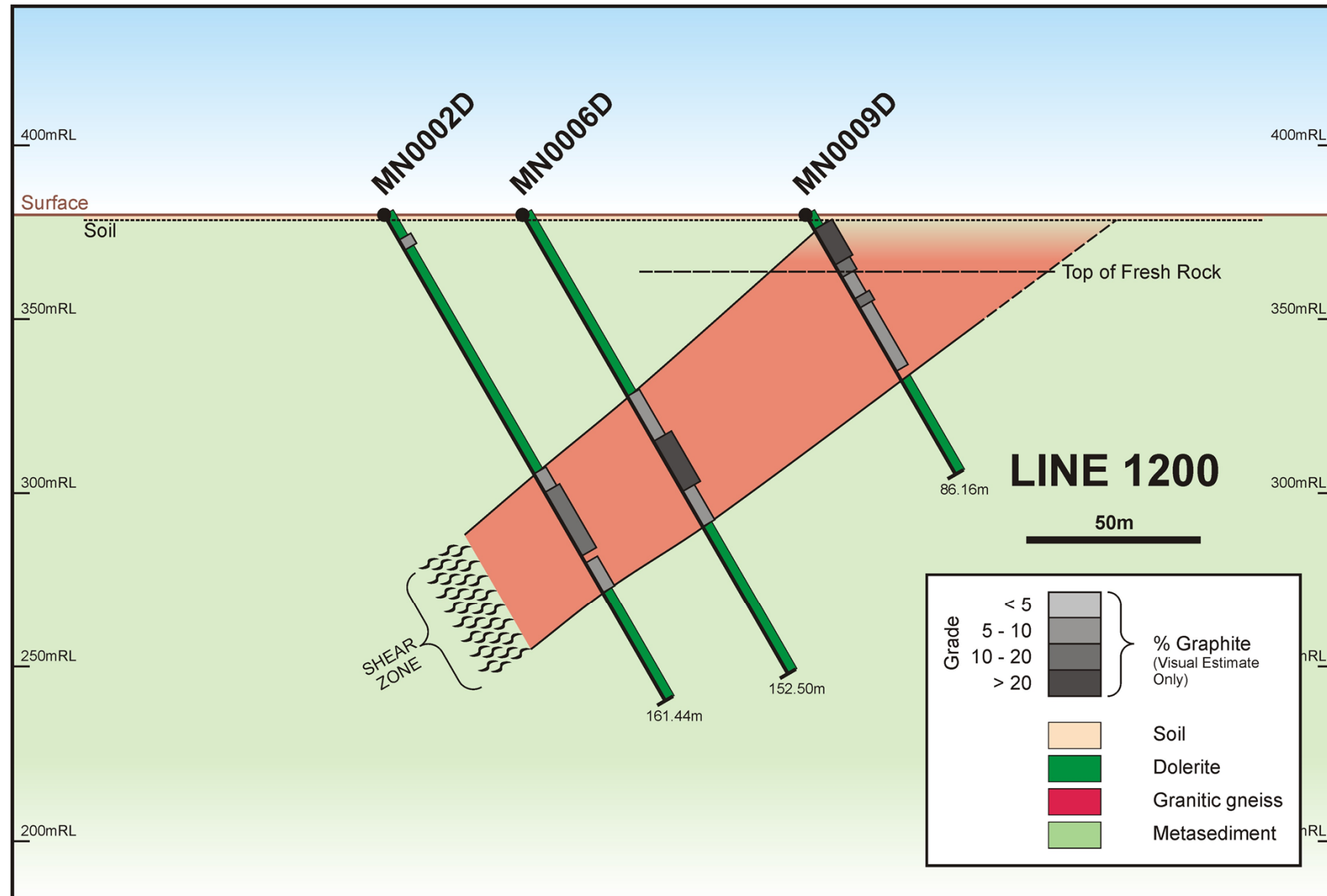
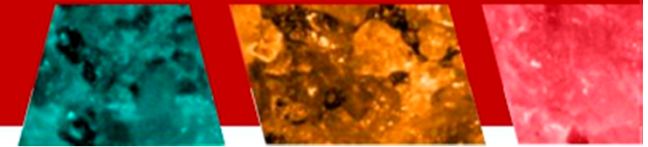


