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Perspectives on Solar Radiation Modification Governance

12 October 2023 | 10:00–12:00 CEST

International Environment House II & Webex

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Perspectives on Solar Radiation Modification Governance

Technical Information

- Throughout the event, you may raise your questions in the Q&A box
- Automatically translated subtitles in many languages are available through the captions button on the bottom left of your screen
- The recording, summary and documents will be made available on the event's website



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SPEAKERS

By order of intervention.



**H.E. Amb.
Felix WERTLI**



Switzerland Ambassador for the
Environment | Chair



Patrycja SASNAL



Member of the Advisory Committee to the
Human Rights Council | Head of Research,
Polish Institute of International Affairs



Pascal LAMY



Chair, Climate Overshoot Commission |
Vice President of the Paris Peace Forum;
former Director-General, WTO



**Marie-Valentine
FLORIN**



Secretary General, International Risk
Governance Council (IRGC) Foundation



Andrea HINWOOD



Chief Scientist, UN Environment Programme



Anthony PATT



Lead, Climate Policy Lab, ETH Zürich |
Coordinating Lead Author, International
Cooperation Chapter, WGIII AR6, IPCC



Cheikh Ndiaye SYLLA



Director of Ministerial Cabinet for
Environment and Sustainable
Development, Senegal



Lili FUHR



Director, Fossil Economy Program, Center
for International Environmental Law

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**UNEP Independent
Expert Review**



Andrea HINWOOD

Chief Scientist, UN Environment Programme



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One Atmosphere:

An independent expert review on Solar Radiation Modification research and deployment



unep.org/resources/report/Solar-Radiation-Modification-research-deployment

One Atmosphere:

An independent expert review
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UN 
environment
programme



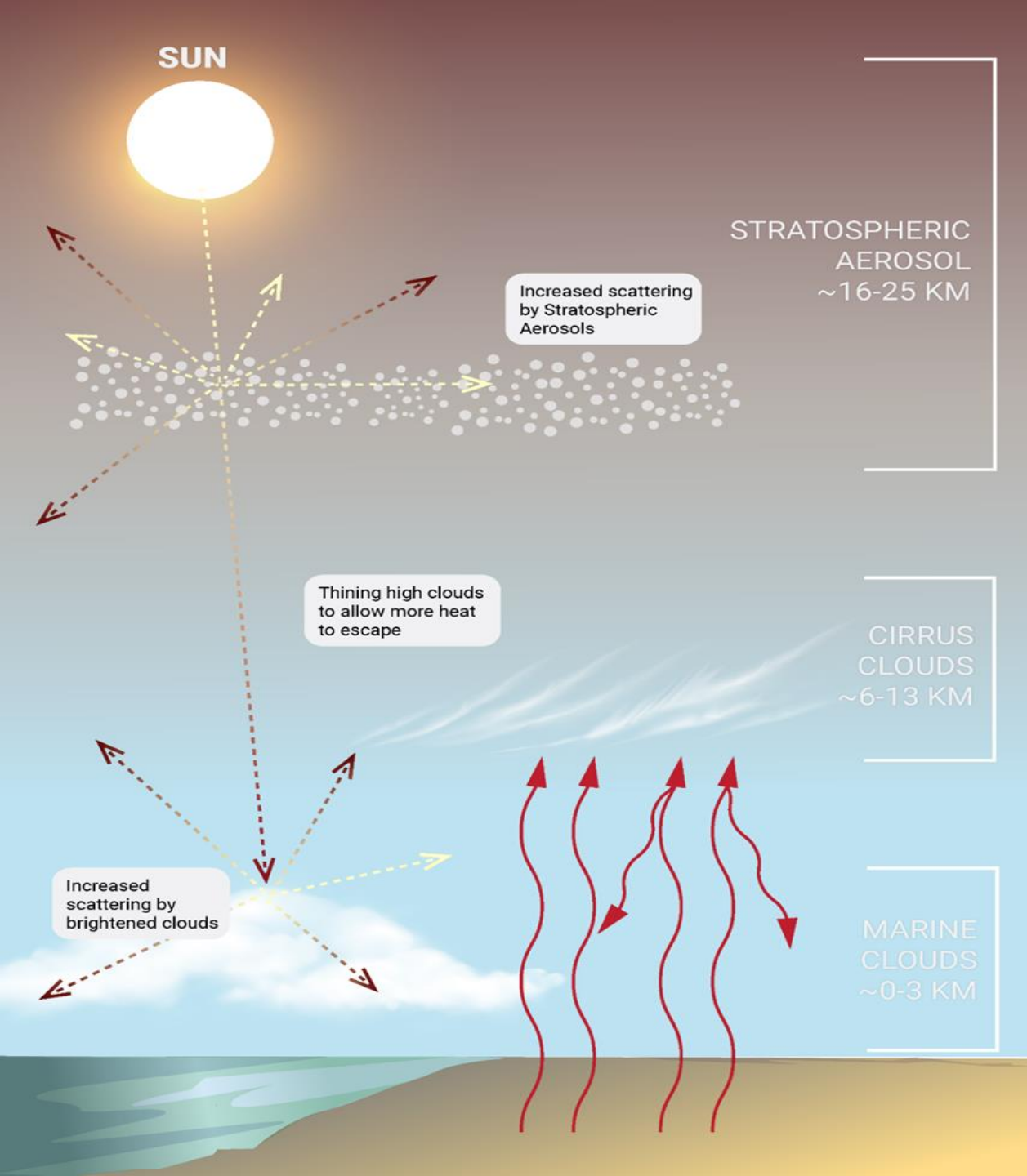
'One Atmosphere: An independent expert briefing on Solar Radiation Modification (SRM) research and deployment'

Dr. Andrea Hinwood
Chief Scientist, United Nations Environment Programme
12 October 2023

Background

- The IPCC continues to warn the world is not on track to meet the Paris Targets and that drastic and rapid cuts in greenhouse gas (GHG) emissions are critical to avoid global mean warming increasing the frequency and intensity of extreme weather, the melting of polar and glacial ice, and sea level rise, among other changes in the Earth system
- As the global community grapples with the climate crisis, Solar Radiation Modification (SRM), also called geoengineering and climate altering technologies and measures (CATM) (highly controversial technologies) being increasingly scrutinised, discussed, debated and researched as a potential approach to offset climate change impacts and avoid global temperature overshoot
- Debate on these possible technologies is polarized





What is SRM?

