FOREWORD
Europe is undergoing a painful transition. So many of the old received dreams, certainties and wisdom have been swept away and replaced by a much more unpredictable and challenging world. And yet, Europe still produces 75% of the raw materials used in its exports. Europe still has a viable resource base. Europe still has enviable intellectual and technological capital and Europe has truly tremendous people.

European mining demonstrates that every day. It competes in an increasingly difficult global market for sales, supplies, capital and people. Europe’s companies do not have the state support or even the image that competitors may still enjoy, they operate under the most stringent regulatory standards in the world and yet still innovate, compete and deliver consistently excellent performance. Every day.

Euromines has also changed, it has become much more focused on delivering concrete consistent and constructive results where they matter most to its members. The following pages illustrate some of what we now do.

But we have so much more to do. To strive for a robust and reliable and legal framework for mining in all of the EU Member States. To promote new investment in exploration and knowledge. To continue research and technology development. To show the world how to mine deeper, smaller and more complex deposits successfully. Every day.

More importantly we need public acceptance of the industry that provides so much value, so many benefits to the EU. 2014 must see us redouble our efforts to communicate what we do. Every day.

I am honoured to serve as President of Euromines, I am truly proud of what our industry does. We build a future for the children of Europe. Every day.

Mining is essential to the future of Europe. Believe it.

Mark Rachovides
President of Euromines
EUROMINES IN BRIEF

Euromines is the recognized representative of the European metals and minerals mining industry. The members’ main objective is to promote the industry and maintain their relations with European institutions at all levels. Euromines provides services to its members with regard to EU policy and forms a network for cooperation and the exchange of information throughout the sector within Europe. The association also supports contacts with the mining community throughout the world.
Euromines members are large and small companies who with their subsidiaries in Europe and in other parts of the world provide jobs to more than 350,000 people. Their activities and operations produce more than 42 different metals and minerals. For some metals and minerals, Europe is the world’s leading producer.

The association is based in Brussels and holds membership meetings twice a year. Its committees and working groups meet regularly throughout the year. Euromines also follows trade and investment issues for the mining industry both inside and outside of Europe.

EUROMINES MEMBERS’ MISSION

— To promote sustainable and prosperous mining in Europe through operational excellence;
— Serve as a network for cooperation and for the exchange of information throughout the sector within Europe;
— Foster contacts with the mining community throughout Europe and the world and wherever appropriate to achieve our shared objectives.

VISION FOR EUROPEAN MINING COMPANIES

A viable and responsible minerals and metals industry which provides the essential economic, social and environmental assets for society’s sustainable development.

EUROMINES STEERING COMMITTEE

— Mark Rachovides    President
  Eldorado Gold Corporation
— Jan Moström        Vice president
  Boliden
— Göran Bäckblom   Member
  LKAB
— Thorsten Diercks  Member
  Vereinigung Rohstoffe und Bergbau
— Thomas Drnek     Member
  Fachverband Bergwerke und Stahl
— Ingmar Haga      Member
  Agnico-Eagle
— Henryk Karaś     Member
  KGHM Polska Miedź
— Vasili Nicoletopoulos  Member
  Natural Resources GP
— Vicente Gutierrez Peinador  Member
  Iberpotash, S.A.
**EUROMINES REPRESENTATIVITY**

**Euromines Representativity in Metals Mining**
in % of EU production

- Bauxite: 100%
- Chromium: 100%
- Gold: 100%
- Iron Ore: 100%
- Silver: 100%
- Titanium: 95%
- Copper: 85%
- Tungsten: 80%
- Nickel: 75%
- Lead: 75%
- Bismuth: 53%
- Zinc: 55%
- Uranium: 100%

**Euromines Representativity in other Minerals**
in % of EU production

- Slate: 100%
- Aggregates: 55%
- Barytes: 80%
- Potash: 72%
- Magnesite: 54%
- Bentonite: 50%
- Sulphur: 72%
- Talc: 40%
- Graphite: 33%
- Mica: 50%
- Salt: 14%

**Euromines Representativity in Industrial Minerals**
in % of EU production

- Feldspar: 14%
- Kaolin: 13%
- Diatomite: 12%
FOREWORD

THIS IS WHO WE REPRESENT
— Euromines in brief
— Euromines Members’ Mission
— Vision for European mining companies
— Euromines Steering Committee

WE SEEK THE RIGHT CONDITIONS
— 1.1 Europe needs an Industrial Renaissance
— 1.2 Setting the Right Framework for European Economic Growth
— 1.3 Critical Raw Materials at EU-level
— 1.4 Wealth Creation by Mineral Extraction in Europe
— 1.5 ESCO: European Skills, Competences and Occupations taxonomy
— 1.6 The right measures of success

WE ADD VALUE THROUGH INNOVATION
— 2.1 European Innovation Partnership: building on Europe’s strengths
— 2.2 Strategic Implementation Plan: Active involvement in tackling the challenges
— 2.3 Raw Materials University Day: Promoting skills and employment
— 2.4 COBALT: 2020 European Resource Management
— 2.5 Horizon 2020: Coupling research and innovation
— 2.6 Sustamining Project: invisible, zero-impact mine/quarry

WE FIND IT
— 3.1 The European Technology Platform on Sustainable Mineral Resources
— 3.2 Horizon 2020, Promine, and ERAMIN (Network of National Research Funding Organisations on Raw Material Research)
— 3.3 European mineral potential presented at PDAC 2013
— 3.4 Investment in Europe finally UP!

