

Collaboration and Innovation; breaking down barriers in geoscience and mineral discovery

Dr. Helen Degeling Director, Minerals Geoscience Geological Survey of Queensland





GLENCORE



demetallica



Australian Government
Geoscience Australia

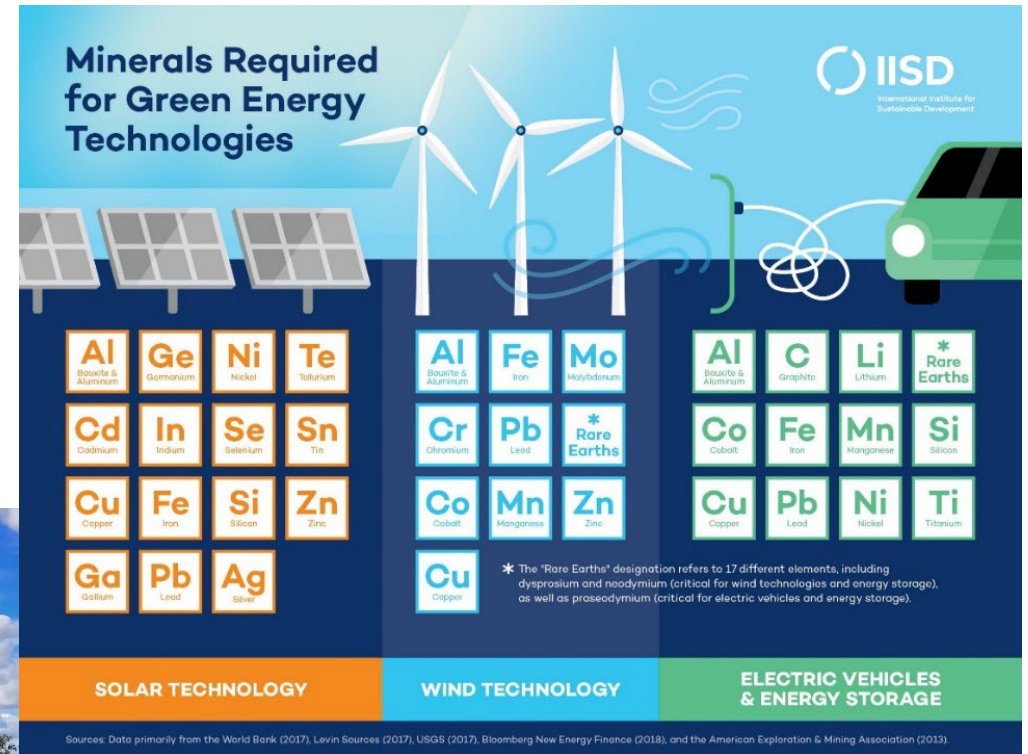


THE UNIVERSITY
of ADELAIDE

EVERLEDGER



The future of the minerals sector





GSQ Programs

Strategic Resources Exploration Program

2017-2021

Geoscience Data Modernisation

Frontier Basin Gas

CEI Rounds 1-2

New Discovery Program

New Economy Minerals Initiative

2019-2024

Hidden Value

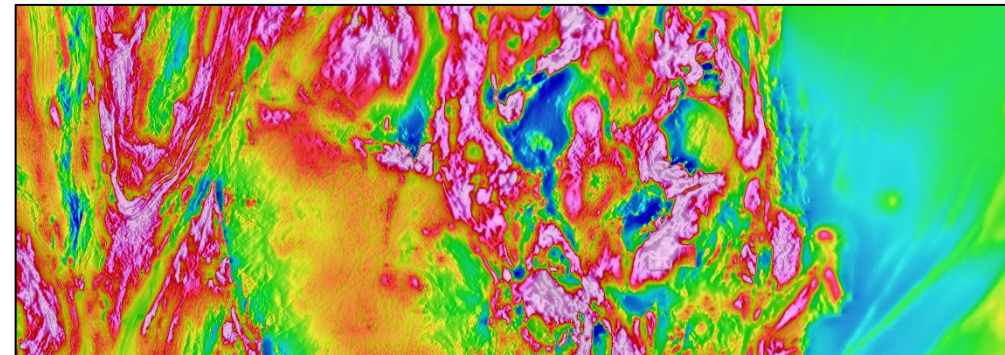
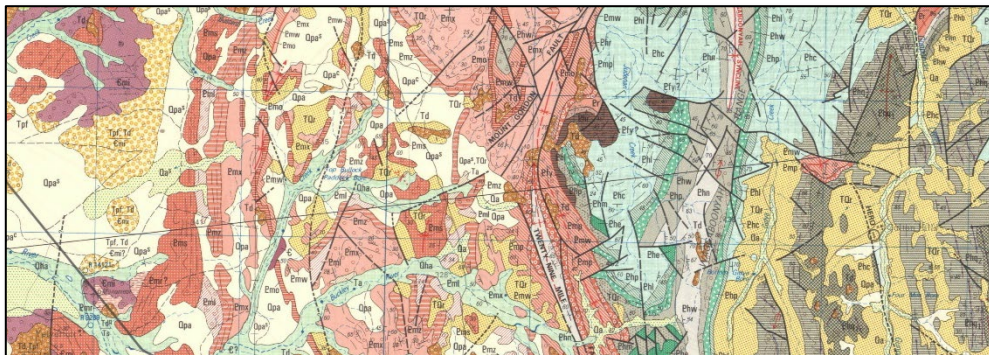
Critical Minerals Exploration

Collaborative Exploration Initiative

2019-2024

Rounds 3-7

Total funding 2017-2024: >\$50 million



Queensland Resources Industry Development Plan

Announced 21st July

A 30 year plan to support the resources sector through future changes and challenges





