Why do we need to **govern** emerging **marine** climate-altering techniques?

The IPCC says traditional mitigation techniques aren't enough to keep global warming below 1.5°C, and that the world must also remove vast amounts of CO2 from the air.



Some scientists say additional new techniques may be needed to reflect more sunlight back into space to cool the planet.

Emerging ideas include ocean fertilisation, injecting CO₂ into the deep sea or seabed, brightening clouds, increasing reflectivity, or changing the ocean's alkalinity.



None of these techniques are ready at scale.

And all could pose significant technological and governance challenges.



Initial field experiments have recently occurred and potential deployment of new marine techniques could be just around the corner.

Policymakers need to consider their governance today.

How and in what processes would society govern the research, testing and deployment of marine climate techniques?

What new national and international safeguards might be needed?

How could society monitor and assess their impact on the Sustainable Development Goals?





