Formas’ mission

"is to promote and support basic research and need-driven research in the areas Environment, Agricultural Sciences and Spatial Planning. The research that is funded should be of the highest scientific quality and relevance to the areas of responsibility of the Council “

Formas’ assignments

- Distribute funds to research within Formas’ area of responsibility
- Support interdisciplinary research
- Evaluate research and development
- Identify research needs
- Initiate and support national and international cooperation
- Communicate research and results from research
- Make research results useful
- Promote sustainable development in society

(according to instructions from the Government)

Formas’ budget

- Total research funding ~ 1.1 billion SEK per year

Funding from two ministries:
- Ministry of the environment (55%)
- Ministry of rural affairs (45%)

- Comp. Swedish Research Council 4.6 billion SEK per year
  funding from the ministry of education and research
Formas’ funding instruments

- **Annual open call** "bottom up" (R&D projects, Young research leaders, Mobility starting grants) – 54% of the budget 2013
- **Targeted calls** programs, strategic, international cooperation – areas that have identified research needs – 31% of the budget 2013
- **Co-financed research** (Skogforsk, JTI, IVL, mfl) – 13% of the budget 2013
- **Other grants** (conferences and WS, information projects, urgent research needs) 2% of the budget 2013

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Connecting Climate Knowledge for Europe
Member states: Austria, Belgium, Denmark, Estonia, Finland, Germany, France, Ireland, Italy, NL, Norway, Spain, Sweden, UK, EU-COM (non voting)

Observers: Slovenia, Turkey

NordForsk, EEA, ECRA, Circle 2, ESA

Swedish representation in Governing Board: Magnus Friberg (VR) and Linda B. Ampel / Lisa Almesjö (Formas)
JPI Climate – Connecting Climate Knowledge for Europe

Climate Sciences
(different disciplines; different traditions; AIM: create common language and synergies)

Science with Society
(different languages; different understandings of the problems? AIM: create common understandings and ideas of solutions)

So far

• Strategic Research Agenda (2011)
• ”Fast Track Activities” in a range of areas with the aim to take stock and to make common priorities
• Knowledge... policy papers
• First joint call in 2013 – two topics;
  - *Societal Transformations in the face of Climate Change*
  - *Russian Arctic & Boreal Systems*
• ERA Cofund on Climate Services in H2020 2015, Formas has indicated interest to participate
Horizon 2020

- Research and innovation funding programme for 2014-2020 (~70 billion Euros)
- Responding to the economic crisis to invest in future jobs and growth
- Coupling research to innovation
- Focus on societal challenges

Important source of funding

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Funding (Million SEK)</th>
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</thead>
<tbody>
<tr>
<td>Swedish Research Council</td>
<td>4,914</td>
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<td>VINNOVA</td>
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<tr>
<td>Swedish Energy Agency</td>
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<tr>
<td>FORMAS</td>
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<td>FORTE</td>
<td>414</td>
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<tr>
<td>Swedish National Space Board</td>
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Three priorities

Excellence science
Industrial leadership
Societal challenges

Structure of the implementation

<table>
<thead>
<tr>
<th>Year</th>
<th>Strategic programme</th>
<th>Work Programme 1</th>
<th>Work Programme 2</th>
<th>Work Programme 3</th>
<th>Work Programme 4</th>
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<tbody>
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<td>2014</td>
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<td>2020</td>
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</table>
Work Programmes

Calls
- Research and Innovation grants
- ERA-NETS and other forms of cofunding
- SME actions
- Other actions

20 Programme Committees and Work Programmes

- Excellent Science: 4 PCs
  - European Research Council – ERC
  - Future and Emerging Technologies – FET
  - Marie Skłodowska-Curie Actions – MSCA
  - Research Infrastructure - RI

- Industrial Leadership: 5 PCs
  - Information and Communication Technologies – ICT
  - Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology
  - Space
  - Access to risk finance
  - Innovation in SMEs
20 Programme Committees and Work Programmes

• Societal Challenges: 7 PCs
  - Health, demographic change and wellbeing
  - **Food security, sustainable agriculture and forestry, marine and maritime and inland water research**
  - Secure, clean and efficient energy
  - Smart green and integrated transport
  - **Climate action, environment, resource efficiency and raw materials**
  - Inclusive, innovative and reflective societies
  - Secure societies

• Exceptions: 4 PCs
  - Euroatom – Fusion & Fission
  - Widening participation
  - Science with and for Society – SwfS
  - European Institute of Innovation and Technology - EIT

Role of the PC
Member states in the PC

The member represents SE and is supported by the expert. The Expert is responsible for a national reference group.

The National Contact Point is responsible for information and advice to the research constituency. Cooperates closely with the Expert.

SE representation in SC5
Climate action, environment, resource efficiency and raw material

Member: Erik Arnberg, Ministry of the environment

Linda B. Ampel
Formas
Expert/NCP

Tove Hammarberg
Naturvårdsverket
Expert

Jessica Umegård
VINNOVA
NCP

Margareta Groth
VINNOVA
Expert
Reference group for SC5
Climate action, environment, resource efficiency and raw material

- Sveriges Meteorol. och Hydrol. Institut (SMHI) Pontus Matstoms
- Havs- och vattenmyndigheten (HaV) Anna Ek
- Sveriges Geologiska Undersökning (SGU) Lisbeth Hildebrand
- Konjunkturinstitutet Eva Samakovlis
- Riksantikvarieämbetet (RAÄ) Karin Arvastson
- Svenskt Vatten Daniel Hellström
- LKAB Monica Bellgran
- Stena Metall Christer Forsgren
- Stockholm Environment Institute (SEI) Henrik Carlsten
- IVL Svenska Miljöinstitutet John Munthe
- Statens Geotekniska Institut (SGI) David Bendz
- SP Sveriges Tekniska Forskningsinstitut Jelena Olsson
- Swerea IVF Boel Wadman
- Luleå Tekniska Högskola Pär Weihed
- FOI Totalförsvarets forskningsinstitut Annika Carlsson Kanyama
- Universitet och Högskola Lars-Erik Lindell (Grants Office SLU)
- Teknikföretagen Maria Sandqvist