



EQ RESOURCES LIMITED

Critical Mineral Producer, Beneficial Reuse of Waste

Creating Value From Waste Rock Dumps With The Use of Sorting Technology Kevin MacNeill, CEO February 6th 2024



DOWNLOAD PRESENTATION



Disclaimer



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- The Company confirms that it is not aware of any new information that materially affects the information included in the corresponding market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.

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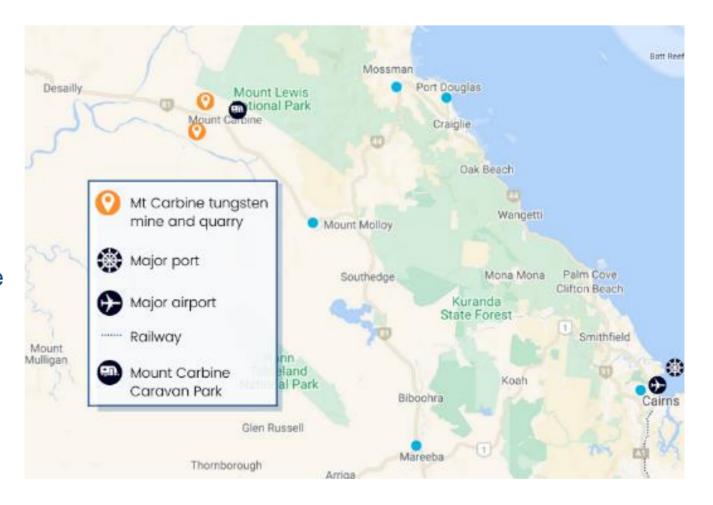


Mt Carbine Tungsten Mine and Quarrying Operations

Transforming an Historical Mine to Australia's Largest Primary Tungsten Producer and a Key Resource Producer (Quarry Materials)



- 2019 EQR began recommissioning of the Historical Mt Carbine Mine.
- Global critical mineral production.
- Advocates for a circular economy model.
- Beneficial Reuse transforms mining waste into valuable quarry materials.
- Operates through Mt Carbine Quarrying Operations subsidiary.



Mt Carbine Tungsten Mine and Quarrying Operations

Transforming an Historical Mine to Australia's Largest Primary Tungsten Producer and a Key Resource Producer (Quarry Materials)





- Tailings Pond/
 Retreatment Plant
- Quarry & OOSR Stock-pile
- 3 XRT Sorters
- 4 LG Ore Stockpile
- 5 Exploration Targets
- 6 Golding Offices
- 7 EQR Offices, Golding Management Offices

The Second Phase of the Value Chain

Using Sensor Based Sorting Waste As Quarry Material.



Mt Carbine Mine demonstrates the feasibility of repurposing SBS waste for various construction materials



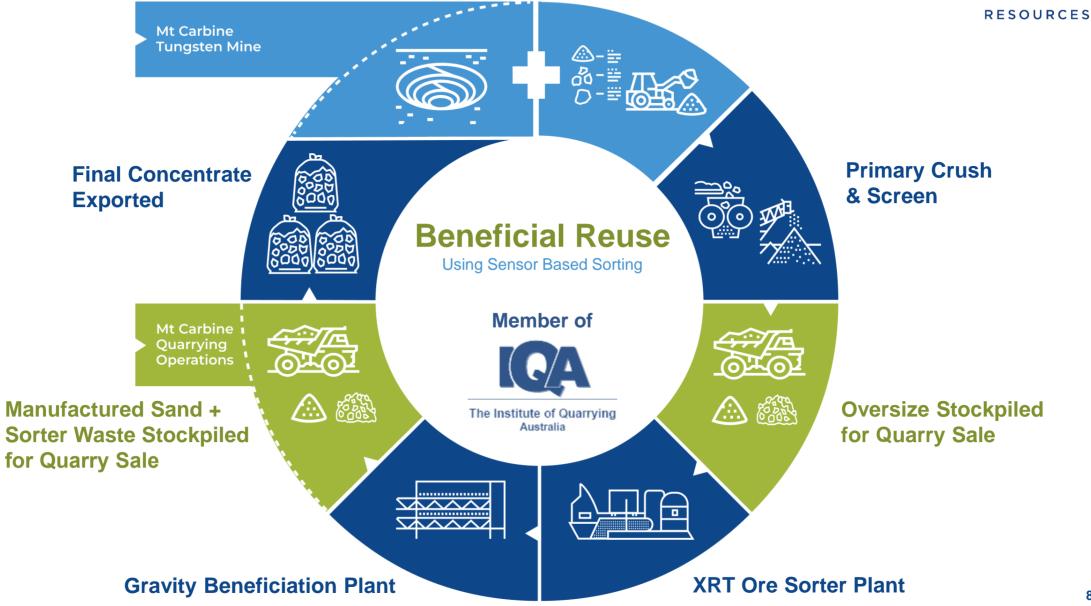
Mt Carbine Tungsten Mine and Quarrying Operations, QLD, Australia. June 2023