WE SAFEGUARD THE ENVIRONMENT
— 4.1 Euromines President presents new approaches in regulating mine closure at Conference in Cornwall
— 4.2 Working for a smarter legislation: the revision of the EIA Directive
— 4.3 Access to Land - No Net Loss Initiative
— 4.4 Contributing to an appropriate stakeholders’ representation: the new Water Priority Substances Directive
— 4.5 Chemicals Management
— 4.6 Life Cycle Assessment and Product Environment Footprint --> as a measure of performance/progress

ENERGY IS APPLIED TO DELIVER IT
— 5.1 Access to competitively priced energy
— 5.2 ETS – backloading
— 5.3 ETS – Revision of the Carbon Leakage list

WE SET THE HIGHEST STANDARDS IN HEALTH AND SAFETY
— 6.1 But we need to do more – Safer by Design
— 6.2 Respirable Crystalline Silica (RCS)
— 6.3 Revision of the Carcinogen’s Directive (CMD)

WE TALK ABOUT IT
— 7.1 Euromines Raw Materials Campaign
— 7.2 European Minerals Day 2013
Before it’s yours...

WE SEEK THE RIGHT CONDITIONS
EUROPE NEEDS AN INDUSTRIAL RENAISSANCE

The minerals and mining industry is a major driver of the economy, occupying a primary position at the start of the resource supply chain. Minerals and mining have brought significant economic opportunities in Europe — such as jobs — particularly in the areas where unemployment levels are high. Euromines members can contribute even more to the European Industrial Renaissance now crucial to Europe’s future. The EU is emerging from its longest-ever recession but the economic recovery and reversing trends in employment cannot happen without industry. EU28 GDP grew by 0.2% in the third quarter of 2013. This is a positive sign for the EU, but the recovery remains modest, with European Commission forecasts of 1.4% GDP growth for the EU28 in 2014 and unemployment rates close to 11% for the next two years. Today manufacturing industry accounts for over 80% of Europe’s exports and 80% of private research and innovation. In total, 1 in 4 private sector jobs are in industry and 1 job created in manufacturing industry generates up to 2 jobs in the services sector. The manufacturing industries are at the core of industrial clusters, and are important elements of the supply chain, thereby contributing to the EU’s economy competitiveness. But the industrial basis of Europe has been continuously declining since the 1990s. Industry’s share in Europe’s GDP is now down to 15.1%. Since 2008, 3.5 million jobs have been lost in manufacturing. However, without primary and secondary raw materials the downstream industries cannot survive and it should not be forgotten that the primary industry in Europe in particular provides jobs in regions where often other employment cannot be found.

“Industry is at the heart of Europe and indispensable for finding solutions to the challenges of our society, today and in the future. Europe needs industry and industry needs Europe. We cannot continue to let our industry leave Europe. Our figures are crystal clear: European industry can deliver growth and can create employment. That is why we have adopted a detailed strategy for the re-industrialisation of Europe.”

European Commission Vice President Antonio Tajani

SETTING THE RIGHT FRAMEWORK FOR EUROPEAN ECONOMIC GROWTH

For more than seven years Euromines has been an active partner in the preparation, implementation and promotion of the Raw Materials Initiative strategy which sets out targeted measures to secure and improve access to raw materials for the EU. Based on a three-pillar approach, it aims at improving access to raw materials for Europe. On 24 June 2013, the European Commission adopted a Report on the implementation of the Raw Materials Initiative. The aim of this report is to present the current state of play with respect to the implementation of the Raw Materials Initiative and provide an overview of the ongoing initiatives while highlighting the joint interest for the EU and third countries rich in raw materials to work in partnership.

1 http://www.euromines.org/publication/sustainable-gold-mining-europe-greek-language-version
CRITICAL RAW MATERIALS AT EU-LEVEL

Securing reliable and undistorted access to raw materials is a major and growing concern both within the EU and across the globe. As a consequence, the Raw Materials Initiative was instigated to manage responses to raw materials issues at an EU level. This ongoing process requires constant inputs from the industry and here Euromines represents the voice of the European mining industry.

At the heart of this work is defining critical raw materials at the EU level. These critical raw materials have a high economic importance to the EU combined with a high risk associated with their supply. The first analysis of EU critical raw materials was published in 2010 by the Ad-Hoc Working Group on Defining Critical Raw Materials. Fourteen critical raw materials were identified from a candidate list of forty-one non-energy, non-food materials. The group where Euromines had its representatives highlighted the need to revise this list at regular intervals.

A first revision of the list was carried out throughout 2013. The purpose of the revised study is to support the European Commission in assessing the criticality of selected raw materials. The identification of critical raw materials at EU level is an important action of the EU’s raw materials strategy cutting across the value and the supply chain.

The updated list of Critical Raw Materials is due for publication in June 2014. Even considering the increase in scope of materials considered in the assessment, the list of Critical Raw Materials has risen to 21, with a few significant additions.

