

Technical and social innovations for sustainable minerals and metals supply

Swedish Mining Innovation - 2023

Call for proposals within the Strategic Innovation Program for the Swedish Mining and Metal Producing Industry (Swedish Mining Innovation)

Swedish Mining Innovation is part of Vinnova's, the Swedish Energy Agency's and the Swedish Research Council Formas' joint program for strategic innovation areas. The aim with the programs within strategic innovation areas is to stimulate international competitiveness and sustainable solutions for global societal challenges.

For more information about the program, see www.swedishmininginnovation.se.

In case of any discrepancies between this text and the Swedish version, the Swedish call text applies.



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1 Summary of the call

You can apply for funding for projects that address any of the challenges defined by the Strategic Research and Innovation Roadmap (2022)¹. The Roadmap covers the branch-wide challenges of the Swedish mining and metals producing industry. Projects with broader scope that support the UN Global Sustainability Goals² and that are related Sweden's mining, metals and minerals industry and supply are also in scope of the call.

The planned budget for the call is 10 million SEK.

There are two types of projects in the call:

- Technical Innovation projects
- Social Innovation Projects

Technical Innovation projects have a maximum duration of 18 months, maximum funding of 2 000 000 SEK, and a project aid intensity up to 50%. The projects aim to develop and implement ideas that contribute to the realization of Swedish Mining Innovation's overall objectives through developing and testing new methods, processes or working procedures. The project consortium must consist of at least three organizations of which at least one is a research actor (institute or academy). Partners that are companies must submit a letter of commitment (styrkt åtagande) with the application.

Social Innovation projects have a maximum duration of 18 months, maximum funding 1 000 000 SEK, and a project aid intensity up to 80%. The projects aim to define and improve social sustainability that support the Strategic Research and Innovation Roadmap and/or more broadly the UN Agenda 2030 Sustainable Development Goals that are related to Sweden's mining, metal and mineral industry. The project consortium must consist of at least two organizations. Collaborations demonstrating a diversity of actor types (e.g. public sector, NGOs, industry and research) are strongly encouraged. Partners that are companies must submit a letter of commitment (styrkt åtagande) with the application.

The project participants applying for a grant must be a legal entity in Sweden, or foreign organizations that have a branch (filial) or establishment (driftställe) in Sweden. These include e.g. companies, public authorities (e.g. municipalities, counties), non-governmental organizations (NGOs), and research organizations (universities and research institutes).

¹ <https://www.swedishmininginnovation.se/roadmap/>

² <https://www.vinnova.se/en/m/the-2030-agenda--a-key-driver-of-innovation/>

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The applications will be evaluated by international evaluators, so it is strongly recommended that proposals are written in English.

Important dates

Please note that the dates and times given are tentative. For the latest information, please visit www.vinnova.se.

Call for proposals opens	May 9, 2023
Call for proposals closes	September 14, 2023 at 14:00
Date of interviews	October 23 - 24, 2023
Date of decision	November 30, 2023
Earliest date for project start	January 1, 2024
Latest date for project start	January 31, 2024

Person to contact concerning the call's focus, content and desired effects:

Lawrence Hooley, Technology and Innovation Manager, Swedish Mining Innovation
Tel: 0920-49 36 65
E-mail: Lawrence.hooley@swedishmininginnovation.se

Person to contact concerning the assessment process, administrative, legal and other questions about the call's contents:

Pontus Westrin, Program Manager, Vinnova
Tel: 08-473 32 51
E-Mail: pontus.westrin@vinnova.se

Contact for questions about Vinnova's e-services for applications:

Vinnovas IT-support
Tel: 08-473 32 99
helpdesk@vinnova.se

Updated information on the call and link to the eServices submission portal are found at www.vinnova.se.

2 Swedish Mining Innovation's aims and objectives

Swedish Mining Innovation aims to strengthen the Swedish 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. The Strategic Research and Innovation Roadmap (2022)³ describes the challenges and themes for development along the value chain for the mining and metals producing industry. Furthermore, projects supporting technical and social objectives of the UN Sustainable Development Goals⁴ are included.

Swedish Mining Innovation seeks a broad range of stakeholders to collaborate to develop their innovation capacity and create new solutions that contribute to the goals of the call.