Mt Carbine Tungsten Mine and Quarrying Operations, Low-Grade Stockpile

Ore: Open Cut Mine + Ore: Low Grade Stock Pile







Mt Carbine Quarrying

Sustainable Aggregates for a Better Tomorrow









Independently tested to meet quality control specifications.



On-site Lab to ensure quality consistency



Sustainable &
Environmentally
Responsible



Customisable to meet specific needs











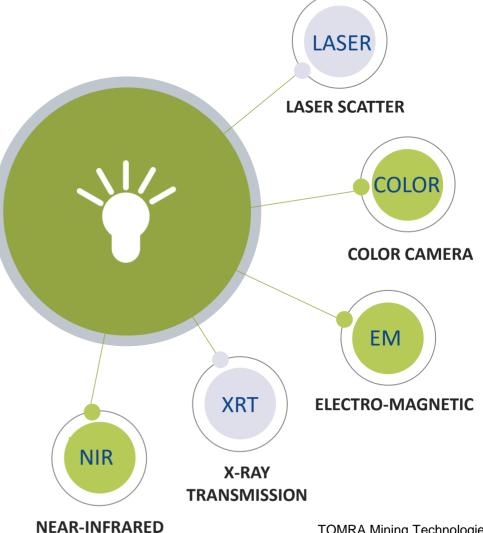


What Is Sensor-Based Ore Sorting?

Sensor Based Sorting (SBS)



- Sensor-based sorting is a coarse particle separation technology applied in mining for the dry separation of bulk materials.
- Particles are:
 - **Individually detected** by a sensor technique, **Individually ejected** by an amplified pneumatic process
- The technical feasibility depends largely on the liberation characteristics of the particles. When physical liberation is present, sorting work as a separation technique.



How Does an XRT Sorter Work?

Sensor Based Sorting: Technologically Driven, Economically Proven

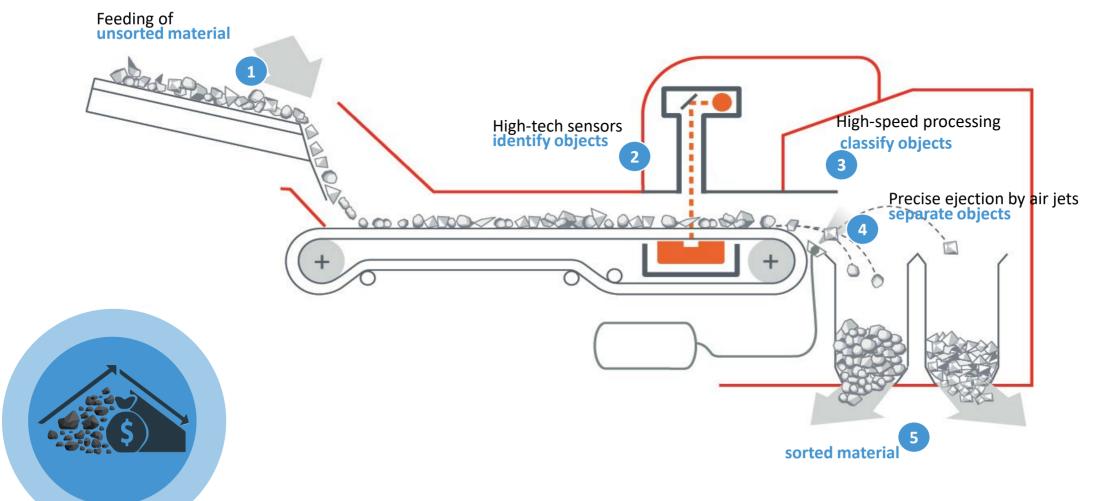




How Does an XRT Sorter Work?