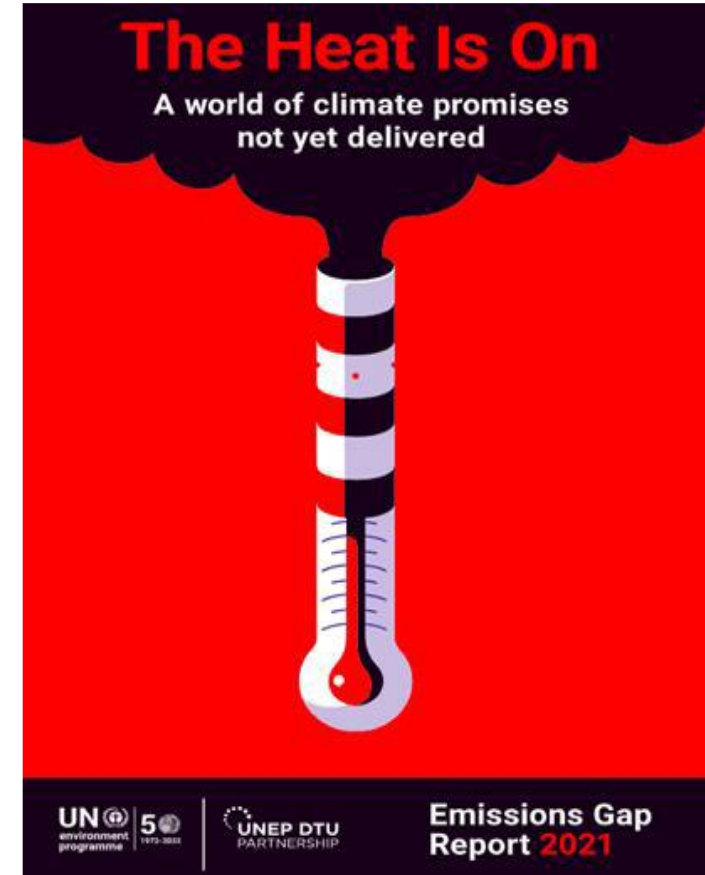
- Solar Radiation Modification - technologies that aim to cool the planet
- **SRM does not reduce, remove or manage GHG emissions**
- Stratospheric aerosol injection (SAI) specifically, is being studied and discussed as an “emergency” method - involves injection of aerosols into the stratosphere
- Modelling studies indicate a large-scale continuous SRM deployment could offset some effects of greenhouse gases on global and regional scales
- Volcanic eruptions give us some indication of the potential to cool the planet

What we know and don't know

- Limited literature on uncertainties and risks of impacts
- No international scientific consensus on the risks of SRM
- The cooling effects of SRM would start to diminish as soon as the SRM deployment is halted – potential termination shock.
- Could delay closing of ozone hole
- Impacts such as warming of polar regions. Cooling of tropics
- Research in this field is seen as the slippery slope to deployment.
- These technologies are seen as potentially influencing geopolitics, introducing security risks and aiding developed countries at the expense of developing countries/ economies; economies already deeply impacted by changes to the environment and climate.

Some Key Concerns

- The limited focus on potential environmental impacts
- Decisions about SRM experimentation and deployment would not be made in a globally inclusive, equitable and transparent manner
- SRM discussions might shift financial, political and intellectual resources from mitigation and adaptation efforts (the 'moral hazard' problem)
- There is no governance over (i) research, (ii) indoor experimentation, (iii) small scale or (iv) large-scale outdoor deployment



Concluding Remarks

- The UN is not promoting research but recognizes that research is on foot.
- **SRM does not solve the problem of climate change**
- SRM technologies are fraught with uncertainties on the potential risks and impacts, compounded by complex issues of ethics and governance.
- A precautionary approach is required
- There is need to bring a level of scientific discipline and evidence to the table to further broaden the global understanding and engagement in the discussion of SRM.
- It is important to maintain neutrality to what has become a polarized debate potentially distracting from action on climate change
- Discussions could be initiated regarding what form a governance framework might take

Thank you

Andrea Hinwood
Chief Scientist
UNEP
andrea.hinwood@un.org

United Nations Avenue, Gigiri
PO Box 30552 – 00100 GPO Nairobi, Kenya

www.unep.org

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**Advisory Committee
of the Human Rights
Council**

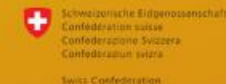


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Report of the Human Rights Council Council Advisory Committee Impact of new technologies intended for climate protection on the enjoyment of human rights



undocs.org/en/A/HRC/54/47

United Nations A/HRC/54/47
 **General Assembly** Dist.: General
10 August 2023
Original: English

Human Rights Council
Fifty-fourth session
11 September–6 October 2023
Agenda items 3 and 5
Promotion and protection of all human rights, civil,
political, economic, social and cultural rights,
including the right to development
Human rights bodies and mechanisms

**Impact of new technologies intended for climate protection
on the enjoyment of human rights**

Report of the Human Rights Council Advisory Committee^{a, **}

^a Agreement was reached to publish the present report after the standard publication date owing to circumstances beyond the Committee's control.

^{**} The annex is being circulated as received, in the language of submission only.



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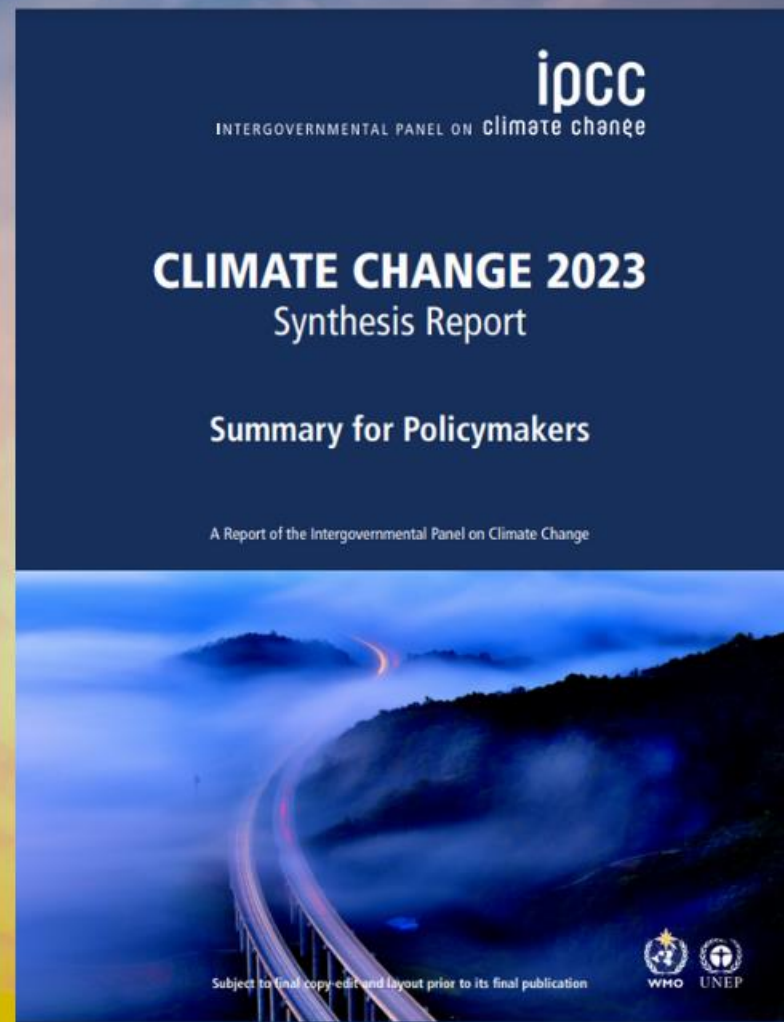
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Impact of new technologies
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ipcc.ch/reports/

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Anthony PATT

Lead, Climate Policy Lab, ETH Zürich | Coordinating
Lead Author, WGIII Sixth Assessment Report,
Intergovernmental Panel on Climate Change



ETH zürich



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Risk and governance aspects of Solar Radiation Modification

Anthony Patt

Professor of Climate Policy, ETH Zürich

IPCC AR6 Working Group III Coordinating Lead Author on this topic

Presentation to Geneva Environment Network, 12.10.2023

ETH zürich



Cross-Working Group Box 4 | Solar Radiation Modification

Authors: Govindasamy Bala (India), Heleen de Coninck (the Netherlands), Oliver Geden (Germany), Veronika Ginzburg (the Russian Federation), Katharine J. Mach (the United States of America), Anthony Patt (Switzerland), Sonia I. Seneviratne (Switzerland), Masahiro Sugiyama (Japan), Christopher H. Trisos (South Africa), Maarten van Aalst (the Netherlands)

Proposed Solar Radiation Modification schemes

This cross-working group box assesses Solar Radiation Modification (SRM) proposals, their potential contribution to reducing or increasing climate risk, as well as other risks they may pose (categorised as risks from responses to climate change in the IPCC AR6 risk definition in 1.2.1.1), and related perception, ethics and governance questions.

