

Mining, Metals & Materials

Leaving a positive legacy



CSA Global
Mining Industry Consultants
an ERM Group company



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The business of sustainability



Redefining Mining's Role in the Product Ecosystem

Mining plays a crucial role in the current and future prospects of nearly every industry on the planet. This includes the food we eat, the clothes we wear, the infrastructure we depend on, and the technology we use to progress us into the future.

However, the brand of mining is at a tipping point. It's fighting an ambition to be seen as attractive to its investors, customers, employees and wider society—while facing the reality that many stakeholders are skeptical of the transparent performance and benefits these companies promise.

This industry has a critical role to play in adding economic and societal value to the world. As a fundamental component in the low-carbon energy transition, mining can work toward being a more responsible industry, where stakeholders and companies each play their role.

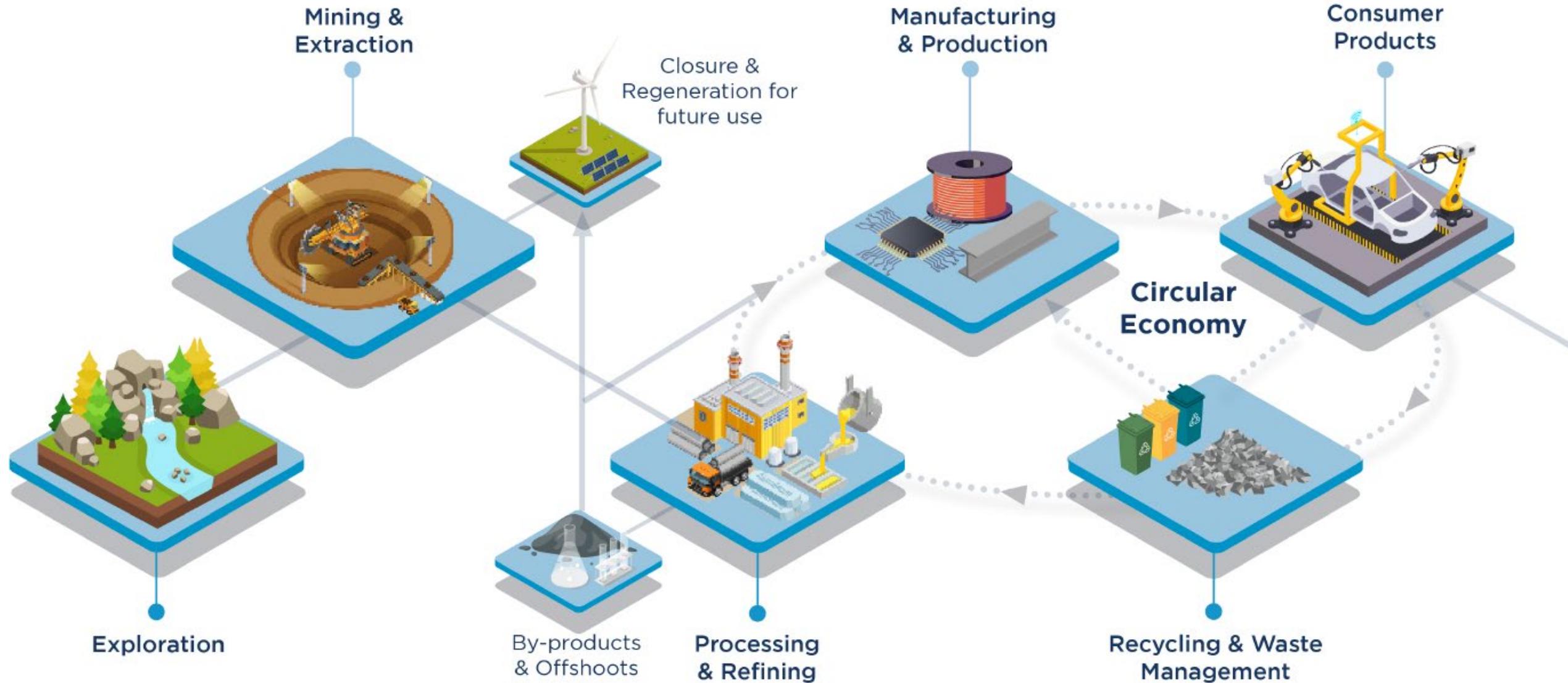
With a push for greater transparency and as supply chains evolve, all industries will begin to intersect in ways that have never been seen before. We already see automotive and battery manufacturers investing in mineral deposits, and technology companies building closed loop initiatives to avoid the use of prime materials.

It's no longer just about looking across the lifecycle of a project, but how mining interacts with its broader ecosystem. Companies that can recognize and implement cross-sector processes and partnerships can potentially use these connections to build competitive advantage, as well as more efficient and sustainable products.

