



Swedish Metals & Minerals

impact innovation

MISSION

**Enable a sustainable and resilient
metals and minerals supply for the
societal transition**

Challenges

Metals and minerals are essential: electrification, fossil-free energy production & storage, infrastructure and digitalisation...

→ Robust raw material management och resilient value chains

→ Sustainable and traceable

Technical development is need but... progress is required in **regulations, permit processes, skills supply, community acceptance and business logic.**

Roadmap

Value chain coverage:

- Exploration
- Mining
- Mineral processing & metallurgy
- Metal production
- Product production

...and broad perspectives

- Competence
- Social sustainability
- Environmental sustainability
- Economic sustainability

1. The Mission

Introduction

The program mission reads: Enabling sustainable and resilient metals and minerals supply for the societal transition

If we break down the mission into its components, it looks like this:

Enabling: Ensuring that the entire process chain, from exploration to use, has the knowledge and methods to achieve a sustainable and resilient supply of metals and minerals for society's transition. The extent to which such a process can be realized depends on a number of factors that are external to the program, including trade flows including geopolitical tensions, and political will. The goal of this mission is that it should be a complete and latent possibility.

Sustainable: An activity is sustainable if it can be carried out over an indefinite period of time without accumulating harmful effects on its surroundings, be it environmental, social, and at the same time balance investments, revenue, and cost so that it enables economic growth. All human activity impacts its surroundings in various ways, some of which are harmful. The key to sustainability is to ensure that the impacts do not accumulate.

Resilient: In the case of the mission, resilience means that the value chain for exploration to metal products should be able to withstand unforeseen events such as global unrest, disruptions in supply chains, the bankruptcy of individual companies, or severe market disturbances. Thus, they should be able to ensure control of the complete process chain.

Metals and minerals supply: Today, Sweden is Europe's leading producer of iron and steel. It produces several other metals and minerals, with a highly advanced metal industry that is globally competitive. The mission involves that Sweden should strengthen its already established position, and in addition do three things: 1. Create conditions for the extraction and use of critical and strategic elements not currently being extracted. 2. Develop metals and minerals processing that is resource efficient and has minimal environmental impact. 3. Design materials that are more functional and utilize the raw materials used and utilize the raw materials that are actually available so that shortage situations can be avoided (this is resilience).

The societal transition: Moving from a society in which fossil fuels are a key energy source into one in which they are not.

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Challenges
→
Desired future conditions
→
Gaps
→
Prioritizing interventions

Calls to date

Previous calls

- Technical and social pre-studies
- Technical and social projects
- The interaction between humans and technology
- The interaction between society and industry
- Regulations and policy instruments for a sustainable industry
- Digital Product Passport
- Urgent Challenges: Critical raw materials, scrap and secondary raw materials, water management and waste
- Digitalization, circularity and climate-neutrality
- Resilient metals and minerals supply for strengthened preparedness

135

Approved projects

254

Participating
organisations

316 538 569 SEK

Funding

190 133 451 SEK

Co-financing

Funding opportunities

- **Impact Innovation: Swedish Metals and Minerals:** stay tuned!
 - Read our roadmap!
 - Sign up for our newsletter - [Swedishmetalsandminerals.se](https://swedishmetalsandminerals.se)
- Other **Impact Innovation program** opportunities
 - Water-wise Societies (calls open now) www.waterwisesocieties.se
 - Net-Zero Industry (call open now) www.netzeroimpact.se

SWEDISH METALS & MINERALS PROGRAM CONFERENCE

6 – 7 O C T O B E R

MISSION IN PRACTICE

ELITE HOTEL MARINA TOWER, STOCKHOLM

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