

Smarter Electronic Systems

-a strategic innovation programme to strengthen competitiveness of Swedish electronics sector

Info webinar August 16th 2022

IMPROVE YOUR APPLICATION

Thorbjörn "TOBY" Ebefors, acting program manager

Thorbjorn.Ebefors@smartareelektroniksystem.se



Med stöd från

VINNOVA
Sveriges innovationsmyndighet

 **Energimyndigheten**

FORMAS 

Strategiska
innovations-
program

Agenda

09.00 Welcome

09.05 Important things to know when writing a proposal

09.25 Q & A

09.45 End

Smarter Electronic Systems – a Swedish partnership program

- Cooperation Industry - Public sector - Academia

Vision

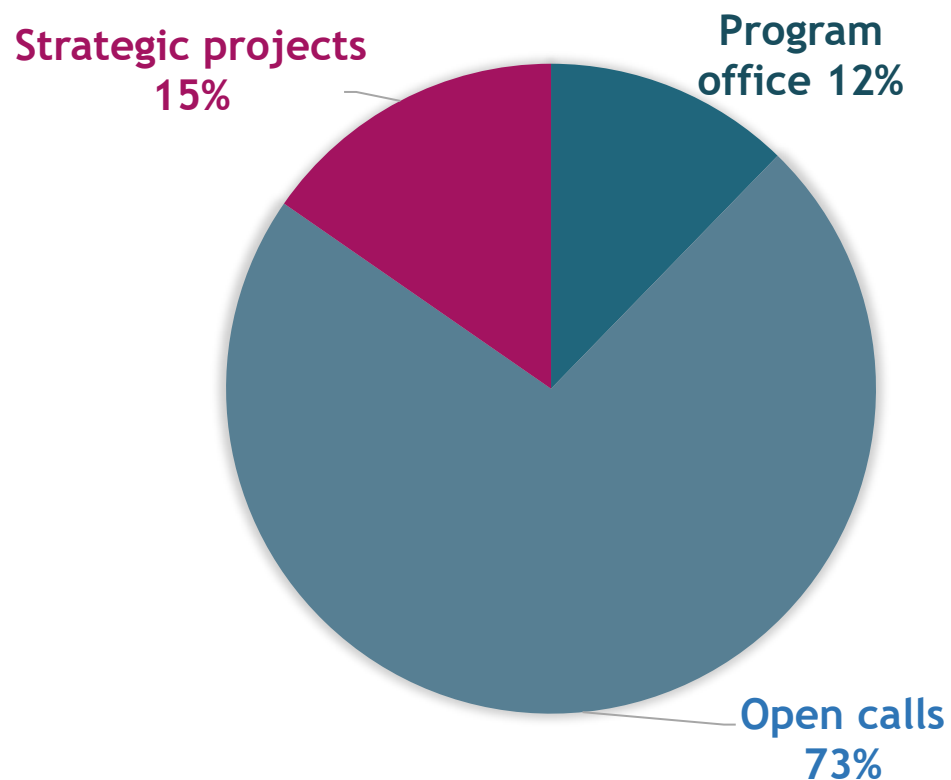
”by 2025 Swedish electronic systems enable a world-class Swedish industry”.

3 challenges

- Further developed Swedish excellence
- Increased cooperation and efficiency in the value chains
- Secure the provision of skills