WEALTH CREATION BY MINERAL EXTRACTION IN EUROPE

A vast array of raw materials, including minerals and metals, play a key role in the development of industrial applications and advanced consumer products. We have become very dependent on highly specialised metals and alloys. Some are relatively rare metals, yet essential in the manufacture of advanced technological products. Hosted by the European Economic and Social Committee (EESC), the mining industry held an event on Wealth Creation by Mineral Extraction in Europe on 3rd December 2013.

In the presence of Mr. Ingmar Haga, Vice-President Europe of Agnico-Eagle (the company that operates the EU’s largest operating gold mine at Kittilä in Finland), Ms. Anna Mäkelä, the mayor of Kittilä, Mr. Gwenole Cozigou, Director responsible for Resources Based, Manufacturing and Consumer Goods Industries at DG Enterprise and Industry of the European Commission, Mr. Francisco Javier Fernández Cortés, Director of a technological centre focusing on Marble, Stone and Materials, Ms. Hilde Van Laere, Delegate of the European Economic and Social Committee, Prof. Vladko Todorov Panayotov, Member of the European Parliament, Prof. Per Nicolai Martens from RWTH Aachen University, the participants discussed the importance of regional development and innovation for the sector and for Europe.

Mr. Mark Rachovides, President of Euromines, closed the conference debate by stressing that Europe is resource-rich in terms of mineral deposits, ideas and people and can meet tomorrow’s raw materials challenges. Above all, he highlighted that regulatory standards must enable progress and good performance and can make a real difference when it comes to innovation, where Europeans and European companies are world leaders.

On the occasion of the event Euromines launched its new publication “Sustainable Gold Mining”2. This publication aims at presenting detailed information regarding gold, its numerous uses as well as the standards applying to gold mining production in Europe. It presents concrete examples of modern-day gold mining operations and their contribution to EU’s sustainable growth.

2 http://www.euromines.org/publication/sustainable-gold-mining-europe-greek-language-version
1.5 ESCO: EUROPEAN SKILLS, COMPETENCES AND OCCUPATIONS TAXONOMY

The European Commission is developing a European Skills, Competences and Occupations taxonomy (ESCO), which will describe the most relevant skills, competences and qualifications needed for several thousand occupations in Europe. Euromines contributes to the discussions as an expert on the extractive sector.

Aimed at institutions and stakeholders in the labour market and education sector, this new tool will be progressively developed over the coming years to include as many occupations as possible. Once finalised, ESCO will be the first classification of its kind available in all EU languages.

1.6 THE RIGHT MEASURES OF SUCCESS

During 2013, a preliminary set of 20 indicators was discussed with Member States and industry (including Euromines) in the European Commission Raw Materials Supply Group to monitor actions by Member States in relation to National Minerals Policy, Land Use Planning, authorisation and permits. A first round of reporting was completed, the results of which will be presented at the Presidency Conference in Athens in June 2014. This has been significant step that will provide a first insight toward revealing the current state of play and trends, and highlighting some practices worthwhile exchanging amongst Member States. Many (but not all) countries are in the process of establishing national Minerals Policies and reviewing their linkages to other national policies.

How will the new Resource-Efficient EU recognise itself? Euromines members entered this debate in 2011 when we published “Views on Indicators of Resource Efficiency”3. Throughout 2013, the European Resource Efficiency Platform (a group hand-picked by Janez Potočnik, European Commissioner for Environment) worked on the question. Euromines worked behind the scenes to contribute to the important debate, despite its members having been inexplicably excluded from the group’s meetings. The group was disappointingly only able to propose indicators that had already been identified as inadequate in the 1990s and Euromines continues to discuss alternative indicators of Resource Efficiency with the highest levels of the Commission. A proposal is expected within a Communication to be adopted in the summer of 2014.

3 http://www.euromines.org/publication/views-indicators-resource-efficiency
Before it’s yours...
WE ADD VALUE
THROUGH INNOVATION
2.1 EUROPEAN INNOVATION PARTNERSHIP: BUILDING ON EUROPE’S STRENGTHS

The supply of raw materials, the lifeblood of today’s and tomorrow’s high-tech industry, is increasingly under pressure. With a view to easier access to raw materials for Europe, the European Commission has proposed to set up a European Innovation Partnership (EIP) on Raw Materials. Euromines members welcome the acknowledgement of the importance of raw materials for the growth and competitiveness of Europe’s economy and society.

It has been estimated that the value of unexploited European mineral resources at a depth of 500 – 1,000 metres is about € 100 billion (source EC). This is also why a European Innovation Partnership on raw materials has been set up by the Commission towards increasing Europe’s own production.

In the meantime (until 2020), the EIP on Raw Materials will promote both technological and non-technological innovation along the entire value chain of raw materials (i.e. exploration, extraction, processing, refining, re-use, recycling, substitution) involving stakeholders for relevant upstream and downstream sectors. The Partnership will bring advantages in the longer term. For example, (a) new exemplary cost-effective, environmentally sound and safe technological solutions for securing supply of raw materials, and (b) knowledge and skills in the EU to attract investment by industry bringing new jobs and growth to the EU economy. The commitment of EU Member States to contribute to the EIP is welcomed wholeheartedly by the extractive sector.

