

Solar Radiation Modification research: views from the Global South

Inés Camilloni

University of Buenos Aires- CONICET
Buenos Aires, Argentina

SRM (SAI) 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

An operational SRM deployment would introduce **new risks to people and ecosystems**. Novel risks are poorly understood.

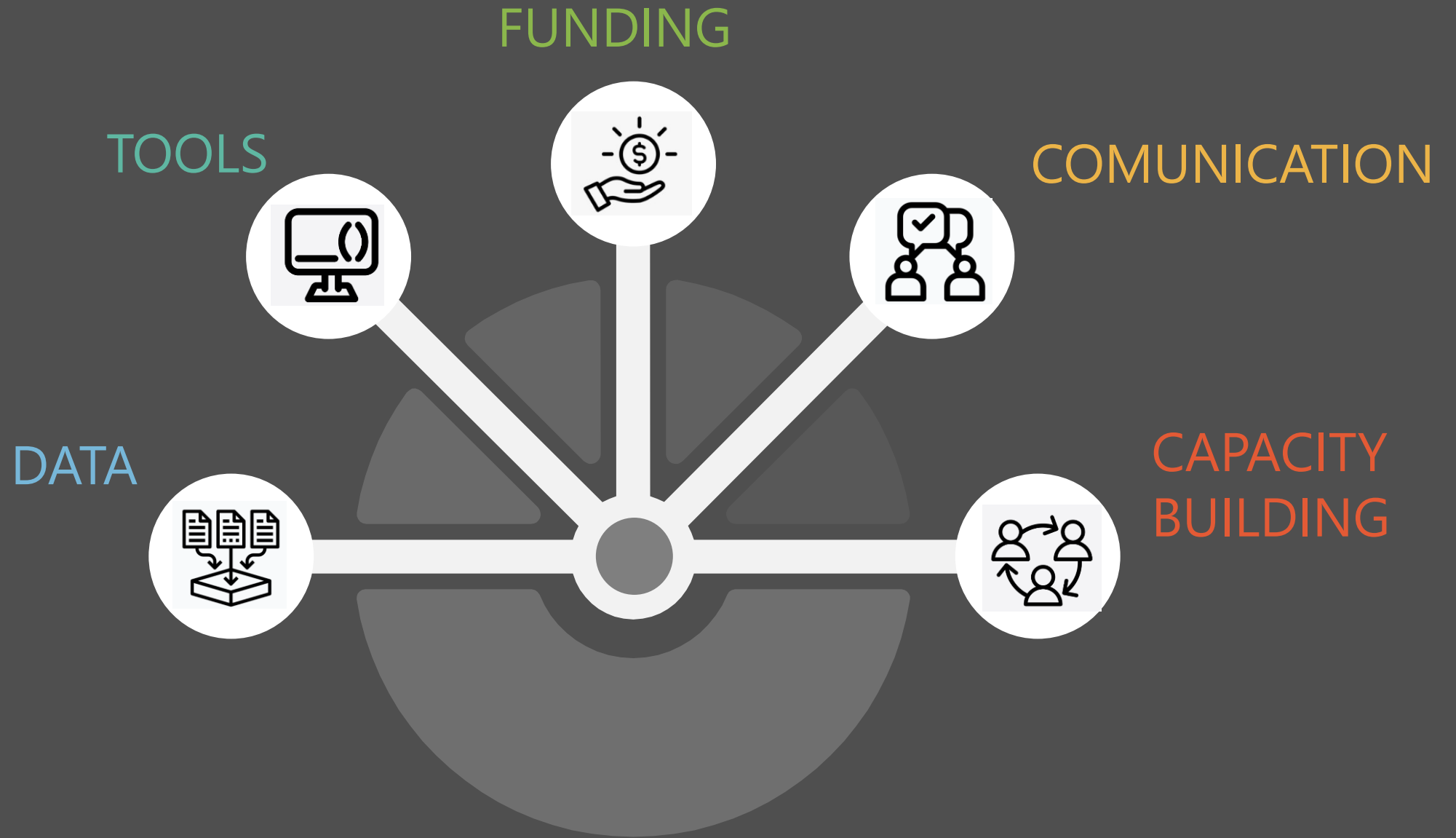
Considering the global nature of SRM effects and the potentially uneven distribution of impacts,

How would SRM impact the Global South?

