



Swedish Research Council Formas

Future Research on Climate Services

National funding, JPI Climate & H2020



Linda Bergqvist Ampel – Senior Research Officer



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 “

From: Regulation (2009:1024) containing instructions for the Research Council for Environment, Agricultural Sciences and Spatial Planning



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



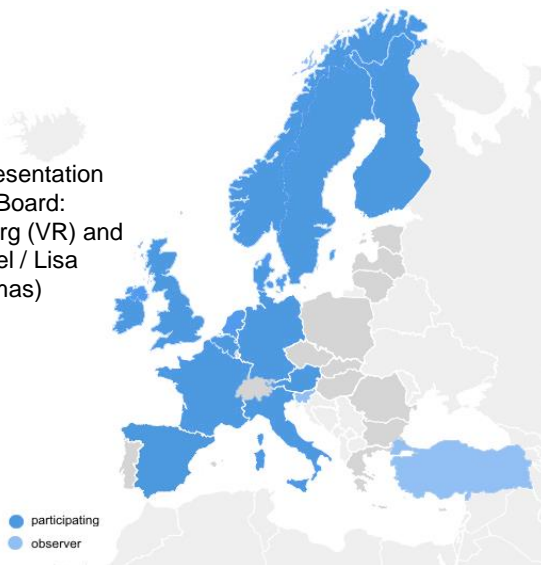
*Connecting Climate Knowledge for
Europe*



JPI Climate



Swedish representation in Governing Board: Magnus Friberg (VR) and Linda B. Ampel / Lisa Almesjö (Formas)



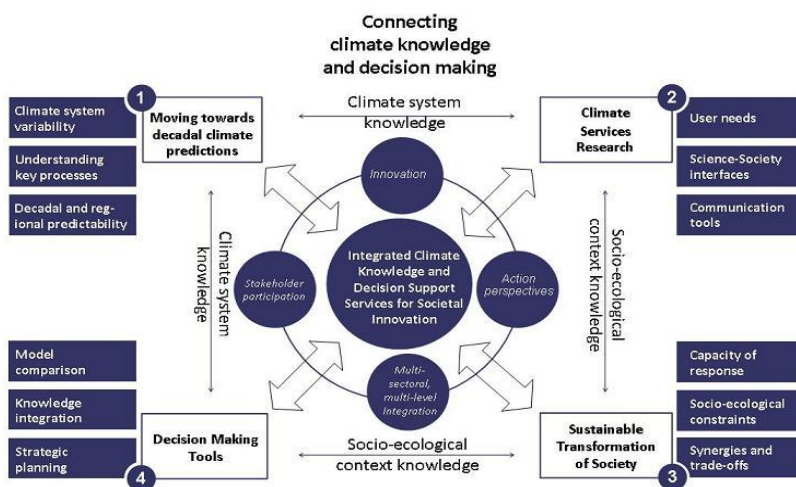
Member states: Austria, Belgium, Denmark, Estonia, Finland, Germany, France, Ireland, Italy, NL, Norway, Spain, Sweden, UK, EU-COM (non voting)

Observers: Slovenia, Turkey

NordForsk, EEA, ECRA, Circle 2, ESA



JPI Climate





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



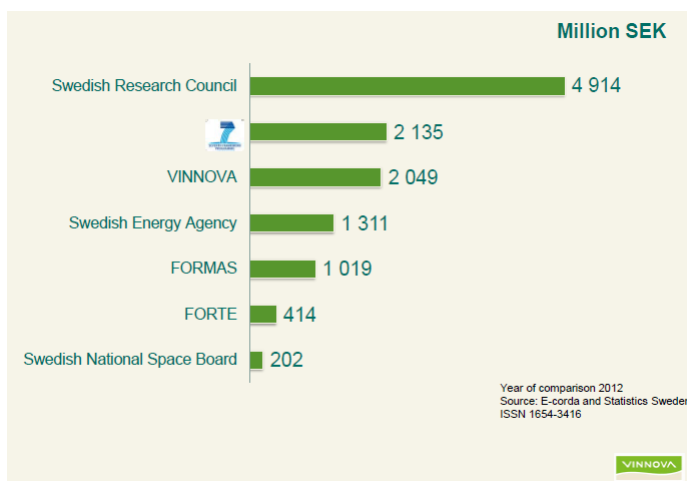
Horizon 2020



- 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

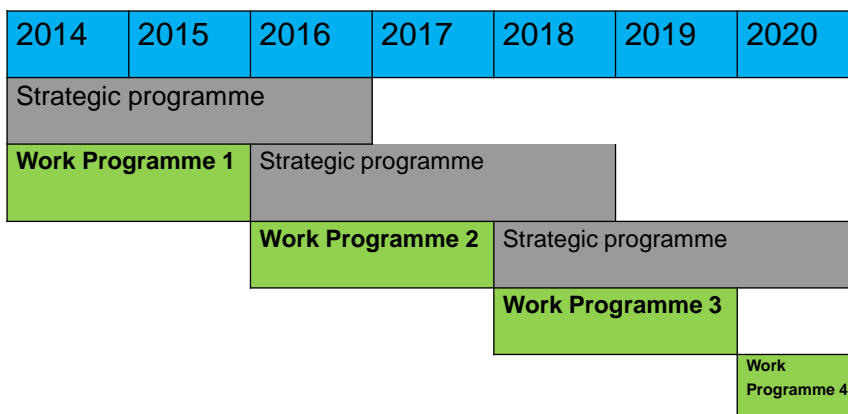




Three priorities



Structure of the implementation





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

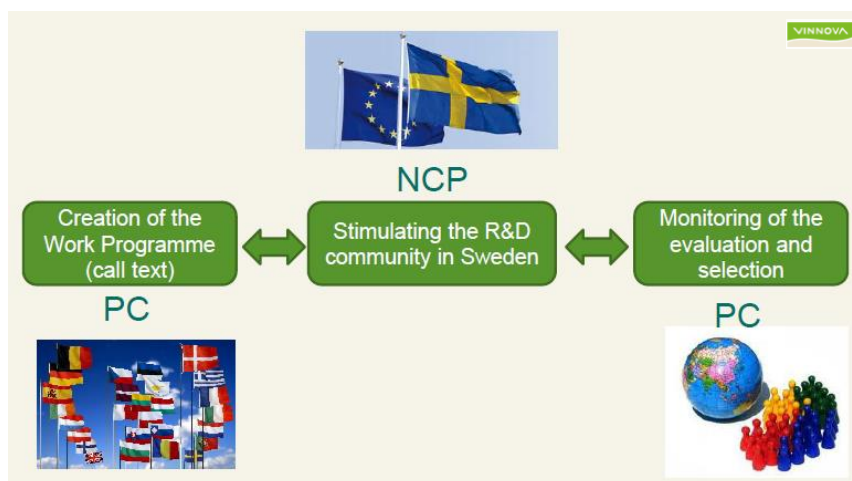


20 Programme Committees and Work Programmes

- 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

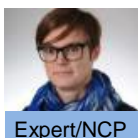


SE representation in SC5

Climate action, environment, resource efficiency and raw material

Member: Erik Arnberg, Ministry of the environment

Linda B. Ampel
Formas



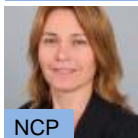
Expert/NCP



Expert

Tove Hammarberg
Naturvårdsverket

Jessica Umegård
VINNOVA



NCP



Expert

Margareta Groth
VINNOVA



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 Carlsen |
| • 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 |