

EUREKA Call for R&D Project Outlines Sweden – Switzerland

Opening on 2 September 2019, Submission by 29 November 2019

BACKGROUND and SCOPE

EUREKA is an international co-operation programme supporting collaborative market oriented research and development projects that develop innovative products, processes and services.

Sweden and Switzerland are jointly announcing a bilateral call for outlines of joint innovation projects under all suitable EUREKA instruments (EUREKA Network, EUREKA Cluster and Eurostars projects). The two countries collaborate continuously among the 41 EUREKA member states and support all innovation topics as EUREKA is by nature bottom-up and focused mainly on the innovation activities of companies. The call is managed in line with the EUREKA initiative (www.eurekanetwork.org) by the national EUREKA offices and any consortium with at least one partner from each of the countries is welcome.

The present call for project outlines is connected to a networking conference in Switzerland targeting R&D driven SMEs, large industries open for cooperation and market oriented research institutions.

The applicants will receive feedback on project outlines in order to prepare a high quality proposal and on how to apply for funding in a second phase. If necessary, there will also be recommendations on which of the EUREKA funding mechanisms best fits to your project idea. The quality of the project is essential for its success. There is no separate budget for Swiss-Swedish project applications reserved, which will have to compete with other project applications. The benefit of participating in the present Call lies within the individual consultation opportunities and close feedback in the preparation of a high quality proposal.

The **Call is open for all topics**, but **focuses on** the development of products and services within **Digitization**. Subtopics that are of interest for joint innovation projects:

- **Subtopics within DIGITIZATION** that are of interest for joint innovation projects are:
 - a) **INDUSTRIAL IOT**
 - b) **NON INDUSTRIAL IOT**
 - c) **Artificial Intelligence (AI)**
 - Machine learning*
 - Pattern recognition*
 - Computer vision*
 - Deep learning*
 - Robotics*
 - Speech recognition*
 - Natural language processing*
 - Solutions in the context of IoT*
 - Digital twin context for manufacturing*
 - Additive manufacturing*
 - Training, industrial maintenance and prototyping*
 - d) **BIG DATA**
 - Annotation of data*
 - Data mining*
 - Databases*
 - Big data analytics in the context of IoT*
 - Data collection, data management, data cleansing*

e) **SENSOR INFORMATIC & CONTROL**

Industrial sensing applications of consumer-type sensors

Information through image analysis, sound analysis

Sensor fusion

f) **5G**

Implementation of cloud base services with 5G for monitoring and control

g) **VISUALIZATION**

Visualization of complex information, complex data sets

Visualization of large amounts of data

Virtual Reality (VR) - Augmented Reality (AR) - Extended Reality (XR)

a. MedTech

- i. VR/AR/XR is becoming important in various medical areas, where applications are being used in fields such as medical research, medical training, imaging, psychology

b. Architecture and Engineering

- i. Architecture is going through a major transformation where architects are converting to BIM (Building Intelligent Modelling). VR/AR/XR will play a significant role in this field.
- ii. In Engineering and Manufacturing companies VR/AR/XR is currently developed and used essentially for education purposes and prototyping. VR/AR/XR will gradually gain importance in manufacturing processes.

c. Edutainment, including Tourism and Culture

- i. Serious Gaming and Edutainment are domains where most developments in VR/AR/XR will start. The developments will then subsequently roll over into industrial or scientific domains. Digitization through VR/AR/XR in those domains could be anything from MOOCs at universities, teaching at school, training at industrial/office sites, digital applications for tourist offices, digitization of museums with VR/AR/XR. All these examples will create different revenue models.

h) **CYBER SECURITY**

i) **PHOTONICS**

NETWORKING EVENT

Actors from Sweden and Switzerland interested in the present call are invited to attend the **Digitizing Networking Conference** organized by the Swiss – Swedish Innovation Initiative SWII. The conference matches the most R&D intensive Swiss and Swedish MNEs, SMEs and academia with the aim to launch common market oriented R&D projects. The conference takes place on **26 September, 2019 at ABB in Baden, Switzerland**. The programme is available on www.swii.org.

Swedish R&D performing SME's participating may apply at Vinnova for travel grants to Switzerland. Project title in Swedish application for travel should be "SWII Baden 26 September". Last day to apply for travel grant is 18 September. Swedish R&D performing SME's may apply for maximum 10,000 kronor. A grant may cover travel costs such as tickets and hotel. A grant may not cover costs for personal, indirect costs (overhead) or other direct costs. If the dynamic link below fails, try to copy the address to your web-browser.

Apply for travel grant:

<https://portal.VINNOVA.se/DynFormNet/CreateForm.aspx?BaseType=ansokan&request=2786>

A mandatory attachment (bilaga) to the application for travel grant of a Swedish R&D performing SME is "Blankett för intyg om försumbart stöd". The form is found via the link below: <https://www.vinnova.se/sok-finansiering/regler-for-finansiering/statligt-stod/>

HOW TO APPLY FOR PROJECT FUNDING

Eligible partners are invited to present joint outlines for market-oriented, innovative R&D projects according to the following procedures:

1. Qualifications

- The consortium includes at least one partner from each of the countries and at least one R&D driven SME. Other partners such as large companies, research institutes and universities are welcome as additional participants.
- The project has an obvious advantage and added value resulting from the cooperation between the participants from the different countries (e.g. increased knowledge base, commercial leads, access to R&D infrastructure etc.). It shows convincing proof to realize its potential in a highly competitive field.
- The project demonstrates the contribution of the participants from all countries involved in a balanced way, and the project is significant to all countries involved.
- Partners from other EUREKA countries may also participate. This requires funding from their respective home countries.