Vinnova decides which projects will receive financing based on the independent experts ranking and the recommendation of Swedish Mining Innovation's Steering Board based on contribution to the balance in Swedish Mining Innovation's project portfolio, and total budget of the call.

Projects are expected to contribute to the development of an equal society by providing both women and men equal parts of the funding, influence and activities in the projects and by the projects' results benefiting both women and men. To assist you in preparing your application, Swedish Mining Innovation has a digital program which provides guidance and ideas about how to integrate gender equality aspects into your project⁵. You can also find further information from Vinnova⁶.

3 Who may apply?

This call for proposals is aimed at consortia where companies, universities, research institutes, governmental organizations, NGOs and other relevant stakeholders contributing to the call's objectives are welcome to apply.

Project consortia covering the entire value chain are considered positively as well as consortia with organizations traditionally working in fields other than mining

³ <https://www.swedishmininginnovation.se/roadmap/>

⁴ <https://www.vinnova.se/en/m/the-2030-agenda--a-key-driver-of-innovation/>

⁵ <https://www.swedishmininginnovation.se/education-in-inclusive-innovation/>

⁶ <https://www.vinnova.se/en/m/equal-innovation/>

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and metal extraction, so that more groundbreaking innovations can be created through new approaches. Involvement of small and medium-sized companies (SMEs) is strongly encouraged⁷.

Partners applying for Technical Innovation projects must consist of at least three organizations of which at least one is a research organization (institute or academy).

Partners applying for Social Innovation projects must consist of at least two organizations. Collaborations demonstrating a diversity of actor types (e.g. public sector, NGOs, industry and research) are strongly encouraged.

The project partner applying for a grant must be a legal entity in Sweden, or foreign organizations that have a branch (filial) or establishment (driftställe) in Sweden⁸. Foreign organizations without a branch or establishment in Sweden are welcome to participate as a partner in projects, but cannot receive funding from Vinnova. It is important in the application to justify the value of the foreign organization's contribution to the objective of the call. Even for a foreign organization, which is a partner in the project but is not eligible for funding from Vinnova, it is possible to include their contribution to projects as co-financing (i.e. in-kind or own funds), with the same rules on eligible costs as for Swedish organizations. Note that the project coordinator must be a Swedish legal entity.

4 What do we fund?

4.1 Project types eligible for funding

You can apply for funding for the following types of projects:

- Technical Innovation projects
- Social Innovation projects

Technical and Social innovation projects will be evaluated and ranked separately. Swedish Mining Innovation intends to finance projects with a distribution between the two project types.

4.1.1 Technical Innovation Projects

Technical innovation projects have a maximum duration of 18 months and may apply for up to 2 million SEK funding. The innovation project's TRL must start at a minimum of 3 and end at a maximum of 7 (see the appendix for a description of TRL). Activities must be covered by the aid category funding basis industrial

⁷ [EU SME definition Guide \(in English\)](#)

⁸ To be eligible for a grant, the costs of the project must be attributable to the branch's or establishment's operations.

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research (“**Industriell forskning**”) OR experimental research (“**Experimentell utveckling**”) according to state aid rules⁹.

Under **industrial research (industriell forskning)**, 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.

Under **experimental development (experimentell utveckling)**, the project’s activities 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.

The project consortium must consist of at least three organization of which one must be a research organization (e.g. institute or academy).

If the project meets the criteria for effective collaboration (faktiskt samarbete), the aid intensity limits for individual companies may be increased. SMEs have added flexibility in aid intensity, see section 5.

4.1.2 Social Innovation Projects

Social innovation projects have a maximum duration of 18 months and may apply for up to 1 million SEK funding. The projects must describe clear aspects of innovation, relevance of and impact on Sweden, and support Sweden’s goals for implementing the UN Sustainable Development Goals including Sweden’s role domestically and/or internationally in relation to metals and minerals industry and their related supply chains. The projects should describe how they strengthen Swedish competitiveness and sustainability in the mining and metal extraction sector. For example, projects that support sustainability goals such as new business models, social effects of mining and metal production, societal behaviour regarding metal consumption and recycling, supply chain measures such as sourcing policies, and sustainability measures such as promoted by e.g. Towards

⁹ Support levels, definitions etc. for funding: <https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/regler-och-villkor/dokument/tabell-stodnivaer-ny-version-2206.pdf>

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Sustainable Mining¹⁰, International Council on Mining and Metals¹¹ or other international standards.