Sensor Based Sorting: Technologically Driven, Economically Proven

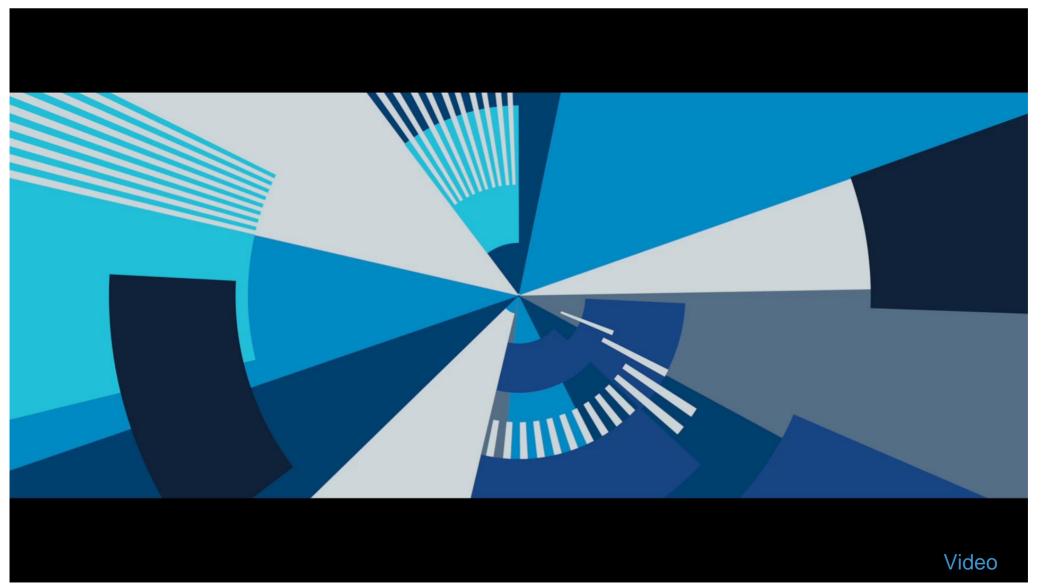




TOMRA Mining Technologies

XRT Sorting Technology Sensor Based Sorting (SBS): Technologically Driven, Economically Proven

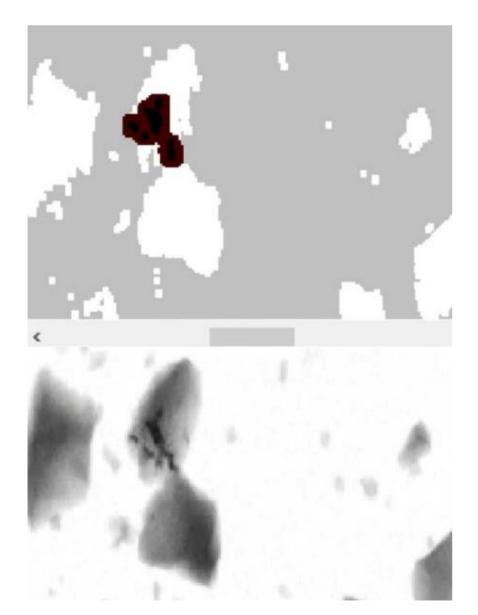




XRT Sorting Technology: Advantages to Waste Sorting

Sensor Based Sorting: Technologically Driven, Economically Proven





•Precision:

 High-accuracy separation of undesirable minerals e.g. Sulphides - Arsenopyrite, Pyrite, Chalcopyrite.

•Efficiency & Energy:

- · Speeds up sorting process.
- Lowers energy use with targeted sorting.

•Adoption & Customisation:

- Broad use in mining operations.
- Tailored for operation's specifications.

•Recovery & Purity:

- Enhances resource recovery rates.
- Secures waste mass integrity and purity.

