

# Technology Metals Australia Ltd

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## Technology Metals Australia produces 99.53% purity vanadium in tests of Gabanintha ore

Technology Metals Australia Ltd (ASX:TMT) has achieved an impressive high purity 99.53% vanadium pentoxide (V2O5) in test work from the Gabanintha Vanadium Project in Western Australia.

Initial product generation tests have confirmed that the project is amenable to producing very high purity V2O5 using conventional salt roast/water leach processing.

This method has relatively low reagent consumption and does not require additional costly contaminant removal steps.

### "Very exciting achievement"

Managing director Ian Prentice said, "To achieve greater than 99.5% purity of V2O5 product from this phase of test work is a very exciting achievement for the company.

"I look forward to presenting these results to interested parties during my current visit to China."

Shares are up almost 14% intra-day to 59.5 cents.

Initial production generation test work was conducted by ALS Metallurgy Services under the supervision of metallurgical consultant METS Engineering Group Pty Ltd and was designed to generate final product for end-users.

The work was based on representative samples of the high-grade massive magnetite zone from diamond drilling completed in 2017.

It involved the precipitation of ammonium metavanadate and subsequent generation of high purity V2O5 from a composite sample of around 60 kilograms of high-grade massive magnetite mineralisation.

## READ: Technology Metals Australia drilling supports proposed mine plan at Gabanintha

The precipitate recovered greater than 98% of vanadium from a leach solution generated from salt roasting of the magnetic concentrate from Gabanintha.

Both the solution and final product produced from this work are regarded as extremely clean and low in solution impurities.

### Amenable to salt roast/water leach processing

Work has shown that magnetic concentrates produced from all zones of the massive magnetite and the fresh disseminated magnetite are amenable to conventional salt roast/water leach processing.

**Price:** 0.38

**Market Cap:** \$56.77 m

#### 1 Year Share Price Graph



January 2020 July 2020 January 2021

#### Share Information

**Code:** TMT

**Listing:** ASX

**52 week High Low**  
0.48 0.059

**Sector:** General mining & base metals

**Website:** www.tmtlimited.com.au

#### Company Synopsis:

Technology Metals Australia Ltd (ASX:TMT) has a primary exploration focus on the Gabanintha Vanadium Project located 40 kilometres south east of Meekatharra in the mid-west region of Western Australia.

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Magnetic concentrates delivered very high vanadium recoveries and rejection of gangue minerals from high-grade fresh and transition material and disseminated medium-grade fresh material.

Sub-samples of the high purity V<sub>2</sub>O<sub>5</sub> have been dispatched to a range of potential vanadium end-users to be independently assessed for relevant applications.



High purity 99.53% V<sub>2</sub>O<sub>5</sub> sub-samples packaged for dispatch to potential end-users. This is initially targeting the steel market as well as the emerging vanadium redox flow battery (VRB) sector.

The very high purity achieved also underscores the opportunity to target the speciality chemical and aeronautical industries, thereby providing scope to attract substantial premiums to the 98% V<sub>2</sub>O<sub>5</sub> pricing index.

### DFS progresses

Technology Metals is making significant progress with a definitive feasibility study (DFS) for Gabanintha and is on track to deliver it in the June quarter of 2019.

The DFS includes drilling aimed at expanding the indicated mineral resource within the global mineral resource estimate of 119.9 million tonnes at 0.8% V<sub>2</sub>O<sub>5</sub> and 9.7% titanium dioxide (TiO<sub>2</sub>).

Within this is an ore reserve of 16.7 million tonnes at 0.96% V<sub>2</sub>O<sub>5</sub> for 160,000 contained tonnes.

### READ: Technology Metals Australia's new tenement adds to billion-dollar vanadium potential

The team of experienced industry expert consultants is focused on delivering a high-quality outcome in a time frame to