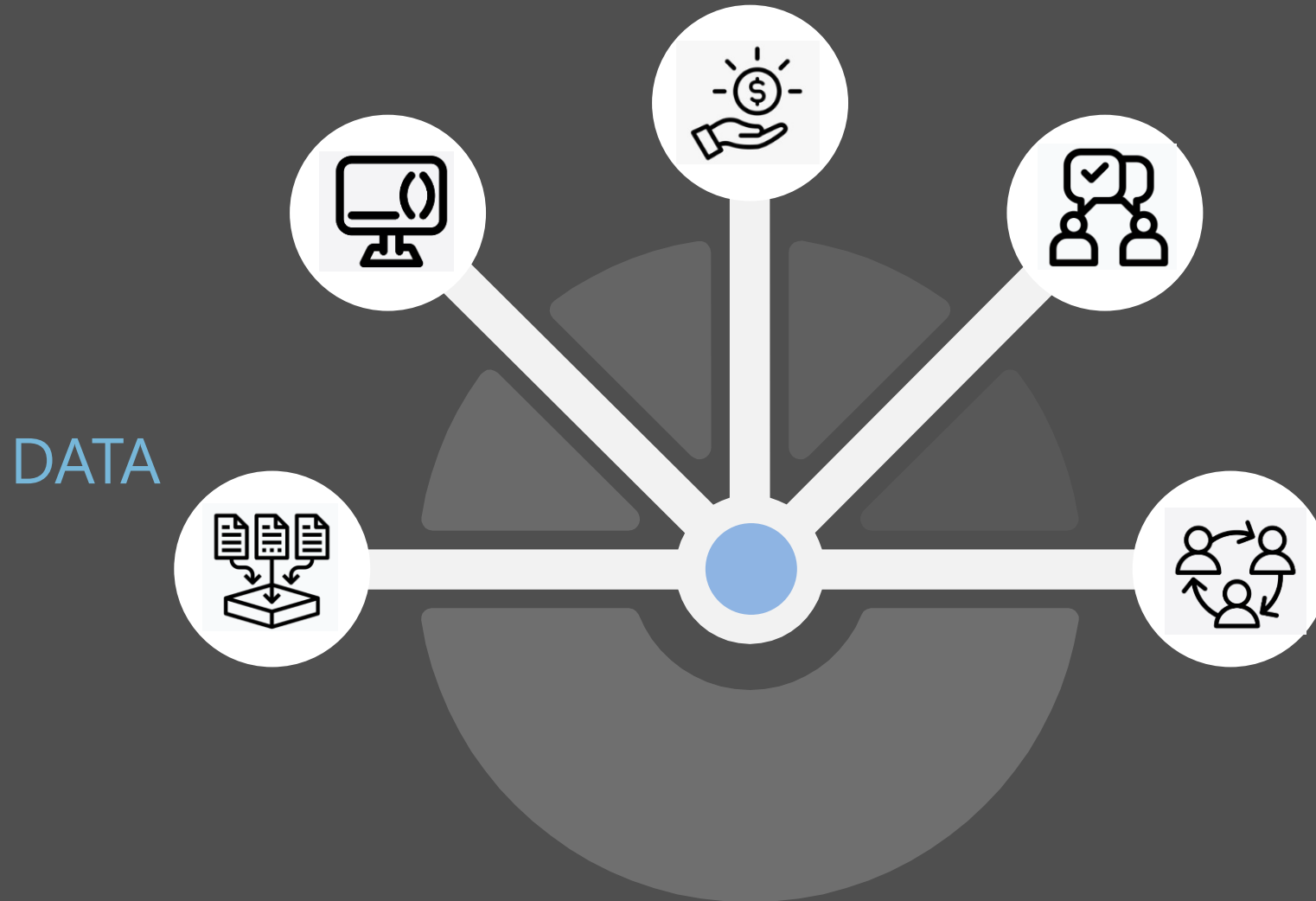
Which are the potential benefits?

Which risks would be avoided, reduced or exacerbated under a SRM scenario?

How the participation of researchers from the Global South to produce responsible and transparent SRM research can be strengthened?



- Data access and storage
- Lack of/insufficient observations



- Cloud services for modelling, processing and analysis
- Centered downscaling and bias correction of simulations for impact studies



- Strengthen existing research groups
- Overcome technological limitations to address knowledge gaps

FUNDING





The Degrees Modelling Fund (DMF) is an international SRM modelling fund and the first aimed exclusively at scientists in developing countries. Since 2018, the DMF has supported over **150 researchers** working across **26 projects** hosted in **21 developing countries**. It has awarded over \$1,800,000 in research grants.



