

Climate services and adaptation in Horizon 2020

Cecilia Wyser, Pussel Klimatkonsult, on behalf of SMHI
 financed by VINNOVAs call
 "Nationella påverkansplattformar för ökat deltagande i Horisont 2020"



SMHI



Program

- A survey of funding opportunities for climate adaptation projects in H2020
- A proposal for the structure of the national influence work on climate adaptation - related to H2020

Definition of climate services according to Horizon 2020

Climate services should be end user-driven, co-designed with customers and stakeholders, based on open access to data.

The transformation of climate-related data into customized products such as projections, forecasts, information, trends, economic analysis, assessments (including technology assessment), counselling on best practices, development and evaluation of solutions and any other service in relation to climate that may be of use for the society at large.

PART 1 - A survey of funding opportunities for climate adaptation projects in H2020

Horizon 2020 and societal challenges

Societal challenges

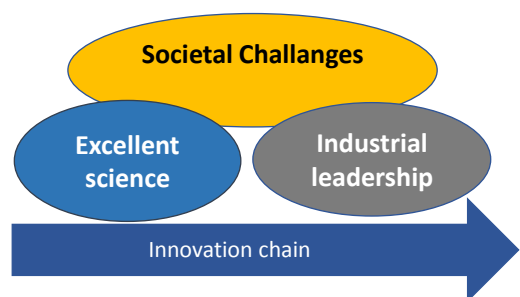
- Deals with challenges for a better society
- Large problems shared by citizens in Europe
- Research to application and commercialisation

Stronger focus on climate services and adaptation to climate change

- Included in all 7 societal challenges
- Most frequent in 2 Bioeconomy, 5 Environment 7 Security

Also emphasises on

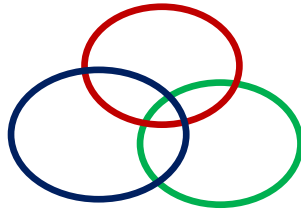
- Information and Communication Technologies (ICT)
- Open data
- End users and innovative SME



Stronger focus on end user and innovative SME-companies!

Researchers

Interdisciplinary projects
 - solves societal challenges
 - moves innovations closer to market.



Public bodies

- represents end users
 - create innovative contexts
 - testing ground
 - Packaging and dissemination of knowledge

Innovative SME - Companies

- developer in research projects (prototyping demonstration..)
 - develop own innovative projects
 - "Death Valley"

Societal challenge 2 - Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy

Sustainable food security

- Sustainable food production systems
- Safe food and healthy diets and sustainable consumption
- Global drivers of food security

Blue growth - Unlocking the potential of Seas and Oceans

- Forecasting and anticipating effects of climate change on fisheries and aquaculture
- Socio-economic sciences, innovation, engagement with society and ocean governance

Call for an Innovative, Sustainable and Inclusive Bioeconomy

- Sustainable Forestry - Improved data and management models for sustainable forestry

➔ *Productivity in focus - climate adaptation a boundary condition*

Societal challenge 5 Climate action, environment, resource efficiency and raw materials

Water innovation: Boosting its value for Europe

(Including protecting from flood and droughts)

- Bridging the gap: from innovative water solutions to market replication
- Harnessing EU water research and innovation results for industry, agriculture, policy makers and citizens

Fighting and adapting to climate change

- Coordinating and supporting research and innovation for climate action - Earth-system modelling and climate services

Societal challenge 7 - Secure societies – Protecting freedom and security of Europe and its citizen

Crisis management

- Potential of current and new measures and technologies to respond to extreme weather and climate events

Disaster Resilience & Climate Change

- Science and innovation for adaptation to climate change: from assessing costs, risks and opportunities to demonstration of options and practices
- Natural Hazards: Towards risk reduction science and innovation plans at national and European level
- Mitigating the impacts of climate change and natural hazards on cultural heritage sites, structures and artefacts

Critical infrastrucur

- Demonstration activity on tools for adapting building and infrastructure standards and design methodologies in vulnerable locations in case of natural or man-originated catastrophes

Ethical/Societal Dimension

- Impact of climate change in third countries on Europe's security

Societal challenges, other

- 1** Health, demographic change and wellbeing
 - Health promotion and disease prevention
- 3** Smart, green and integrated transports
 - Solutions for optimal cost efficiency , survey of climate risks and adaption measures.
- 4** Secure, clean and efficient energy
 - Aspects on secure energy in future climate
- 6** Europe in a changing world – inclusive, innovative and reflective Societies
 - Europe as a Global Actor – research cooperation

PART 2 - A proposal for the structure of the national influence work on climate adaptation - related to H2020

Need to influence?

- Many possibilities in Horizon 2020 - climate adaptation is integrated in most societal challenges,
- Discussed in groups where climate adaptation is a minor interest
- Driven by DG Clima
- ➔ Risk that climate adaptation is not given the needed priority

- Sweden has "special needs" in adaptation to climate change
- Sweden is not represented in all relevant bodies – Kic, Advisory groups
- Those who do participate are not always coordinated
- ➔ Risk that Swedish influence work is weak and scattered

Proposal: a crosswise influence group of Swedish players with interest in climate adaptation and EU projects

Why – influence group?

