SCIENCE-BASED POLICY ADVICE IN AGRICULTURE, FOOD, CLIMATE AND ENVIRONMENT

16-17 MARCH 2021

ORGANIZED BY AARHUS UNIVERSITY (DCA & DCE)
AND THE EUROPEAN SCIENCE ADVISORS FORUM (ESAF)







SESSION 4: PURPOSE AND POTENTIALS FOR FUTURE COLLABORATION

10:45 Creating overview of institutions, types, processes and quality assurance schemes in European science policy advice.

Prof. David Budtz Pedersen, Aalborg University, Denmark

11:00 Ideas for continued trans-European collaboration in science policy advice, beyond the classical scientific collaboration.

Director Niels Halberg, Danish Centre for Food and Agriculture, Aarhus University

11:15 Group discussion on the potentials for increased collaboration







Scientific Opinion on

Scientific Advice
for Policy Making

Most **critical problems** in the world are highly **complex**



ØD ,





estificial intelligence



sustainable for

Science advice informs policy on these challenges

but science is sometimes complex and uncertain

Making best use of evidence for advice is important for good policy

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Most critical problems in the world are highly complex



climate change



biodiversity loss



artificial intelligence



sustainable food

Science advice informs policy on these challenges

but science is sometimes complex and uncertain

How to provide high quality science advice for European policy?

Recommendations



Separate scientific advice from interests, beliefs or opinions through dialogue and agreements
Scientists and policy makers should engage early and regularly



Consider all good science, disciplines and multidisciplinary expertise

Ensure **rigorous** expert consultation and **evidence synthesis**

be comprehensive, transparent, iterative



Refine the approach to conflicts of interests Develop a **single code of good practice** advising the Commission

Analyse, assess and communicate **uncertainties** more effectively

The opinion was published in September 2019. Its recommendations are available to the new Commission.



MAKING SENSE OF SCIENCE FOR POLICY UNDER CONDITIONS OF COMPLEXITY AND UNCERTAINTY

Conclusions of the report (my selection):

- The purpose and significance of scientific advice depend on the issue and the context.
- Scientists, as well as policymakers, should be sensitive to various biases and interests
- Science advice is always affected by values, conventions and preferences.
- The effectiveness of scientific advice depends on the right composition of advisers and the quality of the dialogue between advisers and policymakers.
- The relationship between science advisers and policymakers relies on mutual trust.
- Stakeholders and citizens should be integrated into the process.





SAPEA, Science Advice for Policy by European Academies. (2019). Making sense of science for policy under conditions of complexity and uncertainty. Berlin: SAPEA.

https://doi.org/10.26356/MASOS







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- ?! Challenges
- Integrity
- Independence,
- arms-length,
- Disagreement between scientists (ambiguity),
- Uncertainties
- Transparency
- •
- => need for exchange of best practices





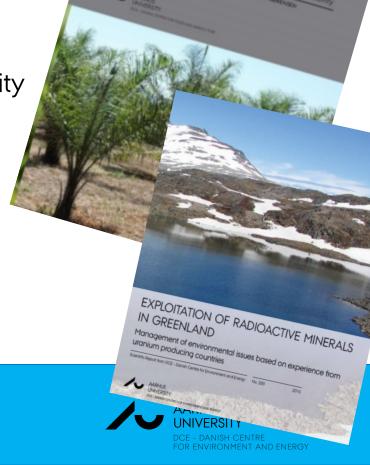


IDEAS FOR CONTINUED TRANS-EUROPEAN COLLABORATION IN SCIENCE POLICY ADVICE (META-LEVEL)

- Best practices, shared principles vis-a-vis identification of important challenges
 - procedures and quality assurance schemes applied under different governance structures and types of science advice
 - Stakeholder engagement, uncertainties, complexities, ambiguity
 - consistency over time vs improved knowledge, recruitment,
- Developing training courses
- Peer review of "science advice processes" and quality assurance schemes
- Continue building overview of peer institutions involved in science advice and practices for dealing w challenges







SOY AND PALM OIL



International Science Council



- The European Science Advisors Forum (ESAF) is an independent platform of European sciencebased strategic advisors that promotes and facilitates the use of evidence-based science.
- ESAF is committed to sharing relevant information, enhancing the exchange of best practices and building sustainable capacity and capability across a range of different national science advisory organisations and systems in Europe.

- INGSA is a collaborative platform for policy exchange, capacity building and research across diverse science advisory organisations and national systems.
- The network aims to enhance the global science-policy interface and improve the use of evidence based policy formation at both national and transnational levels through workshops and fora.

