Baltic mining cluster - Europe and the World

Magnus Ericsson

Copper drawing: Kaianders Sempler.

Swedish & Polish contribution to the EU Raw Materials Initiative
Brussels 27th November 2012
Global metal mining

Global metal mining

China 14.8%

Global mining - incl. coal

China 29 %


Global mining – geography

% of global mining

1850 1870 1890 1910 1930 1950 1970 1990

Europe
USA
China
USSR/CIS
Australia/Canada
6 resource rich dev. countries
Agenda

• Global mining
• European exploration, mining
• Baltic cluster
• Future ?
Raw Materials Group

- Merged with Intierra 2012 → IntierraRMG
- Raw Materials Data: Metals/Coal/Iron Ore
- Strategy development companies
  - Mining, exploration equipment & service
- Mineral policy, investment promotion
  - Governments, International organisations
- Pre-feasibility/Feasibility studies
  - Financial institutions, companies
- Newsletters: Investment trends; Iron Ore, Copper, Nickel Quarterlies
European exploration & mining

Nickel drawing: Kaianders Sempler.
Value of mineral production

Mines in Europe

Value of mine production

## Mining companies

<table>
<thead>
<tr>
<th>Rank world 2011</th>
<th>Company name</th>
<th>Country</th>
<th>Share of value of world mine prod (%)</th>
<th>Cumul share of world 2011 (%)</th>
<th>Main metal value share (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>LKAB</td>
<td>Sweden</td>
<td>0.600</td>
<td>0.60</td>
<td>Fe 100</td>
</tr>
<tr>
<td>30</td>
<td>KGHM Polska Miedz</td>
<td>Poland</td>
<td>0.589</td>
<td>1.19</td>
<td>Cu 66</td>
</tr>
<tr>
<td>74</td>
<td>Boliden</td>
<td>Sweden</td>
<td>0.204</td>
<td>1.39</td>
<td>Cu 36</td>
</tr>
<tr>
<td>333</td>
<td>Boleslaw</td>
<td>Poland</td>
<td>0.013</td>
<td>1.41</td>
<td>Zn 71</td>
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<tr>
<td>372</td>
<td>Elgin/Gold-Ore Resources</td>
<td>Sweden</td>
<td>0.009</td>
<td>1.50</td>
<td>Au 100</td>
</tr>
<tr>
<td>411</td>
<td>Lappland Goldminers</td>
<td>Sweden</td>
<td>0.005</td>
<td>1.55</td>
<td>Au 100</td>
</tr>
</tbody>
</table>

European exploration

Investments in Europe

Exploration & mining

Europe

Exploration 3.3 %
Mining 2.2 %
Mining incl coal 5.6 %
Investments < 2 %

Nickel drawing: Kaianders Sempler.
Baltic mining cluster

Manganese drawing: Kaianders Sempler.
Baltic mining cluster

Baltic cluster market shares

Technical development

Drilling technology during 100 years

Baltic countries

- Large and vibrant mining industry.
- Equipment suppliers, service providers and consultants are global leaders.
- Innovative R&D.
- Coordination in training and education!
- Critical to the supply of minerals to Europe.
- Norwegian oil fund - best in the world?
- Solid reputation in emerging countries.
Vanadium drawing: Kaianders Sempler.
Metal prices index 2012

Mining industry capex

Projects in Europe

Nordic ore production 2010-20

Mt

- Sweden
- Norway
- Greenland
- Finland
Excellent basis for Baltic mining cluster

- Geology: knows no borders.
- Academia: R&D & training in the making.
- Industry: Cooperation & integration started.
- Government: start closer cooperation.
Conclusions

- Mining creates values & jobs.
- Regional economic motor.
- Global markets are still favourable.
- No growth without mining.
- Baltic knowledge/experiences in demand.
- Industry integrated in Nordic countries – Baltic cluster next step.
- Political coordination necessary.

Drawings: Kaianders Sempler.
Dziękuję/Tack!
Thank you!

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Tungsten drawing: Kaianders Sempler.
Metals first isolated in Sweden/Finland

Please visit www.rmg.se