Latin America & the Caribbean

Argentina 2018:

La Plata Basin's hydroclimate in South America

Jamaica 2018:

Caribbean agriculture under SRM

Brazil 2022:

Southern hemisphere cyclones

climatology's response

Chile 2022:

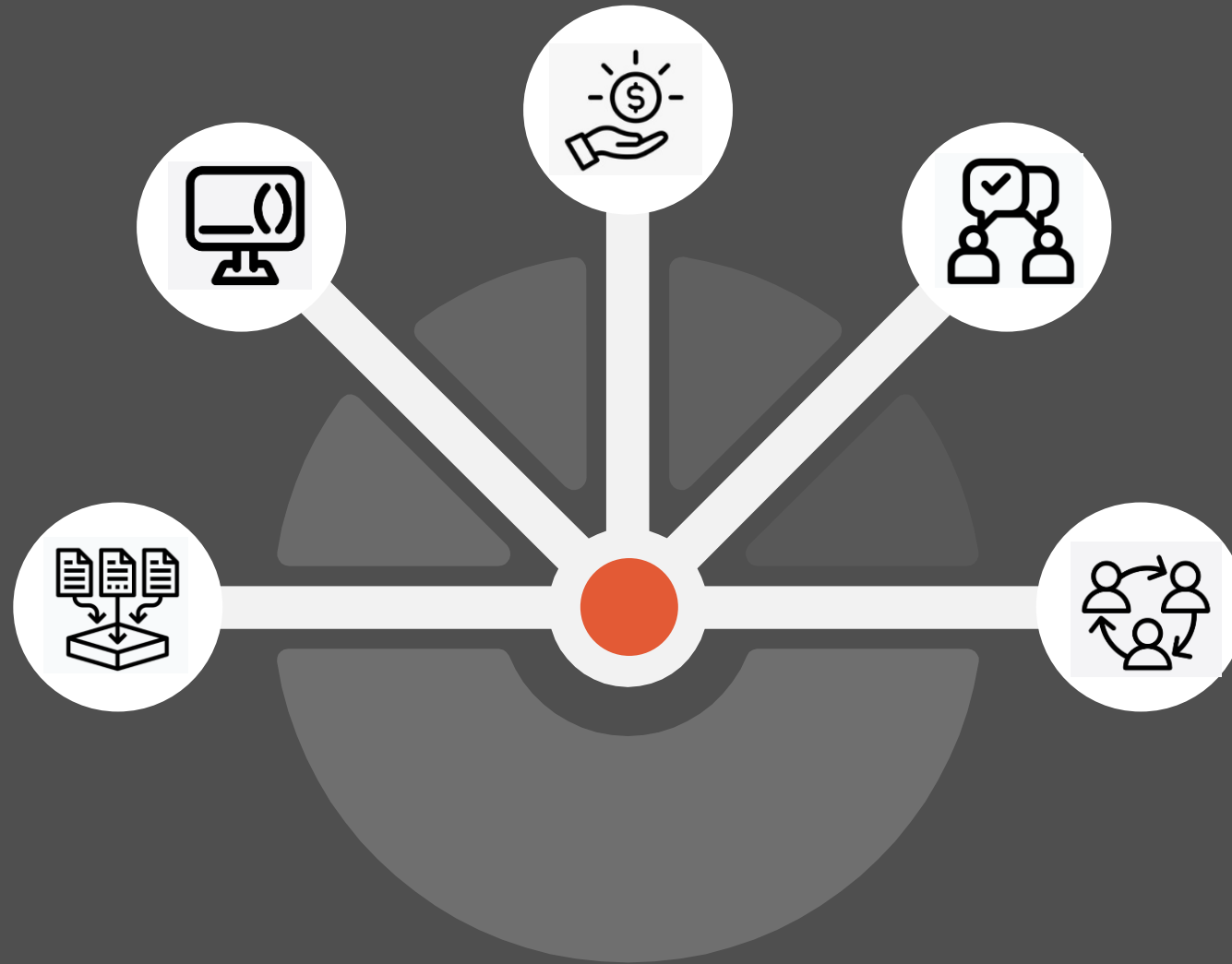
Andean glacier-climatic interactions under SRM

- Disseminate findings
- Ensure policy impact



COMUNICATION

- Networking, north-south and south-south cooperation
- Training programs



CAPACITY
BUILDING

Different SRM (SAI) strategies and goals

Effective
Over-effective
Counter-effective



Regional differences matter

We need an impact studies project to coordinate regional assessments of SRM potential benefits and risks across sectors (i.e. biodiversity, agriculture, hydrology, human health)