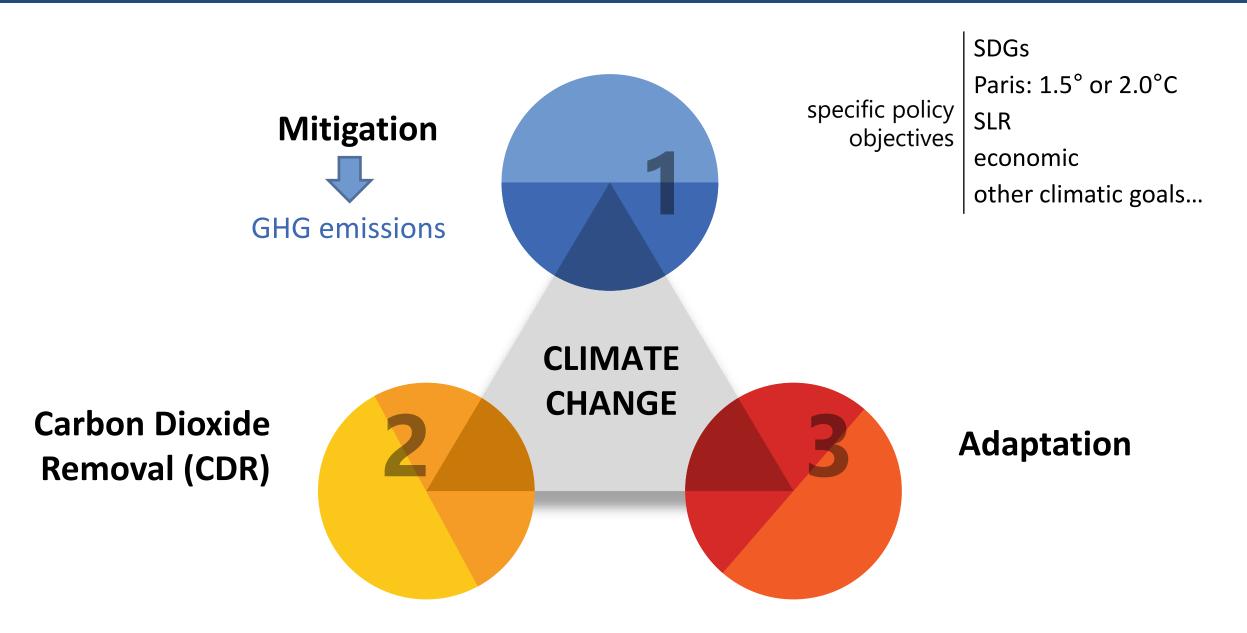


Using a Risk-Risk analysis to support informed decision-making

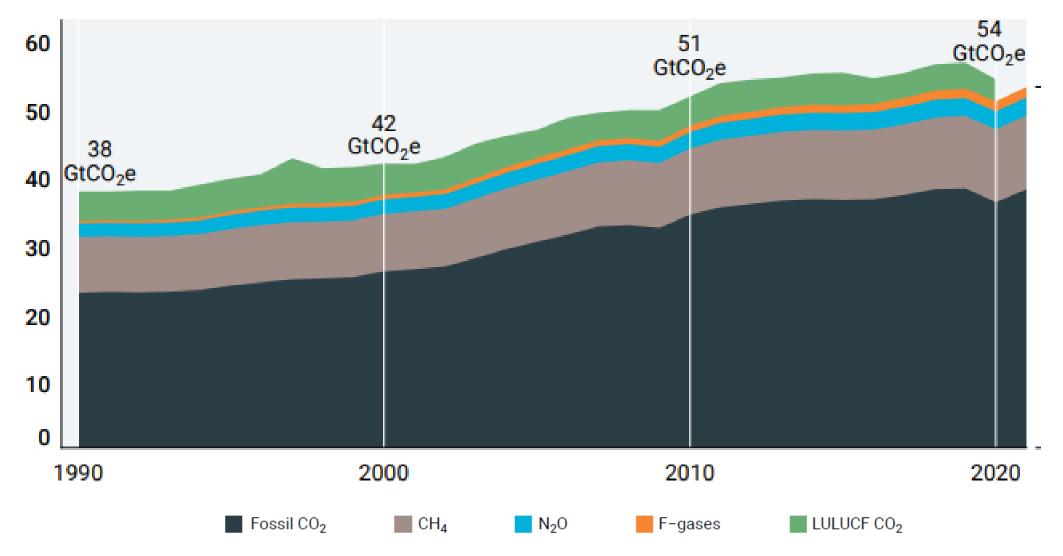
Inés Camilloni University of Buenos Aires - Argentina