2.2 STRATEGIC IMPLEMENTATION PLAN: ACTIVE INVOLVEMENT IN TACKLING THE CHALLENGES

The Strategic Implementation Plan (SIP) of the EIP on Raw Materials was adopted by the High Level Steering Group (HLSG) of the EIP on 25 September 2013 in Brussels. Euromines has been present through its members, staff and association together with the ETP-SMR in the operational groups, the Sherpa group and the HLSG. The SIP addresses all actions deemed necessary to achieve the objectives and targets of the EIP, including research and development along the value chain, raw materials knowledge, exchange of best practices, revision of selected legislation, licensing steps, standardisation, and policy dialogues.

Euromines members have already prepared a whole series of proposals for actions aligned to SIP priority areas. One key area where Euromines members would like to contribute in cooperation with the European and national governments is to ensure a stable and competitive framework for primary raw material supply from EU sources. This will involve working with the European regions to increase awareness of the vital nature of the mining sector.

Photo: LKAB, Fredric Alm
2.4 COBALT: 2020 EUROPEAN RESOURCE MANAGEMENT

In November 2013 the Commission funded project “COBALT” started by its two day conference “Industry and Society’s needs for sustainable management of raw materials in Europe: Exploring solutions for future action”. Euromines welcomes and supports this project since the European mining industry is one of the most important and sustainable suppliers and an important stakeholder in this process. In this context, it is Euromines’ strong belief that the EU-funded FP7 project COBALT, provides for a joined debate aimed at bringing together the management of sustainable raw materials across the whole value chain into the public arena. This supports simultaneously, the main objectives of the EIP on Raw Materials by acknowledging the importance of the extractive industry as a crucial stakeholder contributing to the security of raw materials supply.

2.3 RAW MATERIALS UNIVERSITY DAY: PROMOTING SKILLS AND EMPLOYMENT

In December 2013 the European Commission launched a communication campaign “Raw Materials University Day” in the framework of the EIP on Raw Materials. The successful implementation of the EIP depends on the ability to communicate on the challenges of the sustainable supply of raw materials. Euromines members are ready to play an active role. Despite the fact that Europe has many universities with a long tradition and excellent programmes in the raw materials sector, the need for more knowledgeable and skilled professionals is still high. The aim of the Raw Materials University Day is to attract young people that are choosing what to study or future graduates who we would like to be informed about the study and working opportunities in the raw materials sector. Euromines members intend to be actively involved in the Raw Materials University Day initiative.
HORIZON 2020: COUPLING RESEARCH AND INNOVATION

Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the further private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the laboratory to the market. Euromines supports the Horizon 2020 proposal which explicitly mentions Raw Materials as one of its priorities.

Horizon 2020 will be the financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe’s global competitiveness.

Seen as a means to drive economic growth and create jobs, Horizon 2020 has the political backing of Europe’s leaders and the Members of the European Parliament. They agreed that research is an investment in our future and so put it at the heart of the EU’s blueprint for smart, sustainable and inclusive growth and jobs.

SUSTAMINING PROJECT: INVISIBLE, ZERO-IMPACT MINE/QUARRY

The Sustamining project marks the start of a series of development activities aiming to realize the concept of an invisible, zero-impact mine/quarry. Euromines is one of the project partners.

The natural stone extractive sector, still seen as being old-fashioned and highly environment polluting, will join forces to correct this image showing that natural stone extraction can be approached with a cutting edge methodology with low impact underground and zero impact above ground.

Faced with this problem, the project aims to develop technological support for the sector covering both research centres with expertise in natural stone, business associations and SMEs.

The total project budget is more than €2.5 million out of which €1.5 million project funding by the European Commission as a part of EU Seventh Framework Programme.

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4 [http://www.sustamining.eu/]
Before it's yours...

WE FIND IT
3.1 THE EUROPEAN TECHNOLOGY PLATFORM ON SUSTAINABLE MINERAL RESOURCES

The sector’s own European Technology Platform (ETP SMR)\(^5\) formalised its legal existence in 2013 and is now an established “association internationale sans but lucrative” (aisbl) under Belgian law.
ETP SMR organised a first brokering event in December 2013 and its current President Dr. Corina Hebestreit was also appointed member of the Industrial Advisory Group for Horizon 2020. The ETP SMR is represented on the EIPs High Level Group and whilst driving the joined research agenda forward and providing insight to the debates, is also trying to encourage deployment of the innovative potential of the sector.

3.2 HORIZON 2020, PROMINE, AND ERAMIN (NETWORK OF NATIONAL RESEARCH FUNDING ORGANISATIONS ON RAW MATERIAL RESEARCH)

Under the Commission’s research funding programme Horizon 2020 One of the big flagship projects of the extractive industry – ProMine\(^7\) – won one of the prestigious EU prizes for best project and was awarded this in 2014 in Athens.
Still ongoing projects such as I2MINE\(^8\), EURARE\(^9\), EUROGEOSOURCE\(^10\), IMPACTMIN\(^11\) and MINERALS4EU\(^12\) will yield more results and will enhance the EU’s competence in mineral raw materials.

ERAMIN\(^6\) launched its first joined call between two Member States in 2013 making national RTD funding available and completing the research funded by the Commission.

