



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

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Patrice Christmann  
Deputy Director  
Strategy Directorate



Direction de la Stratégie

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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**

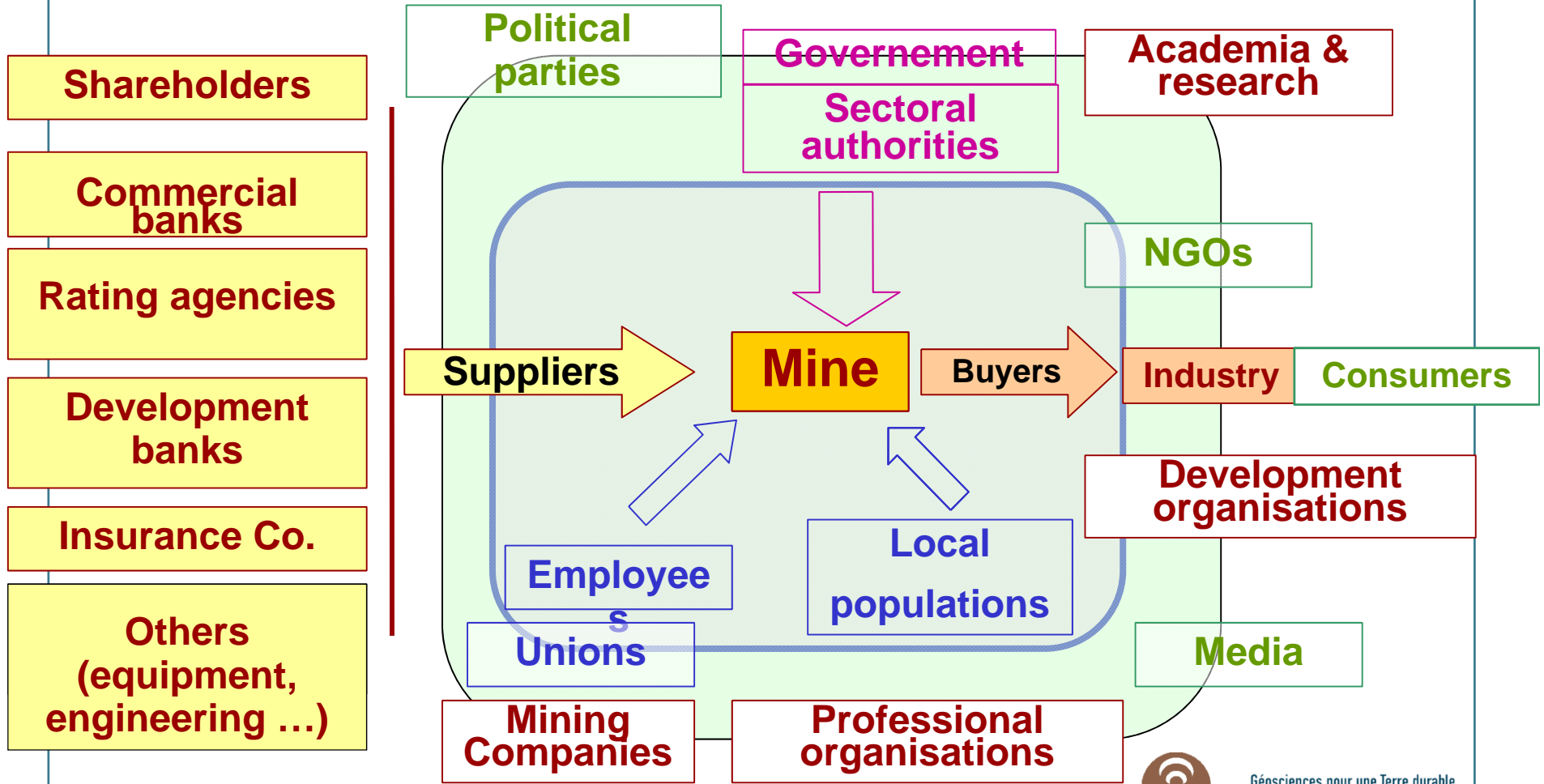
**The negative image many citizens have of mining or metallurgical industries much contributes to the de-industrialisation of the European Union, to its economic vulnerability and to the transfer of environmental burdens to non-EC countries, especially to China, where impacts can be much more severe 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