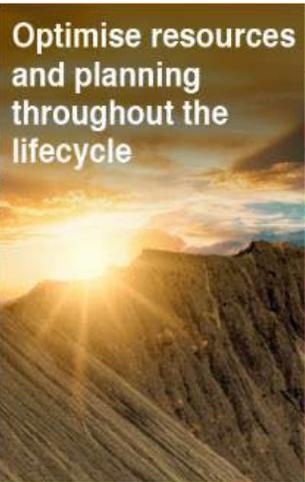


The Mining, Metals & Materials Ecosystem

Mining has long been the source of materials for modern society. Now we see a focus on responsible sourcing, the importance of critical materials and the growing role of the circular economy – today's miners have much complexity to consider and navigate.



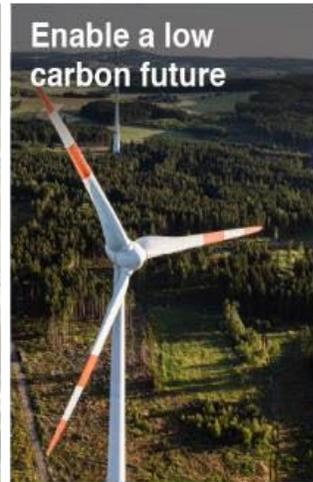
The Mine We all Want to See™



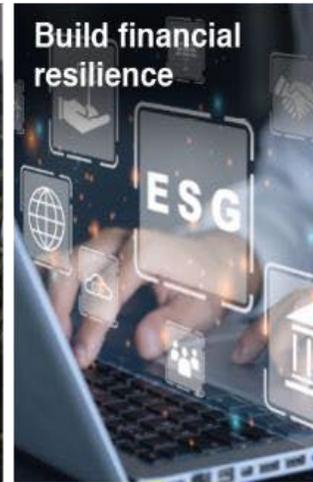
Optimise resources and planning throughout the lifecycle



Foster holistic water management



Enable a low carbon future



Build financial resilience



Promote product stewardship across the value chain



Create shared value



Deliver nature positive outcomes



Leave a positive lasting legacy



Shaping sustainable future and creating value for all stakeholders through safe, just and responsible mining and materials processing.

Understanding the Challenges You Face

In recent years we have seen many factors play an increasing role in how mining companies secure financing, explore, operate and partner with downstream customers.



Investor Pressure



Consumers awareness on sustainability issues



Supply Chain & Responsible Sourcing



Community activism



The transition to a low carbon economy



The age-old war for talent

Today, it goes beyond investments or loans.

Increasingly it relates to Environmental, Social and Governance (ESG) performance to build social value.

How is your company building operational transparency to reassure stakeholders that you understand your risks?

Consumers want to know the 'where' and 'how' behind the goods they buy.

This subsequently places new expectations downstream in the supply chain.

In response, we see a proliferation of standards aimed at keeping companies accountable.

The focus is on building optimized supply chains

that allow customers to track their products and ensure the ethical sourcing of materials.

Digital advances and circular principles will further enhance these capabilities to create more efficient and sustainable products.

While not new, the power of social media allows people to organize and communicate to the wider world in real time.

What is most notable, is the speed at which all this happens.

Companies cannot procrastinate, or take a long time to make decisions, as some might have done a few years ago.

This is not just an issue for the Majors to worry about

–it is important for all mining companies, along with downstream processors and manufacturers.

It also influences which Junior projects will get financed and at what rate. Everyone has a role to play.

Companies have to upskill some workers in the face of automation, while reinventing their corporate culture to attract the new best talent

–who care deeply about their company's values, ethics and practices.

In the job market, the likes of Silicon Valley and Wall Street are mining's competition.

ERM in the Mining, Metals and Materials Community Four Brands – One Solution

ERM is a global consulting firm that collaborates with leading mining companies to operationalize sustainability – bringing corporate sustainability strategies, commitments, and policies to life across an organization.

This “boots to boardroom” approach is possible by linking our local, technical know-how with evolving ESG insights.



We work with Juniors to move from concept to discovery, and support Mid-tiers and Majors to improve their operational performance, build resilient stakeholder relationships and plan early for closure to mitigate long-term costs.

Acquired ERM Groups companies, CSA Global, Critical Resource and Stratos, bring geotechnical, data and in- country political stakeholder specialists to our team.



CSA Global
Mining Industry Consultants
an ERM Group company

CSA Global delivers services across geological exploration, resource estimation, mine geology, water management, geometallurgy, mine engineering and data management. The team at CSA Global help our clients journey across the exploration, evaluation and development stages of mining – taking their mine from concept through to feasibility study then development and operation.



Stratos works across the space between government, industry, Indigenous peoples and NGOs to collaborate and support them in developing the ideas, strategies and tools they need to solve large scale, non-linear, complex problems. Offering transformative yet practical solutions.



