Open Call 2021
Part 1.
Strategic Innovation Programs

- BioInnovation
- Drive Sweden
- Grafen
- STRIM - gruv och metallutvinning
- InfraSweden2030
- Innovair
- Internet of things Sverige
- Lättvikt
- Medtech4health
- Metalliska material
- Processindustriell IT och automation
- Produktion2030
- RE:Source
- Smartare elektroniksystem
- SWElife
- Smart Built Environment
- Viable Cities

With support from:

- Vinnova
- Swedish Energy Agency
- Formas
Open Call 2021

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Resource Efficiency and Sustainable Production in the Mining and Metal-producing Industry

Part 1
• Key dates & budget
• Themes and topics
• Project types
• Evaluation process
• Recommendations
• More information & contacts
• Other calls of interest

Part 2
• Application documents
• Project description template
• Project summary template
• Budget calculation
• Recommendations
• More information & contacts
Key dates

Call Open  18 May, 2021

Call Close  11 November, 2020  14:00

Decision  22 February, 2022

Project start  1 March 2022 – 31 March 2022

Total funding allocated: 45 MSEK
Swedish Mining Innovation’s Objectives

SMI aims to strengthen Sweden’s mining and metal producing industry’s competitiveness and sustainability by contributing to the development of a world leading industry which contributes to an economically, environmentally and socially sustainable society.
Thematic areas

• Exploration
• Resource characterisation
• Mining
• Mineral processing
• Recycling and metallurgy
• Reclamation and environmental performance
• Attractive workplaces
• Gender and diversity
• Social benefit and acceptance
Topics

All topics in Strategic Roadmap are suitable for the call

Focus areas for this call:

- Technologies, methods and processes for sustainable exploration, mining and metals production
- Circularity, turning waste into products & resources: Methods – business models – legal & policy framework
- Energy efficiency, reducing CO₂ emissions, climate neutral/fossil free operations
- Waste management incl. safe tailings dam construction and management
- lower environmental impact
- lower emissions to air and water; water treatment and recycle
### Open Call Project TRL Levels

<table>
<thead>
<tr>
<th>Idea</th>
<th>Laboratory</th>
<th>Pilot</th>
<th>Demonstration</th>
<th>Commercialised</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>TRL</td>
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</tbody>
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#### Pre-study
- Up to 500 000 SEK funding, 25% cofinancing
- 1 Partner + letter of support from relevant actor
- Maximum 6 months

#### Full-scale innovation projects
- Up to 15 MSEK funding, 50% cofinancing
- 2 companies* + 1 research
- Maximum 3 years

#### Pilot & demo projects
- Up to 15 MSEK funding, 50% cofinancing
- 2 companies* + 1 research
- Maximum 3 years

*2 companies or other non-research actors such as NGOs, Public sector etc.

Foreign organizations are welcome and count towards partner requirements but cannot receive funding. They may contribute inkind or cash to the cofinancing requirement. Explain the value to Sweden.
Pre-studies aim to supporting the decision-making process by objectively and scientifically evaluating a potential innovation’s strengths and weaknesses, opportunities and risks and to identify the resources required to develop the innovation further. The pre-study should conclude the whether or not the development of the innovation should continue.

Maximum funding: 500 000 kr  
Maximum funding level: 75%  
Maximum duration: 6 months  
Partner Requirement: 1 organization or more  
Special requirement: letter of support from relevant non-research actor  
TRL: 3 – 7
Full-scale Innovation projects

The projects aim to develop and implement ideas that contribute to the realization of Swedish Mining Innovation’s overall objectives. The focus of the project is to increase the TRL by acquiring new knowledge and skills to develop new or greatly improved product, process or service. This can include, for example, the construction of prototypes in a laboratory environment or in an environment with simulated interfaces to existing systems and to pilot operations, or development of components in complex systems that require validation.