SATEA

uropean Academies easac Science Advisory Council

EASAC's working structure centres around enabling contributions from Europe's top scientists to important questions of EU policymaking

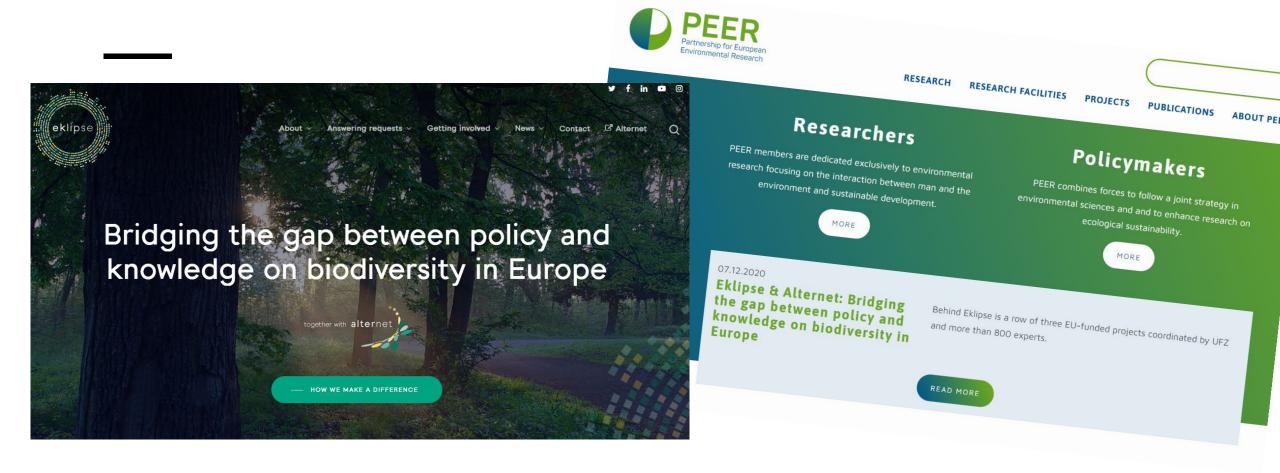
European Science Advisors

SAPEA is part of the European Commission's Together with the Group of Chief Scientific Scientific Advice Mechanism. Advisors, we provide independent scientific advice to European Commissioners to support their decision-making.

ADVICE



INSTITUTIONAL COLLABORATION IN ENVIRONMENTAL SCIENCE









IDEAS FOR CONTINUED TRANS-EUROPEAN COLLABORATION IN SCIENCE TO POLICY ADVICE

(TOPIC SPECIFIC ISSUES WITHIN AGRICULTURE, FOOD, CLIMATE AND ENVIRONMENT)

- Topic specific working groups and collaboration on science advice
- Ad hoc exchange of methods and collaboration within specific parallel science-advice processes (examples do exist already)
- Second opinion and peer review of specific science advice tasks
- Reference point for scientific projects and partnerships with ambitions for providing science advice (EJP Soil, Horizon Europe partnerships, ...)

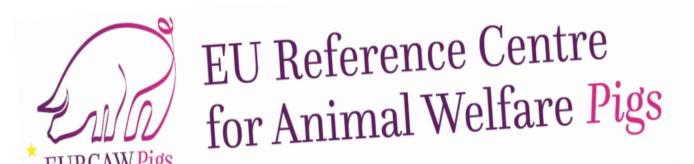






TRANS-EUROPEAN LONG-TERM COLLABORATION ON SCIENCE ADVICE: EURCAW - AN EXAMPLE...

- Supporting the enforcement of pig welfare legislation is one of the Commission's priorities.
- Designated and with clear mandate
- EURCAW-Pigs provides scientific and technical knowledge to Competent Authorities of EU member states, to animal welfare policy workers and to their support bodies
- science, training and communication.
- For verification of compliance with the European pig welfare legislation



"For technical and scientific advice on pig welfare, please send us an email with your question.
This Q2E service is open to Competent Authorities and government policy workers of EU Member States."



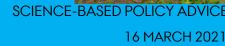




AD-HOC EXCHANGE IN POLICY ADVICE RELATED TO NATIONAL IMPLEMENTATION OF EC DIRECTIVES; - EXAMPLES OF PEER REVIEW AND SECOND OPINIONS











COLLABORATION IS HIGHLY NEEDED!