SRM refers to proposals to increase the reflection of shortwave radiation (sunlight) back to space to counteract anthropogenic warming.

(5 pages)

Great Barrier Reef (McDonald et al. 2019). Co-evolution of governance and SRM research provides a chance for responsibly developing SRM technologies with broader public participation and political legitimacy, guarding against potential risks and harms relevant across a full range of scenarios, and ensuring that SRM is considered only as a part of a broader portfolio of responses to climate change (Stilgoe 2015; Nicholson et al. 2018). For SAI, large-scale outdoor experiments even with low radiative forcing could be transboundary and those with deployment-scale radiative forcing may not be distinguished from deployment, such that MacMartin and Kravitz (2019) argue for continued reliance on modelling until a decision on whether and how to deploy is made, with modelling helping governance development.

14.4.5.1 Global Governance of Solar Radiation Modification and Associated Risks

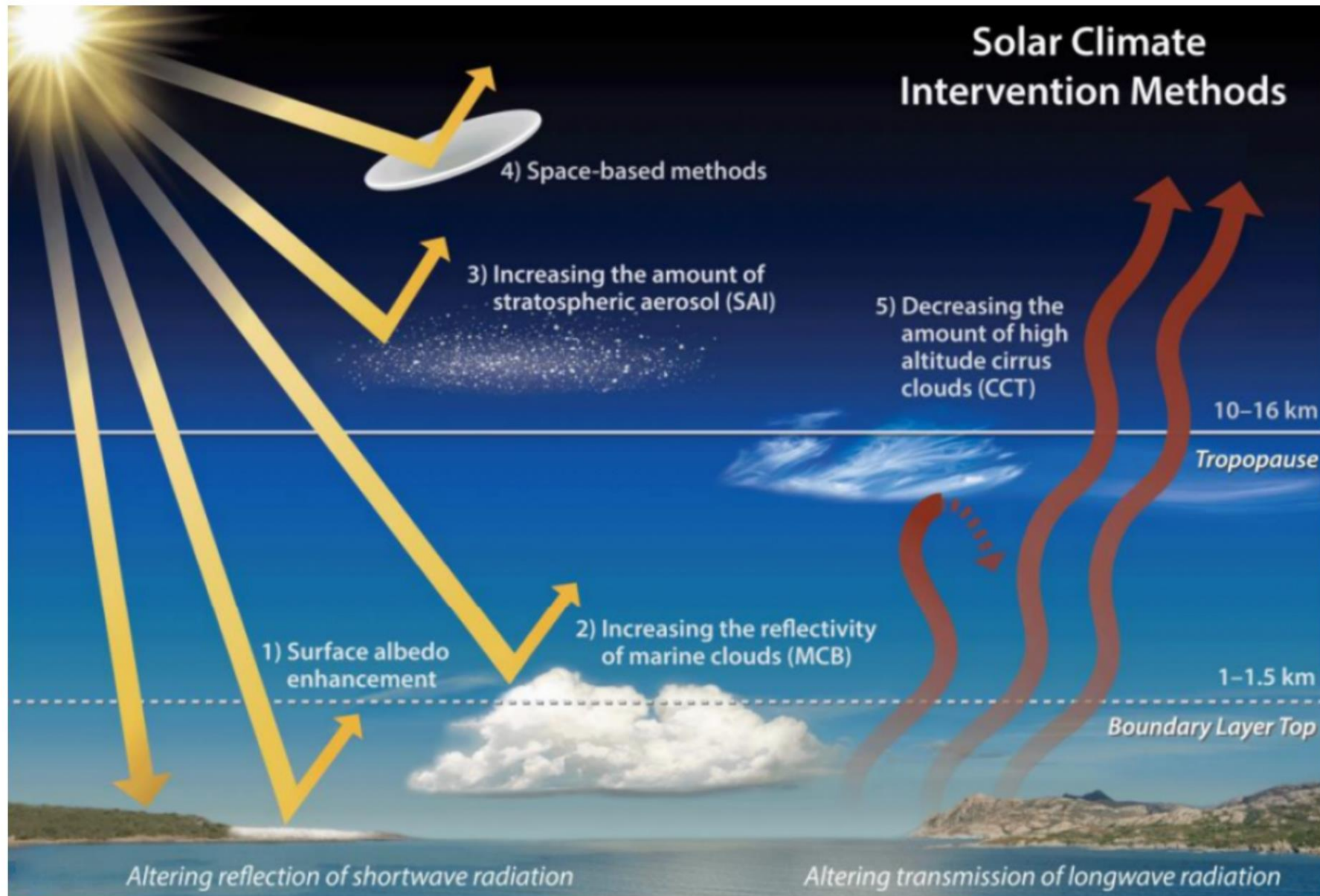
Solar radiation modification, in the literature also referred to as 'solar geoengineering', refers to the intentional modification of the Earth's shortwave radiative budget, such as by increasing the reflection of sunlight back to space, with the aim of reducing warming. Several

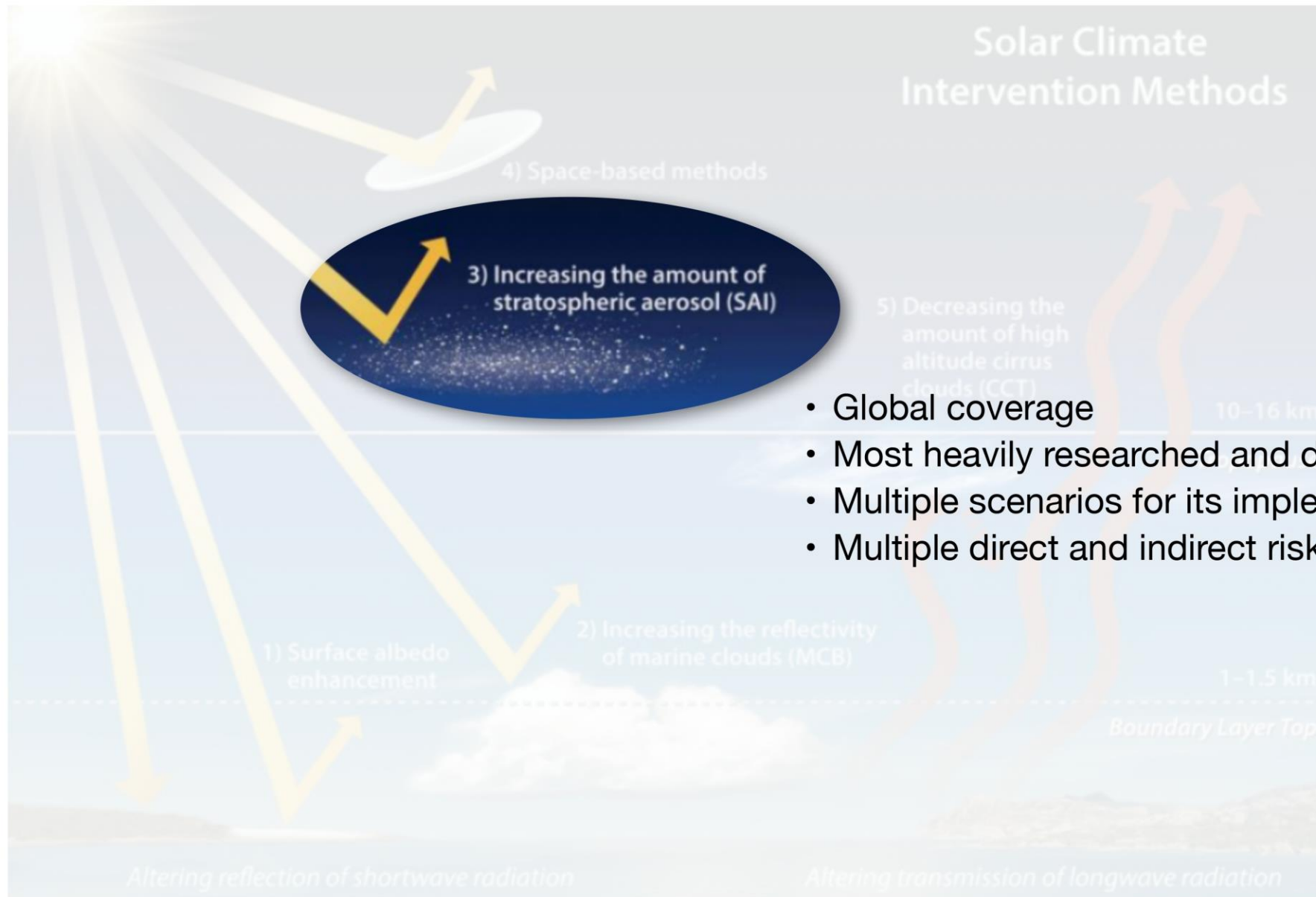
While there is room for national and even sub-national governance of SAI – for example on research (differentiating indoor from open-air) (Jinnah et al. 2018; Hubert 2020) and public engagement (Bellamy and Lezaun 2017; Flegel et al. 2019) – international governance of SAI faces the challenge that comprehensive institutional architectures designed too far in advance could prove either too restrictive or too permissive in light of subsequent political, institutional, geophysical