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6 [http://www.era-min-eu.org/](http://www.era-min-eu.org/)
7 [http://promine.gtk.fi/](http://promine.gtk.fi/)
8 [http://www.i2mine.eu/](http://www.i2mine.eu/)
9 [http://www.eurare.eu/about.html](http://www.eurare.eu/about.html)
10 [http://www.eurogeosource.eu/](http://www.eurogeosource.eu/)
12 [http://www.minerals4eu.eu/](http://www.minerals4eu.eu/)
EUROPEAN MINERAL POTENTIAL PRESENTED AT PDAC 2013

Encouraged by the EU’s newly launched EIP on Raw Materials and the intensified activities of European geological surveys and academic institutions, the interest in European mineral deposits is increasing. Euromines promoted European mineral potential in March 2013 at the Prospectors and Developers Association of Canada’s global annual event.

At a two-day course, organised by a new pan-European research and industry collaborative body, European Ore Deposit Initiative (EODI), an overview of the metal endowment of the “Old World” of Europe was given. Held on 1st and 2nd March 2013 under the chairmanship of Prof. Herrington, Natural History Museum of London, over 60 geologists and exploration managers discussed a range of European mineral deposits and their future mining potential. Euromines presented its activities and the expectations it has for the EIP on Raw Materials fostering research and innovation in the sector and improving legal frameworks.

Exploration in Europe deserves stronger support since it is both crucial to future regional economic development and is the stepping stone to the future raw materials supply for Europe. Key issues to now attract risk capital are
— Free availability of pre-competitive geological data,
— Access to land,
— Public and political support.
### 3.4 INVESTMENT IN EUROPE FINALLY UP!

Exploration in Europe is only today starting to reap the benefit of increased investment and improved technology deployed in recent years. Europe is not “mined out”. Instead, the mining industry consistently adds more to proven reserves than it takes away. In 2013 the investments in the pipeline increased significantly as illustrated in the table.

However total corporate exploration expenditure in Europe during 2013 was 450 MUSD* or 3.1 % of world total. This was down by 36 % compared to 2012, when Europe’s share of global expenditure was 3.4%. It is worrying that the expenditure compared to total global exploration dropped in 2013 indicating a deteriorating competitive climate in Europe in spite of high level political interest in the mining sector from both national governments and the EU. Roughly half the funds were spent on base metal exploration, 30 % on gold and the remainder on all other metals. The Nordic countries, Greenland, Norway, Sweden and Finland, are the most favoured accounting for some 40 % of the total in both 2012 and 2013.

* All European countries excluding Belarus, the Ukraine, Moldova, Georgia, Armenia, Russia.

Turkey is not included. Only metal exploration is included.

Source: Raw Materials Group/SNL Metals & Mining
Before it's yours...

WE SAFEGUARD THE ENVIRONMENT
4.1 EUROMINES PRESIDENT PRESENTS NEW APPROACHES IN REGULATING MINE CLOSURE AT CONFERENCE IN CORNWALL

Euromines President Mr. Mark Rachovides gave one of the keynote speeches at Mine Closure 2013, a global meeting on responsible mine closure. The conference took place at the Eden Project, itself a former mine within the world heritage mining landscape of Cornwall. The conference was focusing on mine closure and its socio-economic and environmental legacies.

Mr. Rachovides presented new approaches to regulating mine closure and addressed regulatory issues in closure planning and asset retirement in Europe. He stressed that Euromines members promote best practice and integrate the management of environmental impacts across all phases of mine-life from exploration to mine closure by preparing guidance for industry and contributing to EU Guidance on a variety of topics, including mine waste management.

In his presentation Mr. Rachovides also introduced a new initiative of the European Commission the European Innovation Partnership on Raw Materials (”EIP”) where special attention will be given to promoting the full and proper implementation of existing legislation to increasing the exchange of best practices related to the implementation of Environmental and Minerals Policies in Member States, particularly in land use, mining waste, and the sustainable management of resources.

4.2 WORKING FOR A SMARTER LEGISLATION: THE REVISION OF THE EIA DIRECTIVE

The Environmental Impact Assessment (EIA) Directive is an extremely important piece of legislation. Each significant industrial project has to undergo such an assessment aiming at measuring and ultimately lowering its effects on the environment prior to its permitting; mining projects included.

The current EU legislative framework dates back to a directive adopted in 1985, which has been amended by subsequent instruments. The European Commission decided to move on and published a consolidated version of the Directive 2011/92/EU in December 2011, to facilitate completion of the revision initiated in 2010 through a public consultation. With the full support of its Members and in coordination with a number of other stakeholders, Euromines called for a clear, consistent and predictable EIA regime meeting high environmental standards.

The final compromise agreement reached by the European Parliament, the Council and the European Commission on 18 December 2013 and officially adopted on 16 April 2014, overcomes a number of shortcomings identified in the initial proposal. Though the revised EIA regime will be more demanding than the existing one, overall the revision lead to a more balanced text than what was initially proposed.
4.3 ACCESS TO LAND - NO NET LOSS INITIATIVE

As part of its Roadmap on Resource Efficiency, the European Commission committed to come forward with an initiative in 2015 to achieve “No Net Loss of Ecosystems and their Services”. In 2012 it invited Euromines to take part in an ad-hoc working group to collect the views of Member State representatives, stakeholders and experts on the way forward. A final set of documents was adopted during the last working group meeting on 5th July 2013.

