

SUSTAINABLE MINING

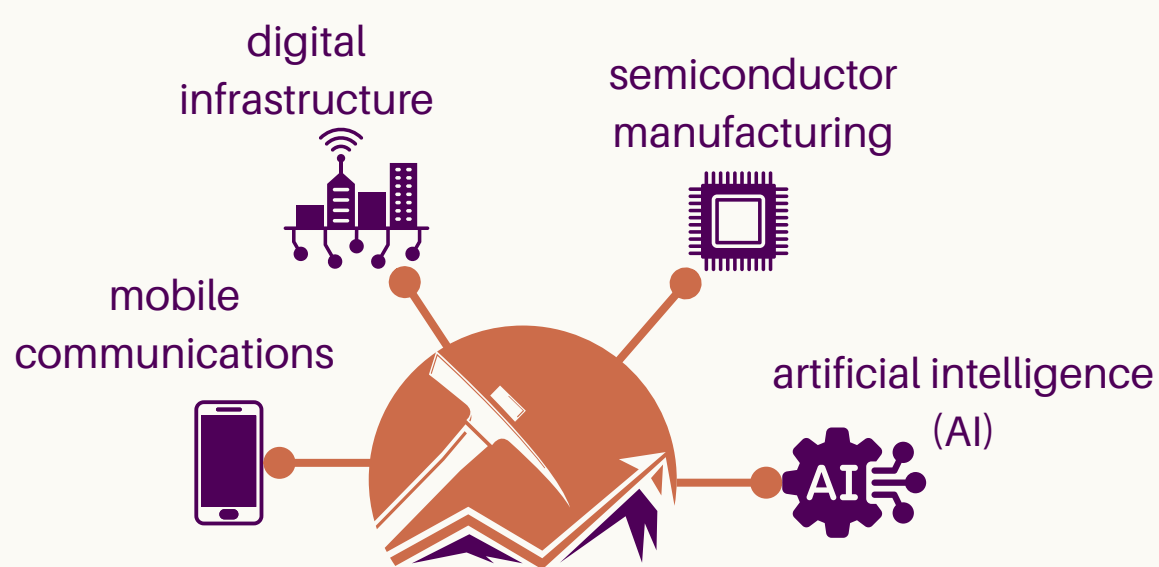
Community tool

Bridging Communities and Industry for Responsible Mining

BACKGROUND

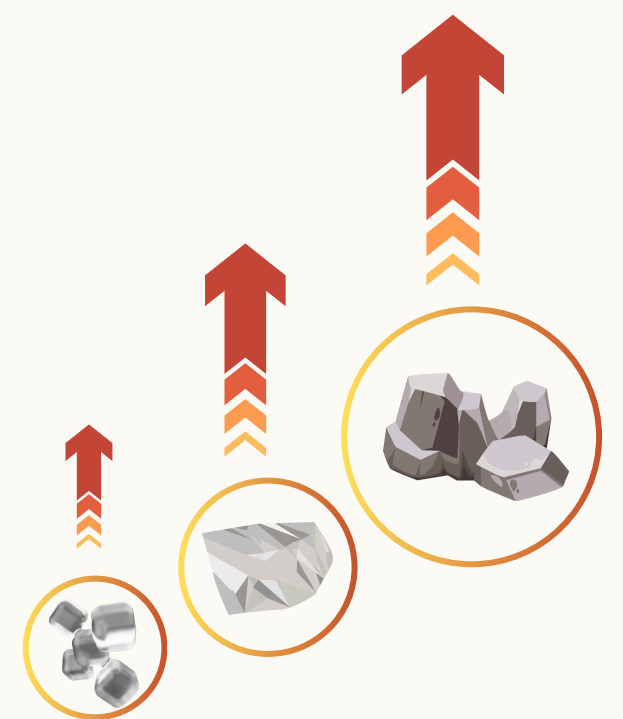
Resource exploration and mining are critical to economic development and the global energy transition.

Global demand for critical minerals is rising rapidly due to the expansion of the following factors;



As a result, minerals such as cobalt, lithium, coltan (tantalum), copper, nickel, graphite, gold, tin, tungsten, and other rare earth elements, which are essential components of smartphones, computer chips, batteries, and clean energy technologies, have become increasingly important.

According to the UNCTAD, demand for these critical energy transition minerals could increase **4x by 2040**.



