Regional Innovation Systems to Improve the Sustainability of Mining

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Mining and Sustainability Overview

- Minerals are essential to society
- Mining causes socio-environmental impacts
- The reputation of mining remains negative
- Two decades of sustainability initiatives in mining
An interesting perspective to continue advancing

Integral actions that comprise a systemic vision of sustainability challenges
Socio-Environmental Management Systems: Corrective and preventive actions

Reactive framework

Sustainable Strategy
Proactive actions – Underlying opportunities

Innovation framework
Mining project
Collaboration...

A matter of good intentions?  

A required skills matter?

(4 & 8)
Regional Innovation System (RIS)
Some aspects of our developing proposal ...
In the end, individuals are the agents that execute activities. Their capabilities determine the success of the processes.
Territoriality

Stakeholders engagement

Thinking

skills

Innovation

capabilities

Collaborative

networks

Breaking mindset

barriers

Overcoming behaviour

patterns and rigid policies

Sustainable

Innovations

Org.-Inst. Frameworks

Improved reputation

Value creation

Mining project

Interventional level

Individual - Collective
In summary:

• A territory with a mining project is a complex scenario.

• Taking into account the role played by each actor as a first step to promote effective collaborative networks.

• Systemic vision of territory should encourage sustainable innovation
• Mindset barriers and behavior patterns hamper collaboration

• Developing skills and capabilities at the individual and the collective level could contribute to a more effective collaboration.
Thank you for your attention!

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References


Mining economic interests

Long term success of mining

Social values

Beyond law compliance

Holistic analysis

(5 & 6)

(7)

(4 & 8)
Innovation approaches