



Mineral Resources

GOAL

 Deliver science and technology options for the discovery and efficient development of Australia's mineral resource endowment that enable flow-on benefits to the wider national economy.

IMPACT AREAS

- Growing Australia's resource base
- Increasing productivity
- Driving environmental performance
- Positioning resources in society

IMPACT STATEMENTS

- Exploration through cover:** Mineral discovery through cover: Exploration investors in Australia are more successful as new regions of Australia's bedrock, currently hidden under cover, are effectively explored.
- Rapid resource characterisation:** In-situ resource characterisation to enable optimum extraction: Global resource companies characterise mineral resources in near real time using new sensor and data processing technologies to reliably predict downstream process optimisation and improve resource life.
- Intelligent mining and ore management:** Intelligent ore extraction technologies to exploit variability: Global mine operators exploit inherent orebody variability through new mining and ore management technologies that improve productivity and reduce input costs.
- Processing Australian ores:** Processing options for competitive Australian ores: Australian mineral producers are globally competitive and currently stranded Australian mineral resources are developed using new processing options.
- Responsible metal production and recycling:** Low water and energy metal production and recycling options: The global mineral industry increases the efficiency of metal production through the deployment of new technologies.
- Minesite environmental performance:** Environmental solutions for Australian mining: The Australian mining and services sector leads the world in the long term rehabilitation and utilisation of minesites leading to sustainable long term regional ecosystem outcomes and strong community support.
- Resources in society:** Sustainable resource communities: Communities and the mining industry have a shared approach to maximise value and long term outcomes to underpin a vibrant national economy.

ROLES

INTERNAL PROGRAMS



OTHER BUSINESS UNITS



ROLE KEY
 = Lead  = Support

- PROGRAMS**
- Discovering Australia's Mineral Resources
 - Processing Australian Ores
 - Intelligent Mining and Resource Management
 - Resources, Community and Environment
- OTHER BUSINESS UNITS**
- Agriculture
 - Data61
 - Energy
 - Manufacturing
 - Chile International Centre of Excellence
 - Earth Observation Informatics TCP
 - Land and Water
 - Oceans and Atmosphere