



**METALS** of AFRICA  
LIMITED



## **New mineralised vein system identified at Rio Mazoe lead-zinc-silver Project, Mozambique**

### **ASX Announcement Metals of Africa Ltd**

**27 November 2013**

#### **Contact Details**

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#### **Capital Structure**

Shares on Issue 61,812,859  
Shares Trading 39,308,505  
Unlisted Options  
5M @ \$0.25; 30/6/15  
5M @ \$0.40; 30/6/15  
4M @ \$0.25; 31/12/15

#### **MTA Board**

**Gilbert George**  
Non Exec Chairman

**Cherie Leeden**  
Executive Director

**Brett Smith**  
Non Exec Director

**Steven Wood**  
Company Secretary

**ASX Code:** MTA

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

#### **Highlights**

- **Discovery of a third mineralised vein system at the Changara Project, within the Rio Mazoe Project**
- **Initial grades up to 8.2% Pb and 3,250ppm Zn returned from portable XRF analysis at the new Fred-Lead Prospect**
- **Stratigraphically hosted, anomalous Zn (>1,000ppm) zone in soil sampling over 1 km strike length adjacent to vein**
- **Soil sampling program to discover new mineralised prospects is ongoing**
- **Drilling at the Rulio Prospect continues on schedule**

Metals of Africa Limited (ASX: MTA) ("the Company") is pleased to announce the discovery of a new lead and zinc bearing epithermal vein at its Rio Mazoe Project in Mozambique.

The vein systems have been identified from surface exploration targeting Broken Hill type (BHT) lead (Pb)-zinc (Zn)-silver (Ag) mineralisation at the Changara joint venture project, within the wider Rio Mazoe project area. It is the third vein system discovered to date at the project.

Results of up to 8.2% Pb, 3,250ppm Zn, and 4,650ppm arsenic (As) were returned from Portable XRF analysis. Samples will be sent to Australia for laboratory analysis confirmation. Outcrops were discovered during infill soil sampling and assessment of targets generated by the initial, regional soil sampling program.

Lead mineralisation, in surface sampling, is a robust indicator of the silver-lead-zinc style of mineralisation being explored for at Rio Mazoe. In addition to the discovery of this new galena bearing vein, a zone of elevated zinc hosted by stratigraphy has also been identified further to the west.

This zone shows zinc values in excess of 1,000ppm over a strike distance of approximately 1 km. Initial assessment of this area will be aimed at identifying a high grade source for zinc elevation seen in regional soil sampling. This geological mapping work is planned to commence in the New Year.

