

Regional Innovation Systems to Improve the Sustainability of Mining

G. A. Aristizábal Hernández M. Sc. – SE

O. J. Restrepo Baena M. Sc. Ph. D. - SME

School of Mines

National University of Colombia – Medellín

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Mining and Sustainability Overview

Minerals are
essential to society

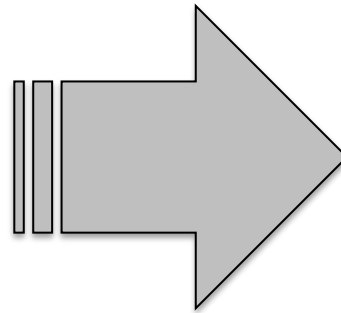
Mining causes socio-
environmental
impacts

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**



**Traditional
vision**

Socio-Environmental Management Systems:
Corrective and preventive actions



Reactive framework

**Systemic
vision**

Sustainable Strategy
Proactive actions – Underlying opportunities



Innovation framework



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Collaboration...

A matter of good intentions ?

A required skills matter?

(4 & 8)



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Regional Innovation System (RIS)

Innovations

Knowledge



(9)



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Some aspects of our developing proposal ...



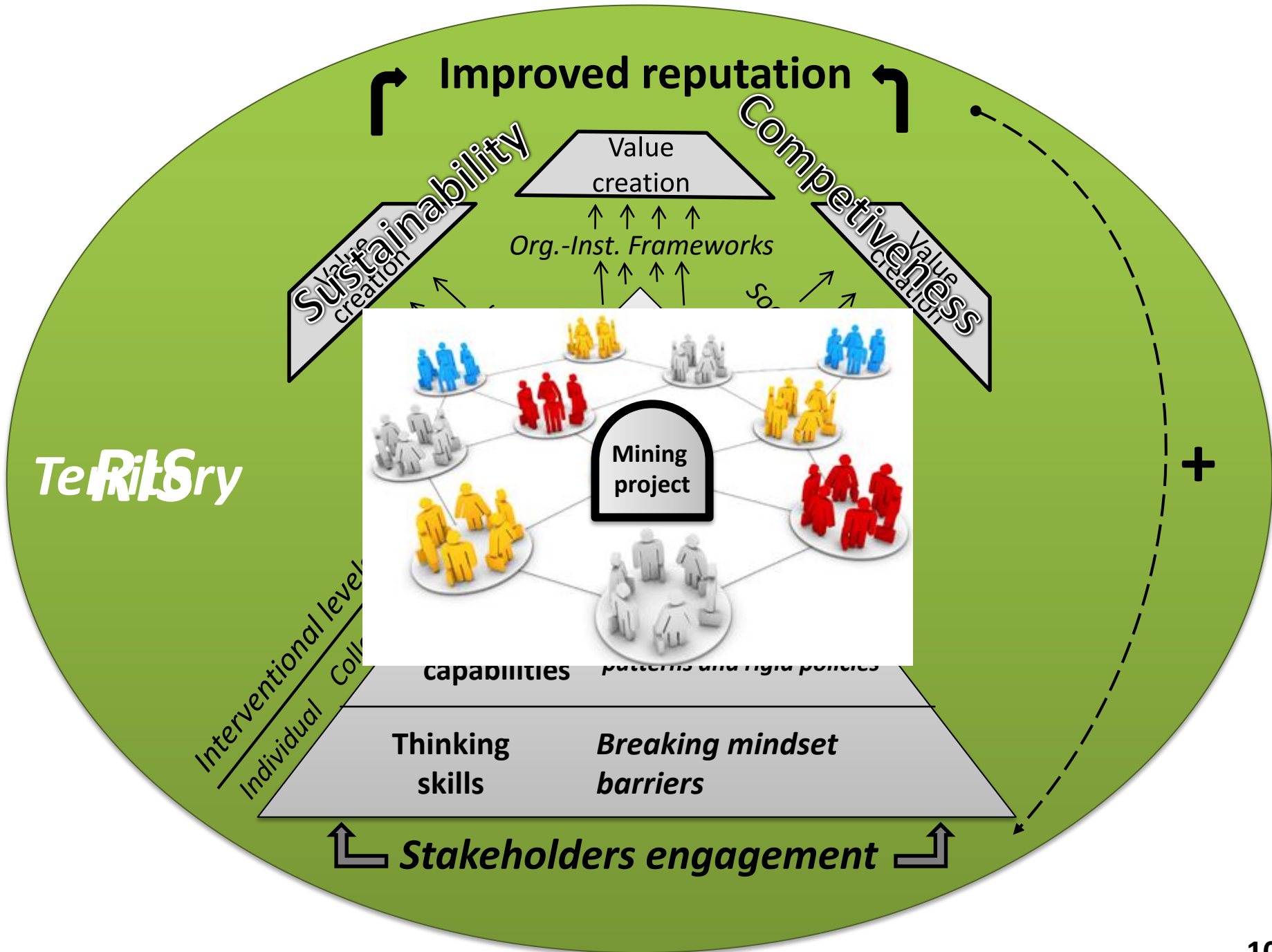
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**In the end, individuals
are the agents that
execute activities.
Their capabilities
determine the success
of the processes.**