The project consortium must consist of at least two organizations. Collaborations demonstrating a diversity of actor types (e.g. public sector, NGOs, industry and research) are strongly encouraged.

The funding basis is **industrial research (industriell forskning)**. The activities in these projects include acquiring new knowledge and skills, and to develop new or greatly improved products, processes or services.

If the project meets the criteria for effective collaboration (faktiskt samarbete), the aid intensity limits for individual companies may be increased¹². SMEs have added flexibility in aid intensity, see section 5.

4.2 Eligible costs

Vinnova's financing is through grants. Grants given by Vinnova to businesses and other organizations that conduct commercial activities are regulated by the rules governing state aid¹³. The rules include, for example, which costs are eligible and how much can be covered by grants.

5 Funding available for the call

5.1 Funding available for the call

The budget of this call for proposals is 10 million SEK.

5.2 Aid intensity by project type

Technical innovation projects may apply for up to 50% aid intensity¹⁴ of eligible costs. Social innovation projects may apply for up to 80% aid intensity of eligible costs.

¹⁰ TSM: <https://mining.ca/towards-sustainable-mining>

¹¹ ICMM: <https://www.icmm.com/>

¹² Support levels, definitions etc. for funding: https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/regler-och-villkor/dokument/tabell-stodnivaer_ny-version_2206.pdf

¹³ State support for economic activities (companies): <https://www.vinnova.se/en/apply-for-funding/rules-for-our-funding/state-aid-to-companies/> Information on general funding regulations and eligible costs is here: <https://www.vinnova.se/en/apply-for-funding/rules-for-our-funding/terms-and-conditions-for-our-funding/> and eligible costs described in more detail here: <https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/regler-och-villkor/dokument/2023-instruction-to-eligible-costs-eng.pdf>

¹⁴ Aid intensity = funding/total project budget

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Individual partners are subject to funding limitations prescribed by state-aid rules (see 5.3).

5.3 Individual aid intensity limits by type of organization

Organizations that take part in their non-economic operations (icke-ekonomiska verksamhet) may receive grants with up to 100% of eligible costs. Organizations that take part in their economic activity have aid intensity limits according to state-aid rules¹⁵. For large companies, the limits are shown in Table 1 below. If the project meets the criteria for effective collaboration (faktiskt samarbete), the maximum aid intensity for individual companies may be increased as shown in the table. Note that the overall project aid intensity is limited to 50% for technical innovation projects and 80% for social innovation projects.

Table 1. Aid intensity limits for individual large companies

	Large companies
Technical Innovation project (industriell forskning basis)	50% (+15% faktiskt samarbete)
Technical Innovation project (experimentell utveckling basis)	25% (+15% faktiskt samarbete)
Social innovation project (industriell forskning basis)	50% (+15% faktiskt samarbete)

Several options are available to encourage participation of SMEs¹⁶. SMEs have the same funding bases available as large companies with the potential adjustments where effective collaboration exists, see Table 2. SMEs may also be eligible for de minimis support (stöd av mindre betydelse, a certificate must be provided with the application¹⁷). In addition, the funding basis for newly started companies may be applicable (nystartade företag, modellförsäkrans is required¹⁸). Read the description of the eligibility requirements and the respective funding bases carefully. Motivate the effective collaboration (faktiskt samarbete) clearly if this option is used in the project application's budget.

¹⁵ https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/regler-och-villkor/dokument/tabell-stodnivaer_ny-version_2206.pdf

¹⁶ [EU SME definition Guide \(in English\)](#)

¹⁷ <https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/gora-ansokan/dokument/intyg-om-stod-av-mindre-betydelse-juli--19.docx>

¹⁸ Modellförsäkrans certificate is required if the funding applied for by an SME exceeds the aid intensity for large companies for the same funding basis, and for funding to newly started companies. <https://www.vinnova.se/contentassets/03d3665164c14b46a854b76bfb3c6055/mall-modellforsakran-smf.pdf>

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Table 2. Aid intensity limits for small and medium-sized companies