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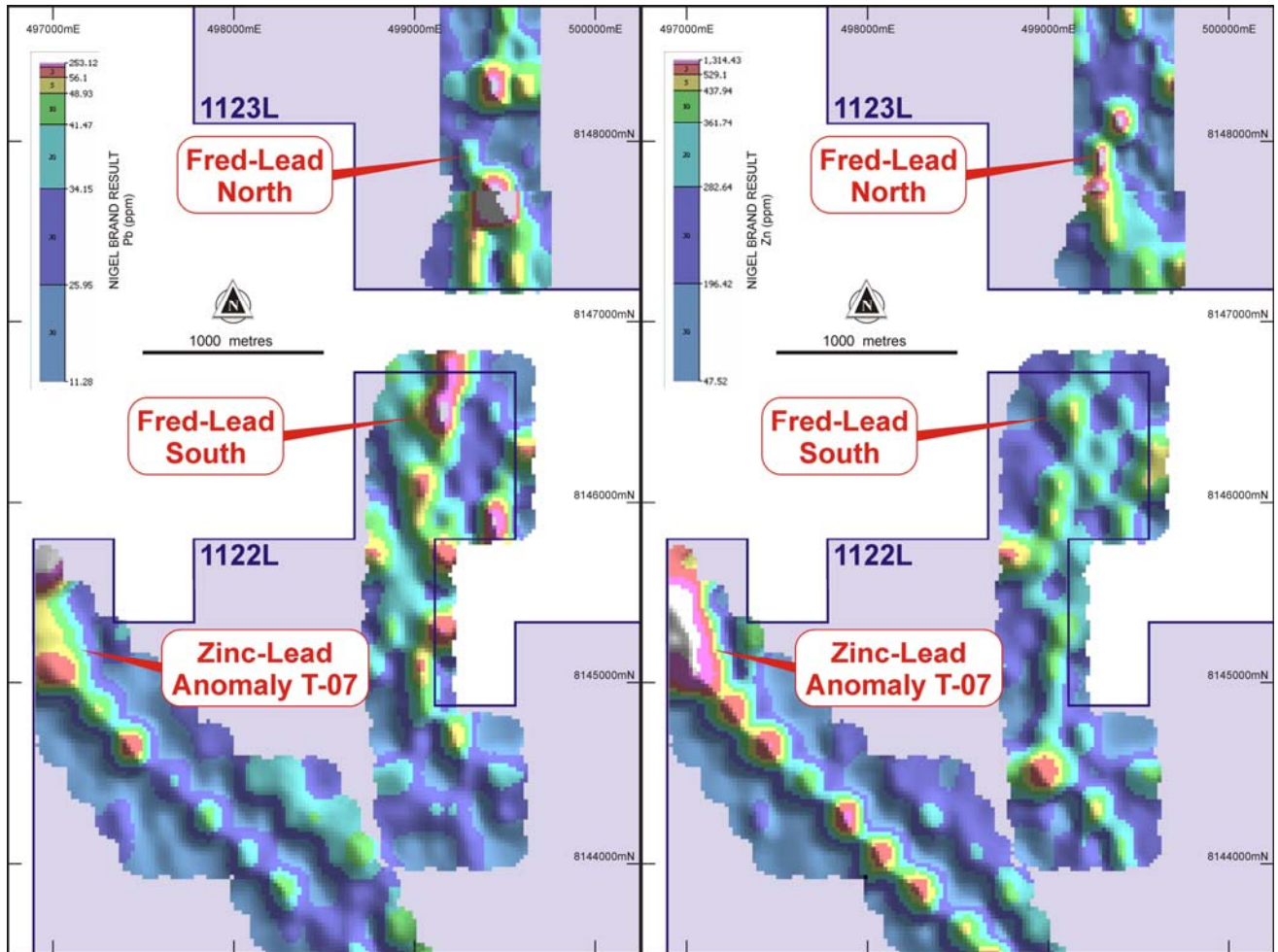
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**Figures 1 and 2. Geochemical maps depicting lead (left) and zinc (right) derived from detailed soil sampling (200m spaced lines, 25m spaced samples along the lines), illustrating the strike length and soil sample grades of the recently identified new Prospects.**

The new mineralised vein has been identified at two locations separated by approximately 700m. While the float nature of the vein makes it difficult to accurately assess strike direction, the general trend at both the Fred-Lead North and Fred-Lead South prospects correlate, indicating the outcrops belong to the same north-south trending structure. This is supported by similar mineralogical and textural observations of hand samples, and relationships with hosting units.

At both locations (Fred-Lead North and Fred-Lead South), the vein is dominated by epithermal quartz that shows a crystalline, comb structure and hosts abundant coarse galena crystals with minor fluorite,

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bladed carbonate replacement, and iron oxide staining in vugs. The vein occurs as float material with occasional subcrop and is hosted by granite-gneiss, arkosic quartzite, and a doleritic intrusive unit.

Where the dolerite unit occurs adjacent to the vein, brecciated clasts of this rock type are often seen intercalated within the vein. Portable XRF analysis returns up to 8.2% Pb, 3,250ppm Zn, and 4,650ppm As. Samples will be sent to Australia for laboratory analysis confirmation.

Soil sampling within the Rio Mazoe project is a cost effective method of defining new mineralised prospects and will continue until the commencement of the wet season (approximately mid-late December).

### **Rulio Prospect Drilling Update**

Diamond drilling at the Rulio Prospect to test the highly prospective BHT alteration assemblage identified over a 6km strike length (ASX announcement, 29 October 2013) is continuing according to schedule.

The down-hole electromagnetic (EM) survey team arrived onsite on 25 November and will test all drill holes for down-hole conductors.

The Company looks forward to providing further details to the market upon the completion of the drill program, which is scheduled for mid-late December 2013.