(1.5 pages)

IPCC coverage

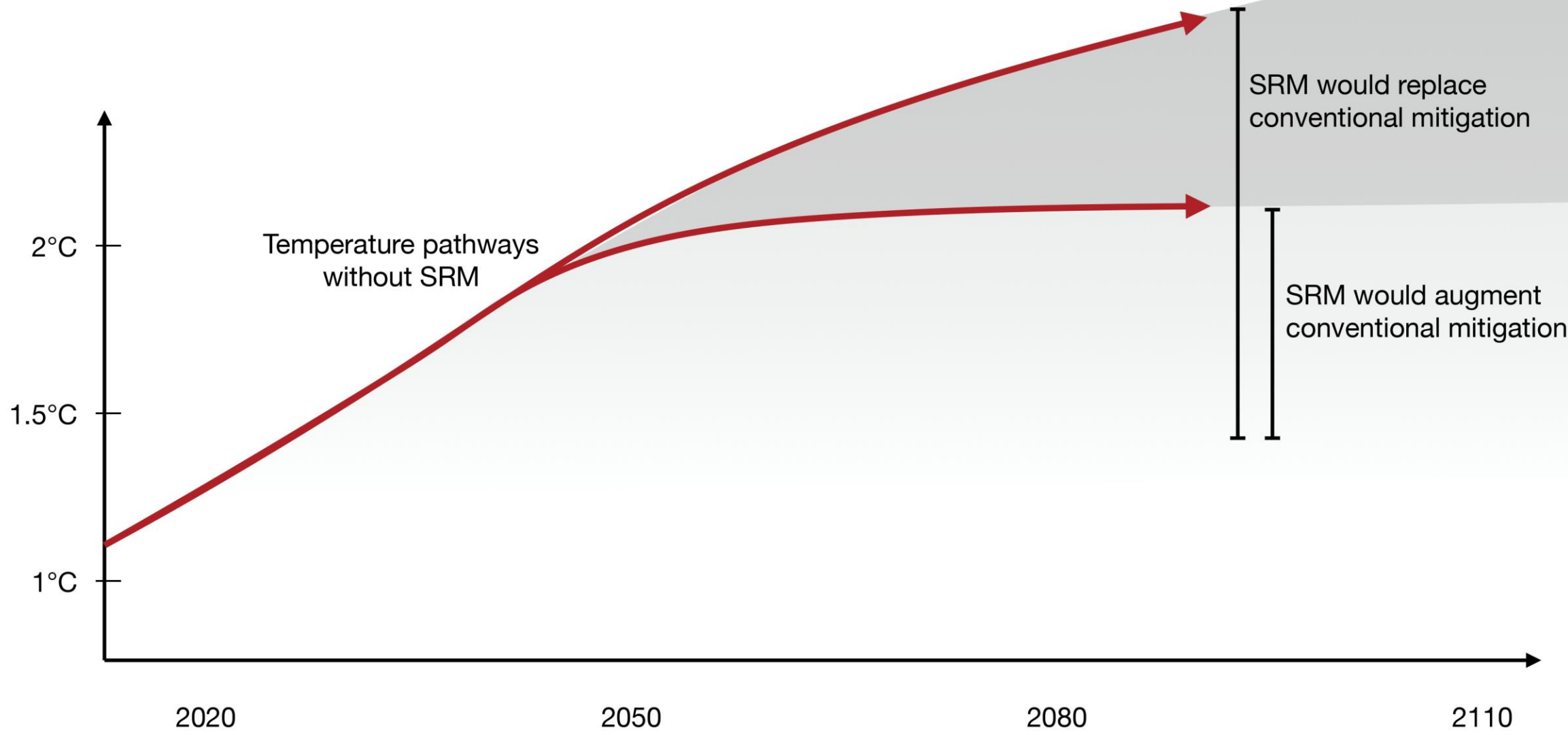
- methods
 - scenarios
 - risks
 - public perception
 - ethics
 - governance
-
- deeper dive into governance



