

# Recycling & Clean Processing Technologies Valorization of Primary & Secondary Resources

June 26, 2023

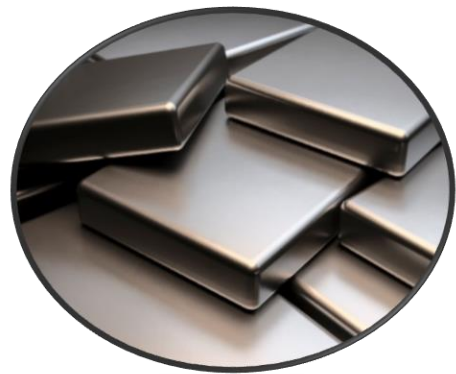
Canadian Critical Minerals Technology Partnering Mission to the UK

# Forward Looking Statement

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# Clean Technologies for Sustainable Metals



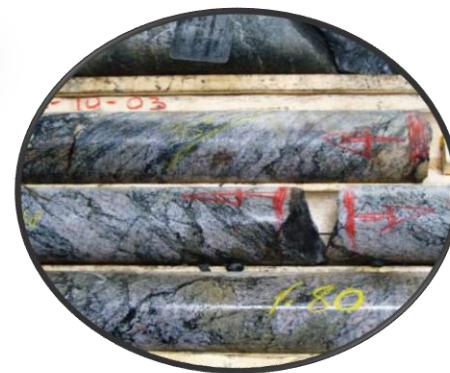
## REE Recycling

- Developing the 1<sup>st</sup> rare earth magnet recycling facility outside of Asia
- Ongoing detailed engineering in preparation for procurement and construction
- Sustainable solution to the magnets that drive transport electrification and the global renewable energy movement



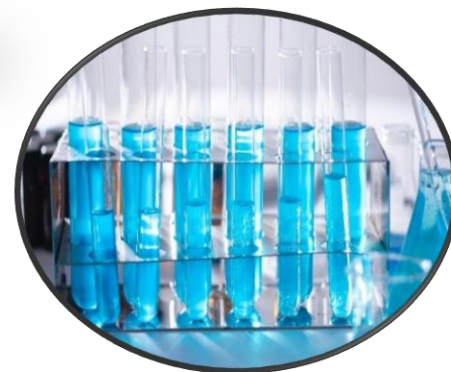
## Bauxite Residues Sustainable Processing

- Working on a \$4M pilot plant & feasibility study with Rio Tinto and supported by SDTC and Quebec Government
- Production of bulk metals (Fe, Al) while reducing waste volume >80%
- Recovery of valuable critical metals (REE, Sc, Ti, V) and recycling of main reagents



## Montviel REE Deposit

- Largest rare earth Bastnaesite 43-101 resource estimate in North America
- Patented metallurgical process
- Road and power infrastructure



## Other Sources & Other Metals

- Strong technical team led by CTO Dr. Pouya Hajiani
- Leveraging REE expertise to evaluate other sources (mining, industrial & e-waste)
- Healthy pipeline of projects targeting REE, HCl recycling, tailings processing and more





**Iron Removal & Valorization**



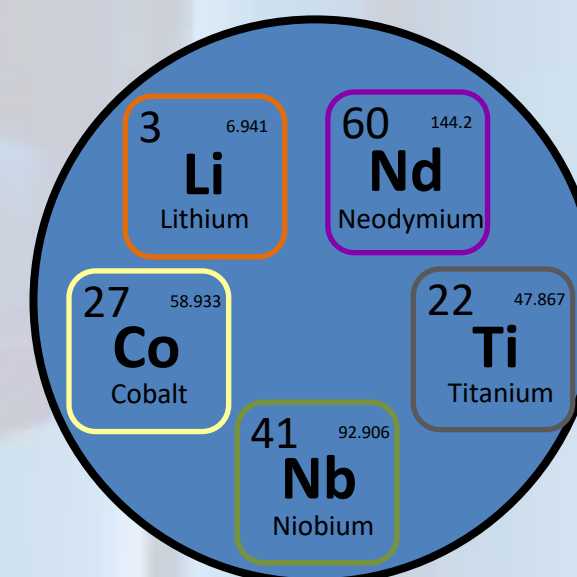
**Reagent Recovery**



**Environnemental Footprint Reduction**



**Waste Volume Reduction**



**Valorization of Critical & Strategic Metals**

# R&D Collaboration Goals

## **Work with UK companies on innovative solutions for Critical Metals**

- Manufacturing and operating companies in the EV motors and wind power industries
- Recycling companies that need to increase value of their scrap streams
- Mining companies looking for innovative solutions for waste and tailings valorization and reduction
- Companies with large industrial waste volume