



EO-MINERS products in the context of the national and EU regulatory framework related to raw materials

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EUROPE'S RICH MINING HISTORY

... can materialise by multiple legacies

- **Land subsidence;**
- **Pollution of soil and surface water by migration of acid mine drainage;**
- **Accidental spillage of tailings further to dam failures;**
- **Contamination of groundwater;**
- **Wind erosion of mine tailings.**

Accidents and/or poor operational practice are one of the reasons of the deep mistrust between potentially impacted populations and mining companies.

... with an important impact on Europe's sustainable competitiveness

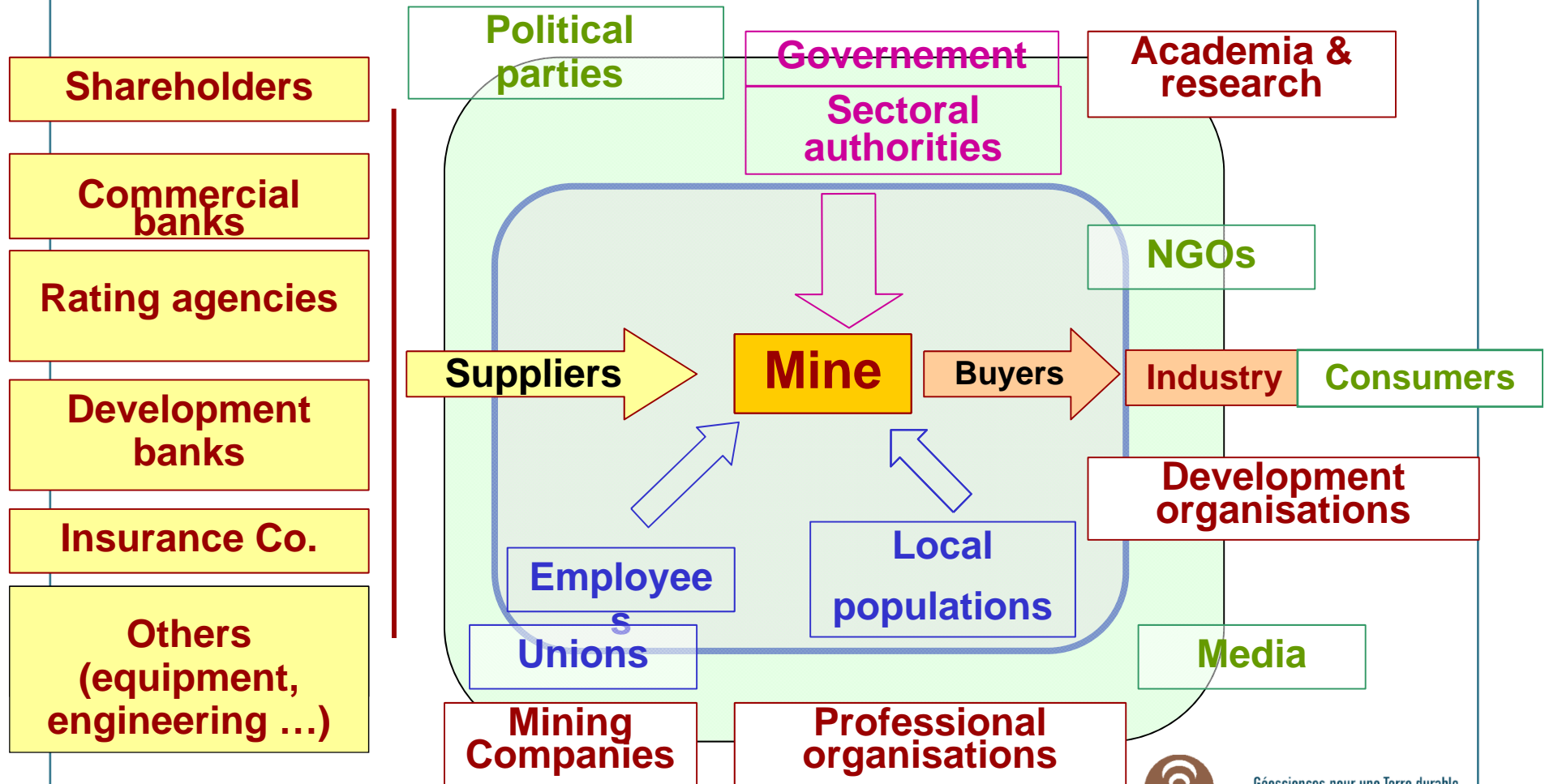
The negative image many citizens have of mining or metallurgical industries much contributes to the de-industrialisation of the European Union, to its economic vulnerability and to the transfer of environmental burdens to non-EC countries, especially to China, where impacts can be much more severe than what would happen if the minerals and metals industry would operate in a properly regulated EU framework.

This is unbearable from a sustainable development perspective.

Mining projects involve multiple stakeholders with conflicting interests, different levels of knowledge and perceptions, **they need understandable, science-based evidence to trade their positions and reach the consensus needed for the transparent, sustainable operation of mining projects.**

Such evidence is also needed by companies willing to document their sustainability performance.