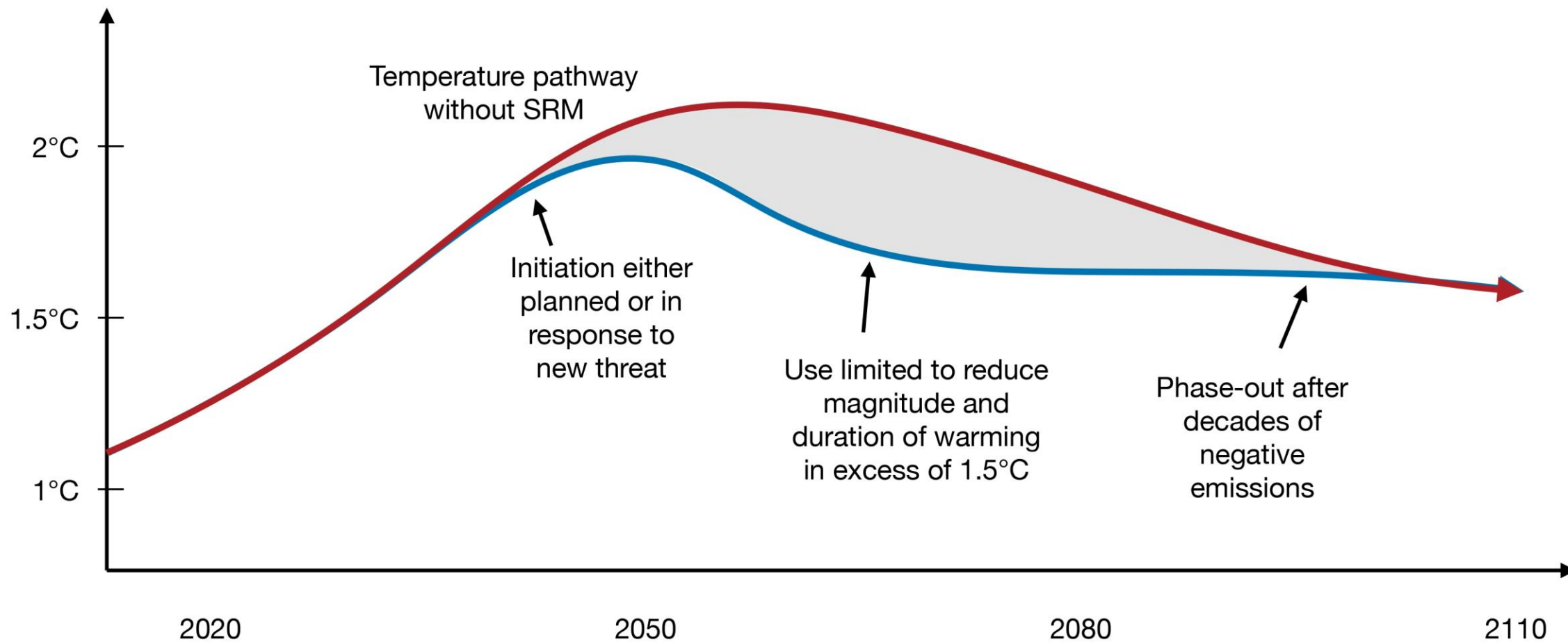


- Global coverage
- Most heavily researched and discussed
- Multiple scenarios for its implementation
- Multiple direct and indirect risks