2013 also saw the European Commission adopt its Communication on Green Infrastructure, to which Euromines contributed through submissions to stakeholder consultations. Green Infrastructure has been described as a network of natural and semi-natural areas which perform a wide range of ecosystem services such as water retention and carbon sequestration. The current focus is on collection of sufficient spatial data to map existing ecosystem services and facilitate green infrastructure development. The European Commission is expected to follow up with a proposal to develop EU-level green infrastructure projects in 2014-15.

Euromines also contributed to the International Council on Mining & Metals (ICMM) commissioning an independent overview of the current issues regarding biodiversity offsets, which was published jointly with the International Union for the Conservation of Nature (IUCN) in July 2013. Euromines submitted the published report to the European Commission to support its own considerations of the role of offsets in achieving No Net Loss.

January 2013 marked the beginning of the one-year trial period of a “Cross Sector Biodiversity Initiative” created by ICMM, IPIECA (the global oil and gas industry association for environmental and social issues) and the Equator Principles Association to develop and share good practices and practical tools to apply the International Finance Corporation’s Performance Standard 6 on Biodiversity Conservation. Euromines is a founding member and is participating in the development of practical tools and good practices for managing potential project-related impacts on biodiversity and ecosystem services by application of the mitigation hierarchy (avoid, minimise, restore and offset).

The combination of Green Infrastructure projects and EU No Net Loss legislation has potential to reveal further opportunities that exist for mining projects to cost-effectively contribute to biodiversity conservation objectives within the EU. Euromines and its members will continue to contribute to the EU Biodiversity Strategy and propose workable alternatives to placing further tracts of land effectively off limits to mining.

4.4 CONTRIBUTING TO AN APPROPRIATE STAKEHOLDERS’ REPRESENTATION: THE NEW WATER PRIORITY SUBSTANCES DIRECTIVE

The adoption of the water priority substances directive was formally completed on 12 August 2013 with the publication, in the Official Journal of the European Union, of Directive 2013/39/EU amending Directives 2000/60/EC and 2008/105/EC as regards priority substances in the field of water policy.

The publication of this new directive closed a revision process initiated with the publication of the Commission’s proposal that began in 2012. The new directive added 12 new priority substances to the existing list and updated the environmental quality standards (EQS) of certain substances already listed such as lead or nickel. The most relevant innovation in the revised directive is creation of a new mechanism – called the “Watch List” – aiming at supporting future prioritisation exercises by collecting high quality data on substances which could pose an EU-wide risk to the water environment.

Euromines supported such a mechanism and paid specific attention to the presence in the directive of provisions ensuring a scientific selection of substances ‘to be watched’ and an effective participation of the relevant stakeholders in that process through inter alia the existing mechanisms set up by the European Commission. The Directive now meets those expectations and the work leading to the next prioritisation exercise has already begun.

4.5 CHEMICALS MANAGEMENT

The International Maritime Organization (IMO) continued to work through updates to its shipping codes so that regulatory authorities around the globe will require much clearer information about many of the cargoes that our industry transports. Amendments to the International Convention for the Prevention of Pollution from Ships (MARPOL) include new criteria to determine which cargoes are regarded as chemically harmful, both environmentally and to human health. During 2013, the work led to the drafting of preliminary lists of solid bulk cargoes classified as harmful to the marine environment (HME), with a view to addressing the difficulties experienced by ship owners and operators in obtaining HME declarations. However the final lists are developed and applied, it will be important that they do not contradict the classifications notified to the European Chemicals Agency in 2010. The Euromines Environment Committee and National Federations supported the ICMM in trying to ensure that metal specificities are properly addressed in the final lists at the IMO.

The draft text of a new United Nations Convention on Mercury was completed in January 2013 and adopted at a Diplomatic Conference in Minimata, Japan, on 9-11 October 2013. The Parties adopted Resolutions for co-operative work on technical guidance to the Convention, the work of which has already begun. Euromines National Federations will directly support the ICMM in contributing to the guidance.
4.6 LIFE CYCLE ASSESSMENT AND PRODUCT ENVIRONMENT FOOTPRINT --> AS A MEASURE OF PERFORMANCE/PROGRESS

In order to improve the availability of clear, reliable and comparable information on the environmental performance of products and organizations, the EU Single Market for Green Products initiative\(^ {14}\) proposes to establish two methods to measure environmental performance throughout the lifecycle; the Product Environmental Footprint\(^ {15}\) (PEF) and the Organization Environmental Footprint (OEF). For this reason, through a Commission Recommendation\(^ {16}\), a three-year testing period was established to develop product and sector specific rules through a multi-stakeholder process.

In the autumn of 2013, Euromines joined a successful bid to the European Commission to pilot the setting of Category Rules for the assessment of the Product Environmental Footprint (PEF) of a “metal sheet”, which will run for three years (2014-2016). The Product Environmental Footprint Category Rules – PEF CRs, resulting from the PEF pilot phase will become the product rules valid under the PEF, to be used by all stakeholders who decide to measure the performance of their products based on PEF.

There is a significant lack of agreement around what is the right method to use to measure depletion of natural resources (referred to as “Resource Scarcity” in the Life Cycle Assessment Handbooks) and consequential impacts on the future possibility to use those resources. The project will respond directly to such questions and the proposals currently made in the PEF Guidance from the point of view of the metals & minerals supply industry. Some of those views are already published in Euromines’ “Views on Indicators of Resource Efficiency”\(^ {17}\), which the Euromines Policy Committee developed in 2011.