# Montepuez Central intercepts shallow graphite mineralisation





# Montepuez Central Actual Section



# Montepuez Central – Example of high grade graphite zone





# Rio Mazoe Broken Hill Type Project - Mozambique

Multiple prospects boasting high grade:  
**Zinc, Lead, Silver and Copper**

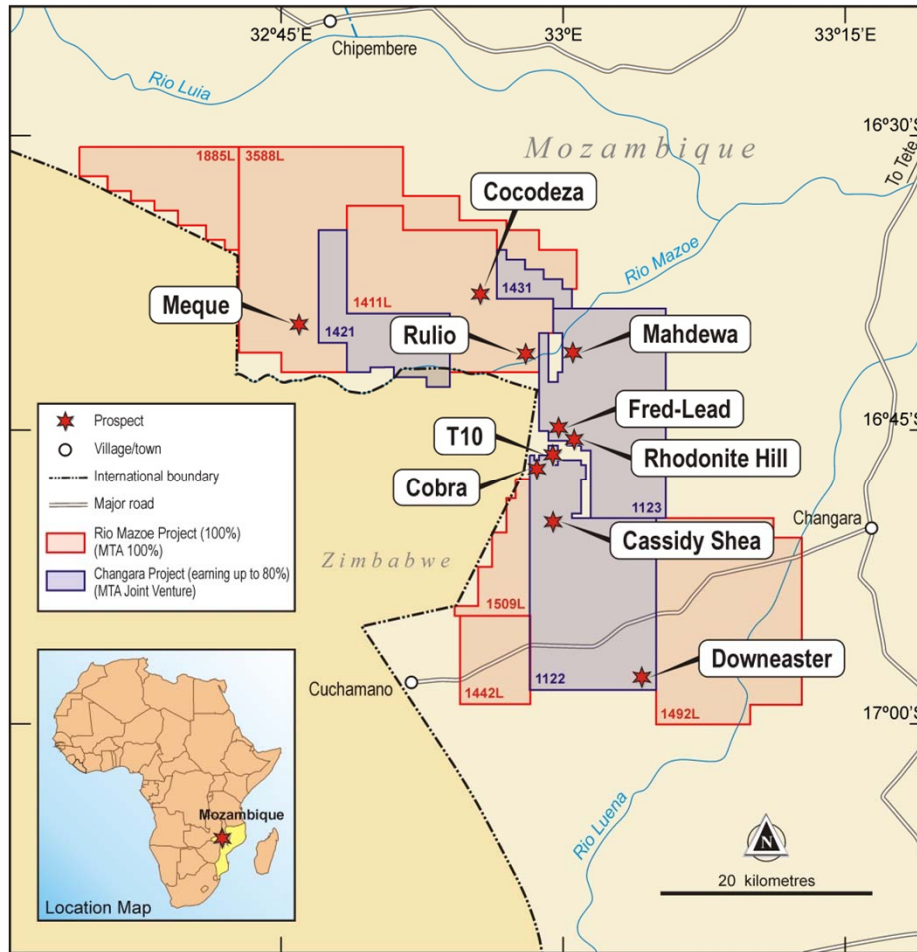
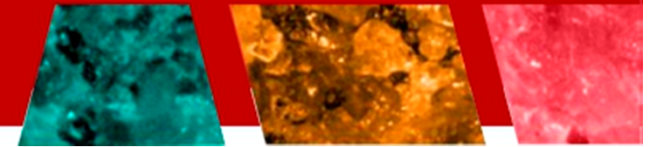


High grade lead-zinc drill core  
from the Meque prospect  
**>20% Combined Pb/Zn** over a  
1m wide interval  
(9.32% Pb + 10.81% Zn)  
Hole: RMZMQDD009 @126m  
Announced ASX 4 June 2013



MTA is seeking a funding partner for this project and is in discussions with two parties

# Rio Mazoe Project

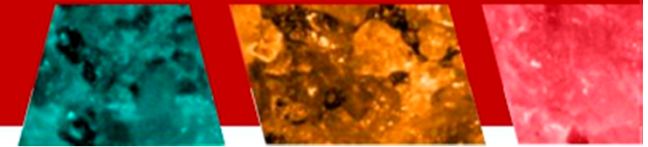


- MTA is exploring for Broken Hill Type (BHT) lead-zinc-silver deposits and drilling has proven the potential of the Rio Mazoe Project
- Located in world class BHT geological setting
- Boasts the key ingredients to host a potential BHT deposit, including the right:
  - ✓ Age of rocks (1600-1700 Ma), type of rocks (Quartzo-felspathic and pelitic sequences within the stratigraphy)
  - ✓ Metamorphic and tectonic setting;
  - ✓ Widespread Mn occurrences;
  - ✓ Indicator minerals including Mn-rich gahnite, garnetite and amazonite
  - ✓ High grade lead, zinc and silver mineralised occurrences at surface