- To create better possibilities for Swedish players to participate in future calls
- Strengthen the position of climate adaptation in general
- Forum for crosswise discussions to achieve knowledge and possible consensus of the Swedish needs and interests
- Empowerment – better overall knowledge of the EU system

Who should be involved?

- Existing network for climate adaptation - national authorities
- Authorities and Researchers involved in EU initiatives: JPI, ERA-NET, Kic, Technology platform, Advisory board...
- Municipalities with experience from EU projects on climate adaptation
- Players who are involved in influence work in the different societal challenges: Trade association, Institute, Applied researcher... Interested in climate adaptation

Workshop to further develop this proposal in
beginning of september

Do you want to participate?

Please contact me

cecilia@pusselklimat.se

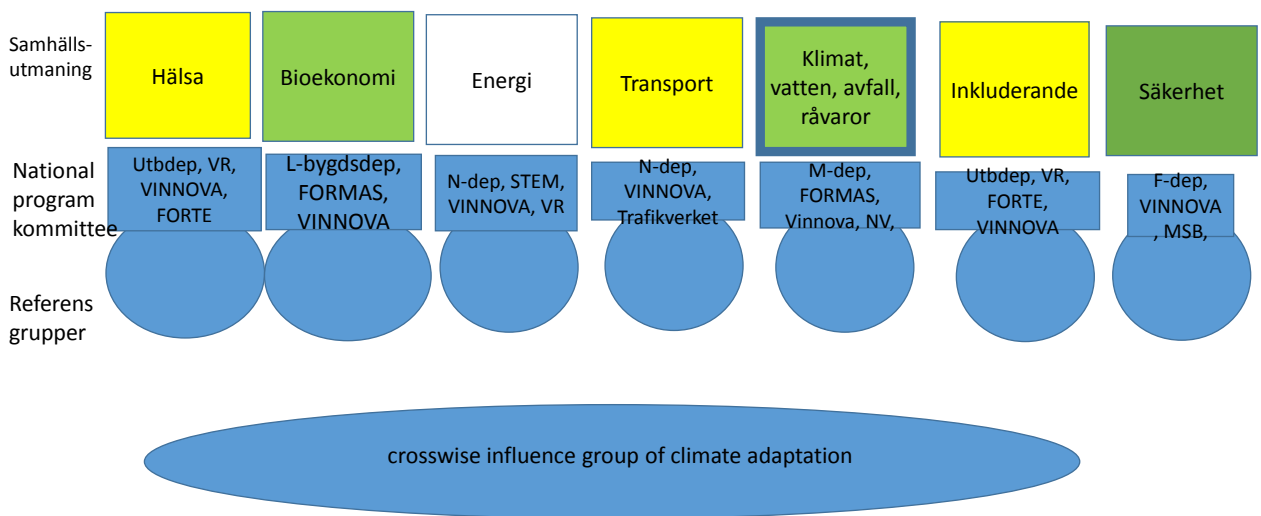
Mob: 0703-965634

Question for discussion

- What need to you see to further implement climate adaptation in Sweden?
- How well does Horizon 2020 fit the needs of the Swedish players?
- What is missing?
- What need do you see of a stronger influence work?
- How could you contribute to a stronger influence work?

Thank you for listening!

Behov av en nationell påverkansplattform klimatanpassning?



The process at EU level

- DG Clima push for adaption in other societal challenges
- DG Clima – prepare drafts and listen to other* players
- The program committee decide on work programmes.
- Program committee = member states

*Other = Technology platforms, ERA-NET, JPI, Climate Kic, Advisory experts, projects etc

➔ Swedish players in EU system important for influence work

Societal Challenges

1. Health, demographic change and wellbeing
2. **Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy**
3. Secure, clean and efficient energy
4. Smart, green and integrated transports
5. **Climate action, environment, resource efficiency and raw materials**
6. Europe in a changing world – inclusive, innovative and reflective Societies
7. **Secure societies – Protecting freedom and security of Europe and its citizens**

Societal Challenges – Climate adaptation/ services

- **5 Water innovation:** Boosting its value for Europe, inkl. protecting from flood and droughts
- **5 Climate change:** Fighting and adapting to climate change
- **7 Security** - Disaster-resilience, Crisis management, Critical infrastruktur, Ethics
- **2 Bioeconomy:** Sustainable food production, blue growth, sustainable forestry

- **1 Health:** Health promotion and disease prevention
- **3 Transports/ Infrastructur:** Solutions for optimal cost efficiency , survey of climate risks and adaption measures.
- **4 Energy:** Secure energy in future climate

Struktur - 2 åriga Arbetsprogram

| 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-----------------------|------|-----------------------|------|-----------------------|------|------|
| Strategic Programme 1 | | | | | | |
| WP 1 | | Strategic Programme 2 | | | | |
| | | WP 2 | | Strategic Programme 3 | | |
| | | | | WP 3 | | |
| | | | | | | WP 4 |