



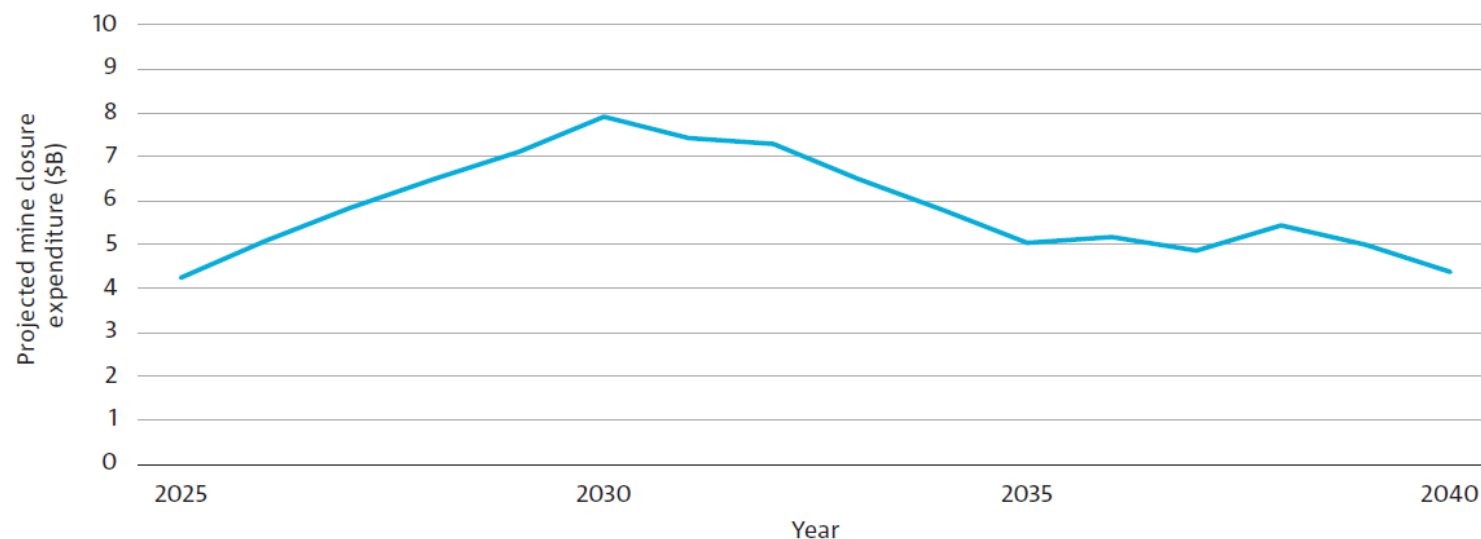
INNOVATION IN THE MINE CLOSURE SUPPLY CHAIN

DR GUY BOGGS CEO | 31 JANUARY 2024

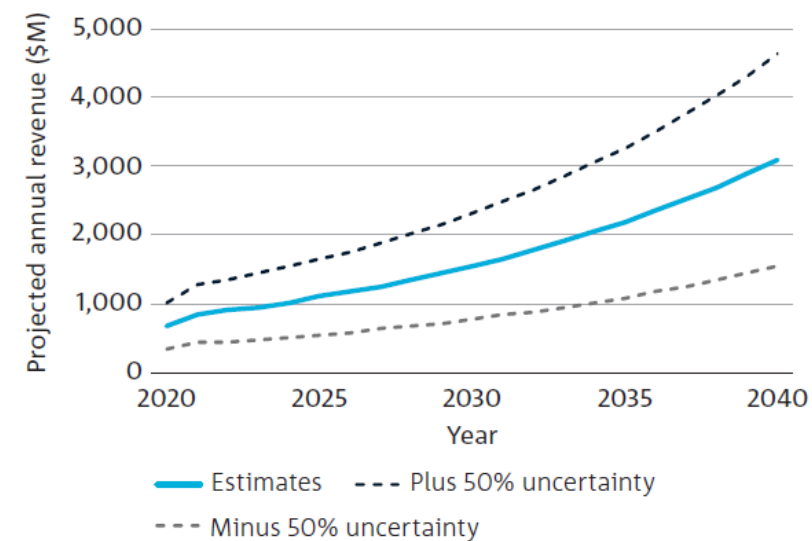
The value of the mine closure solutions industry

- Almost 240 existing mines expected to close around Australia by 2040.
- Expenditure on mine rehabilitation and closure activities could exceed \$4 billion each year; on-going and sustained expenditure on environmental remediation
- Significant opportunities for the existing METS industry, plant nurseries, drone operators, software developers, and so forth.
- Creation of business and employment opportunities for Indigenous and regional communities.