	Small companies	Medium-sized companies
Technical Innovation Projects Industriell forskning ¹⁸	70% (+10% faktiskt samarbete)	60% (+15% faktiskt samarbete)
Technical Innovation Projects Experimentell utveckling ¹⁸	45% (+15% faktiskt samarbete)	35% (+15% faktiskt samarbete)
Social Innovation Projects Industriell forskning ¹⁸	70% (+10% faktiskt samarbete)	60% (+15% faktiskt samarbete)
Any project type:		
De minimis funding (Stöd av mindre betydelse) ¹⁹	100%	100%
Aid for start-ups (Nystartade företag) ¹⁸	100%	NA

6 Prerequisites for the application to be assessed

For a proposal to be eligible for assessment the following requirements must be met:

- ✓ The project partners must be legal entities.
- ✓ Project partners that apply for funding must be Swedish legal entities, or foreign organizations with a registered branch (filial) or establishment (driftställe) in Sweden²⁰. The project coordinator must be a Swedish legal entity.
- ✓ For technical innovation projects, the consortium must consist of at least three partners, of which at least one must be a research organization.
- ✓ For social innovation projects, the consortium must consist of at least two organizations.
- ✓ Letters of commitment (styrkt åtagande) are required from partners that are companies. The template is found on Vinnova's call page.
- ✓ Proposals for technical innovation projects can apply for a maximum aid intensity of 50 percent of the project's eligible costs.

¹⁹ A certificate is required if de minimis funding is applied

<https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/gora-ansokan/dokument/intyg-om-stod-av-mindre-betydelse-juli--19.docx>

²⁰ A Swedish legal entity refers to a Swedish-registered organization including a subsidiary of international companies, however not a foreign organization's registered branch (filial) or establishment (driftställe); for foreign organizations, eligible costs covered by Vinnova funding must be attributable to the Swedish-registered branch or establishment.

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- ✓ Social innovation projects can apply for a maximum aid intensity of 80 percent of the project's eligible costs.
- ✓ Proposals must include everything requested in Section 9.
- ✓ Maximum project duration for both technical and social innovation projects is 18 months.
- ✓ All project proposals should address topics in the Strategic Research and Innovation Roadmap²¹ and/or UN Sustainable development goals²² related to the mining and metals industry and its supply chains.
- ✓ At least one representative from the project consortium must be available to pitch to the evaluators and answer questions on the date specified in section 1.

Project applications which do not fulfil the formal requirements will be rejected without further motivation.

7 Assessment of proposals

7.1 Assessment criteria

Each application is assessed by the independent evaluators according to the criteria below. All projects are expected to have detailed work plan, dissemination and implementation plans, and specified KPIs (key performance indicators).

Projects including foreign participation or focus should clearly describe the value of the project to Sweden.

Assessment criteria – Technical Innovation Projects (equal weighting in the three main criteria, bullet points are for guidance and not assessed individually)	
1	<p>Potential</p> <ul style="list-style-type: none"> • <i>The project's relevance for the Strategic R&I roadmap</i> • <i>Scientific quality and contribution to Sweden's innovation capacity</i> • <i>How well the project contributes to sustainable development</i> • <i>The project's commercialization or long-term implementation potential including global impact</i> • <i>The project's contribution to a gender equal societal development</i>
2	<p>Feasibility</p> <ul style="list-style-type: none"> • <i>The quality of the project's organizational structure, methods, work plan, resource allocation, deliverables and budget</i> • <i>How well gender equality aspects as well as any international aspects have been integrated in the project plan</i> • <i>Quality and relevance of the communication plan</i>