Our tools

- Yearly budget ~45 Mkr



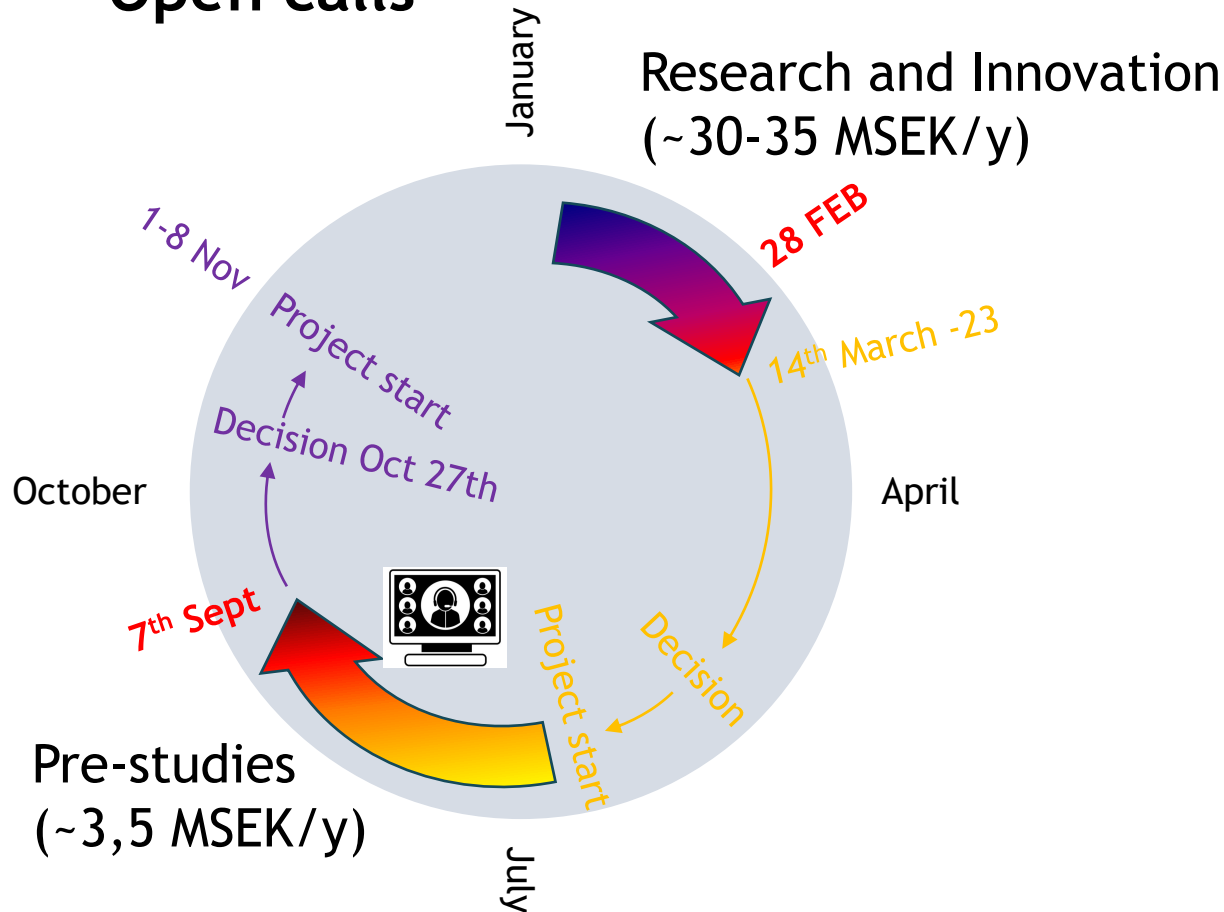
- Program office
 - ~3(4) persons
 - OutReach project: Conferences, seminars, fairs
 - Reports and lobbying
 - Managing strategic projects
 - Internationalization - industry delegation EFECs etc
- Strategic projects
 - Activities of interest for many
 - E.g. Testbed for printed electronics and *Smartare Elektronikhandboken*
- Biannual open calls through Vinnova
 - Pre-studies (~3,5 MSEK/year) Q3
 - Innovation projects (~31-33 MSEK/year) Q1



Forming ~600 SWE ECS project proposals 2014-22

Public funding for projects

Open calls



Next opportunities

Feasibility studies SES2022:02

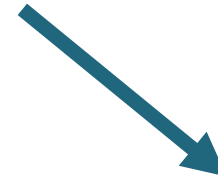
- Opened 7th June
- Deadline for proposal
7th Sept 14:00

Research and Innovation projects SES2023:01

- Open January 2023
- Deadline March 2023

Projects in open calls should contribute to achieve:

- Sustainable and profitable growth in Sweden and Swedish industry
- Strengthen industrial international competitiveness
- Swedish electronics systems contribute to transition towards a sustainable society - Contribution to SDG (AGENDA 2030 !)
 - energy efficiency
 - sustainable environment and health
 - growing population



Gender aspects

- Equality is a prerequisite for sustainable growth and is found in Agenda 2030, as a goal in itself but also as a perspective that should permeate the work with all targets. The projects within this call should therefore contribute to an egalitarian social development connected to two main perspectives.
- One aspect that Vinnova follows up and assesses applications: if both women and men equally take part in the contribution, participate in and has influence over the project (see section 7 under the actor criterion).
- Another important aspect involves analysing and deciding whether it exists gender and/or gender aspects that are relevant within the problem area of the solution and beneficial. This question is mandatory for all applicants and can be found under the heading "Project details". The answer to the question is not included in the assessment of the application in this call.