MINING STAKEHOLDERS



Verifiable facts and figures are essential:

> **As a management tool:**

- For companies to monitor, manage and report their impacts in a transparent and verifiable manner; to engage their stakeholders;
- For national, regional and local authorities to monitor the impacts of mining and metallurgical activities and verify their regulatory compliance

> **As a trust developing instrument:**

- Serving locally as a basis for stakeholder dialogue;
- For the broader reporting of sustainable performance within frameworks such as the one developed by the Global Reporting Initiative

Sustainable performance reporting is a key to address the XXIst century challenges

- Adam Smith, Ricardo and the founders of the conceptual framework of modern economic science were living in a sparsely populated, agrarian Europe where natural resources were not an issue.
- The definition of competitiveness in a global, interdependent, resource constrained world of 9 billion people in 2050 will need to be revisited in depth, and based on sustainability indicators.
- Earth Observation, from space and in situ, has an important role to play in this

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THE PATH TO SUSTAINABILITY: REGULATIONS

EC Mining Waste Directive EC 2006/21

It requires:

- > Art.5 Waste management plan
- > Art. 6 Major-accident prevention and information
- > Art. 8 Public participation
- > Art. 10 To identify and manageme voids

THE PATH TO SUSTAINABILITY: VOLUNTARY INITIATIVES

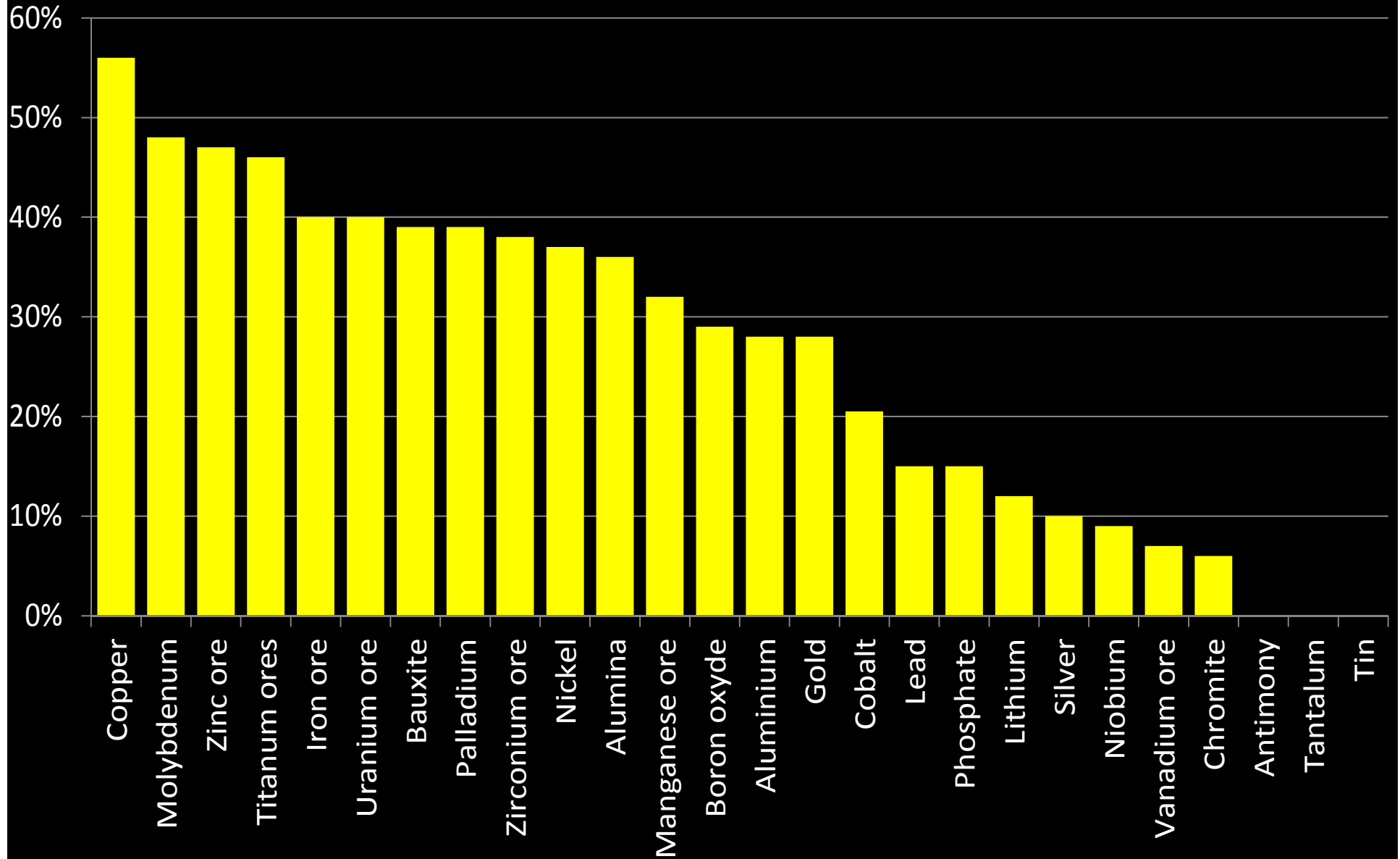
The Global Reporting Initiative

www.globalreporting.org

- > The world largest voluntary sustainability reporting initiative
- > Born in 1997, with i.a the support of UNEP and the World Business Council for Sustainable Development
- > It publishes general sustainability reporting guidelines and sector supplements, including one for the minerals and metals industry
- > In 2011, over 140 minerals and metals producing companies reported their sustainability performance according to one of the 3 GRI compliance levels

% of world mine or metals production 2009 by Global Reporting Initiative Reporters

Data sources: Raw Materials Data, Global Reporting Initiative - Compiled by P. Christmann, BRGM





Nom du service émetteur

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