²¹ www.swedishmininginnovation.se/roadmap/

²² <https://www.vinnova.se/m/agenda-2030/>

3	<p>Actors</p> <ul style="list-style-type: none"> • <i>The expertise and relevant experience of the individual project members</i> • <i>The expertise within the consortium as a whole, coverage of relevant value chain and partners' innovative strength to implement the results or continue to the next stage of development</i> • <i>How well the team (key persons) is composed regarding gender distribution, as well as the distribution of power and influence between women and men.</i> • <i>Relevance of international partners (if any)</i> • <i>Value and role of other stakeholders engaged in the project</i>
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<p>Assessment criteria – Social Innovation Projects (equal weighting in the three main criteria, bullet points are for guidance and not assessed individually)</p>	
1	<p>Potential</p> <ul style="list-style-type: none"> • <i>The project's contribution to Sweden's innovation capacity and role in contributing to sustainable development and competitiveness in the mining and metal production sector with reference to the Strategic R&I roadmap and/or UN Sustainable Development Goals</i> • <i>The project's implementation potential and long-term outcomes including global impacts</i> • <i>The project's potential to establish and develop long-term collaborations across multiple types of actors – sectors, actor types and international actors.</i> • <i>The project's contribution to a gender equal societal development</i>
2	<p>Feasibility</p> <ul style="list-style-type: none"> • <i>The quality of the project's organizational structure, methods, work plan, resource allocation, deliverables and budget</i> • <i>How well gender equality aspects, as well as any international aspects have been integrated in the project plan</i> • <i>Quality and relevance of the communication plan</i>
3	<p>Actors</p> <ul style="list-style-type: none"> • <i>The expertise and relevant experience of the individual project members</i> • <i>The expertise of the organizations within the consortium and relevant breadth of consortium</i> • <i>Partners' strength to implement the results or continue to the next stage of development.</i> • <i>How well the team (key persons) is composed regarding gender distribution, as well as the distribution of power and influence between women and men</i> • <i>Relevance of international partners (if any)</i> • <i>Value and role of other stakeholders involved in the project</i>

7.2 Assessment process

The assessment process is designed to identify the best proposals with reference to the assessment criteria. The assessments of the applications will be performed by a group of evaluators appointed by Vinnova and comprised of both Swedish and international independent experts working under confidentiality.

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The technical innovation projects will be assessed in one list, and the social innovation projects in another list. The following summarizes the evaluation and decision-making process:

1. Proposal and all required forms are to be submitted via Vinnova's eServices portal.
2. Proposals that do not fulfil the formal requirements will be rejected without further motivation.
3. Proposals that meet the formal requirements will be assessed by external national and international independent experts. As part of the assessment, the project leader will be invited to make a pitch to the evaluators and answer questions.
4. The evaluators rank the proposals and give recommendations as to which projects should be funded.
5. Vinnova decides which projects will receive financing based on the independent experts ranking and the recommendation of Swedish Mining Innovation's Steering Board which takes into account the contribution to the balance in Swedish Mining Innovation's project portfolio and total budget of the call.
6. Applicants are notified of the decisions.

8 Decisions and Conditions

8.1 Vinnova's decision

How much each party in the project is granted is stated in the decision. For companies, grants may be awarded under Article 25 of Commission Regulation No 651/2014 ("GBER"), for industrial research (industriell forskning) and experimental development (experimentell utveckling) respectively.

Grants may also be awarded under Article 22 of GBER to participating start-ups (nystartade företag). Small and medium-sized companies may also be eligible for de minimis grants (stöd av mindre betydelse) in accordance with Commission Regulation No 1407/2013.

For organizations taking part in their non-economic operations, grants may be given in accordance with the Ordinance (2009:1101) with instructions for the Swedish Agency for Innovation Systems.

The basis for support for each participant will be stated in the decision and also governs which costs are eligible.

Vinnova's decision to accept or reject an application cannot be appealed.

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8.2 Conditions for granted funding

Vinnova's general terms and conditions for funding apply to this call for proposals²³. The terms and conditions include rules for project agreements, conditions for payment, follow-up, reporting and use of results. Scientific publications must be published with open access according to Vinnova's instructions²⁴.

As the call for proposals is made within the framework of the strategic innovation program the following special terms and conditions apply:

- The project should be represented by at least one project partner at conferences and other activities arranged within the Swedish Mining Innovation program on a maximum of two occasions during the project.
- For information about the project and for each publication of project results, it must be stated that the work has been carried out within the Strategic Innovation Program Swedish Mining Innovation, a joint program from Vinnova, the Swedish Energy Agency and the Swedish Research Council Formas.
- Annually and when the project submits its final report to Vinnova a summary of the project progress or final results shall be sent to Swedish Mining Innovation program office via e-mail. The summary may be shared and published freely and should not contain any confidential or otherwise sensitive information. See <https://www.swedishmininginnovation.se/projectleaderroutine/> for the template and other information for project leaders.

Additional special terms and conditions may be added for specific projects.