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.**



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Thank you for your attention!

Gustavo Adolfo Aristizábal H. M.Sc. I.S.

gaaristizabalh@unal.edu.co



@aristigus

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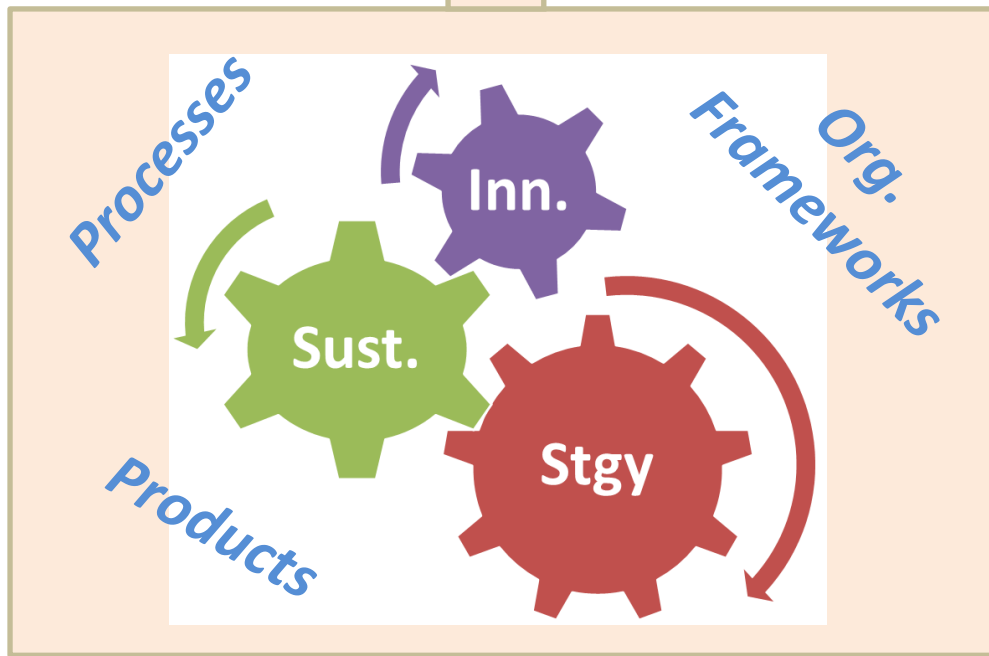


Mining economic interests

Long term success of mining

Social values

(5 & 6)



(4 & 8)

(7)

Beyond law compliance

Holistic analysis



Innovation approaches

