

The Rio Tinto logo is a red rectangle with the text "RioTinto" in white, sans-serif font. The background of the slide is a photograph of a large industrial laboratory or technical development center. In the upper part of the image, three flags are hanging from a yellow safety railing: the Australian flag, the Serbian flag, and the United States flag. Below the railing, several workers in high-visibility yellow and blue work clothes are working in a complex environment filled with industrial machinery, pipes, and equipment. The floor is marked with yellow safety lines. The overall scene is brightly lit, typical of an industrial facility.

Bundoora Technical Development Centre

The role of partnerships in delivering complex metallurgical projects

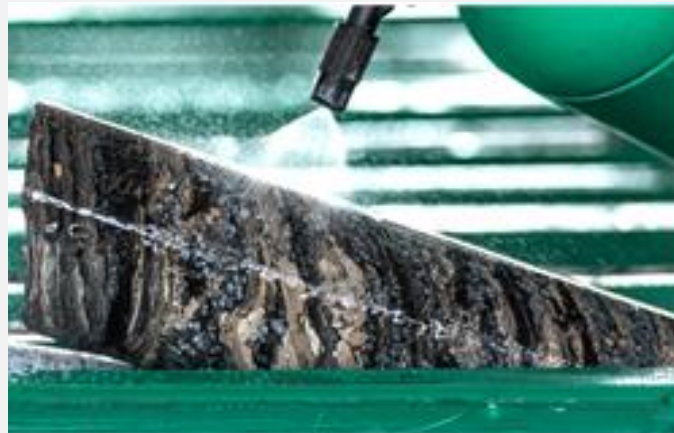
October 2021

Jadar

Greenfield Project



Unique mineral



Battery grade products



Technical Development with an implementation focus

Only central development laboratory within Rio Tinto for Group-wide multi-commodity support with a low barrier to entry for our partners

External view of the Bundoora Technical Development Centre



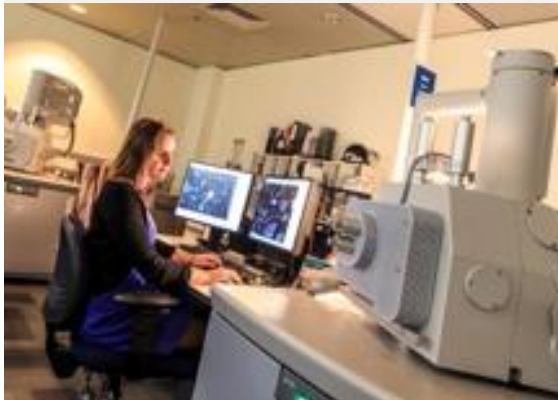
Column leaching facility



Jadar pilot plant



Advanced orebody characterisation



Sample preparation



Various pilot plants



Flexible test work areas



Our Core Capabilities

Our Purpose: Supporting growth and closure studies, orebody discovery and asset related process, water and tailings development and support work

Process Development

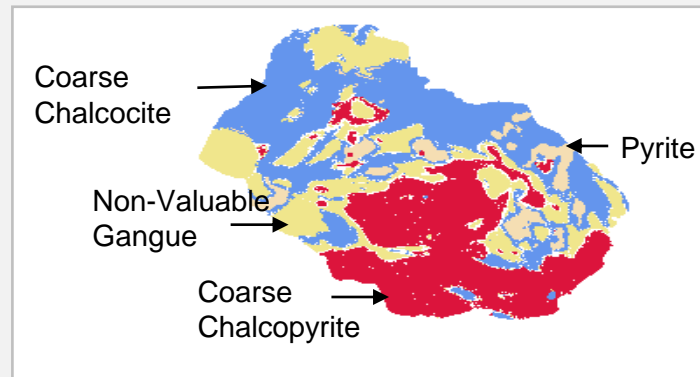
De-risking complex metallurgical processes, cross-commodity insights to process development



Leaching pilot plant (up to 300 tonnes)

Geometallurgy

Advanced characterisation techniques for orebody discovery and metallurgical insights