Projected expenditure on mine rehabilitation and closure activities



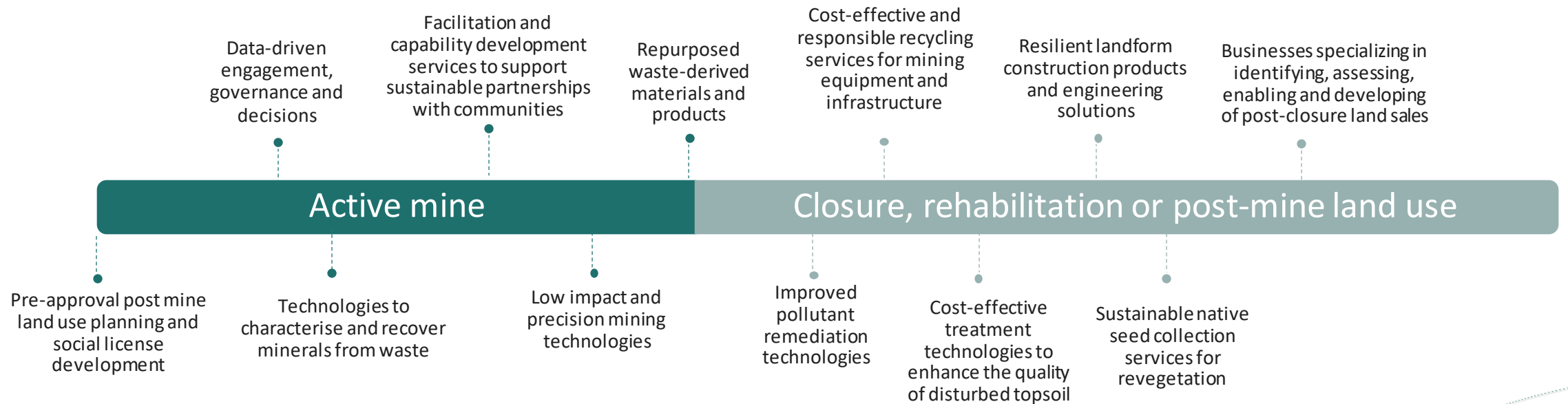
Projected annual revenue for Australia's mining environmental remediation market



Categories of mine closure solutions



Incorporating mine closure solution innovation into the life of mine



Waste reduction and resource recovery

Waste Reduction

Low impact and precision mining technologies

Repurposing mineral waste

Waste-derived materials and products

Resource Recovery

Technologies to characterise and recover minerals from waste

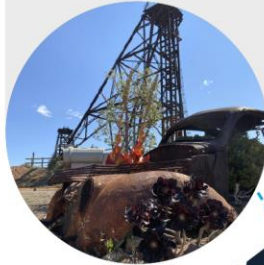
Recycling non mineral waste

Cost effective & responsible recycling services for mining equipment and infrastructure

Innovation In Post Mine Economic Use

Hannans North Tourist Mine Kalgoorlie, WA

Historic gold mine converted into a visitor attraction and educational site.



Clean energy hub Kidston, QLD

Gold mine under transition to develop renewable energy generation and storage site with solar, wind and pumped hydro technologies.

Image: Genex Power



Woodlawn Eco-Precinct Tarago, NSW

Open-cut mine pit converted into a bio-reactor landfill creating bio-gas to fuel a power generator. Site also holds aquaculture facilities, solar and wind farm.

Image: Veolia



Lake Kepwari Collie, WA

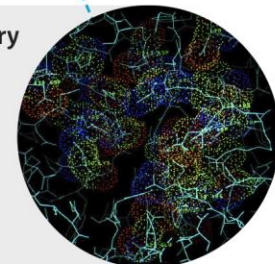
Recreational lake that was created from conversion of a coal mining pit via local river diversion.

Image: CRC TiME



SUPL: Stawell Underground Physics Laboratory Stawell, VIC

Laboratory located in an operational gold mine 1km underground, where conditions are optimal for research into dark matter, neutrinos and geoscience.





THANK YOU

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