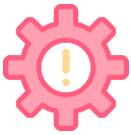




## Test Bed for Sustainable Mining: Dewatering, Deposition, and Tailings Valorization

Development Area: Sustainable Mining / Water Efficiency

### Problem:



Chilean copper mining faces critical gaps in the management of filtered tailings: the absence of pilot-scale infrastructure to validate new technologies, limited and unreliable technical data on dewatering circuit performance, lack of operational evidence in deposition practices, regulatory voids, and fragmented studies without a comprehensive approach.

### Solution:



Implementation of a modular and mobile pilot plant composed of dewatering, deposition, and tailings valorization units, enabling the validation of technologies under real mining site conditions. The platform provides technical, geotechnical, environmental, and economic data to support pre-feasibility and industrial feasibility studies, while also fostering the development of specific regulations for safe and sustainable implementation.

### Expected outcomes:



- Generation of reliable, site-specific data as a direct input for pre-feasibility and industrial feasibility studies.
- Increased water recirculation in mining processes, reducing overall consumption and improving operational efficiency.
- More stable tailings deposits with lower environmental risk, strengthening safety and sustainability.
- Promotion of specific regulations for low-moisture tailings, recognizing their benefits in safety, sustainability, and efficiency



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# Ficha de Proyectos Test Beds



## Test Bed services:



- Pilot testing of dewatering circuits and complementary or alternative technologies for tailings filtration.
- Operational validation of deposition, monitoring, and remediation techniques for low-moisture tailings.
- Benchmarking of suppliers and optimization of operational parameters.
- Generation of technical information to support pre-feasibility and industrial feasibility studies.
- Evaluation of valorization alternatives: secondary mining, new materials, and industrial applications.
- Support in the development of technical standards for low-moisture tailings.

## Benefits for Partners:



- Preferential access to customized technical data to reduce investment risks.
- Participation in strategic guidelines and decision-making.
- Preferential rates for test bed services.
- Involvement in the definition of regulatory standards that will impact the entire industry.

## Status:



Pre-investment Stage.

## Contact:

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