\(^{14}\) http://ec.europa.eu/environment/eussd/smgp
\(^{15}\) http://ec.europa.eu/environment/eussd/smgp/pef_pilots.htm
\(^{17}\) http://www.euromines.org/publication/views-indicators-resource-efficiency
Before it's yours...
ENERGY IS APPLIED TO DELIVER IT
ACCESS TO COMPETITIVELY PRICED ENERGY

Manufacturing industry needs access to competitively priced energy. An EC report (22 Jan. 2014) confirms that electricity costs are two to three times higher in the EU than in the US, with a 70% increase since 2000 for EU industry (stable in the US). Regulatory costs (subsidies for renewables, taxes, grid costs, etc.) are the main reasons for this widening gap.

— Natural gas prices are three times higher in the EU than in the US.

— Energy intensive industry is a price taker and cannot pass on additional costs to its mainly global customers.

— Restoring global energy cost competitiveness is a priority. Solutions exist but must address all energy cost components and require a strong political support.

— The transition to a low-carbon economy must be driven in a cost- and time adjusted manner.

Enabling the EU manufacturing industry to grow will automatically reduce global greenhouse gas emissions since the EU industry is far advanced in energy efficiency comparison to many of its worldwide counterparts. Sufficient CO₂ allowances must be available for growth and new investments, including for indirect electricity emissions.

After all, growth of efficient industrial production must be welcomed within the EU. Euromines issued a position paper on the need to assess shale gas and oil extraction in a scientific and unbiased way. The organisation has further stressed vis-à-vis the Commission that as long as there is no energy available at competitive prices the energy-intensive parts of the extractive industry need alleviation through exemption from CO₂ licence auctioning.
5.2 ETS – BACKLOADING

In July 2012, the European Commission issued a proposal to postpone the auctioning of an as yet undefined number of CO₂ allowances towards the end of the third trading period. The purpose was to ensure the ‘orderly’ functioning of the EU ETS.

The EU is intent on maintaining the 2020 target formula agreed upon under the third Climate and Energy package and most industry sectors wish not to revise it unilaterally unless the carbon leakage issue is solved by an international climate agreement. Any interference within the agreed policy framework will simply increase the costs for industry. By hampering predictability and by increasing regulatory risk of further intervention, it will also deter investments at a time when the EU economy is still on its way out of the crisis.

The new proposal for the European Emission trading scheme post 2013 will be another constraint on the competitiveness of the European industry by imposing further costs on the enterprises which competing producers worldwide do not have to reckon with. It is therefore crucial that energy-intensive industries which face fierce competition are given special allowances in this new scheme.

5.3 ETS – REVISION OF THE CARBON LEAKAGE LIST

Under the ETS Directive in 2013 the Commission embarked on the revision of the Carbon Leakage List to be finalised in 2014.

In this context the Commission had appointed the consultant Ecofys to assess the shortcomings of the methodology used so far and to make recommendations for the next phase. This report is concluded, but not publicly available yet.

For those members of Euromines that obtained the status on ETS Regulation’s Carbon Leakage List which grants companies free CO₂ allowances.

The Commission was expected to publish its preliminary revised Carbon Leakage List by the beginning of May 2014.

In the meantime the Commission is also providing guidance for the inclusion of certain sectors into the Annexes of the EU subsidy regulation which would allow sectors to receive compensation for increased electricity prices due to the ETS Directive and increased energy prices. This guidance is also expected to be adopted in the 2nd quarter of 2014.
Before it's yours...

WE SET THE HIGHEST STANDARDS
IN HEALTH AND SAFETY
BUT WE NEED TO DO MORE – SAFER BY DESIGN

Hosted by the European Economic and Social Committee (EESC) the European Minerals Foundation Forum together with a whole range of extractive industry associations held an event on “Working together for accident prevention” on 27th November 2013. Euromines was represented by Mr Simon Hunter, Chairman of the Euromines Health and Safety Committee and member of the Standing Working Party Extractive Industry (SWPEI).

Mr Armindo Silva, Director, Employment and Social Legislation, and Social Dialogue, gave the opening speech and reminded the participants of the fact that the extractive industry in Europe - like agriculture - is one of the strategic industries in Europe. He recalled that there were many thousand sites across Europe supplying vital resources to the downstream industry and the overall economy and that the extractive sector provides 300,000 jobs across the Union.

He recalled that employment and safety go hand in hand and welcomed this particular initiative of two industrial sectors to create new safety standards.

Policy issues such as eliminating illegal extraction and imports of sub-standard machinery, as well as permitting standards and technical machinery standards were being discussed. The importance of standardisation was highlighted by several participants. Standardisation can assist to raise safety standards, but rather than locking in existing technologies, EU competitiveness is achieved by developing new ones.

The extractive industry and machinery producers agreed on closer cooperation in achieving higher, but cost-effective technical solutions and increased safety standards when it comes to the interface between machines and people.
6.2 RESPIRABLE CRystalline SILICA (RCS)

The Commission confirmed that the ACSHH (Advisory Committee for Safety, Hygiene and Health Protection at Work) did not come to a common position for respirable crystalline silica (RCS) and the legislative route for setting a RCS Occupational Exposure Limit remains open. In 2013 the Commission began an impact assessment study for the revision of the Carcinogens Directive. The NEPSI partners submitted an additional socio-economic analysis.

