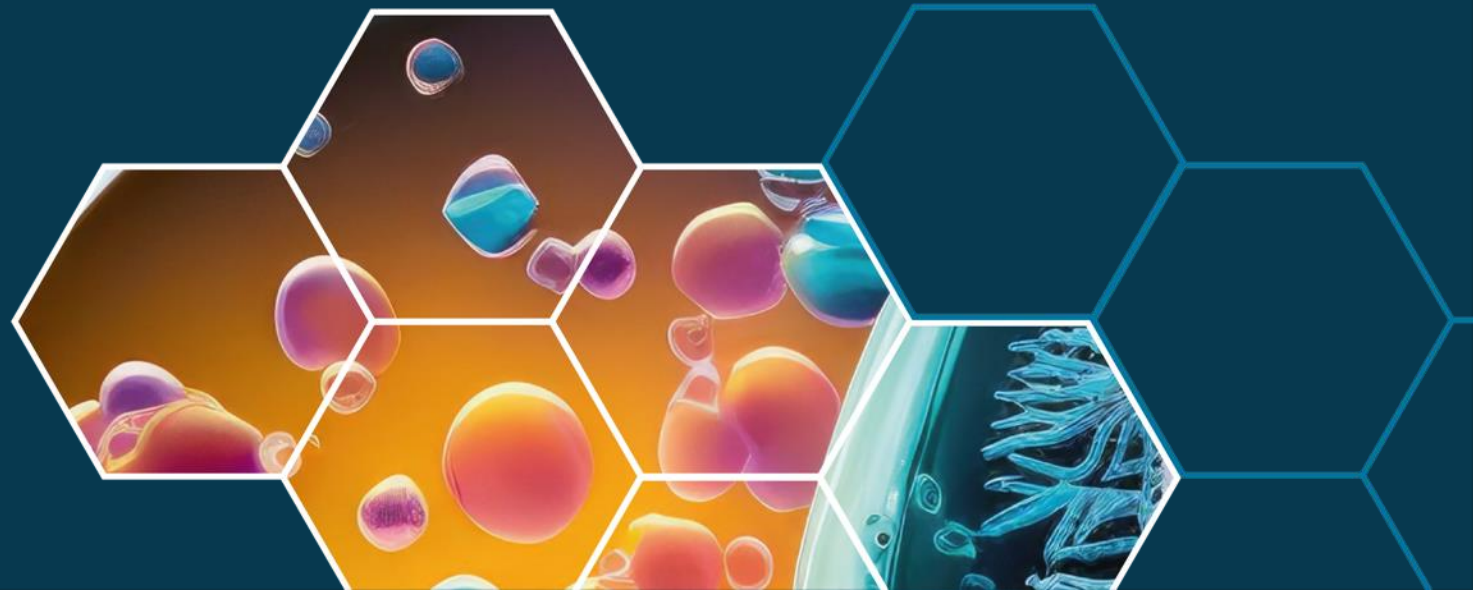




Solar radiation modification: What's at stake for society?

3rd February 2025



30th Anniversary of Academia Europaea,
The Royal Society London 2018



ACADEMIA EUROPAEA

CARDIFF

Director: Ole Petersen CBE FRS ML MAE; Hub Manager: Louise Edwards

SAPEA:

Science Advice for Policy by European Academies
provides scientific evidence for

SAM: The European Commission's
Scientific Advice Mechanism

Academia Europaea (AE)

- Founded in 1988
- Now has more than 5000 members, including more than 80 Nobel laureates
- Members are leading scientists and scholars, elected by their peers
- Operates through a network of hubs across Europe, including Cardiff
- Is a partner in **SAPEA** together with several other European academic networks
- The AE Hub in Cardiff co-ordinates AE's work for **SAPEA**



SRM webinar series

- Solar radiation modification: What are the technologies, and what are the risks?
 - 11th March, 14:00 hours CET
- Solar radiation modification: What's at stake for society?
 - 3rd February, recording
- Solar radiation modification: What should Europe's strategy be?
 - 23rd January, recording



Our speakers

- Benjamin Sovacool, Co-Chair of SAPEA Working Group on SRM
- Aarti Gupta, Member of the SAPEA Working Group on SRM
- Florian Rabitz, Member of the SAPEA Working Group on SRM
- Eric Lambin, Group of Chief Scientific Advisors
- Dušan Chrenek, Principal Adviser, Directorate-General for Climate Action, European Commission



Format of webinar

- Background
- Opening 10-minute presentations from 3 speakers
- Brief comments from Eric Lambin (GCSA) and Dušan Chrenek (EC)
- Audience interaction – please use Q&A box to ask questions to the panel

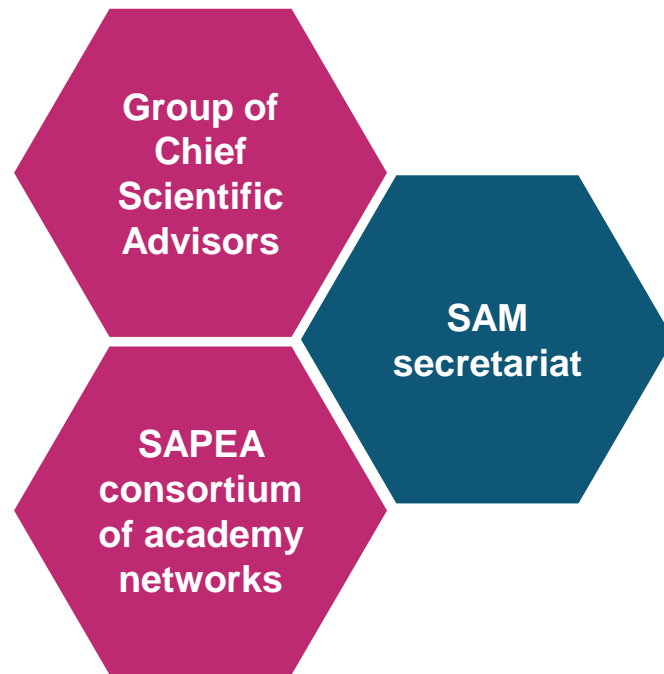


Who we are

The SAM provides **independent scientific evidence and policy recommendations** to the College of European Commissioners on any subject, including on issues that the European Parliament and the Council consider to be of major importance.



The three parts of the SAM



About the Advisors



- **Seven highly qualified experts**
Backgrounds in various disciplines, both social and natural sciences
- **Make policy recommendations**
in response to requests for advice

About SAPEA (Science Advice by European Academies)



- Brings together some 120 academies from 40 countries across Europe
- Provides independent evidence reviews on request
- Informs the Advisors' policy recommendations



How we work

We receive a request

European Commissioners can ask us for advice on any topic

We review the evidence

A SAPEA working group writes an evidence review report

We make recommendations

The Advisors write a Scientific Opinion based on the evidence

We deliver our advice

Our evidence and recommendations are both handed to the Commission



Request for scientific advice

- In 2023, **former EVP Timmermans** asked the European Group of Chief Scientific Advisors (GCSA) to assess the **risks and opportunities associated with research on SRM** and its potential deployment
 1. *How can we address the risks and opportunities associated with research on solar radiation modification and with its potential deployment?*
 2. *What are the options for a governance system for research and potential deployment considering different solar radiation modification technologies and their scale?*



SAPEA Evidence Review Report

- Working group
 - 20 experts from different disciplines, countries, career stage, stance on SRM etc
- Structure of report
 - Introduction
 - 3 chapters on science and technology background and issues
 - 3 chapters on social science-related background and issues
 - Policy options

