

Earth

Observations

Data Access & Sharing

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Climate Data Gap



<https://ndacc.larc.nasa.gov>

We need
Observations
in different
Climate Zones



Atacama



The Andes



Patagonia



Antarctica



Chile's geography (from Atacama to Antarctica) makes it a natural laboratory for Earth Observations.

Quality-Controlled Open Access Data



GODDARD SPACE FLIGHT CENTER

AERONET
AEROSOL ROBOTIC NETWORK



National Aeronautics and
Space Administration
Goddard Space
Flight Center

MPLNET The NASA Micro-Pulse Lidar Network

EUBREW NET



cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

SKYNET DataCenter



WRMC-BSRN

World Radiation Monitoring Center - Baseline Surface Radiation Network

Data must be

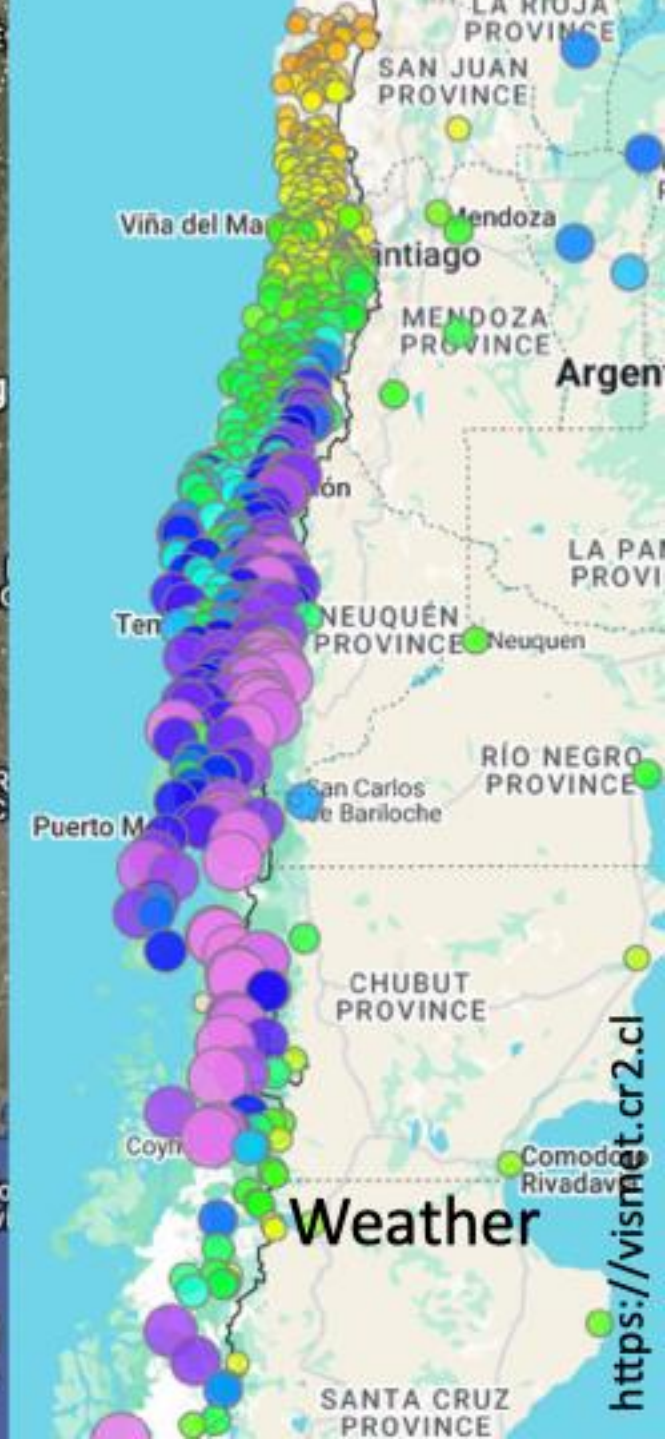
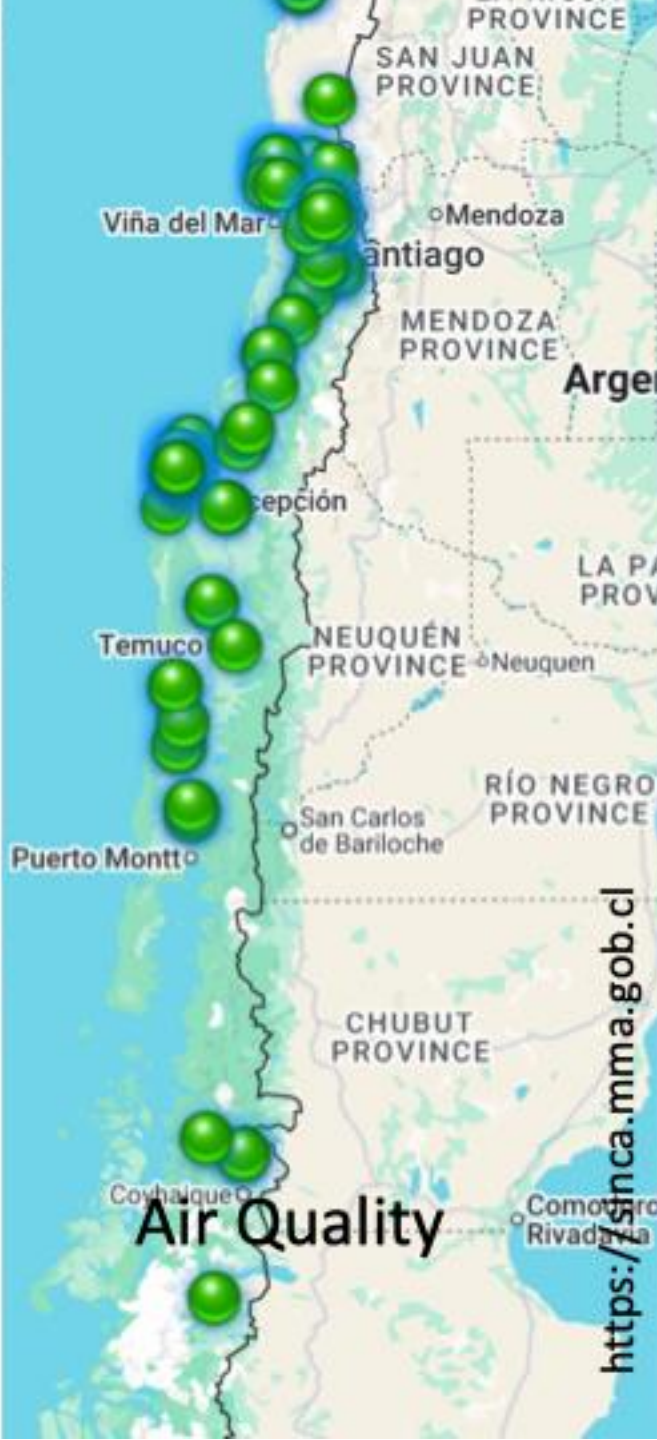
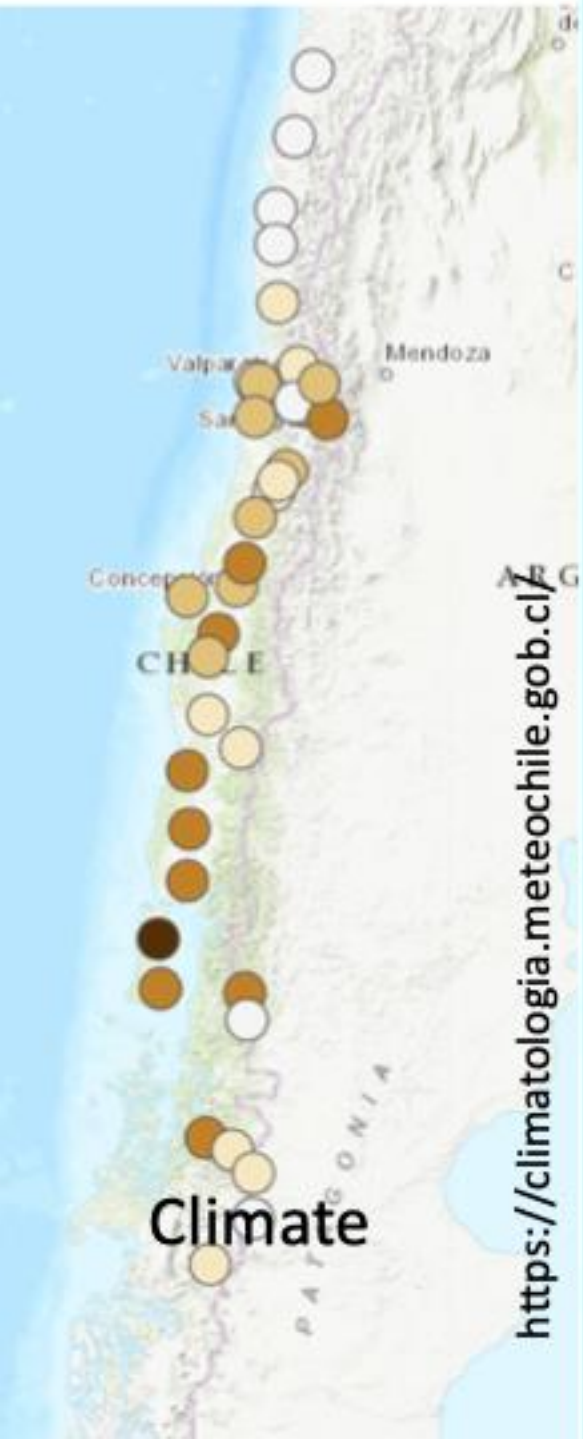
Accessible