**Massive contiguous landholding – Total area of 1,448km<sup>2</sup>**



# Rio Mazoe – seeking funding partner



- Advanced exploration project with approximately \$4m spent over the past two years
- Defined >30 base metal prospects based on a combination of geochemical sampling, ground geophysics and drilling at 4 of the prospects
- Rock types contain thick sequences of disseminated sulphides bearing copper and zinc mineralisation
- These types of rocks are common at Broken Hill proximal to the basal part of the system (Zinc Lodes)
- Multiple zones of outcropping Zn and Cu mineralisation are present which demonstrates its strong mineralised potential
- More drilling is required to test numerous prospects, including additional drilling at prospects that MTA has drilled
- Access and logistics are very good
- No communities or local inhabitants exist over the prospects

**More than 30 prospects remain undrilled yet highly prospective**

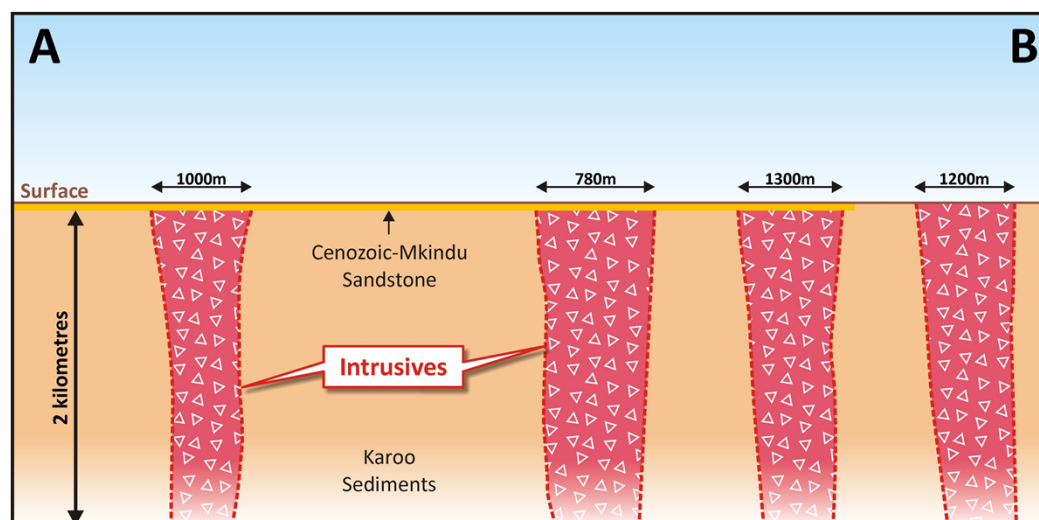
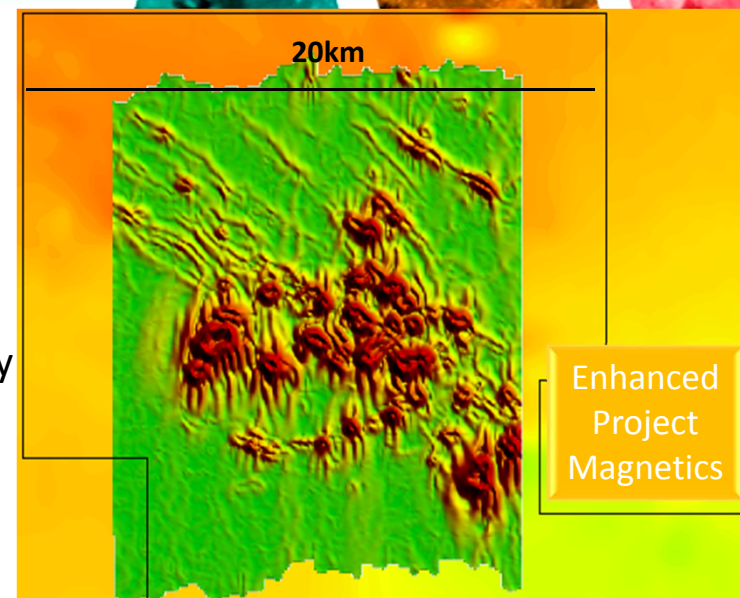
# Project pipeline example – multiple tier 1 exploration assets

