MINING IN EUROPE TOWARD 2020
Euromines – who we are

- Recognized representative of the European mining industry;
- Service provider to its members with regard to EU policy;
- Network for cooperation and for the exchange of information throughout the sector within Europe;
- Link to contacts with the mining community throughout the world.

Euromines represents large and small companies and their subsidiaries in Europe and in other parts of the world which provide jobs to more than 350,000 people.

Their activities and operations produce more than 42 different metals and minerals.
Our Key Messages

RESOURCES
Europe has a viable resource base

DEMAND
The demand for raw materials is continuously increasing

STANDARDS
The EU should maintain an enabling environment to achieve the highest standards in the extractive industries
Euromines current priorities

European Innovation Partnership (EIP) on raw materials
• Raw materials are an Engine for Growth in the EU
• Strategic Implementation Plan for the EIP on raw materials
• Competitiveness study, Critical raw materials study

Innovation/Research & Technical Development
• Horizon 2020
• Extractive industry as a major contributor to innovation in EU raw materials supply

Communication
• Improve the image of the industry as more environmentally friendly, trustworthy and innovative
• Establish and maintain good relationships with target audiences
• Share Knowledge
Some Global Issues
Raw Materials: Increased importance

• Minerals and metals represent the basis for any industrial production process. They provide both everyday products and new solutions for modern infrastructure and technologies.

• Increase in population and living standards will continue to drive growing demand for raw materials. Due to these developments resource efficiency measures such as optimizing reuse and recycling as well as extension of lifespan of products are not expected to close the material deficit by 2050.

• European mining companies and technology companies are playing an increased global role in securing access to raw materials.
In 2010, the nominal value of world mineral production was nearly four times higher than it had been in 2002. During this period, growth in value has been significantly greater than growth in world gross domestic product (GDP).
The Fraser Institute published the 2012/2013 annual survey of mining and exploration companies to assess how mineral endowments and public policy factors such as taxation and regulation affect exploration investment.

The Policy Potential Index (PPI) is a composite index, measuring the overall policy attractiveness of the 96 jurisdictions in the survey.
Export restrictions

- Important raw materials sources are increasingly located in parts of the world which lack political and economic stability. Over 50% of major reserves are located in countries with a per capita gross national income $10 per day or less.

- There are over **450 export restrictions** on more than **400 different raw materials**.

- The OECD Inventory confirms a transparency deficit in the design and implementation of export restrictions.

Source: Raw Materials Group, Sweden
How are we doing?
EU mines are among the most efficient in the world

- EU companies are at the forefront of innovation in raw-materials supply
- World renowned development and manufacture of mining and mineral processing equipment
- Competing in a global market through stand-out productivity performance
- Meeting or exceeding the EU’s strict environmental & safety standards
Meeting “base-load” demand

- Upgrading & maintaining infrastructure (health, transport, energy,...)
- Accommodating increased urbanisation
- Deploying new sustainable technologies
- Sharing equitably the benefits of new technologies
- Re-balancing lifestyles and employment across EU regions

The EU mining industry consistently adds more to proven reserves than it takes away
EU 28 share of Global Output

Source: BGS
EU28’s relative share of global NEEI output seems to have decreased over the last 10 years **BUT** Global output itself has increased significantly in that period.

- The EU has excellent transport networks and infrastructure.
- Strong support for R&I activity especially from public funds combined with a wide range of academic facilities provide a fertile environment for new innovative technologies to be developed within the EU.
- A stable investment climate **but**...Policy and legislation may, in some cases, impact negatively.
- Whilst there is political will to ensure security of supply, political opposition, as well as public opposition, especially locally, can work to hinder the development of the extractive industries.
• **Comprehensive data is lacking**, but it is understood that some of EU operators experience higher costs, specifically in labour and energy compared to competitors.

• There is a lack of knowledge of mineral endowment. A number of countries promote private sector investment in exploration. Such measures are rarely found in the EU28.

• The mining depth for some metals in the EU is deeper than in many countries and thus is likely to result in higher costs.

• Although R&D activity in Europe receives strong public sector support and funding, current levels of private funding are higher in comparator countries. ‘Leakage’ of R&I knowledge outside the EU is also a risk.
For a small number of minerals the EU is the world leader in production, e.g. salt. However, only for gypsum and potash does the EU account for over 10% of global production.

Economic and market data appear to show the EU as having a declining importance in the global market since 2003, as evidenced by its declining share of the world production, whilst the trade data indicate large trade deficits for ores.

Performance is not uniform, there are significant variations. For example, recent data demonstrates that the EU28 trade balance is positive for semi-finished critical metals and for non-aggregate construction minerals.
Cost Structures

• The EU generally has higher labour and energy costs but there is little reliable data on energy efficiency.
• This is particularly relevant to metal mining. Energy is required for mining and beneficiation of ores and thus higher unit costs place the sector at a significant competitive disadvantage.
• Much depends on the extent to which innovation within industry has allowed for the higher unit costs to be offset by improved productivity with respect to these input factors.
• Data on labour productivity and profitability is poor and it is difficult to draw specific conclusions. The best performers are countries which tend to have large open-pit mining operations, so the data may reflect, in part, the nature of the mineral endowment settings rather than a more fundamental structural problem of competitiveness.
• Open-pit mining is also influenced by a wide range of other social, environmental and economic factors.
Suggestions toward improved competitiveness

Improve knowledge of mineral endowment

There has been a lack of investment in basic geological survey work. The fundamental knowledge base is much weaker than it could be. This increases the risk of undertaking exploration activity, which, in turn, holds back the development of the EU’s indigenous resources.