Critical Resource is focused on political, stakeholder and sustainability challenges in the resource sector allowing companies to unlock their commercial value by managing these challenges in a strategic and responsible way. Providing independent assessments and assurance, alongside in-country project support to help clients understand and manage their stakeholder, political and reputational risks. We also support senior executives to design and implement group-level strategies that help to align their organizations behind them.

Together, we employ 7,000+ specialists who work across 134 offices in 38 countries and territories around the world.

What Makes the ERM Group of Companies Different?

A Boots to Boardroom Approach

We connect baseline science to navigate the political, social & regulatory landscape at the operation and corporate levels

Work Across the Entire Lifecycle

Help to explore, evaluate & optimize resources at every stage of the mining lifecycle.

Help You Understand & Manage Your Business Risks

We work with our client to identify, manage & Integrate technical and non-technical risks.

Offer a Scalable Approach

We support our Client across their specific or holistic project needs.

A Proven Approach for Collaborative Partnerships

A proven approach to forming collaborative partnerships and resilient relationships with Indigenous communities and other Communities of Interest.



We're Proud of Our Accomplishments

EBJ Technology Merit: Virtual Engagement

Implementing and maximizing digital community engagement in a Virtual Open House for TC Energy Corporation in preparation of the 2021 NOVA Gas Transmission Ltd. System Expansion Project in Alberta, Canada. [Read More Here.](#)

WIM UK 100 Global Inspirational Women in Mining in 2020

Ivy Chen, Principal Consultant with CSA Global, joins ERM's Managing Partner Louise Pearce, as women who have gone "above and beyond contributions to the industry and been identified as role models for future generations." [Read More Here.](#)

2019 Supplier of the Year

Resolution Copper recognized ERM for our work on demolition projects in Superior, Arizona, United States. The ERM team completed the project with over 10,300 hours of fieldwork without any injuries or incidents. [Read More Here.](#)

Here are some recent acknowledgments and awards that ERM has received in the mining space.

We are proud to collaborate on projects around the world that help companies to shape a sustainable future with the world's leading organizations.

[Read more here.](#)

Where You Can Find Us Around the World



134
Offices
Worldwide

NORTH AMERICA
65 offices in the US & Canada
2,500+ professionals

ASIA PACIFIC
26 offices in 13 countries
1,096 professionals



7000+
Professionals

LATIN AMERICA & THE CARIBBEAN (LAC)
10 offices in 6 countries
550+ professionals



38
Countries &
Territories

EUROPE, MIDDLE EAST & AFRICA (EMEA)
33 offices in 17 countries
2,000+ professionals

ERM Services

Capital Project Delivery

We keep capital projects on schedule & budget by mitigating EHS risks across the project lifecycle.

[Learn more.](#)



Mergers & Acquisitions

We mitigate environmental, social and governance (ESG) and sustainability risks to protect and build value across the investment lifecycle by delivering insight-driven, commercially-focused due diligence.

[Learn more.](#)



Safety Services

We move companies beyond traditional compliance and corrective programs to maximize the return on safety investments - to safeguard lives, protect assets and strengthen reputation.

[Learn more.](#)



Product Stewardship

We help clients bring products to market safely, sustainably, and in compliance with global regulations, while meeting business goals and delivering value to stakeholders.

[Learn more.](#)



Operational Performance

We help companies mitigate risk, grow revenue, and manage costs by optimizing EHS functions with data-driven approaches, operational support and delivering managed services.

[Learn more.](#)



Low Carbon Economy Transition

Our world-class people work at the intersection of science and business and bring extensive technical and strategic capability to help organisations act at the scale and speed necessary to remain successful.

[Learn more.](#)



EHS Management & Compliance

We work with every level in the organization to define, design, and deploy programs that achieve sustainable compliance, effectively manage EHS issues, control operational costs and reduce risks.

[Learn more.](#)



Digital Services

We help business leaders achieve a step-change in EHS and sustainability performance through tech-enabled innovation. Our global expert network allows us to deliver results at pace and scale.

[Learn more.](#)



Corporate Sustainability & Climate Change

We partner with organizations to build and design clear corporate strategies and programs to enhance their transparency and disclosure on complex sustainability challenges, from climate change risk to human rights.

[Learn more.](#)



Liability Portfolio Management & Remediation

We strategically assess and manage environmental liabilities through digital applications and custom, technically integrated end-to-end site investigation, remediation, decommissioning and retirement solutions.

[Learn more.](#)



Shaping a sustainable future

Our Purpose

Shaping a sustainable future with the world's leading organizations

50+

Years of experience

20,000+

Projects each year

>50%

of the Global Fortune 500

170

Offices in 40+ countries and territories

7,000+

Employees worldwide

100+

Thought Leaderships per year

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