## Mkindu Project (Tanzania)

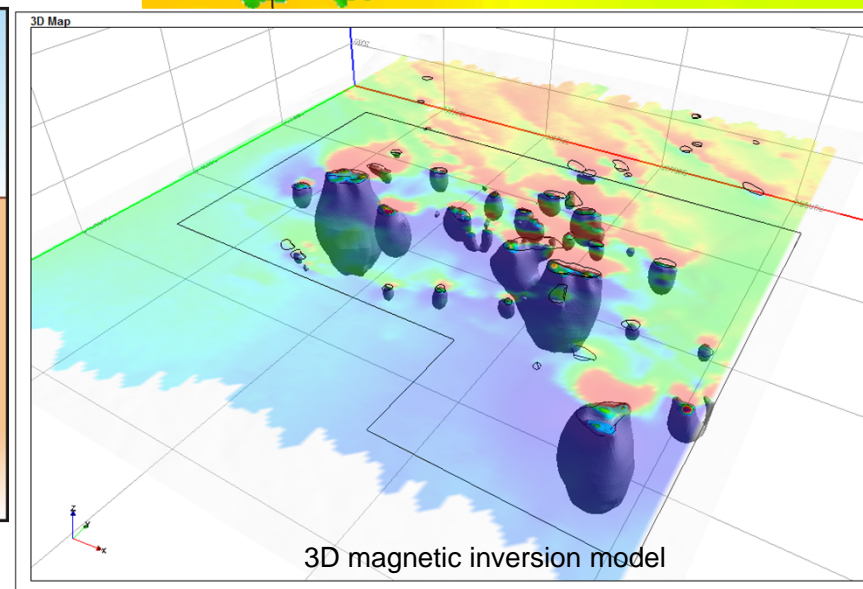
### A well defined large intrusive system

#### Geological Characteristics

- ✓ Deep intrusive system within rift setting
- ✓ Limited outcrop however lamprophyre confirmed on license, **presently testing for diamondiferous potential**
- ✓ Contacts are altered as indicated in airborne magnetic imagery
- ✓ An intrusive lamprophyre returned Cu 142 & 100ppm, Ni 230 & 174ppm, V 302 & 316ppm using pXRF on rock samples
- ✓ **Opportunity: test mineralisation associated with the very large intrusive system**

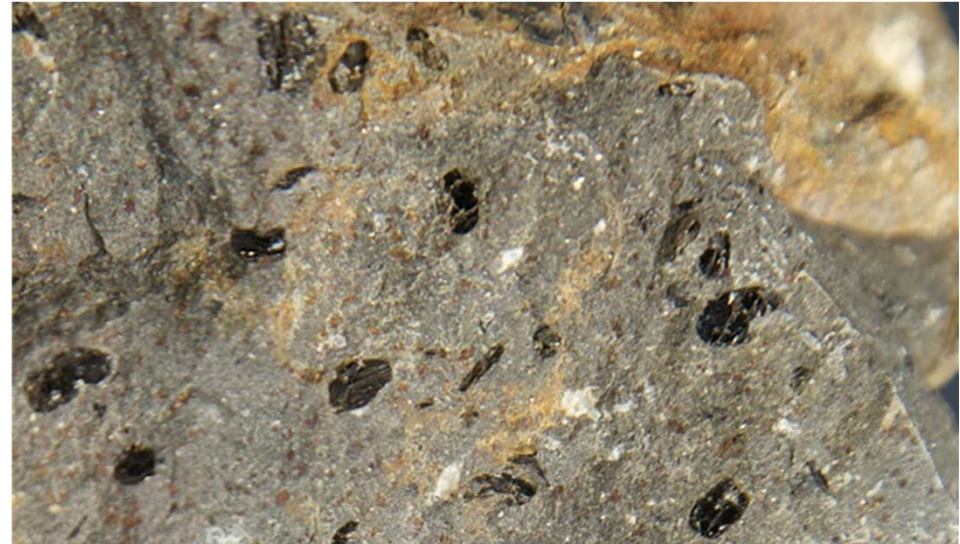
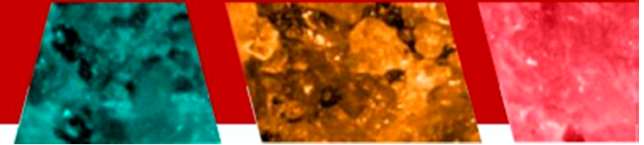


Simplified Mkindu cross section based on airborne magnetic data, geological mapping and historical petroleum bore holes.





# Mkindu – diamond pipe potential?





# 2015 – A big year for MTA



## **Montepuez Graphite Project**

- Q1 2015 – First assay results expected February, continuing to March/April
- Q2 2015 – Follow up drill program if required to define maiden JORC resource

## **Balama Central Graphite Project**

- Q2 2015 – First drilling program to commence

## **Kroussou Zn-Pb-Ag Project**

- Q1 2015 – Rock chip samples results, required work to defining drill targets
- 2H 2015 – Maiden drilling program

## **Rio Mazoe Zn-Pb-Ag Project**

- 1H 2015 – Discussions with potential JV/ farm-in partners
- 2H 2015 – Potential drilling

## **Project Pipeline (numerous projects and commodities)**

- 2015 – Low cost advancement whilst in discussions with potential JV/ farm-in partners

**Strong cash balance to advance exploration and drive shareholder value**



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**Contact Details**

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