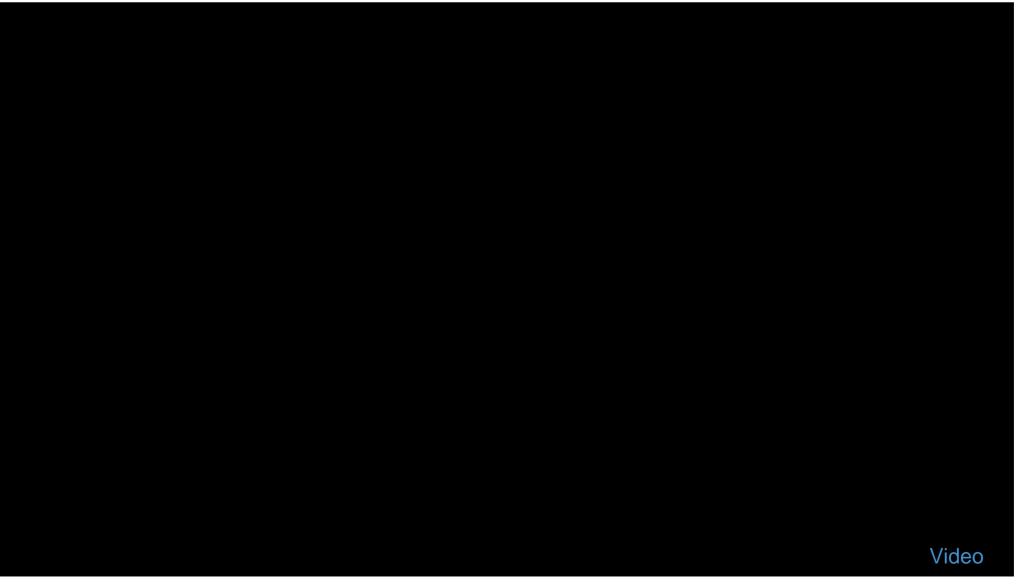
•Economic & Eco Impact:

- Boosts profitability and environmental stewardship.
- Cost to run sorter: \$2/t ~2kWh/t

XRT Sorting Technology: Advantages to Waste Sorting

Sensor Based Sorting: Technologically Driven, Economically Proven





XRT Sorting Technology: Advantages to Waste Sorting

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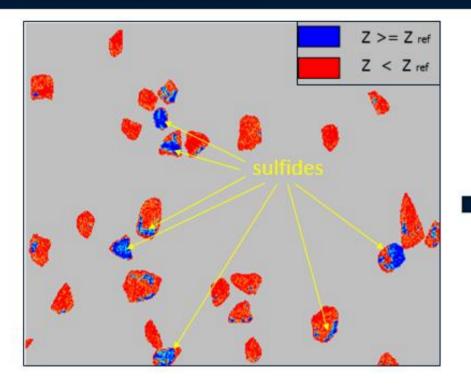


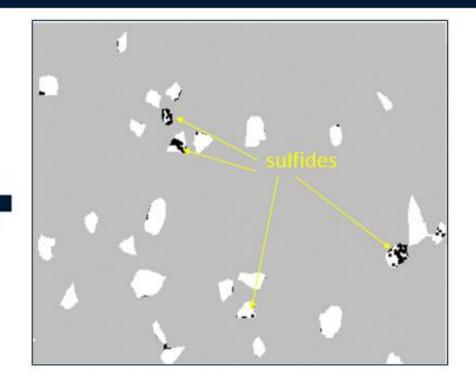
Dual Energy Sorting

- · Detection of Sulfides (high dense)
- Detection of Quartz (low dense)
- · And a combination of both

Inclusion Sorting

- · Contrast filter applied to enhance 'black spots'
- · Detection of Pyrites (high dense inclusions)





SBS Waste as Quarry Material: Mt Carbine Quarrying



- Continued development of 'green / recycled aggregates' business as an additional revenue stream.
- Turns clean waste rock into vital construction materials for Far North Queensland.
- Opening **opportunities** in the local and regional market as demand for **recycled products** increases.
- Beneficial Reuse of waste product promotes Circular Economy commitment in-line with QLD Government initiatives.







What Makes a Good Aggregate?

Criteria for SBS Waste Repurposing



•Composition Standards:

Chemical stability for construction use.

•Physical Properties:

Shape, hardness, and durability for material integrity.

•Size Specification:

• Sizing within the desirable range for construction aggregates.

•Environmental Compliance:

• Environmental safety regulations for reuse.

•Quality Assurance:

Implement rigorous testing to guarantee aggregate quality for end-users.