Full details read the CALL TEXT CAREFULLY !! At:

<https://www.vinnova.se/en/calls-for-proposals/the-strategic-innovation-programme-smarter-electronic-systems/electronic-components-and-systems-2022-00568/>

Scope for Feasibility studies projects

In this call, there is an opportunity to apply for funding for activities that are part of feasibility studies, where the conditions for collaboration are examined before larger research and innovation projects with a focus on the development of smart electronic systems in one of the areas where Sweden has excellence, e.g.:

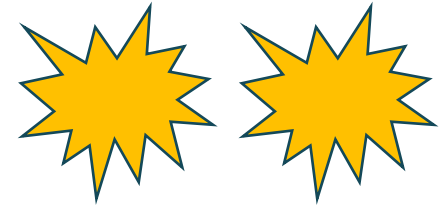
- antenna, microwave and terahertz systems (AMT)
- photonics
- sensors
- embedded systems
- micro- and nanoelectronics (MNE)
- printed electronics
- power electronics
- construction method, reliability or advanced production technology

It can be activities such as aims to acquire new knowledge and new skills to develop new or significantly improved products, processes or services.

Evaluation criteria's – feasibility studies

▪ Potential

- Sustainable growth, competitiveness, sustainable solutions
- Innovation that next phase of the project will contribute to renewal
- Potential in subsequent Fol projects to contribute to the renewal of Smartare electronic systems within one or some of the areas where Sweden has excellence.
- How well and credibly the competitive situation is described
- Potential in subsequent Fol projects to contribute to the program's purpose and goal to:
 - 1) contribute to sustainable growth for Sweden and Swedish industry
 - 2) strengthen international competitiveness
 - 3) contribute to sustainable solutions for the global challenges of the future.



▪ Partners

- Ability and credibility of the feasibility study project team e.g. project manager and other key personnel.
- The ability of imagined constellation of actors in subsequent R&I projects to i cooperation translate the results into growth and competitiveness.
- How well the feasibility study team (key people) is composed with regard to gender distribution, as well as distribution of resources, power and influence between women and men.



▪ Viability

- Realistic plan - activities vs time and expected results
- Risk management
- Preparation for next step - mobilising joint actors for subsequent Fol projects



Who can apply?

- *R&I-projects =*



- **Feasibility studies** – open to single applicants

- **Minimum 1**



What can you apply for?

Feasibility studies for collaborative projects focusing on research and innovation in Electronic Components and Systems.



Who can apply?

At least one company. Universities and research institutes can also participate in the projects.



How much can you apply for?

A maximum of SEK 500,000 and up to 50 percent of the project's costs. The estimated total budget for the call is SEK 3,500,000.

Important dates

7 SEP 2022
AT 14:00

Last application date

27 OCT 2022

Decision given

1 NOV 2022

Project allowed to start

8 NOV 2022

Project latest start date

Application and Evaluation process

SES competence hubs

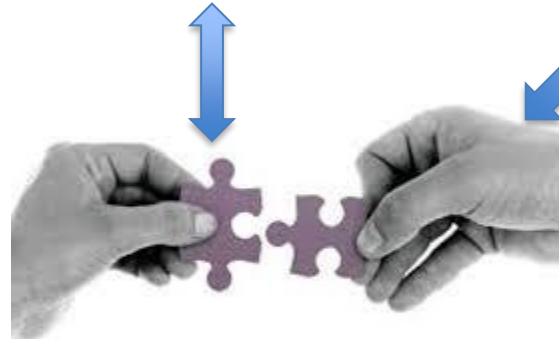
SES program office



Please read the call text

The call text contains important information about the call such as details on the assessment criteria. Please read the call text carefully before you start your application.

