



Ground Floor  
Suite 3, 16 Ord St  
West Perth WA 6005

T: +618 9486 1779  
F: +618 9486 1718

PO Box 1811  
West Perth WA 6872

W: [www.globemetalsandmining.com.au](http://www.globemetalsandmining.com.au)  
E: [info@globemetalsandmining.com.au](mailto:info@globemetalsandmining.com.au)

ABN 33 114 400 609

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ASX/Media Announcement

## Metallurgy Update – Kanyika Niobium Project

### Highlights

- Flotation optimisation testwork commenced
- Hydrometallurgical testwork commenced

### Flotation Optimisation Testwork

Mintek, the premiere South African specialist in mineral and metallurgical testwork, has commenced flotation optimisation work on a 1.5 tonne sample from Kanyika. This work is being carried out under the supervision of Thuthuka, as part of their bankable feasibility study (BFS) investment.

This testwork is intended to further optimise the flotation conditions, including reagent consumptions and specific flotation parameters, from the testwork conducted during 2009. This work resulted in the successful production of approximately 46kg of concentrate grading 26.0% Nb<sub>2</sub>O<sub>5</sub> from the initial 6 tonnes of feed material. Concentrate production work was conducted at Nagrom and Ammtec laboratories in Perth and at SGS in Lakefield, Canada. Spiral separation work was conducted at Nagrom, with flotation work conducted at both Ammtec and SGS Lakefield.

The final optimised flowsheet will form the basis for a BFS pilot plant later in 2010 as part of the BFS for the Kanyika Niobium Project.

### Hydrometallurgical Refinery Testwork

Thuthuka, using the Exxaro testwork facility, have commenced bench scale testwork for the hydrometallurgical refinery using concentrate produced during 2009. Significant delays had been incurred in commencing this next stage of testwork, due to delays in obtaining the requisite permits for the export of the radioactive concentrate from Canada into South Africa.

This testwork will define process conditions to produce oxides of niobium, tantalum and uranium and will form the basis for hydrometallurgical pilot plant testwork.

### About Globe Metals & Mining

Globe Metals & Mining is an African-focused resource company. Its main focus is the multi-commodity (niobium, uranium, tantalum and zircon) Kanyika Niobium Project in central Malawi. A Bankable Feasibility Study was commissioned in August 2009 and production is planned to commence in 2012 at a rate of 3,000tpa niobium metal, principally in the form of ferro-niobium. Mine life will be in excess of 20 years.

In August 2009 Globe announced that Thuthuka Group Limited (Thuthuka), a South African company, entered into a formal joint venture agreement to invest US\$10.6 million into the Kanyika Niobium Project to earn a 25% interest in the Project (as opposed to equity in the ASX-listed parent company).



The US\$10.6 million investment by Thuthuka will fund ~85% of the estimated cost of the bankable feasibility study into the Project.

Globe has a number of other projects in Malawi and Mozambique, which it manages from its regional exploration office in Lilongwe, the capital of Malawi. The Company has been listed on the ASX since December 2005 (Code: GBE), and has its corporate head office in Perth, Australia.

**For further information please contact:**

Mark Sumich, Executive Chairman, Globe Metals & Mining: +61 8 9486 1779

James Moses, Partner, Mandate Corporate: +61 420 991 574