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- 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

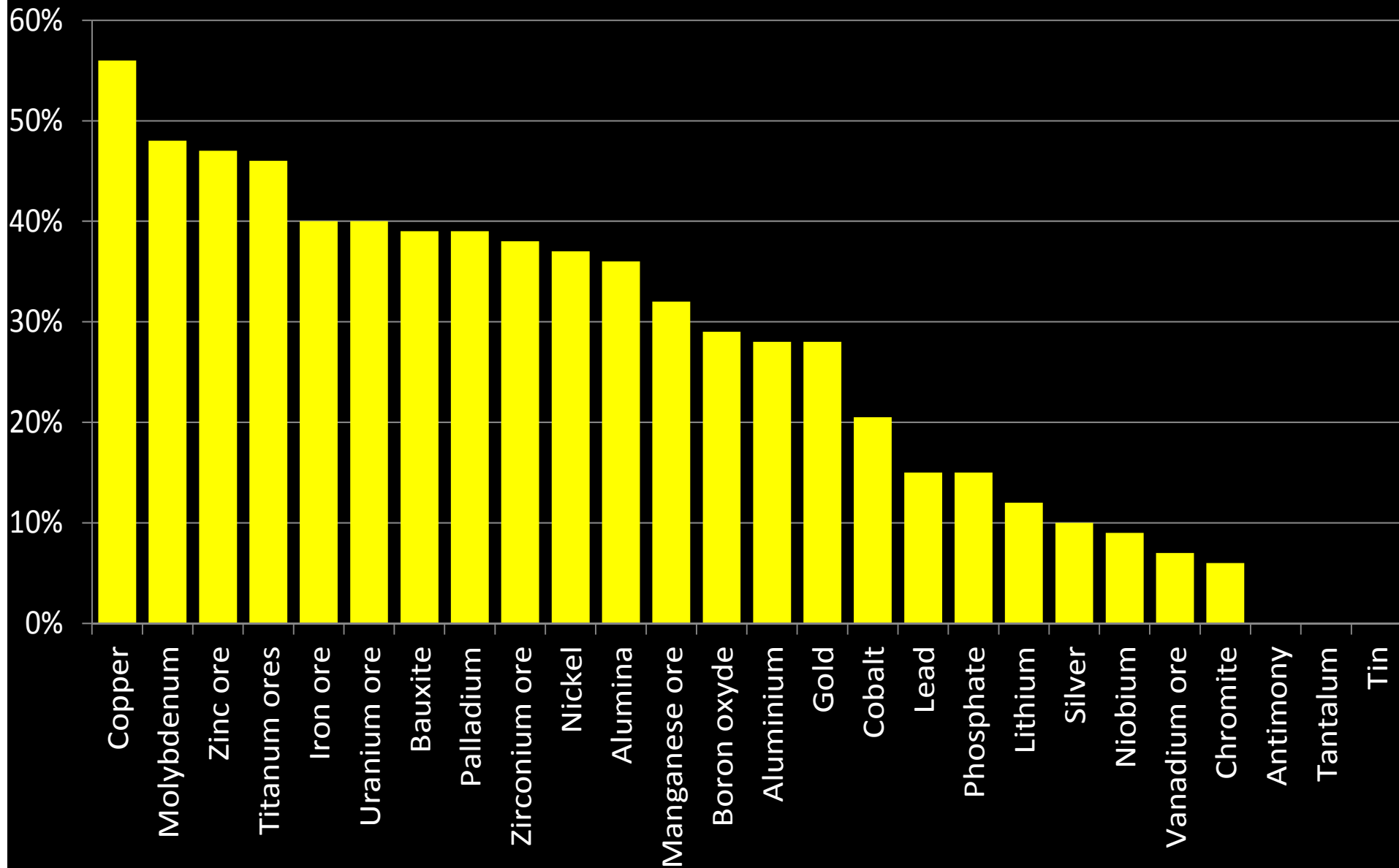
# The Global Reporting Initiative

[www.globalreporting.org](http://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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