 Utlysningstext Smartare elektroniksystem Genomförba... (pdf, 369 kB)

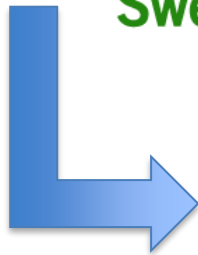
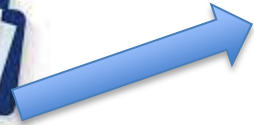


UTLYSNING

Datum
2022-06-07

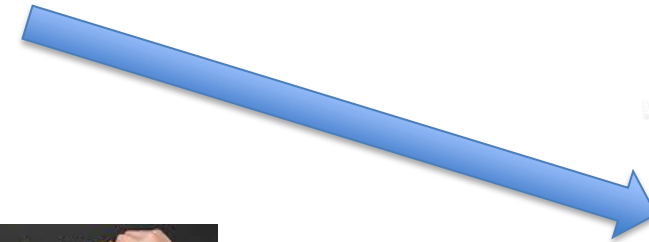
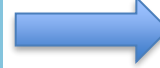
Diarienummer
2022-00568

VINNOVA
Sweden's Innovation Agency



**Smartare
Elektroniksystem**

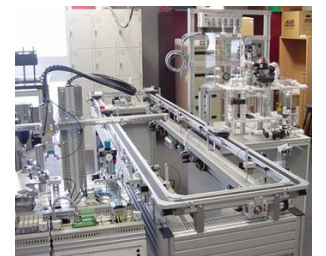
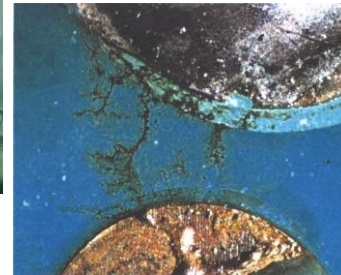
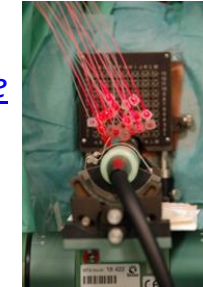
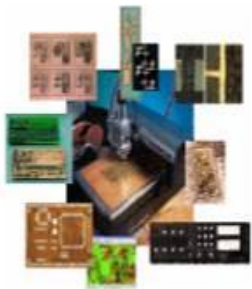
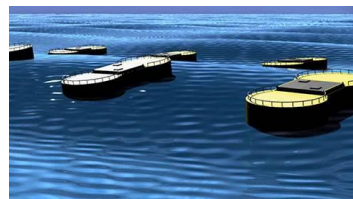
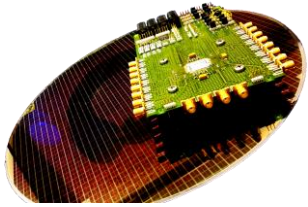
ELECTRONIC COMPONENTS & SYSTEMS



SES ECS Competence HUBs with contact info

www.smartareelektroniksystem.se/en/efforts/competence/

- **MicroNano Electronics**, Mitt University, christer.frojd@miun.se
 - *Sub-HUB Integrated Circuits and systems*, Linköpings University Atila.Alvandpour@liu.se
- **Photonics**, Photonic Sweden, lennart@photonicsweden.org
- **Power Electronics**, SiC Power Centre at RISE, Mietek.bakowski@ri.se
- **Antennas- mm wave- and terahertz systems**, Chalmers
jan.grahn@chalmers.se
- **Printed Electronics**, Printed Electronics Arena, RISE,
bjorn.norberg@ri.se
- **Embedded systems**, Luleå University, ulf.bodin@ltu.se
 - *Sub-HUB Embedded sensor systems for health*, Mälardalens Högskola, maria.linden@mdh.se
- **Advanced electronics production**, KTH, johnnyob@kth.se
- **Reliable electronics hardware**, RISE / Swerea IVF, per-erik.tegehall@ri.se