More basic research is required to improve our understanding of Europe’s geology and thus to conduct more efficient and effective exploration. Other countries have been able to incentivise exploration by the private sector via the use of tax breaks and other fiscal instruments. The EU should seek to improve the knowledge of mineral endowment using modern techniques and seek to incentivise relevant research.
Increasing knowledge is key
Suggestions toward improved competitiveness 2

Address costs of energy
Energy costs in some parts of the EU are higher than some competitor nations.
Building on the efforts already made at an EU level at reducing the costs of energy, consideration should also be given to the amount of energy used by processes. Operators within the EU could be incentivised to benchmark their energy consumption and engage in knowledge sharing activities that may help reduce energy consumption further.

Focus R&I on more efficient extraction methods
The EU should look to focus and increase funding for R&I activity on helping to reduce the costs associated with deep deposits and recovering the value of materials contained in tailings. Effort should be made to promote the sharing of best practice within the EU.
EU RTD funding

HORIZON 2020 BUDGET (in current prices)

- **Industrial Leadership**: EUR 17.0 billion
- **Excellent Science**: EUR 24.4 billion
- **Euratom (2014-2018)**: EUR 1.6 billion
- **European Institute of Innovation and Technology**: EUR 2.7 billion
- **Societal Challenges**: EUR 29.7 billion
- **Other**: EUR 3.2 billion

- EIP-Horizon 2020 funding
- KIC on Raw materials
- Many calls on Raw Materials
- National Platforms
- ERAMIN joint calls
Simplify the regulatory framework

Policies within the EU are generally stable and mature compared to many competitor countries, but the regulatory framework is regarded as being time consuming and complex with quite unpredictable outcomes by industry. This may deter investment in the EU as the length of time from the commencement of permitting to starting extractive operations can be very long. Member States should be encouraged to review the legislation impacting on mining and quarrying activities and seek to simplify requirements by following better regulation principles. The EU could facilitate this process through several instruments, starting from sharing of best practice. Additionally the EU can also ensure that Member States' are actually calculating and monitoring the impact of legislation in line with best practice.
Public Acceptance
Current NGO agenda on mining

- Mining - environmental impact
- Mining - social impact
- Coal mining - environment impact
- Mining - tailings disposal and pollution
- Coal mining - social impact
- Financial institutions funding carbon industries
- Mining - regulation
- Mining - impact on indigenous people
- Uranium mining and pollution
- Tax havens, avoidance & financial transparency
- Financial institutions funding mining
- EITI and revenue transparency
- Coal burning and climate change
- Wildlife and habitat protection
- Repression of NGOs and rights activists
- Quarrying
- Coal burning and air pollution
- Mining and water use
- Coal mining - mountaintop removal MTR

Number of NGO campaigning actions Oct2013-Sep2014

Source: SIGWATCH
data ©2014
The EU Mining Industry Towards 2020
Sustainable production, Environmental-friendly products

• Create possibilities to keep production in the EU and attract as much investment in new facilities as possible.
• Extraction of metals and minerals in the EU should be encouraged.
• Developing new mining technologies and exporting them to the rest of the world.
What we need to help lift people in the EU out of poverty

• 20% industrial contribution to GDP by 2020 and more later.

• Successful conclusion of the EU-US trade agreement (TTIP).

• Resource efficiency strategies that drive contributions from whole value chains – including mining & quarrying in the EU.

• Development of “environmental footprints” into full “net benefit assessments” of products and processes in economic, environmental and social terms.
What we need to contribute to employment rates

- Explicit **political support** for mining as a particular growth strategy.
- Continued increase of minerals **exploration** in the EU Member States.
- Free movement of **labour** (e.g., EU job descriptions, standards, accreditations).
- Financial support for investments that target performance exceeding established standards.
What we need to invest in Europe

• **Predictable and stable policy** from the EU and Member States.

• An EU energy policy focused on creating a viable undistorted internal market that offers long-term supply contracts to industry.

• Deployment of all conventional and unconventional energy sources.

• **Reduced permitting times** in line with recommendations of the EU Semester.

• Recognition of **mine site rehabilitation**.
What we need to deliver maximum value over time

• Predictable and stable policy from the EU and Member States
  • No new legally binding targets for at least a decade.

• Protection from unfair global competition
  • Less unilaterally self-imposed costs (e.g., energy, auditing etc.).

• Deployment of all conventional and unconventional energy sources enabling affordable long-term energy contracts.

• Market rewards for stand-out productivity performance
We are responsible for our future

Thank you for your kind attention

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