(open access fuels innovation, from academic research to citizen science)

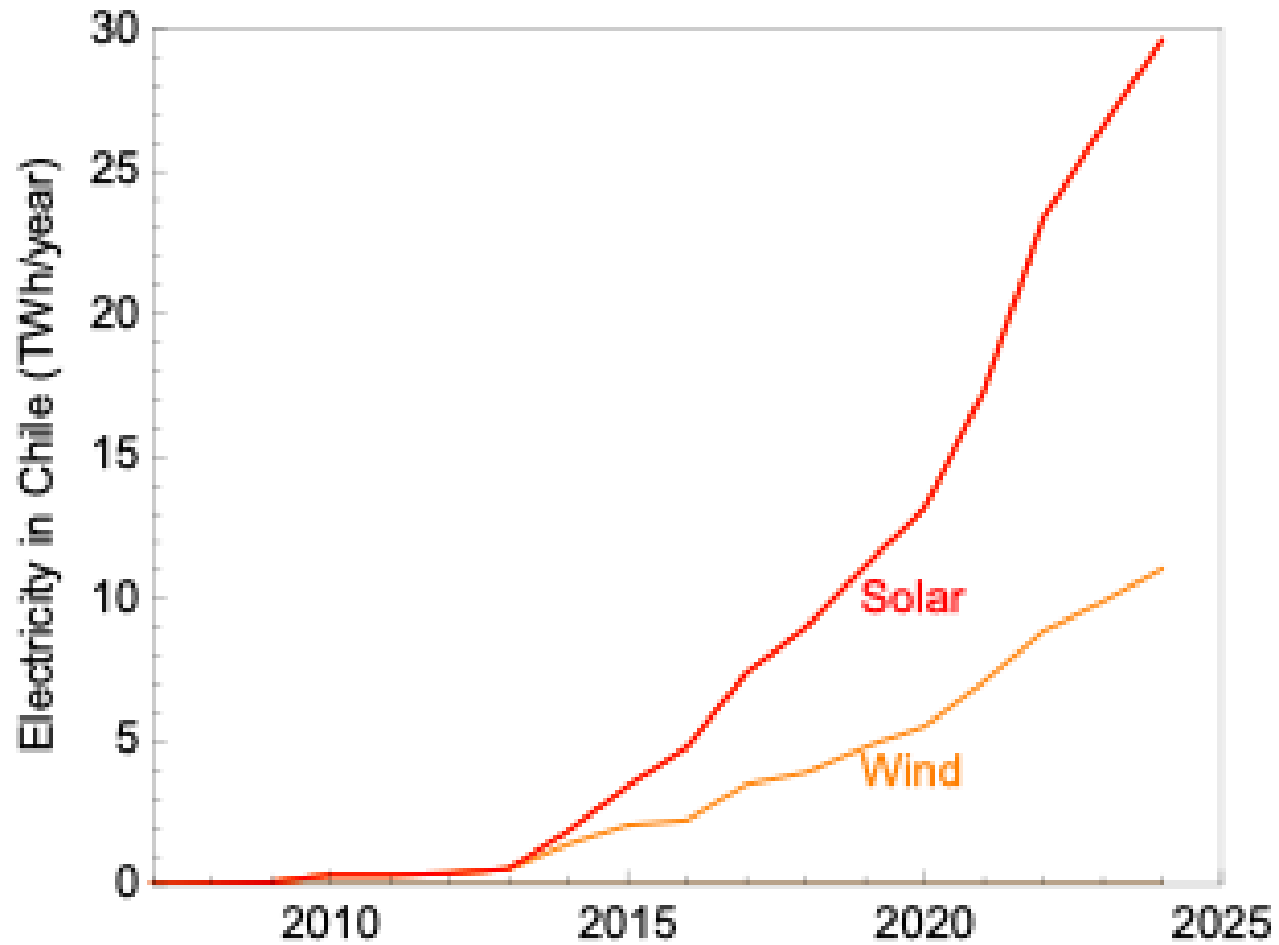
Data must be

Actionable

Data must support real-world decisions



Climate Mitigation

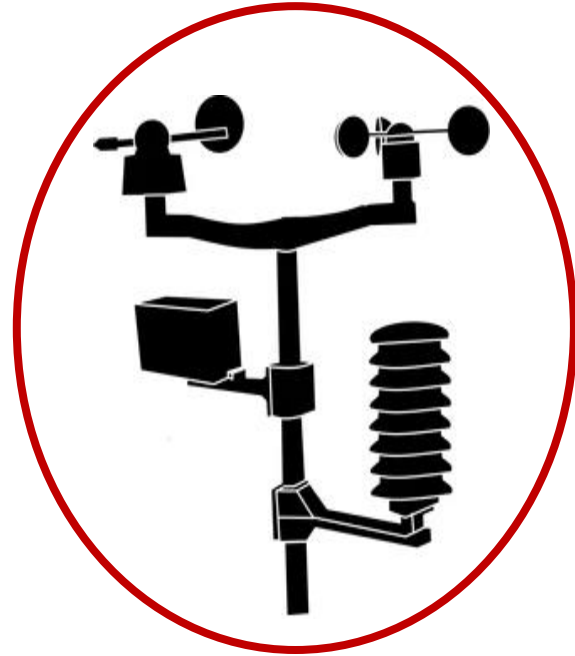


Climate Adaptation

Early Warning Systems (EWS)