2. Submission and the approval procedures will be in two phases:

In the **first phase**:

- Partners are encouraged to submit a short Project Outline, which can be downloaded from the SWII homepage http://www.swii.org/images/EUREKA_Project_Outline.doc
- The completed project outlines of phase 1 should be submitted to the national EUREKA offices of the participating partners simultaneously (main contacts) **by email to** contact persons at Innosuisse (Swiss Innovation Agency) and Vinnova with copy to all partners of the project outline. **Submission** is open between **2 September 2019 and 29 November 2019**.
- The outlines will be screened by the EUREKA offices in Sweden and Switzerland and the partners will be provided with a detailed feedback as well as additional recommendations within the shortest possible delay after the submission (about 2 weeks).

In the **second phase**:

- Partners with approved outlines will be recommended to submit their **full applications** to the EUREKA instrument (Network/Eurostars/Cluster) that best suits their project. Eurostars for R&D performing SME's is the most popular Eureka instrument.
- The national EUREKA offices in Sweden and Switzerland will assist on how to submit full applications.
- Swiss-Swedish applications have to compete with other project applications. There is no separate budget reserved especially for Swiss-Swedish project applications. The benefit of participating in the present call lies in the intense interaction and individual consultation opportunities in the preparation phase. For the funding decision, only the quality of the application is relevant.

3. Financing

Funding support to approved full applications of Phase 2 will be given to each partner by its own national funding organization in accordance with the national laws, rules, regulations and procedures in effect.

Concrete funding mechanisms depend on the most suitable EUREKA instrument (Network/Eurostars/Clusters) that will be decided on in Phase 1 of the submission process. See below for a first overview.

For further information, visit www.eurekanetwork.org or contact:

The Swiss EUREKA office at Innosuisse (www.innosuisse.ch):

Mr. Janique Siffert (Eurostars), +41 58 466 70 70 janique.siffert@innosuisse.ch

Ms. Colette John-Grant (EUREKA and Eurostars), + 41 58 466 77 32, colette.john@innosuisse.ch

The Swedish EUREKA office at Vinnova (www.vinnova.se/m/eureka):

Mr. Lars Gustafsson (Celtic, ITEA-3 and Eurostars), +46 8 473 3212 lars.gustafsson@Vinnova.se

Mr. Tero Stjernstoft (Smart and Eurostars), +46 8 473 3296 tero.stjernstoft@Vinnova.se

Mr. Peter Lindberg (Network Projects and Eurostars), +46 8 473 3193 peter.lindberg@Vinnova.se

IN SHORT: FUNDING CONDITIONS AND ELIGIBILITY CRITERIA BY COUNTRY

SWEDEN

Grants for Eureka Network projects

Participation of Swedish industrial partners is mandatory for funding. Usually smaller projects with up to 100 000 Euros for Swedish partners. SMEs must have half of the requested sum in turnover or equity.

Funding rates for Swedish participants:

- up to 50% of eligible costs for SMEs
- up to 30% of eligible costs for large companies
- up to 100% of eligible costs for research organisations and public sector

Grants for Eurostars projects

Maximum funding to the Swedish part of the project is 500 000 Euros. If no Swedish industrial partner participates, max. 200 000 Euros to Swedish part of project. SMEs must have half of the requested sum in turnover or equity. Funding rates for Swedish participants:

- up to 50% of eligible costs for SMEs
- up to 30% of eligible costs for large companies
- up to 70% of eligible costs for research organisations and public sector

Grants for EUREKA Cluster projects

Vinnova can fund maximum 50% of eligible costs for the Swedish part of the project.

SMEs participating in Cluster projects need to have at least 50 000 Euros in net turnover and a minimum of three employees. Funding rates for Swedish participants:

- up to 50% of eligible costs for SMEs
- up to 30% of eligible costs for large companies
- up to 100% of eligible costs for research organisations and public sector

SWITZERLAND

Grants for Eurostars projects from Innosuisse:

- 50% of eligible costs for SME, universities and R&D institutions
- 25% of eligible costs for large companies
- The maximum funding for all Swiss partners per project with a Swiss SME is 500'000 €
- The maximum funding for all Swiss partners per project without a Swiss SME is 250'000 €.

Grants for EUREKA Network projects and Cluster projects from Innosuisse:

- Swiss academic partner and Swiss company share costs of the project 50:50; Innosuisse may fund the share of the Swiss academic partner, i.e. up to 50% of eligible costs;
- Swiss academic partners are funded 100% by Innosuisse. Additionally, 10% of the funding costs of Innosuisse comes in form of a cash contribution (e.g. for material use by the research partner) from the Swiss company.
- Swiss companies get the right to exploit the project results in their specific business area.