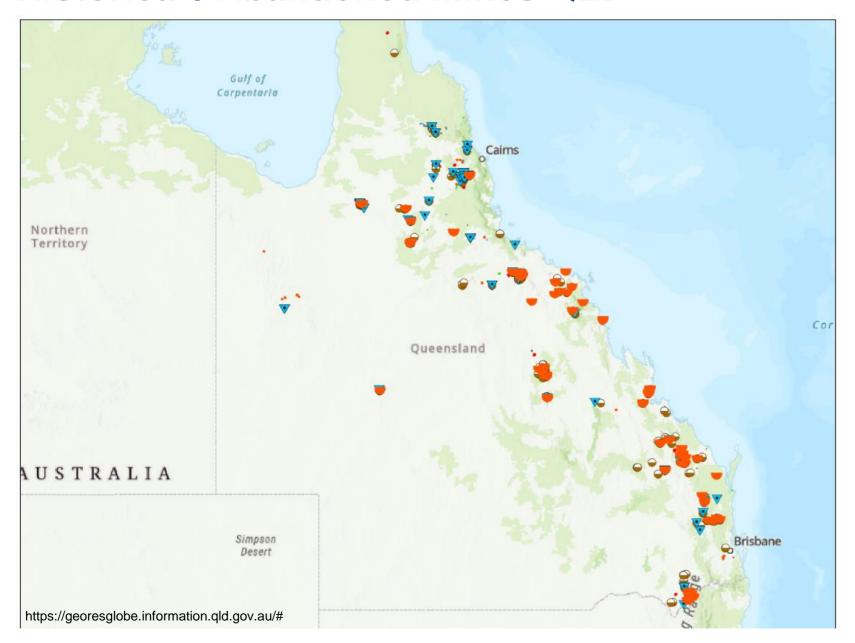




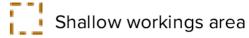
Wolfram Camp Historical Operations, QLD, Australia

Historical / Abandoned Mines QLD





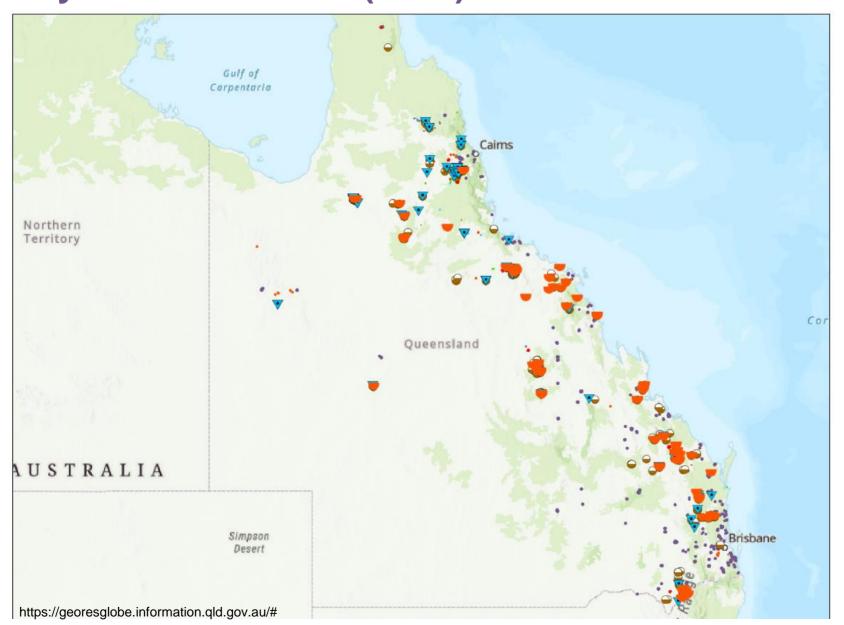
Legend



- Pit (point)
- Mineral material (point)
- Shallow working (point)

Key Resource Area (KRA) + Abandoned Mines QLD





Legend

- KRA resource/processing area
- KRA separation area
- Shallow workings area
- Pit (point)
- Mineral material (point)
- Shallow working (point)

Creating Value From Waste Rock Dumps With The Use of Sorting Technology



- Call to Action and Future Directions
 - Encouraging further research and policy reform
 - •Engaging stakeholders for sustainable mining practices
- Suggestion for a statewide testing program
- •Importance of assessing viability and value
- •BFS impacts, PRCP impacts, environmental benefits
- Policy considerations and challenges
- •Transportation subsidies, preferential treatment in tenders
- Long-Term Environmental Liability













Recognition For Our Sustainability Efforts

Responsible and Sustainable Critical Mineral Production









Strategic Partners























Endorsement Through Funding & Grants

Strong Support for Critical Minerals Projects in Australia







Successful Beneficial Reuse

A QLD Key Resource Supplier



Job Creation



Key
Resource
Production
& Sales



Successful Beneficial Reuse

A QLD Key Resource Supplier



Local Economic Growth



Genuine ESG Commitment



Upskilling of local workforce



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