Hazard Risk
Assessment



Climate Data
& Services



Warning
Communication



Preparedness
& Response

Climate Adaptation



Warning
Communication

Heat
Waves

Fires

Floods

Swells

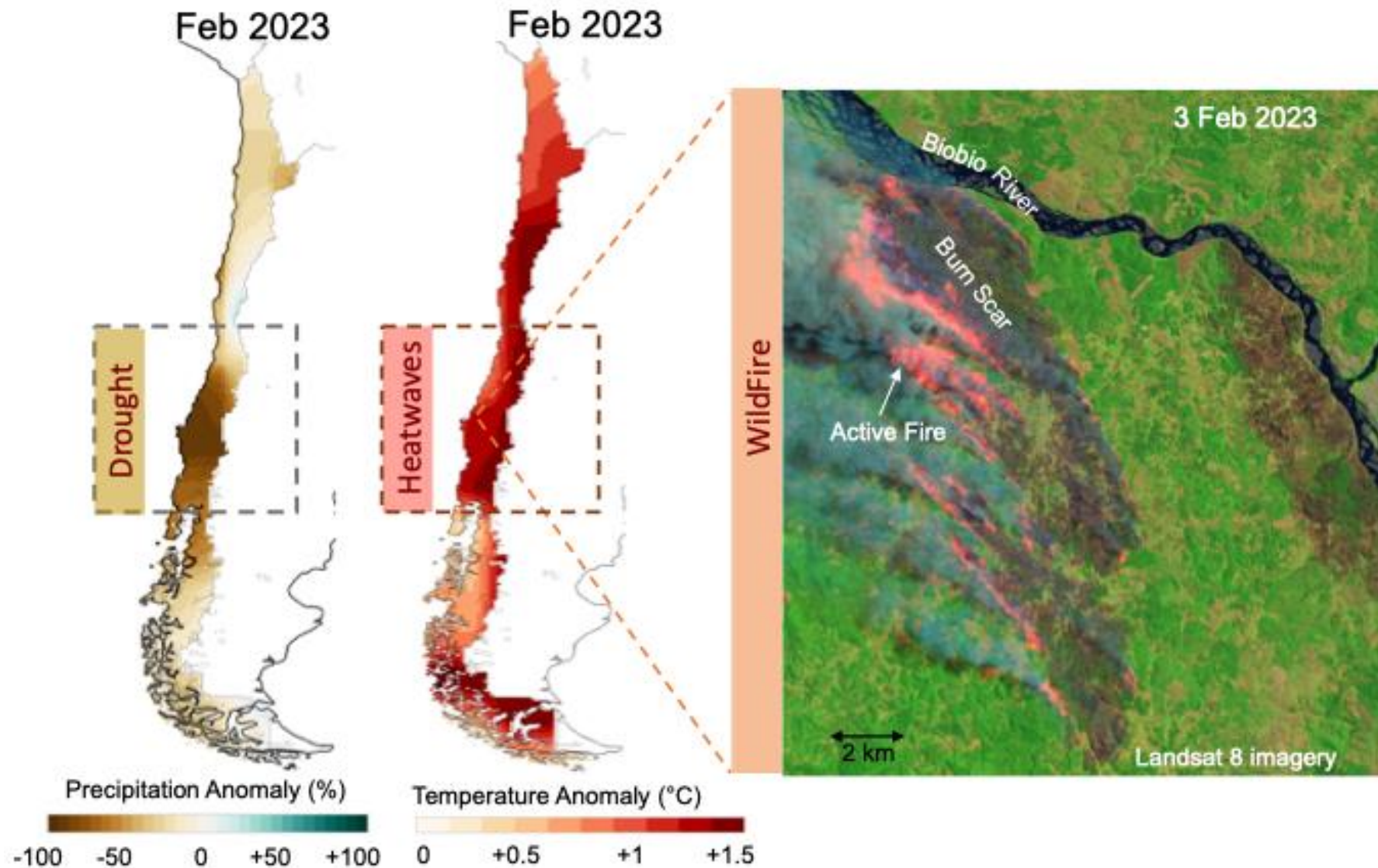
Extreme
Precipitations

Tornados

Extreme
Pollution

Climate Hazards

Climate Adaptation



Path Forward

Regional data-sharing alliances

Integration of local knowledge

Investment in human capacity

Programs rather than instruments

AI and machine learning



Data are a

Public Good

(Quality-controlled, Open, Accessible, Actionable)