Queensland Resources Industry Development Plan

2022-2024/26

Geophysics for Discovery

\$10M

New Economy Mineral Systems & Geoscience

\$5M

Circular Economy in Mining

\$5M

Collaborative Exploration Initiative

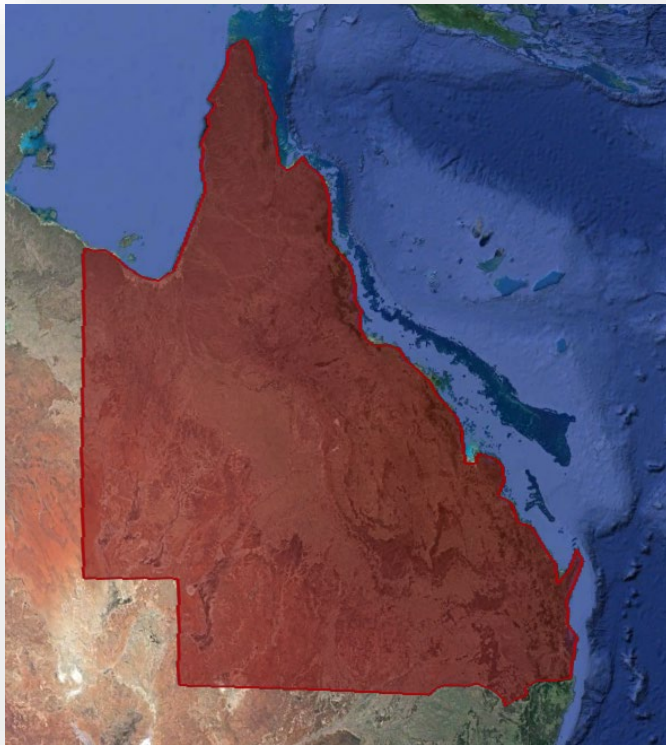
2023-2027

Rounds 7-10

\$17.5M

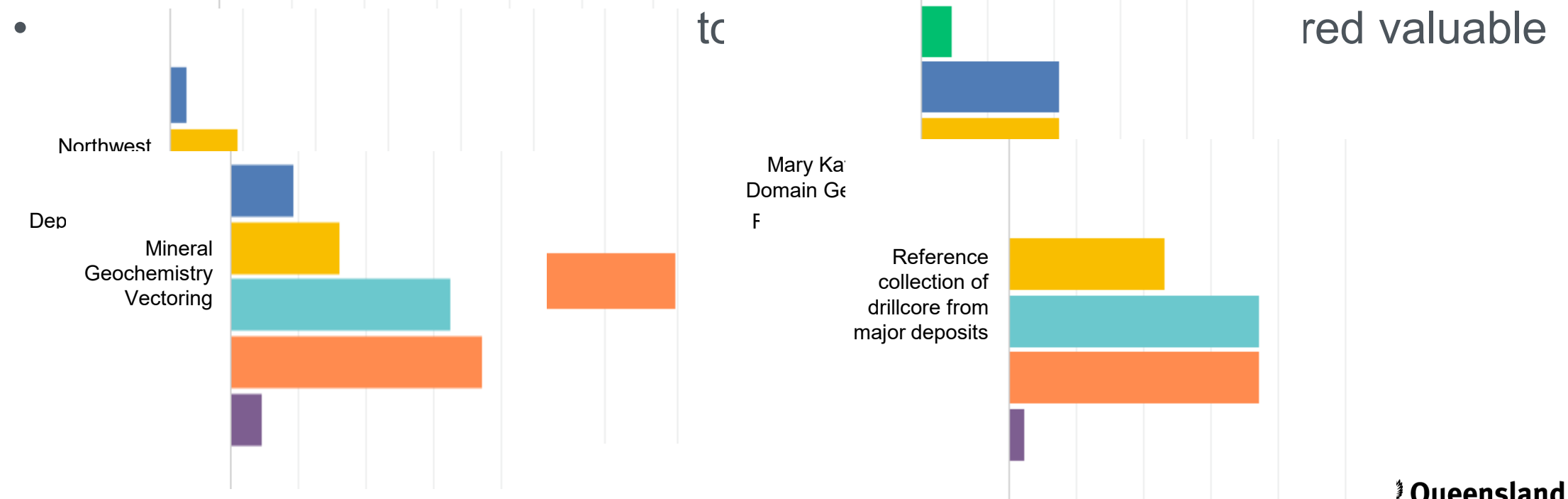
..... On top of a remaining \$5M in the New Economy Minerals Initiative for geoscience, geophysics and CEI