> HLPF Side Event – ECLAC C2G Risk-risk analysis and governance of solar radiation modification to safeguard sustainable development 11 July 2023

Existing risk management strategies

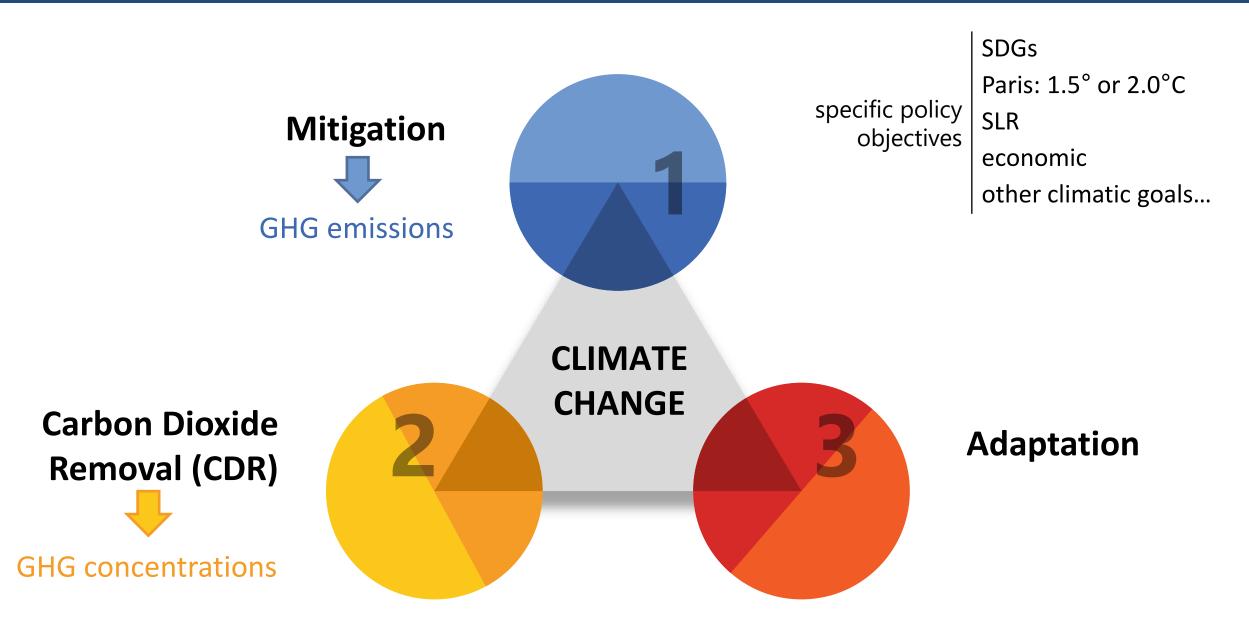


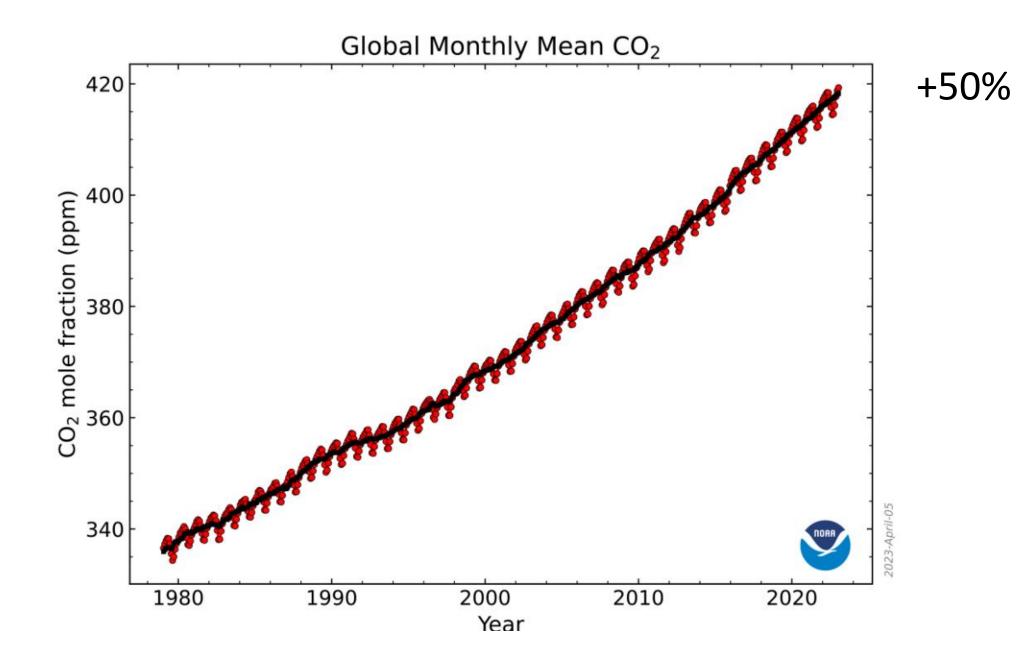
Total GHG emissions 1990–2021 (GtCO₂e/year)



UNEP (2022)