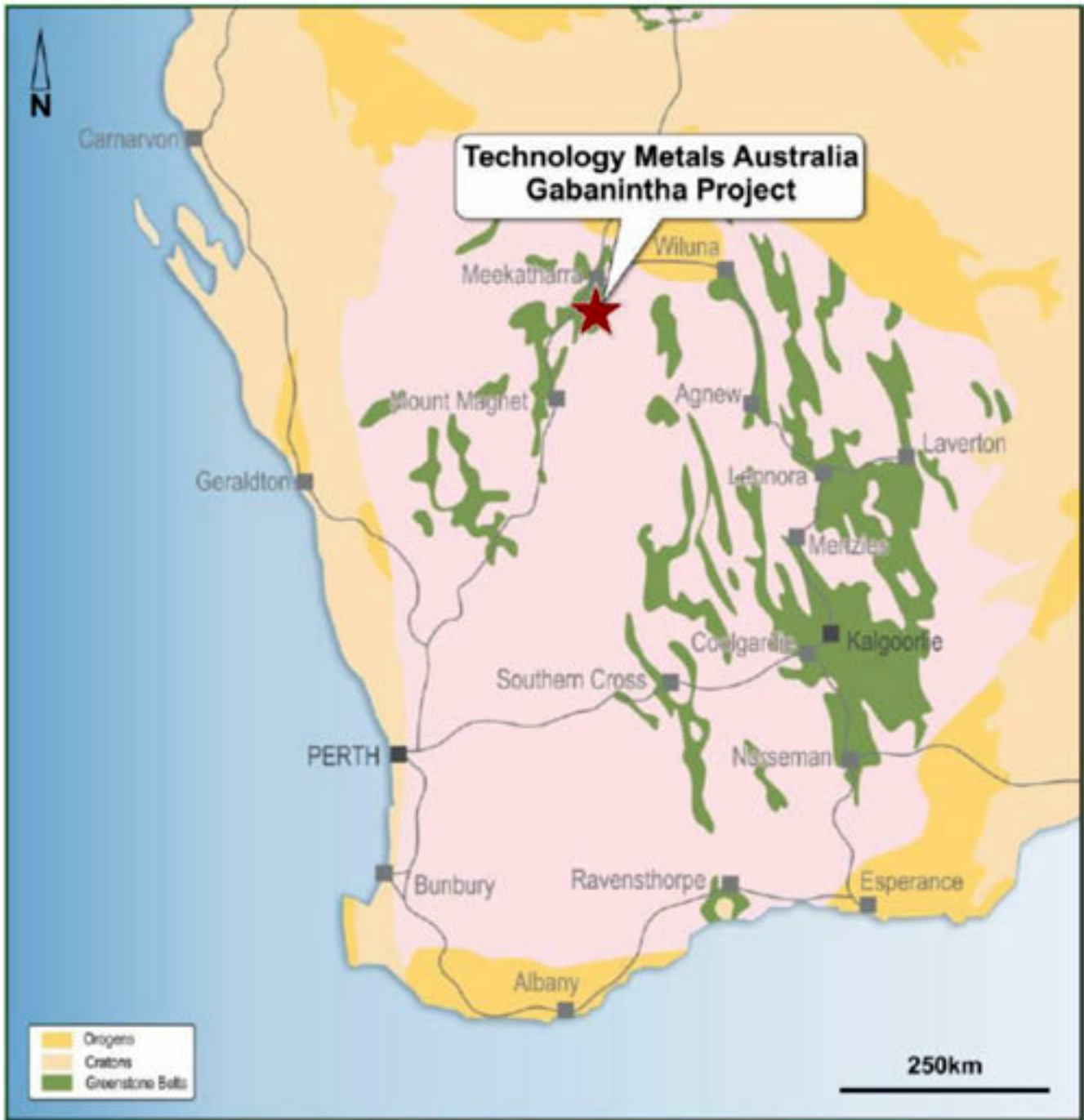
support rapid development of the project.

This team is being managed by Wave International as lead consultant supported by a range of industry leading consultants including METS Engineering, CSA Global and Integrate Sustainability.

### DFS schedule

Work completed to date includes:

- Progression of metallurgical test work, including work on generation of final product sample to provide to potential offtake partners;
- Investigation of local process water solutions;
- Progression of environmental and heritage studies in support of advancing mining lease grant and statutory approvals;
- Ongoing development of detailed process flow diagrams;
- Progress process plant engineering and design;
- Engineering concept designs for crushing circuit and stockpiling;
- Progression of development of site infrastructure layout plans;
- Commencement of design development for non-process infrastructure; and
- Issue of tenders for process plant vendor test work services.



The Gabanintha project is 40 kilometres southeast of Meekatharra in the mid-west region of Western Australia.

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