QRIDP focus areas

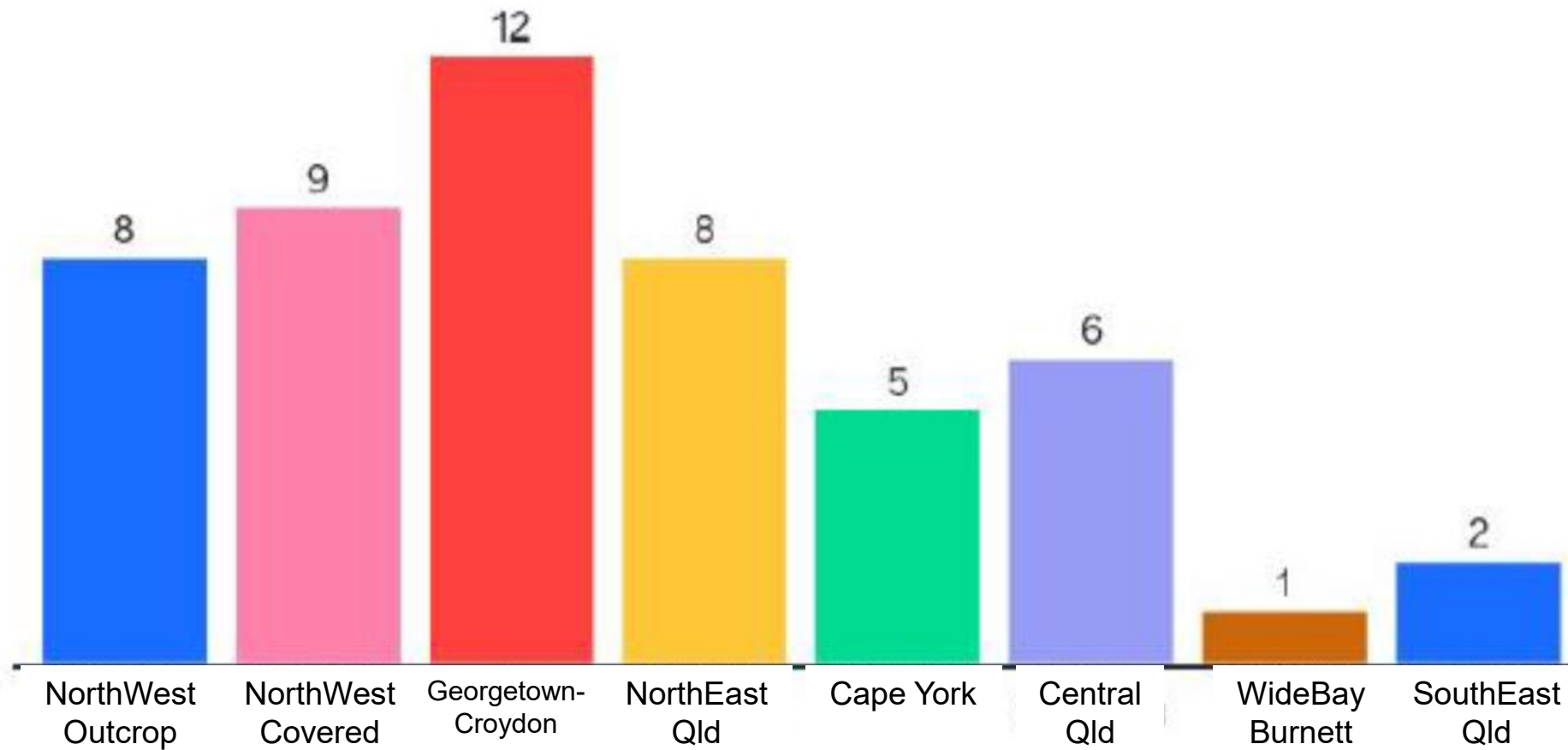


Summary of previous feedback

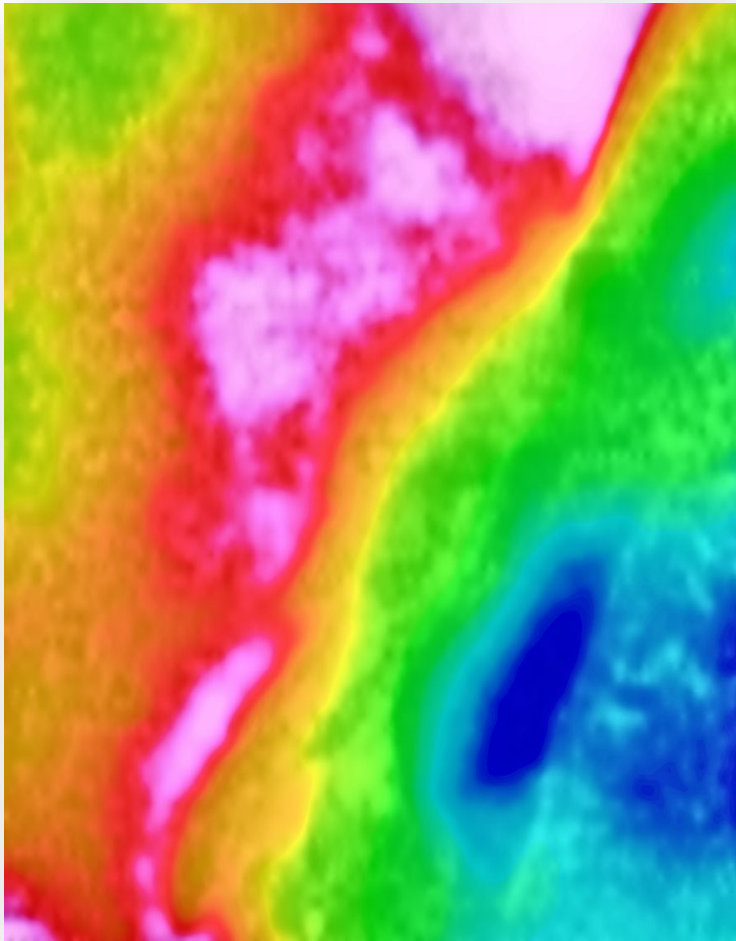
- Geophysics projects consistently ranked as 'extremely useful'
- The geological mapping projects weren't considered as useful as the compilations