THE CHALLENGE - INFORMATION ASYMMETRY

But the challenge should not only be to secure future supplies of critical minerals but also to ensure that resource exploration and extraction contribute to **peace, sustainable development, environmental protection**, and inclusive economic growth for **local communities** especially because many of these resources are located in fragile states and regions affected by protracted crises, weak governance, environmental degradation, and social tensions.

Achieving this vision remains difficult due to the lack of a shared, accessible, and **evidence-based feedback mechanism** linking local communities, mining companies, governments, and policymakers.



Local communities

Limited access to trusted reporting and feedback mechanisms leaves many communities and excluded from mining-related decision-making and benefits, with youth particularly disengaged.



Mining companies:

Limited visibility into local conditions and community priorities makes it difficult to address emerging issues, align investments with community needs, and meet growing ESG and responsible sourcing requirements.



Policy Makers (Govts, IOs, NGOs)

Need reliable, evidence-based feedback from local communities to monitor the implementation and impacts of mining policies.



This creates **communication gaps** that;

Hinder transparency and accountability



Increases the risks of conflict



Brand risk, and Reputational damage



Inefficient allocation of resources

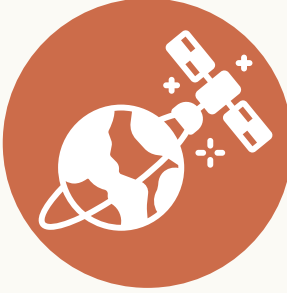


THE SOLUTION

Our solution is a Sustainable Mining Communication platform that ensures seamless **evidence-based communication** between all involved stakeholders in the mining sector especially in fragile regions. The tool is a low-tech digital platform that ensures sustainable mining through:

**1** **INCLUSIVE FEEDBACK AND TRANSPARENCY**

Connecting communities and mining stakeholders through evidence-based communication and reporting.

**2** **COMMUNITY-INTEGRATED ENVIRONMENTAL IMPACT MONITORING**

Integrates community observations with satellite data to verify environmental impacts and monitor change.

**3** **HUMAN RIGHTS AND RULE-OF-LAW MONITORING**

Provides a shared evidence base for identifying human rights concerns, monitors illegal mining, to promotes responsible resource governance.

**4** **SUSTAINABLE DEVELOPMENT AND INCLUSIVE ECONOMIC GROWTH**

Promotes responsible Artisanal and Small-scale Miners (ASM) participation, local economic development, skills training, and community involvement in decision-making.

Sustainable Mining Communication platform helps to connect:



KEY FEATURES

- ✓ Simple Incident Reporting
- ✓ Multimedia Evidence Support
- ✓ Automatic Context Capture
- ✓ EO-Supported Impact Validation
- ✓ AI-Powered Geospatial Analysis



The illustration shows a hand holding a smartphone. The screen displays the 'Sustainable Mining Communication platform' interface with a 'REPORT' button and a map. Surrounding the phone are various icons representing different features: a group of people, a satellite, a document with a checkmark, a scale of justice, a magnifying glass, and a location pin.

- ✓ Ground Truthing and Community Validation
- ✓ Human Rights and Rule-of-Law Monitoring
- ✓ Smart Complaint Tracking
- ✓ Shared Community-Industry Platform
- ✓ Low-Tech & Accessible Design

EXPECTED GAINS

Greater participation



Improved ESG performance



Stronger transparency



For Communities

Visibility, accountability, access to information, environmental protection, and economic opportunities.

For Industry

Reduced operational and reputational risks, stronger social license to operate, improved investor confidence, and better ROI.

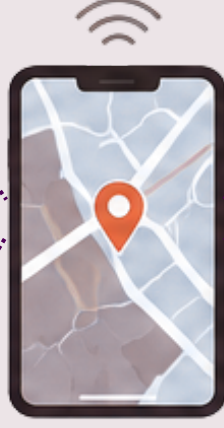
For Governments and Investors

Rule of law, monitoring capabilities, and more resilient supply chains.

The platform combines

Community intelligence

Collaborative governance



Earth Observation

Artificial Intelligence

CONTRIBUTING TO PEACE & SUSTAINABLE DEVELOPMENT



The platform supports responsible mineral sourcing for the mobile phone, semiconductor, battery, AI, and renewable energy industries.