Sweden’s Minerals Strategy

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The need of a National Minerals Strategy

- A response to the Raw Materials Initiative
- The rising metal prices called for a strategy to solve challenges (lack of skilled workforce, land use, housing in remote mining areas etc)
- Sweden is a strong mining country - the demand for metals gives Sweden an opportunity for regional and national growth
Sweden’s Minerals Strategy

Vision:

• To create growth throughout Sweden by means of sustainable use of the country’s mineral resources, in harmony with environmental, natural and cultural values.

• Sweden is strengthening its position as the EU’s leading mining and minerals nation.

• Adresses both mining and quarrying
Five Strategic Objectives – 11 Action Areas and 19 Actions

1. A mining and minerals industry in harmony with the environment, cultural values and other business activities.
   - 1. Greater resource efficiency
     - Measures:
       1. Survey and analysis of the extraction and recycling potential of Swedish metal and mineral assets (SGU, EPA).
   - 2. Better dialogue and synergy with other industries
     - Measures:
       4. Mining communities with attractive natural and cultural environments
     - Measures:
       4. Develop, compile and disseminate examples of how the cultural environment in Bergslagen can be utilised by the mining and tourist industries (Heritage Board).

2. Dialogue and cooperation to promote innovation and growth.
   - 4. Promotion of societal development and regional growth
     - Measures:
       5. Programme for exchange of knowledge and experience and coordination when new large-scale mines are being established (TVV).
       6. Manual for municipalities where mines are to be established (TVV, EPA).
   - 5. Clearer distribution of responsibility and better flow of information among actors in the industry
     - Measures:
       9. National minerals forum to promote dialogue, knowledge exchange and coordination.

3. Framework conditions and infrastructure for competitiveness and growth.
   - 6. A clearer and more effective regulatory framework
     - Measures:
       10. Follow-up and evaluation of performed initiatives to shorten environmental permitting lead-times (TA).
       11. Pilot for comprehensive plan to support municipalities in their detailed planning work (Norrbotten CAB).
   - 7. Infrastructure investments for growth in the mining industry
     - Measures:
       12. Use experience from FFI to develop electric propulsion systems for trucks on the road (Transport Agency).

4. An innovative mining and minerals industry with an excellent knowledge base.
   - 8. Research and innovation that create growth and competitiveness
     - Measures:
       13. Biometric subject review of the mining and minerals research area. Propose improved forms of cooperation between business sector and academia (Vinnova, VR).
       14. Increase knowledge about the role of geology in society and highlight the industry as a workplace (SGU, business sector).
   - 9. Skills supply that meets the needs of the industry and the regions
     - Measures:
       15. Regional skills platforms are to draw up plans for how to meet the long-term skills supply needs. (Nordensförsörjningsbeväl.)

5. An internationally renowned, active and attractive mining and minerals industry.
   - 10. A good supply of capital and promotion of investment
     - Measures:
       16. Analysis of Sweden’s attractiveness as a mining country, from an international perspective (TA).
   - 11. Greater participation in the international arena
     - Measures:
       17. Investigate the conditions for establishing a communication and marketing platform to present activities for greater internationalisation (Business Sweden).
       18. Propose how Sweden and Swedish enterprises can contribute to a sustainable mining industry in developing countries (SGU).
   - 19. Sound out countries for more in-depth contacts at government level.
Increased knowledge of the role of geology in society

Minecraft with more geology

The Minecraft mod BetterGeo is part of the Public Awareness Measure within the Swedish Minerals Strategy.
Hyperspectral infrared drillcore imaging project

New open data

Scanning >230 000 m

(from Geological Survey of Sweden)
Research and Innovation

- Strategic Innovation Program for the mining and metal producing industry
- 200 million SEK (ca 20 million Euro)
Designing the policy

• Developed by the Ministry of Enterprise with the support of the Geological Survey of Sweden

• Open invitation to contribute to the development of the strategy

• 40 written contributions

• Four thematic dialogue meetings were organised. They were open for anyone to attend. About 100 participants at each meeting.
Designing the policy

- Major success factor – a strong positive response from the industry and society

- Major challenge – land use conflicts
Implementing the policy

- The reports and outcomes of the different actions are valuable tools for future work. Results are presented in open seminars and on the website of the Geological Survey of Sweden.

- The main challenge addressed in many of the reports is access to land for extractive industries and conflicting land use. It is a great challenge to reach out to smaller action groups and NGOs that dislikes and fears an expanding mining industry.
Next step

- The need of metals and minerals is fundamental in securing the raw materials supply needed for a "new industrialisation"

**Vision: "Sweden is a world leader in innovative and sustainable industrial manufacturing of goods and services"**
Thank You!