Geographic focus - feedback



What should GSQ's priorities be? 5-10 yrs



Widespread Airborne Gravity Gradiometry over deeper terrains

Better understanding of areas with low geological confidence within prospective/endowed provinces

Update geological map series using new geophysics, interpretations, geochronology

Update existing 3D deposit atlases with new data

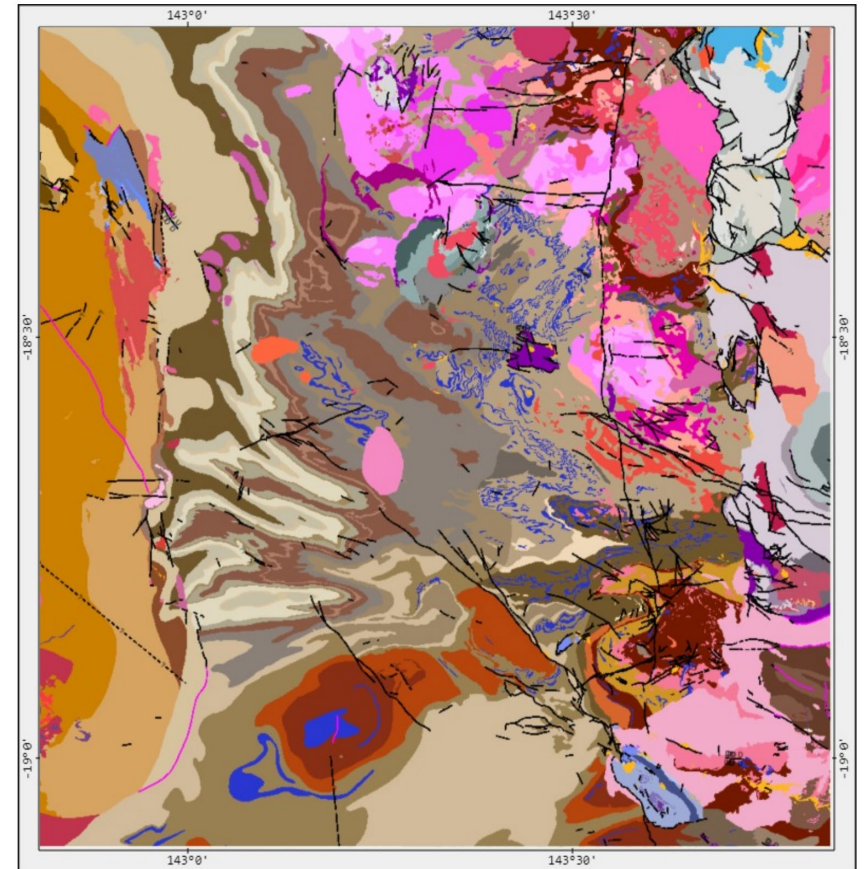


New projects under QRIDP (“NEMI 2.0”)

New Economy Mineral Systems & Geoscience

\$2.5M/year to June 2024

- Deposit Atlas continuation
- Geochem data update
- 3D Digital Earth development
- Update geology maps for Georgetown-Chartiers area
- ‘Near-miss’ deposit footprint characterisation
- New Economy mineral systems characterisation
- Reference Collection of core and data
- Georgetown Hydrogeochemistry