If you do not comply with Vinnova's terms and conditions, you may be liable for repayment. This also applies if you have been granted funding incorrectly or with an excessive amount.

²³ Terms and conditions are found on Vinnova's website, together with help to understand and meet the conditions: <https://www.vinnova.se/en/apply-for-funding/rules-for-our-funding/terms-and-conditions-for-our-funding/>

²⁴ [Anvisning för öppen tillgång till vetenskapliga publikationer](#)

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9 How to apply

Applications are to be submitted electronically via the web-based application submission system (eServices portal) which can be accessed at Vinnova's website. The following documents are also to be uploaded²⁵:

- **Project description (Projektbeskrivning)** using the template.
- **Project summary (Projektreferat)** using the template, maximum two A4 pages.
- **Letters of commitment (styrkt åtagande)**, using the template, from partners that are companies including SMEs. This is required for all applications that include companies as partners, including SMEs.
- **CV for key persons** in the project team (at least one person per project partner). Maximum of three A4 sized pages per CV. No template is available.
- If the proposal is a continuation of a project previously granted funding within Swedish Mining Innovation a summary of the content and results should be attached to the proposal (max. 2 pages). It should be clear in the proposal what was done in the previous project and how the proposed project will continue this work. No template is available.
- Verification for SMEs (modellförsäkrans)²⁶ when applicable (see section 5.3, Table 2).
- De minimis certificate where applicable²⁷.

If you do not receive a confirmation by email within 24 hours of submitting the proposal please contact Vinnova.

When submitting the proposal, the project summary (projektreferat) should be submitted in Vinnova portal and also be emailed to the Swedish Mining Innovation Program office Lawrence.Hooey@swedishmininginnovation.se. The project summary can be shared and published freely and should therefore not contain any confidential or otherwise sensitive information.

The applications will be evaluated by international reviewers, so it is strongly recommended that proposals are written in English.

After the submission deadline, no changes can be made to the proposal unless requested by Vinnova.

²⁵ Templates for the project description, project summary and letter of commitment are available on Vinnova's call webpage.

²⁶ <https://www.vinnova.se/contentassets/03d3665164c14b46a854b76bfb3c6055/mall-modellforsakran-smf.pdf>

²⁷ <https://www.vinnova.se/globalassets/huvudsajt/sok-finansiering/gora-ansokan/dokument/intyg-om-stod-av-mindre-betydelse-juli--19.docx>

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10 Who can read the proposal

Applications received by Vinnova become public documents but Vinnova does not release data of individual business or operating conditions, inventions and research results in cases where it can be assumed that the individual could suffer damage if the information were to be made public.

Documents sent to the organization responsible for the strategic innovation program (Swedish Mining Innovation Program Office) are not covered by the same secrecy rules as Vinnova. Documents sent to the Swedish Mining Innovation Program office should not contain confidential or sensitive information.

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Appendix 1 – TRL for Technical Innovation Projects

Swedish Mining Innovation uses the following TRL definitions where projects can be between TRL 3 and TRL 7:

TRL 1 – basic principles observed

TRL 2 – technology *concept formulated*

TRL 3 – experimental *proof of concept*

TRL 4 – technology *validated in lab*

TRL 5 – technology *validated* in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 6 – technology *demonstrated* in relevant environment (industrially relevant environment in the case of key enabling technologies)

TRL 7 – system *prototype demonstration in operational environment*

TRL 8 – system *complete and qualified*

TRL 9 – actual system proven in operational environment (competitive manufacturing in the case of key enabling technologies; or in space)

Appendix 2: Project budget calculation examples

Technical innovation project

Applied for: 1 800 000 kr funding. Max 50% funding

Minimum total project budget: $1\,800\,000/0,5 = 3\,600\,000$ kr

Minimum co-financing: $3\,600\,000 - 1\,800\,000 = 1\,800\,000$ kr

Check: $1\,800\,000$ funding/ $3\,600\,000$ total = 50%

i.e. co-financing must equal or exceed funding.

Social innovation project

Applied for: 1 000 000 SEK. Max 80% funding

Minimum total project budget: $1\,000\,000/0,8 = 1\,250\,000$ kr

Minimum co-financing: $1\,250\,000 - 1\,000\,000 = 250\,000$ kr

Check: $1\,000\,000$ funding/ $1\,250\,000$ total = 80%