In the case of Respirable Crystalline Silica (RCS) the Commission has withdrawn the funding for the Social Dialogue Agreement - not for political reasons, but for cost-cutting reasons. However, the employers fear that due to the lack of financial support, also the acceptance of the agreement will dwindle. Euromines continues to support the Social Dialogue Agreement. The inclusion of RCS into the Carcinogen’s Directive will be re-discussed in 2015.

6.3 REVISION OF THE CARCINOGEN’S DIRECTIVE (CMD)

The revision of the Carcinogen’s Directive (CMD) has proven to be a lengthy exercise which is very much dominated by a very strict policy of the European workers unions. More and more substances that are now being reconfirmed or newly confirmed in their classification (also under REACH) are taken up by the Commission’s Advisory Committee and their Scientific Committee and are being proposed for inclusion into the CMD and the Chemical Agents Directive. Due to the REFIT exercise, a European review of all health and safety legislation, all discussions are delayed, probably until 2015, thus delaying all discussions on OELs for respirable silica, diesel exhaust, and NO₂.

Occupational Exposure Limit for NO₂

In June 2013 the SCOEL published its final opinion for consultation. Following detailed discussion also with outside experts for the first time the SCOEL has accepted the scientific evidence of epidemiological studies and concluded to set the OEL (8-hour TWA) for NO₂ at 0.5 ppm and a STEL (15 min) of 1.0 ppm. Euromines provides scientific input into the debate and new discussions are expected for 2014.

Occupational Exposure Limit for Diesel exhaust

Following the classification of a carcinogen by WHO the Commission has proposed to set an OEL of 100 µg/m³, which is even with the most modern fleet of machinery not manageable for underground mines. The Advisory Committee has concluded its opinion unfortunately not taking into account the position of the industry formulated in a joint position between Euromines and IMA-Europe.

As next steps it is expected that the SCOEL and the Commission will take position and that then the industry might have to put forward socio-economic arguments in order to prevent the low OELs. Again the REFIT exercise has brought everything to a halt.
Before it's yours...  
WE TALK ABOUT IT
7.1 EUROMINES RAW MATERIALS CAMPAIGN WWW.EUMINING.ORG

At the end of 2013 Euromines finalised preparation of its new Euromines Raw Materials Campaign. The www.eumining.org website was officially launched in February 2014. The website is composed of photographs which represent the products, objects and architecture that are symbolic of different European countries. We are highlighting the fact that it is mining that provides us with valuable resources which are used for many essential consumer goods, communication networks, housing, infrastructure etc. that we rely on daily - sometimes for centuries. This is done in a visual way accompanied by the slogan: “Before it’s yours, we mine it”. The slogan is translated to a number of European languages.

At this stage of the campaign each European country is represented by one photograph that represents either a typical producer object of the country, a famous monument and/or architecture. (We plan to enlarge the number of pictures per country in the second stage of the campaign.) The re-launch of the campaign (second phase) is planned for September 2014. In the second stage of the campaign we plan to add a sentence “Did you know?” including interesting information about the product/object in the photo. This sentence should also be translated to all available languages.
Around 30,000 children and adults celebrated the 4th edition of the European Minerals Day on 24-26 May 2013 at their local quarrying or mining operations, to explore the fascinating world of minerals and discover how essential they are to our daily life. Overall, more than 170 events took place, organised by producers and national geological surveys at around 113 sites – quarries, mines or plants - in 24 countries all over Europe, and beyond. Through guided visits, visitors got the opportunity to learn more about today’s sustainable mining practices, from exploration, extraction, sorting and mineral beneficiation processes, as well as the wide range of end-use applications, as well as good environmental practices.

Initiated in 2007, this biannual awareness raising event has been warmly welcomed from the start by the European Commission, who made reference to it in the Raw Materials Initiative, acknowledging the need for a greater understanding of the importance of the minerals sector to foster public acceptance of one of the key drivers of European competitiveness.

The European Minerals Day 2013 put particular focus on the key themes of the EIP including innovation and resource efficiency all along the value-chain. Whereas companies demonstrated the integration of these key concepts in their mining operations, the European Trade Associations partnering up under the European Minerals Day 2013, organised several events in the European Parliament for the EU stakeholders in Brussels thanks to the support of MEPs Rübig, Panayotov, Leinen, Helmer and Szymanski and the European Commission. The exhibition entitled “The European minerals sector – an essential, innovative industry, throughout the value chain”, took place from 6-8 May 2013 and welcomed more than 500 visitors – with 150 stakeholders attending the successful launch by MEP Panayotov and Ms Benini, Member of the Cabinet of Vice-President Tajani. A high level dinner and raw materials conference took place as satellite events on 13 & 15 May 2013.

On 24 May, European Commission Vice-President Antonio Tajani launched, in person, the 4th edition of the European Minerals Day in Vipiteno, Italy. The Vice-President visited with great interest Omya's modern and highly resource efficient underground mining operations, which linked perfectly to the Innovation and Resource Efficiency theme. The purpose was indeed to show that the European extractive industry is driven by resource efficiency and sustainability, and a partner in achieving the Europe 2020 agenda.


The next edition will take place in May 2015.