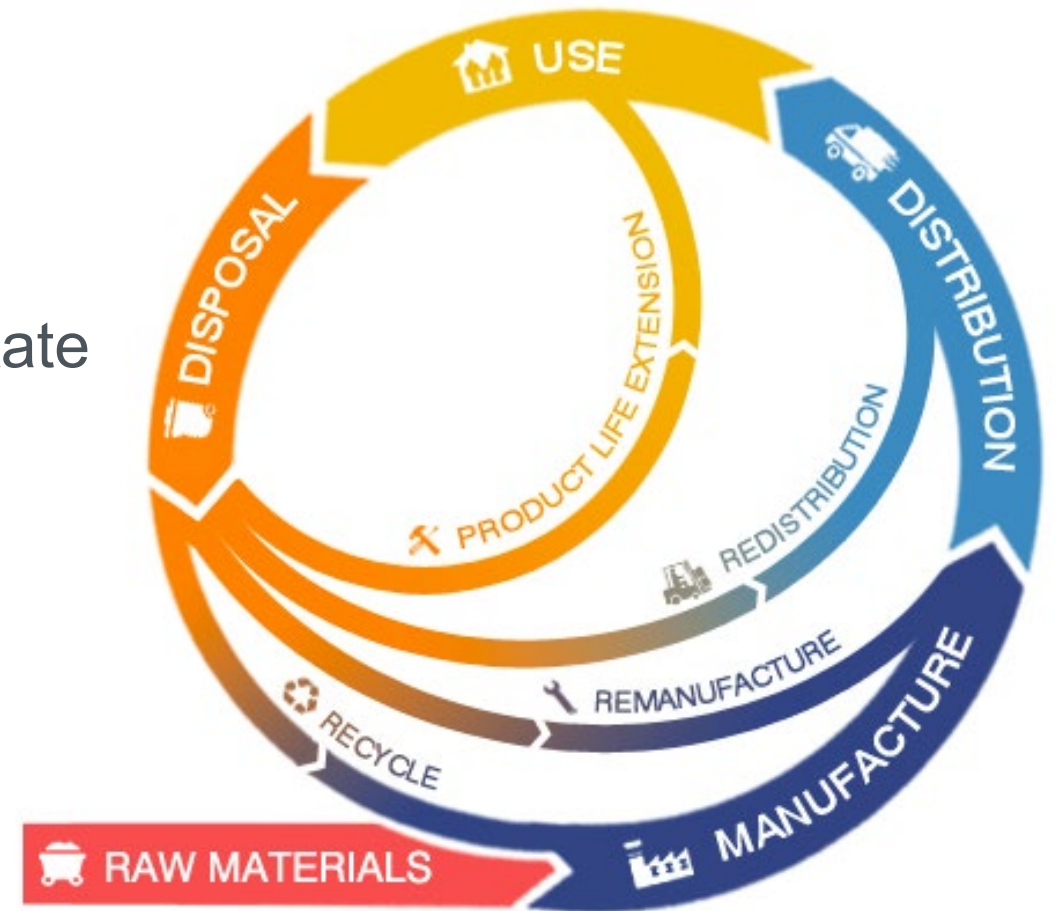


New projects under QRIDP (“NEMI 2.0”)

Circular Economy in Mining

\$2.5M/year to June 2024

- Scoping and modelling of current/future state of the CE in the resources sector
- Traceability research
 - Blockchain
 - Isotopic characterisation
- Mine waste characterisation
- Sustainable REE processing



Engagement



GSQ News
incl upcoming
events
(active from 4pm
today)



Monthly GSQ-UQ webinars

<https://smi.uq.edu.au/event/10835/gsq-uq-webinar-series-2022>

Next webinar: 25th August

Remote sensing in exploration

Digging Deeper (annual, Brisbane)

7th December 2022, Royal on the Park, Brisbane

Mineral Systems workshop, 8th Dec, Exploration
Data Centre Brisbane

Annual industry workshop (Mt Isa or Townsville)

Regular feedback

Feedback workshop EDC, May 2022

CEI workshop

‘How to write a winning application’

29th November 2022, Brisbane



Queensland
Government