Existing risk management strategies

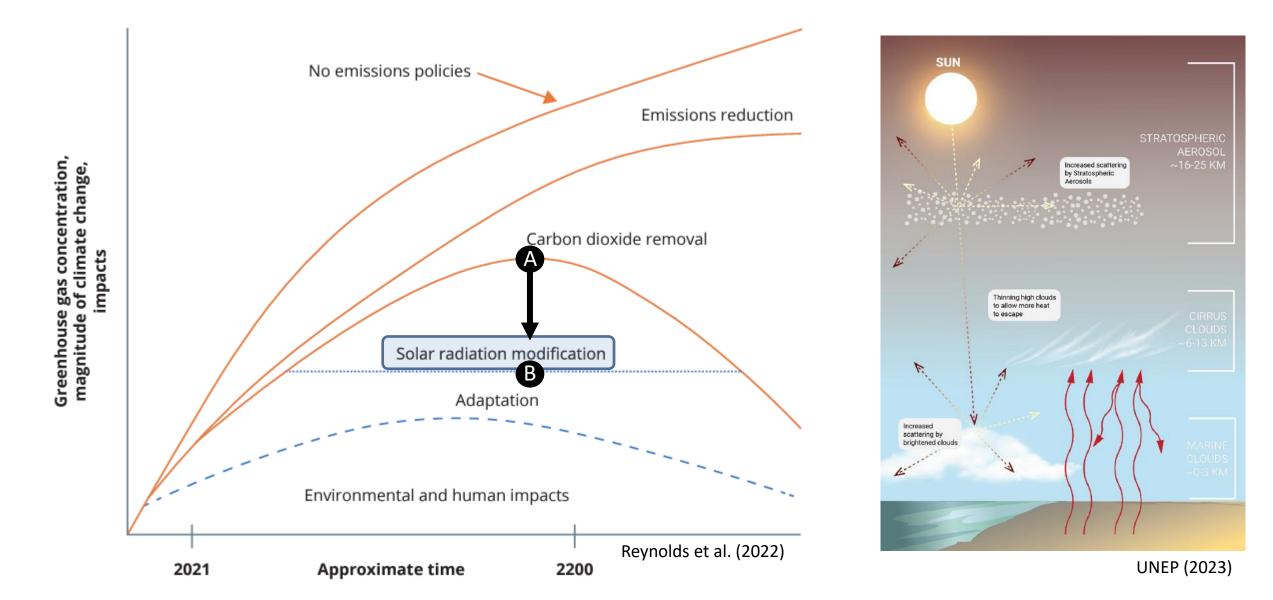




Existing risk management strategies



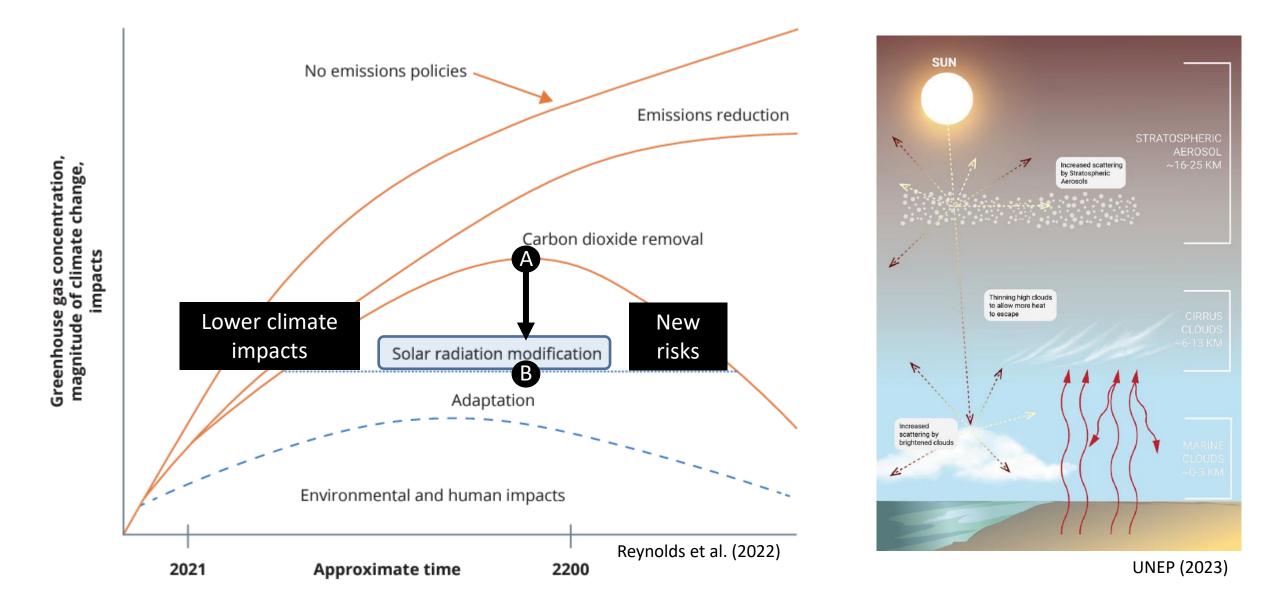
The peak-shaving diagram



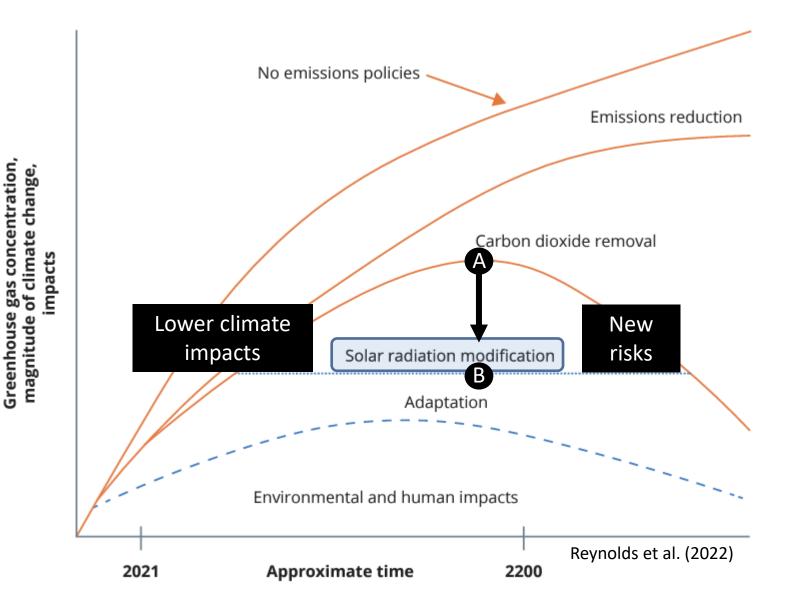


"SRM is the only option that could cool the planet within years. To be effective at limiting global warming, SRM would need to be maintained for several decades to centuries, depending on the pace of emissions reductions and carbon removal. "