OBK via quantitative mineralogy

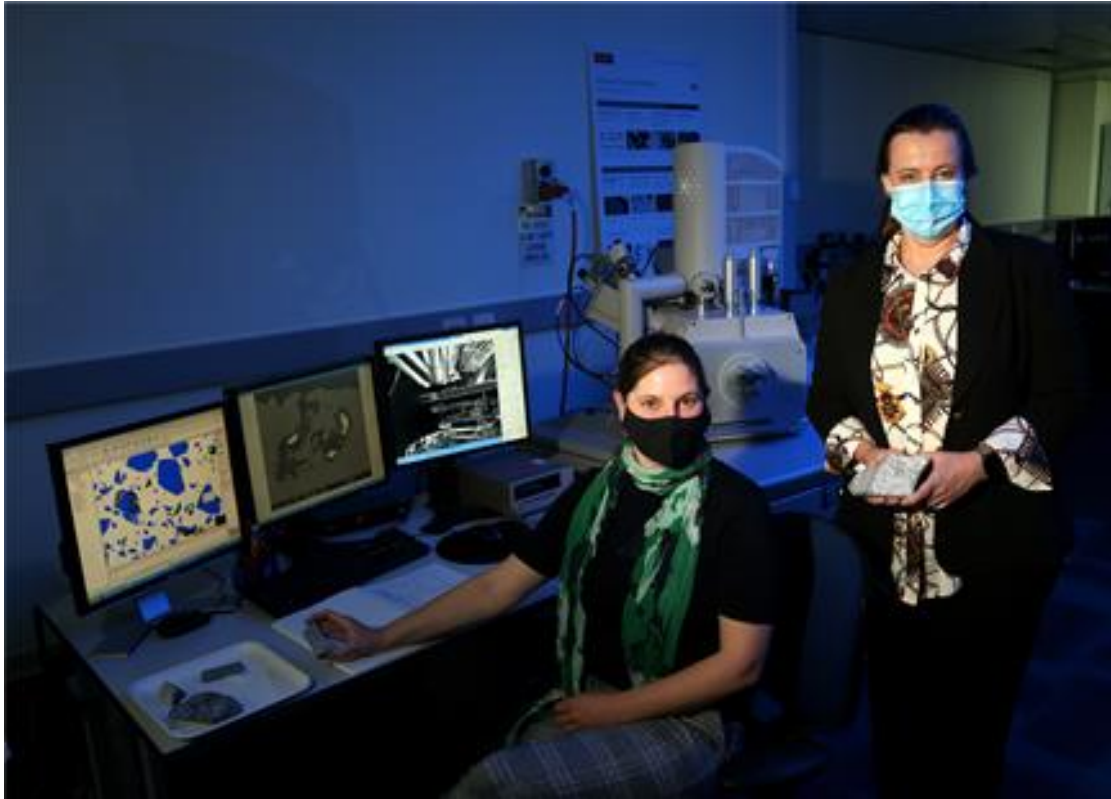
Water, Waste & Tailings

Innovative approach to water recovery, tailings disposal and dewatering costs, and minimising environmental impact/ footprint



Dewatering design and optimisation

We maintain our competitive advantage by continuing to develop these core capabilities





Process Development: New mineral, unique process

De-risking through orebody knowledge, testwork, modelling and partner engagement

Process Development

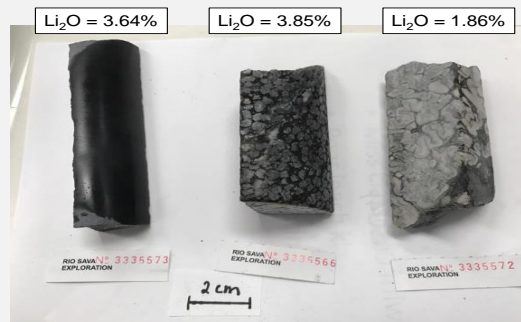
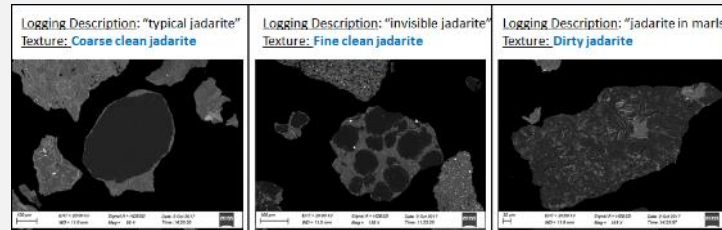
Process development approach includes:
Geometallurgy analysis, small scale testwork, continuous piloting, modelling, vendor tests, product refining



Bringing cross-commodity insights to process development

Geometallurgy

Unique minerals: metallurgical insights through advanced characterisation techniques



OBK: knowing where the Li is and how best to extract it

Water, Waste & Tailings

Tailings importance: rheology, consolidation and geochemistry properties for TSF design



Understanding the tails characteristics and site options

We supply materials essential to a low-carbon economy



B

Borates

A vital ingredient of energy-efficient building materials and fertilisers, which help to feed the world's growing population



Li

Lithium

Used in rechargeable batteries, powering green technologies



We supply materials essential to a low-carbon economy

Cu

Copper

Primary conductor in the world's electrical infrastructure

Al

Aluminium

Light, strong, flexible, corrosion-resistant and infinitely recyclable

Fe

Iron ore

Used in steel, the fundamental building block of industry and infrastructure

B

Borates

A vital ingredient of energy-efficient building materials and fertilisers, which help to feed the world's growing population

TiO₂

Titanium dioxide

Used in a wide variety of everyday products

Li

Lithium

Used in rechargeable batteries, powering green technologies