### **Epithermal Vein Samples**

*Figures 3 and 4: Hand samples of the epithermal vein displaying coarse galena and minor fluorite with intercalated dolerite clasts. These samples were collected from the Fred-Lead South Prospect.*



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**Figures 5 and 6: Hand sample of the vein collected from the Fred-Lead North Prospect. Similar to the southern outcrop, to the north the quartz vein hosts coarse galena and clasts of dolerite. Similar strike and host lithology relationships indicate the two outcrops occur along strike of the same vein.**



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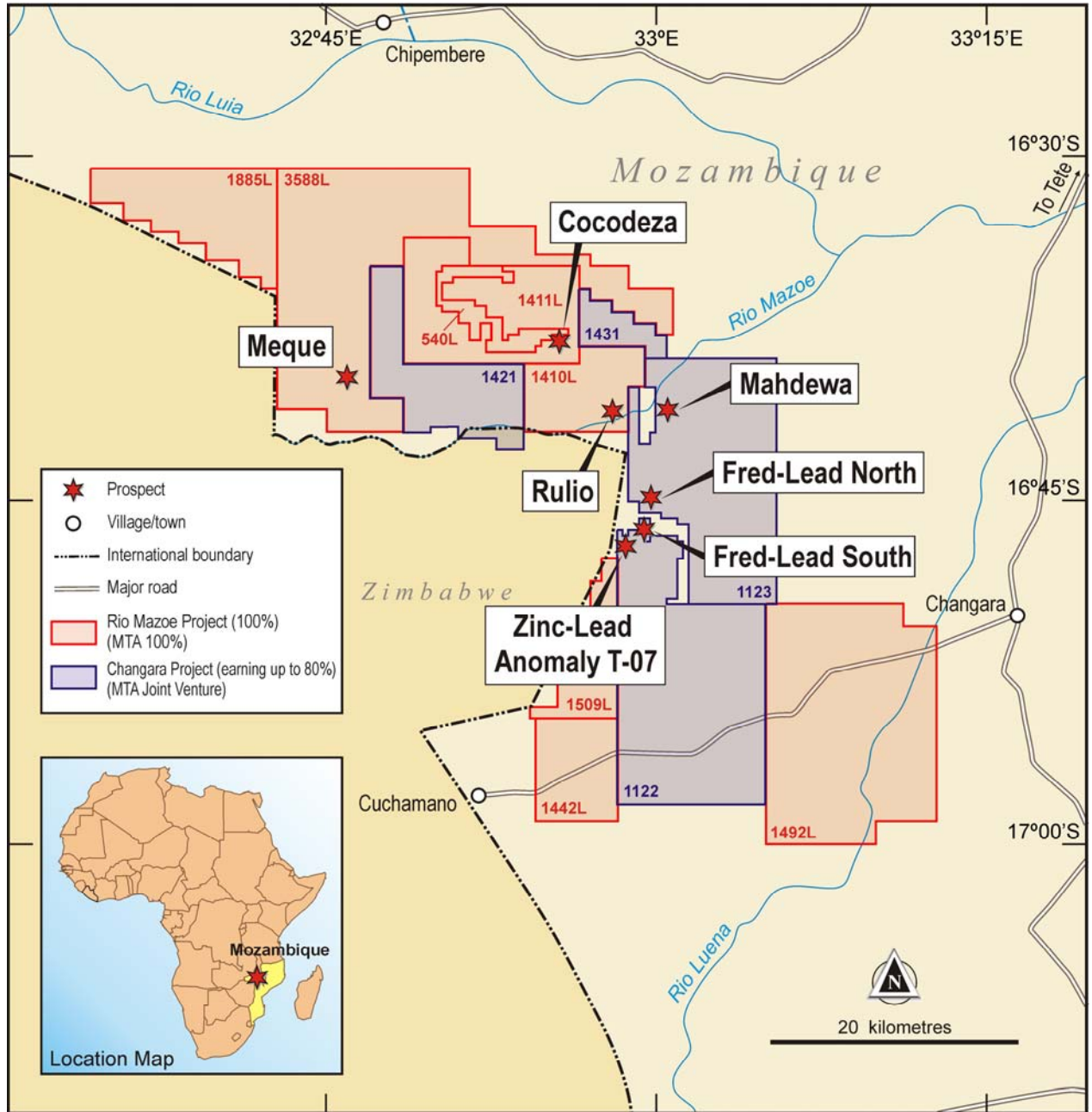
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**Figure 7. General location map illustrating tenure and main prospects.**



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**Competent Persons Statement**

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Ms. Cherie Leeden, who is Executive Director of the company. Ms Leeden is a Member of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2004 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Ms Leeden consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

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