The peak-shaving diagram



The peak-shaving diagram



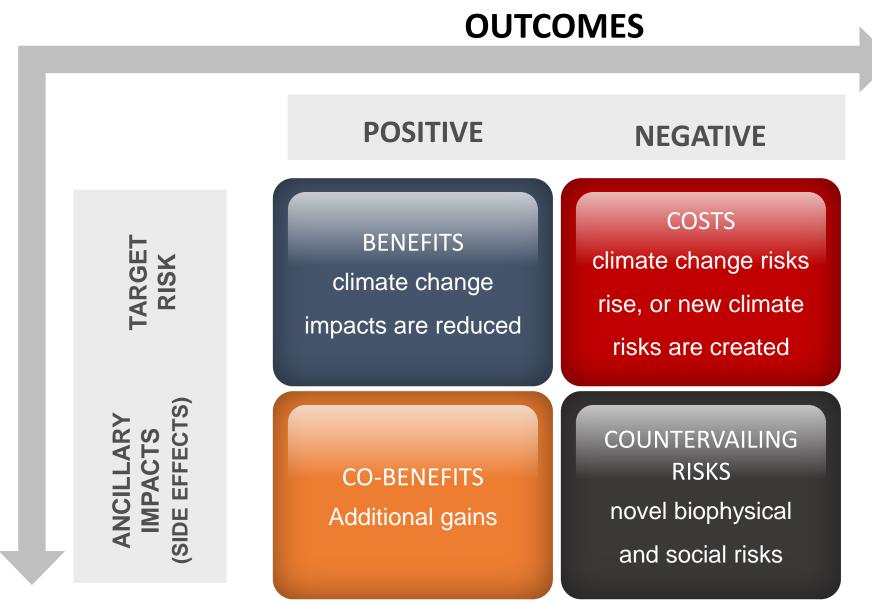
Given the urgent, growing risks of climate change, it is important to understand the feasibility, risks, and benefits of all possible response options

Would SRM increase or decrease overall risk?

A key consideration in deciding whether to pursue SRM to offset global warming should be a comparison of the extent of climate risk that the technology is able to reduce against the severity of any countervailing risks that it may engender

The risk-risk framework aims to compare a world with SRM and a world without SRM in addressing climate change

Deploying SRM as a response to climate change



RISKS

SRM deployment would not occur in isolation, so its benefits and risks would depend on:

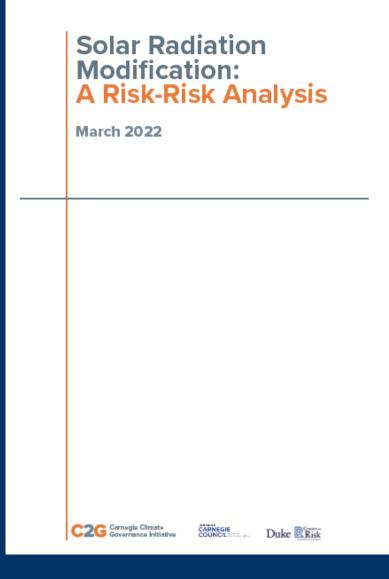
- the particular goals of the SRM deployment
- the background emissions pathway and adaptation plans being followed
- the sustainable development goals pursued
- the governance framework



level of residual climate risk that might be addressed by SRM

minimize climate risks, maximize additional gains, and limit its own added climate and countervailing risks

The report Solar Radiation Modification: A Risk-Risk Analysis along with Summary versions in English, French, Spanish and Chinese may be downloaded from the C2G website: https://www.c2g2.net/



Felgenhauer, T., Bala, G., Borsuk, M., Brune, M., Camilloni, I., Wiener, J.B., Xu, J. (2022). Solar Radiation Modification: A Risk-Risk Analysis, Carnegie Climate Governance Initiative (C2G), March, New York, NY