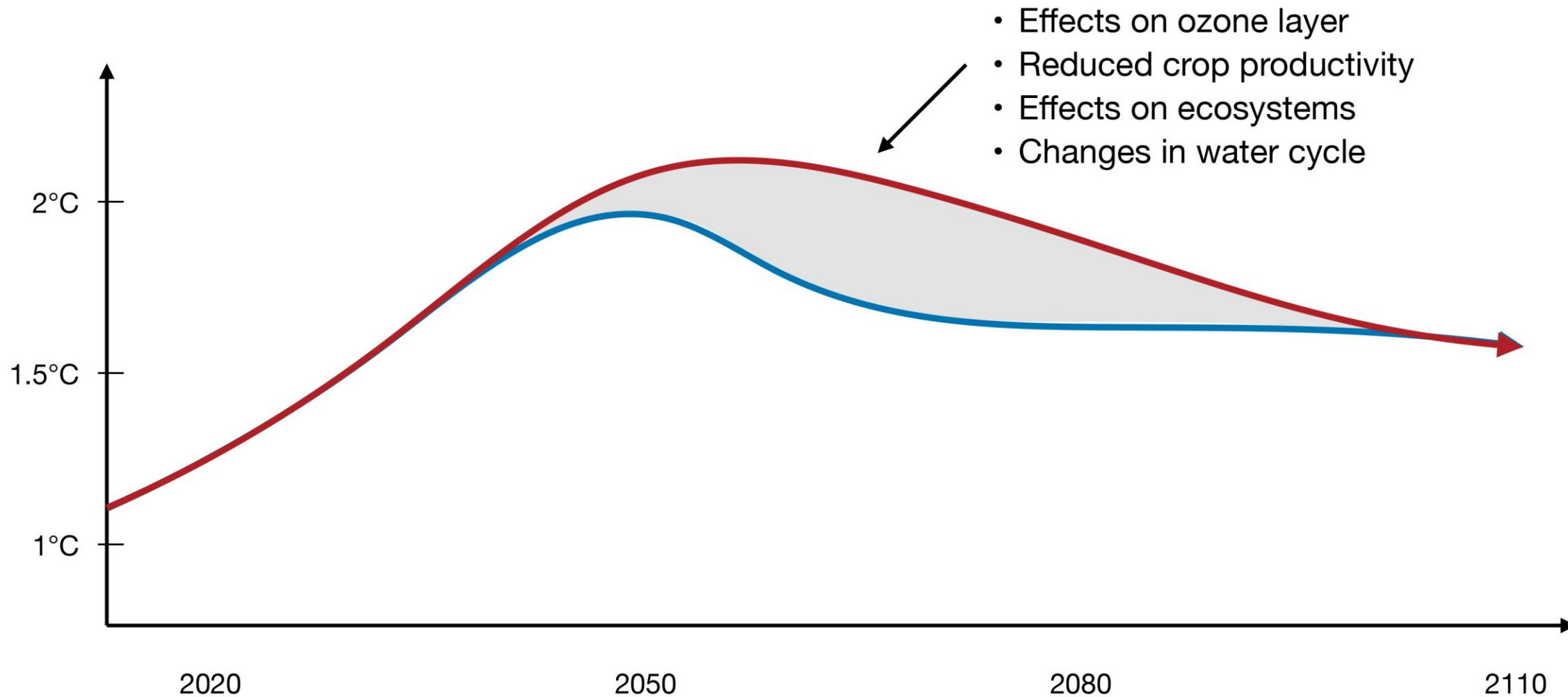
Permanent SRM use scenarios



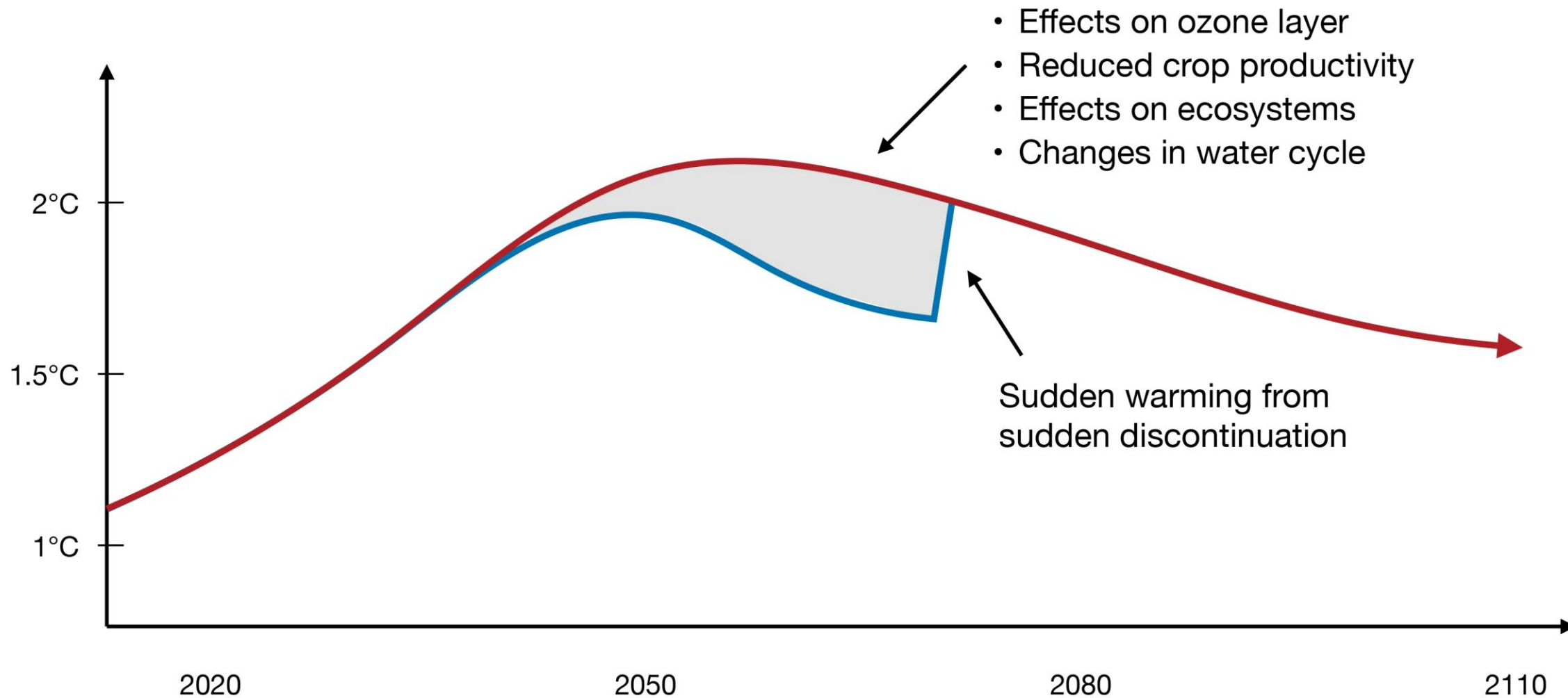
Peak-shaving use scenario



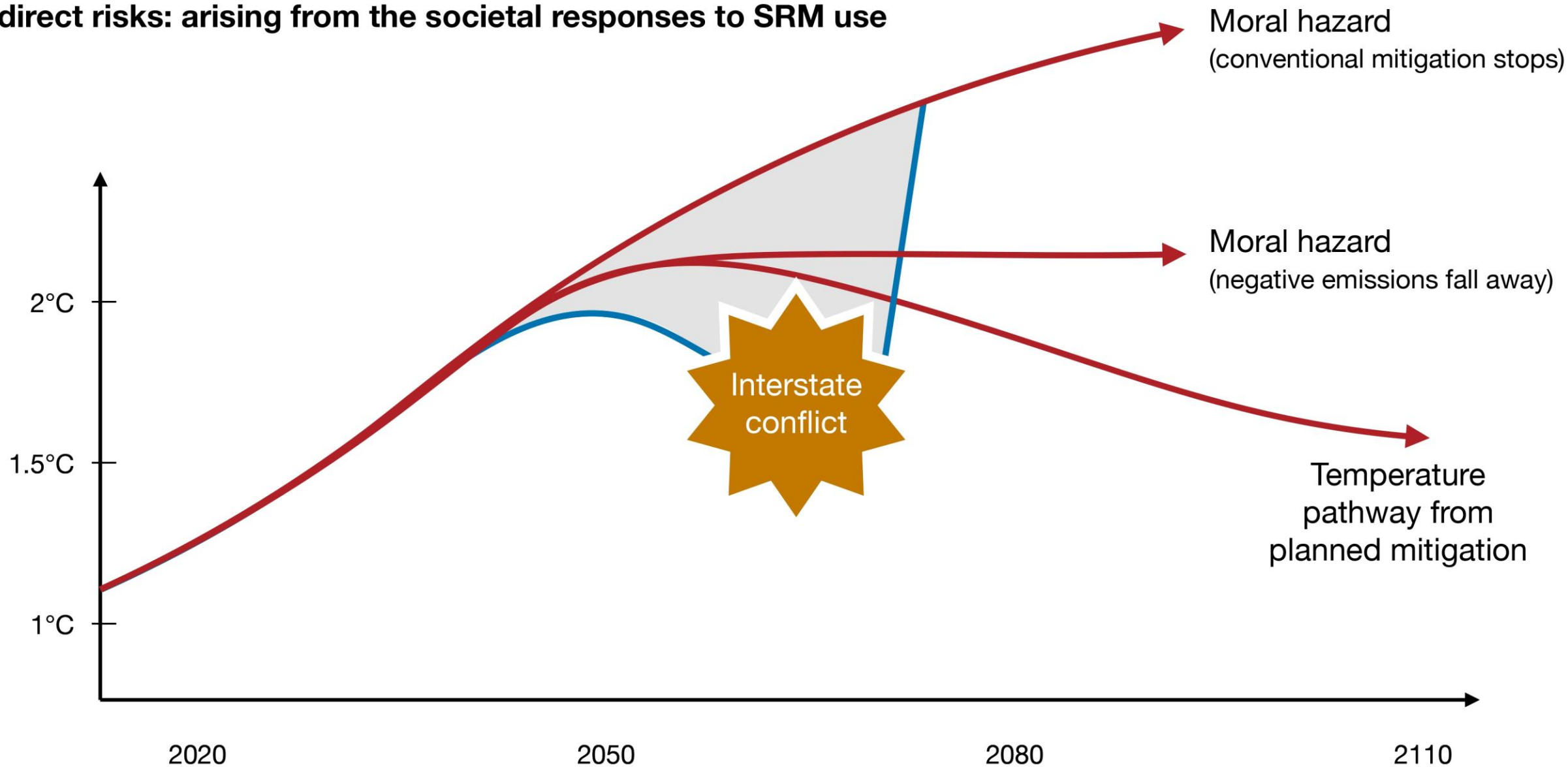
Direct risks: physical impacts associated with its use



Direct risks: physical impacts associated with its use



Indirect risks: arising from the societal responses to SRM use





Governance needs

- Global non-use agreement

Agreements covering:

- Research and testing
- Conditions of use
- Coordination and governance of use

Agreements covering:

- Research and testing
- Coordination and governance of use

Current political status

- Each of the three standpoints have support within NGO and scientific communities.
- No state has *formally* signalled support for any of the standpoints, although some have *implicitly* signalled support for the middle standpoint.
- Full disclosure: I have signed a statement, led by scientists, supporting the middle standpoint

Near-term objectives of global governance

1

**Guard against
potential
risks and
harms**

2

**Enable
appropriate
research and
development**

3

**Foster
transparency to
legitimise future
decisions**

4

**Ensure that SRM
is only one part
of a broader
policy portfolio**

**Guard against
potential
risks and
harms**

**Enable
appropriate
research and
development**

**Foster
transparency to
legitimise future
decisions**

**Ensure that SRM
is only one part
of a broader
policy portfolio**

- **Develop a transparency mechanism**

Scientific & technical information; project development and legal compliance; funding sources and use

- **Establish a global forum**

A venue for dialog between state, non-state, and multi-lateral organisations leading to potential agreements

- **Incorporate SRM into the Global Stocktake under Paris**

Provide guidance into fit between SRM and other Paris objectives and mechanisms

Concluding thoughts

- SRM is highly politicised, and its various dimensions overlap with sharp ideologically driven perspectives and principles.
- For scientists, there are strong perceived risks associated with saying anything about SRM governance, due to the likelihood of being seen as engaged in advocacy.
- It might be good to normalise discussions of SRM governance sooner rather than later.