Maximum funding: 15 000 000 kr  
Maximum funding level: 50%  
Maximum duration: 3 years  
Partner Requirement: 1 research actor + 2 companies or other non-research actor  
Special requirement: letter of commitment from non-research actors  
TRL: 3 – 7
Pilot & Demo projects

Pilot & Demo projects can include prototype design, demonstration, pilot work, testing and validation of new or improved products, processes or services in environments such as corresponds to realistic operating conditions, where the primary purpose is to make additional technical improvements to products, processes or services that are not yet fixed. This may include development of a commercially usable prototype or a pilot project that is necessarily the final commercial product and which is too expensive to produce to be used only for demonstration and evaluation.

Maximum funding: 15 000 000 kr
Maximum funding level: 50%
Maximum duration: 3 years
Partner Requirement: 1 research actor + 2 companies or other non-research actor
Special requirement: letter of commitment from non-research actors
TRL: 5 - 7
Evaluation Process

1. Vinnova checks that the **prerequisites are met**
2. Proposals are evaluated **an international panel of independent experts**
   - full-scale innovation and Pilot and Demo project leaders may be interviewed via web-meeting
   - applications that meet the quality criteria for funding are ranked
3. Vinnova in consultation with SMI’s board makes final decision as to which projects will be funded. In the event of equally ranked projects, those in the focus area of the call will be prioritized.

Ranking Categories:
- Prestudies
- Full-scale innovation, Pilot & Demo < 5 MSEK funding
- Full-scale innovation, Pilot & Demo 5 – 15 MSEK funding
Evaluation criteria

• Potential

Subcriteria are support and not assessed individually:

• The application’s scientific quality
• Industrial and societal relevance
• The projects potential impact with particular attention to the focus of the call
• Extent of innovation
• TRL of 3-7 (pre-study); 3-7 full-scale innovation projects; and 5-7 pilot & demo projects
• How the project contributes to sustainable development
• Commercialization potential including global markets (Full-scale innovation projects, and Pilot and Demo projects)
• How well the project can contribute to a gender equal societal development
• The possibility for implementation of results and/or continuation to e.g. EU projects (Full-scale innovation projects and Pilot & Demo projects)
Evaluation criteria

• **Implementation**

Subcriteria are support and not assessed individually:

• *The quality of the organizational structure, methods and implementation of work*
• *Suitability of project deliverables with respect to the project’s goals*
• *The soundness of the work plan and budget*
• *Resource allocation (staff, equipment, etc.)*
• *How well gender equality aspects have been integrated in the project plan*
• *Relevance of communication plan or other dissemination activities*
Evaluation criteria

• Stakeholders

Subcriteria are support and not assessed individually:

• The expertise and relevant experience of the individual project members
• The expertise within the consortium as a whole (incl. complementarity, the balance between industry, academia, research institutes, small and medium-sized enterprises, NGOs etc.)
• Supplementary and interdisciplinary expertise within the project
• How well the team (key persons) is composed regarding gender distribution, as well as the distribution of power and influence between women and men
• How well the partners represent the value chain
• Potential to access global markets
Recommendations

• Read the call text & supporting documents carefully

• Determine the fit in SMI’s aims – Strategic Innovation Roadmap

• Get your partners early

• Register the project application early in Vinnova’s portal & look through fields to fill in (including budget)

• Write the project description in English

• Ensure prerequisites and mandatory attachments are complete

• Don’t hesitate to contact SMI or Vinnova with questions
More information

Videos, webinars, roadmaps, information and news
www.swedishmininginnovation.se

Call text, templates & login to portal and other information

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Other calls of interest?


Cooperation with **Brazil** in Mining closes 3 November:
[https://www.vinnova.se/e/brasilien-sverige-innovationsforum/-internationellt-innovationssamarbete-2021-01091/](https://www.vinnova.se/e/brasilien-sverige-innovationsforum/-internationellt-innovationssamarbete-2021-01091/)
Mining innovation for a sustainable future