Possible Nat'l or Int' continuation



Prel. scope for R&I call 2023

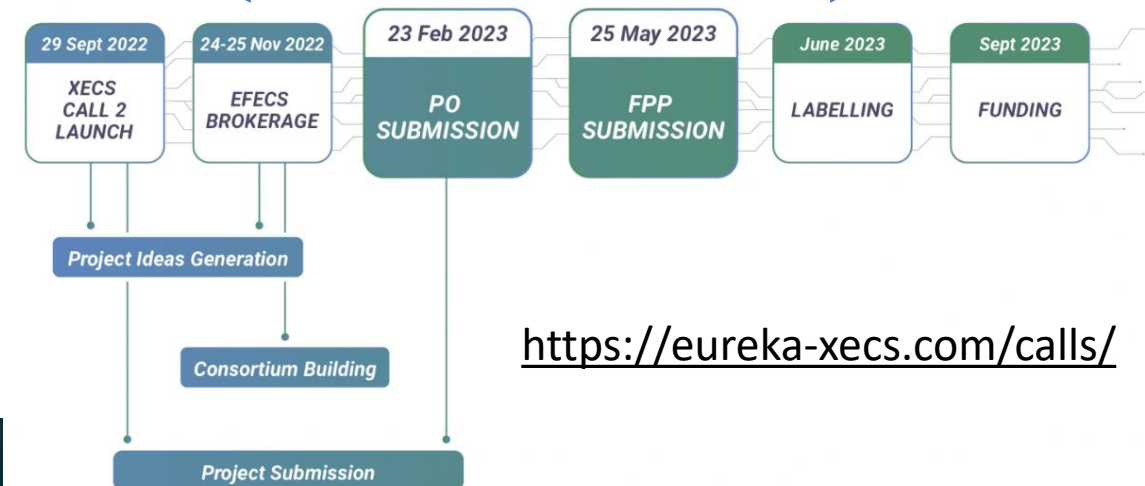
- Area
 - Embedded intelligent systems
 - Industrial needs
 - Manufacturability
 - Reliability
 - Energy efficiency

Requirements

- Industrial needs
- Consortium representing a continuous value chain

Eureka Clusters primarily Xecs (or Eurostars)

- Launch Sept
 - Phase 1 - Project Idea Development
 - Phase 2 - Consortium Building at EFECs
 - Phase 3 - Project Submission and Evaluation
 - Phase 4 - Project Management



<https://eureka-xecs.com/calls/>



is a Eureka Cluster

Års Summit 13 Sept 2022



Start > Stora Elektronikdagen med SUMMIT

Stora Elektronikdagen med SUMMIT

www.smartareelektroniksystem.se/event



Varmt välkommen till Stora Elektronikdagen med Summit!

En dag för att uppdatera dig på det senaste inom elektronikindustrin i Sverige och nätverka tillsammans med kollegor från hela branschen!

Prel. program

- 09.30 – Välkomna, moderator Mats Lewan
- 09.45 – Pitch från avslutade forsknings och innovationsprojekt
- 10.30 – Kaffepaus och projektmingel
- 11.00 – Konjunkturanalys och Embedded Conference
- 11.30 – Senaste nytt från Smartare elektroniksystem och Svensk Elektronik
- 11.45 – Elektronik i den gröna omställningen, extern talare
- 12.15 – Lunch och nätverkande
- 13.30 – European Chip Act
- 14.00 – SIP 2.0
- 14.30 – Ekonomins påverkan på avtalsrörelsen, Teknikföretagen
- 15.00 – Kaffepaus och nätverkande
- 15.30 – Workshop – Elektronik i samtid och framtid
- 16.30 – Summering
- 16.45 – Gemensam AW

Moderator för dagen är Mats Lewan – Teknikexpert och författare med föreläsningar som hjälper individer, företag och organisationer att förstå och förbereda sig inför den rekordsnabba teknikutvecklingen vi står inför.

Praktisk information

Stockholm

13 september 2022

Plats
Piperska Muren

Tid
09.00 - 17.30

Organisatör
Smartare Elektroniksystem

Avgift
Kostnadsfritt

Kontaktperson
Thorbjörn Ebefors
tf. Programchef
Thorbjorn.Ebefors@smartareelektroniksystem.se

TILL ANMÄLAN



www.smartareelektroniksystem.se

- Följ oss och engagera dig!
- Prenumerera på nyhetsbrev
 - Följ oss på LinkedIn och YouTube

Med stöd från

VINNOVA
Sveriges innovationsmyndighet

 **Energimyndigheten**

FORMAS 

**Strategiska
innovations-
program**



Q & A

Thorbjorn.Ebefors@smartareelektroniksystem.se