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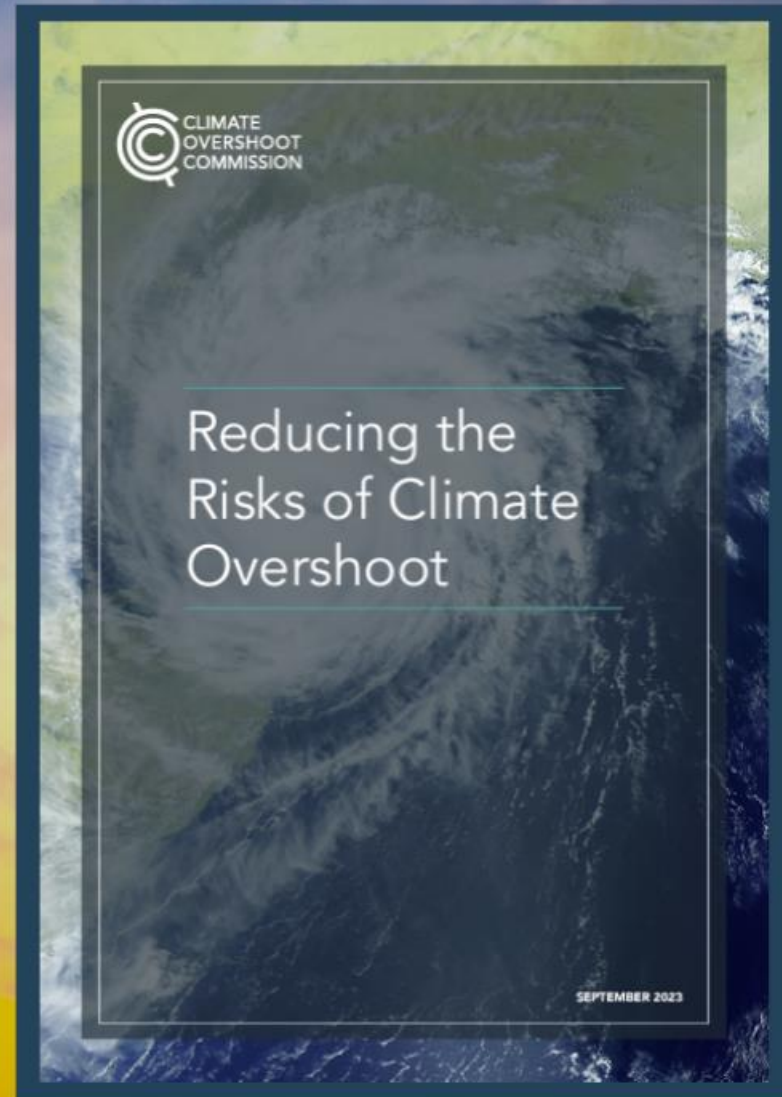


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Climate Overshoot Report Reducing the Risks of Climate Overshoot



overshootcommission.org/report



Perspectives on
Solar Radiation
Modification
Governance

Geneva
Environment
Network

Speaker -
Pascal Lamy,
Chair

Climate Overshoot
Commission



12th of October 2023
10 am CET -
12 pm CET

THE CLIMATE OVERSHOOT COMMISSION

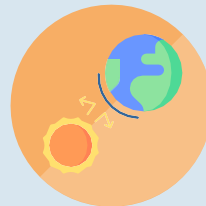


CLIMATE
OVERSHOOT
COMMISSION

 <p>PASCAL LAMY</p>	 <p>HINA RABBANI KHAR</p>	 <p>KIM CAMPBELL</p>	 <p>AGNES KALIBATA</p>
 <p>FRANCES BEINECKE</p>	 <p>ARANCHA GONZALEZ</p>	 <p>ANOTE TONG</p>	 <p>MAHAMADOU ISSOUFOU</p>
 <p>JAMSHYD GODREJ</p>	 <p>XUE LAN</p>	 <p>MUHAMAD CHATIB BASRI</p>	 <p>LAURENCE TUBIANA</p>

→ SRM

Solar radiation modification



First, countries should adopt a moratorium on the deployment of solar radiation modification (SRM) and large-scale outdoor experiments. The moratorium should apply to any intervention with risk of significant transboundary harm, regardless of where it occurs, who carries it out or is responsible for it, what form it takes, or for what purpose.

Second, governance of SRM research should be expanded.

Third, in parallel with strengthening SRM governance, SRM research should also be strengthened; and the two should co-evolve.

Fourth, an international, independent scientific review and assessment of the best available evidence from SRM research should take place every few years.

Fifth, because the potential use of SRM raises multiple concerns, including novel and severe governance challenges, broad consultations and dialogues on these issues are needed.

SOLAR RADIATION MODIFICATION METHODS

Space-based reflectors



Stratospheric aerosol injection



Cirrus cloud thinning

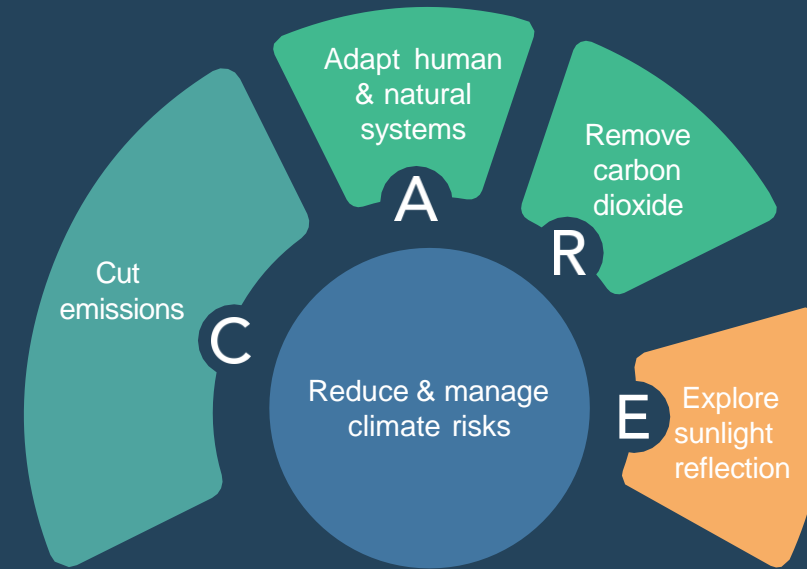


Marine cloud brightening



CARE AGENDA FOR POSSIBLE OVERSHOOT

Pursuing any single approach to reducing risks from overshoot—emissions reductions, adaptation, carbon removal, possibly SRM—may influence the effectiveness of other approaches. Both positive and negative spillovers must be identified and managed within a holistic framework. Overall, the recommendations made by the Commission can be conceptualized as constituting integrated components of a “**CARE Agenda**” for reducing risks from climate overshoot.



C

Cut emissions

Accelerate emissions reductions and consolidate decarbonization.

A

Adapt

Expand adaptation and fully mainstream into development.

R

Remove

Develop and deploy higher-quality carbon dioxide removal to help achieve net-zero emissions targets and beyond.

E

Explore

Adopt a moratorium on large-scale solar radiation modification and expand research and governance dialogue.



Contact:

info@overshootcommission.org



Visit our Website to read our report -

[Overshootcommission.org/report](https://overshootcommission.org/report)



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Perspectives on Solar Radiation Modification Governance

12 OCT 2023 | 10:00-12:00 CEST

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Q&A

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Cheikh Ndiaye SYLLA

Director of Ministerial Cabinet for
Environment and Sustainable Development,
Senegall



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African Perspectives
on Solar Radiation Management

Cheikh Ndiaye SYLLA

12 oct

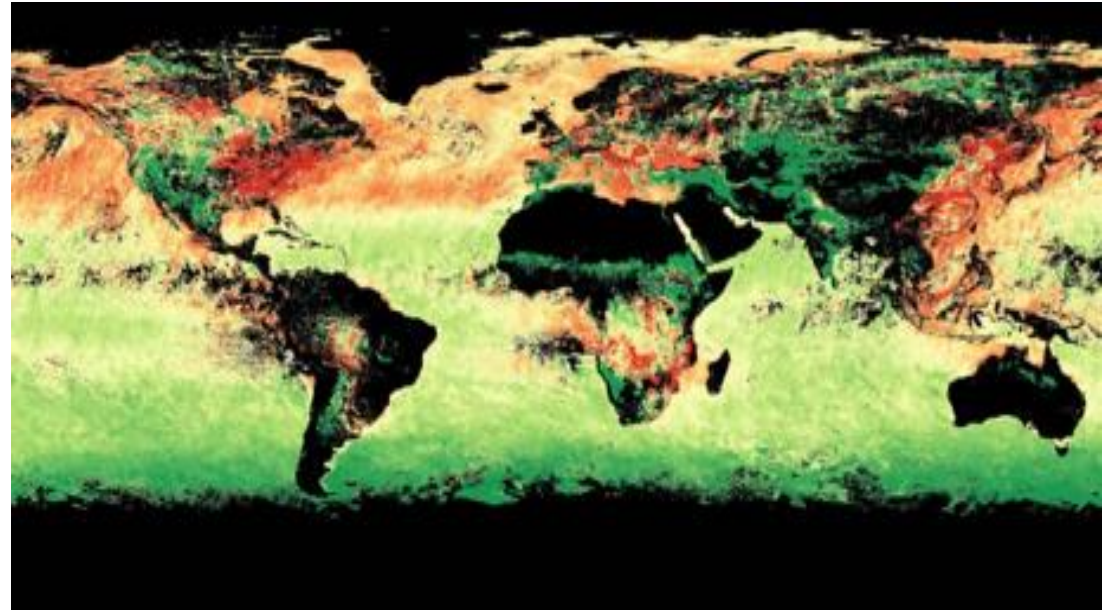
Genève

STEPS 1

STUDY ON GEOENGINEERING AND AFRICAN PERSPECTIVES:

**PROBLEMS, VULNERABILITIES, ELEMENTS FOR POSITIONING AND
REFINING AFRICA ON GEOENGINEERING AND ITS GOVERNANCE**

SRM ISSUES FOR AFRICA



STEPS 2

**STUDY AFRICAN CLIMATE CHANGE GROUP
WORKSHOP ON GEOENGINEERING,
NAIROBI, KENYA,
13 and 14 January 2022**

SUMMARY OF KEY MESSAGES AND HIGHLIGHTS

AFRICAN CLIMATE CHANGE GROUP WORKSHOP ON GEOENGINEERING, NAIROBI,
KENYA, 13 and 14 January 2022
SUMMARY OF KEY MESSAGES AND HIGHLIGHTS

Hybrid format in Nairobi on the 13-14 January 2022, to begin creating awareness on the risks, impacts, opportunities, and other implications for Africa.

In the discussion participants highlighted that, Africa is deeply concerned that :

- . Current levels of global ambition of commitments to address the global climate change crisis
- . This will result in severe impacts on the continent already extremely vulnerable
- . That the potential impacts of SRM technologies will add a further burden on a continent

- Further, Africa is also extremely concerned on the focus of financing experimentation :
 - Actual and real reductions in global GHG emissions at source; and
 - Building of resilience and adaptative capacity, particularly in developing countries.
- Additionally, Africa is concerned that a focus on negotiating a governance system for these emerging SRM technologies will take time, and potentially further divert political will and resources away from obligations to implement and finance proven policies, technologies, and measures under the UNFCCC framework.

- In the light of these concerns, and high degrees of uncertainty around these technologies, Africa should not support their application at this stage
- but should rather support the development of an authoritative scientific synthesis and review of the state of knowledge of these technologies
- This scientific assessment should be conducted by a mandated body such as the IPCC

- Africa is further concerned, that the SRM technologies:
 - In terms of the current state of knowledge, will have potentially severe transboundary impacts and implications across multiple sectors and areas of legal jurisdiction.
 - Given the global and transboundary nature, it is important to be considered by relevant mandated bodies within the UN system involving, AMCEN at scientific, technical, political, and legal levels.

- While recognising the importance of international controls to prevent unilateral advancement of SRM technologies, Africa is not yet ready to support any engagement on possible broader international governance matters related to these technologies given the above-mentioned:
 - Limited levels of understanding; and
 - Considering that existing bodies within the UN system have the mandate to address any immediate geo-engineering concerns that may arise.
- The African Group of Negotiation on Climate, will develop further consideration and report to AMCEN, for decision making

STEPS

3

- SRM - aims to increase albedo - e.g. injecting aerosols (SO_x, or engineered nanoparticles into the stratosphere...); covering deserts with plastic; painting mountains; space shields...
 - What stage : conceptual, proposal and preliminary laboratory research, in implementation ?
- Combined with mainstream mitigation and adaptation measures CATM has potential to significantly ameliorate CC impacts
- Distinguish from CDR – may require different treatment
- No report yet from the AGN
- Need an African view : when ?

THANK YOU



Stakeholders Perspectives

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Marie-Valentine FLORIN

Secretary General, International Risk
Governance Council (IRGC) Foundation

EPFL



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Lili FUHR

Director, Fossil Economy Program, Center for International Environmental Law



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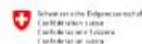
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THANK YOU FOR JOINING!



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Secretary General, International Risk Governance Council (IRGC) Foundation



Andrea HINWOOD



Chief Scientist, UN Environment Programme



Anthony PATT



Lead, Climate Policy Lab, ETH Zürich | Coordinating Lead Author, International Cooperation Chapter, WGIII AR6, IPCC



Cheikh Ndiaye SYLLA



Director of Ministerial Cabinet for Environment and Sustainable Development, Senegal



Lili FUHR



Director, Fossil Economy Program, Center for International Environmental Law

GENEVA BEAT PLASTIC POLLUTION DIALOGUES



Briefing on the 3rd Session of the Intergovernmental Negotiating Committee to Develop an International Legally Binding Instrument on Plastic Pollution (Plastic Pollution INC-3)

12 OCT 2023 | 14:00 - 15:30 CEST | IEH II & ONLINE >>> tiny.cc/GEN12Oct23INC3

WHAT'S NEXT?

genevaenvironmentnetwork.org



BRIEFING

CONFERENCE
Briefing on the 77th meeting of the CITES Standing Committee
17 OCT 2023 10:00 - 12:00
International Environment House II
CITES, GEN

☉ Nature | Trade and Environment
☉ SDG14 | SDG15

VIRTUAL
Procedures for Addressing Conflicts of Interest: Lessons Learned from Existing Science-Policy Interfaces | Road to OEWG 2 Series
18 OCT 2023 14:00 - 15:30
Online | Webex
OEWG SPP CWP, GEN

☉ Chemicals and Pollution
☉ SDG3 | SDG12

CONSULTATION
Basic Guide on an Integrated Approach to Human Rights and Environmental Due Diligence (HREDD) | Geneva Consultation
19 OCT 2023 14:00 - 16:00
International Environment House II & Online | Webex
UNDP, GEN

☉ Human Rights and Environment

CINEMA
Minamata Film Screening | Minamata COP-5 Special Event
29 OCT 2023 18:30 - 21:30
CICG | Room A
Minamata Convention on Mercury, GEN

☉ Chemicals and Pollution
☉ SDG3 | SDG12



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Bundesamt für Umwelt BAFU
Office fédéral de l'environnement OFEV
Ufficio federale dell'ambiente UFAM
Uffizi federal d'ambient UFAM
Federal Office for the Environment FOEN



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