



CLIMATE CHANGE

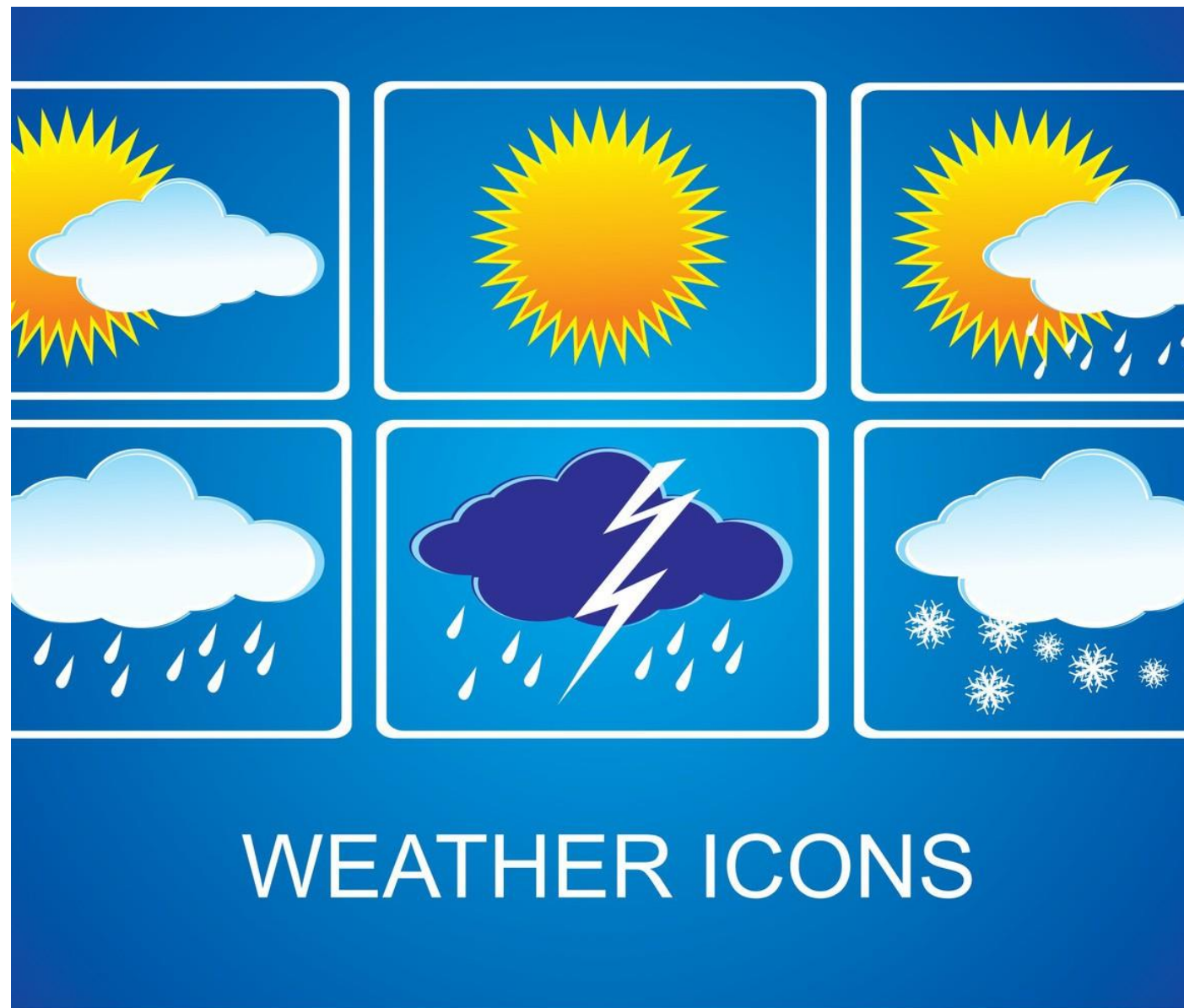
There is no Planet B!



Presented by Dr Apeksha Wasudeo

DIFFERENCE BETWEEN WEATHER AND CLIMATE CHANGE?

WEATHER?



Weather is the state of the atmosphere at a particular place and time as regards Heat, Cloudiness, Dryness, Sunshine, Wind, Rain etc

CLIMATE CHANGE?



Climate change
refers to long-term
shifts in
temperatures and
weather patterns



Climate
Change



Climate change is affected by:

Abiotic Factors

Latitude

Altitude

Ocean Currents

Topography

Solar Radiation

Evaporation

Orbital Variations

Volcanic activity

Biotic Factors

Transpiration

Respiration

Photosynthesis

Decomposition

Digestion

WHO CREATES GREEN HOUSE GASES?



The Greenhouse Content of the atmosphere is altered by Human activity. The result of this change is Global Warming

CAUSES OF CLIMATE CHANGE



GENERATING
POWER



MANUFACTURING
GOODS



CUTTING
DOWN TREES



USING
TRANSPORTATION



PRODUCING FOOD



OIL AND GAS DEVELOPMENT



POWERING BUILDINGS



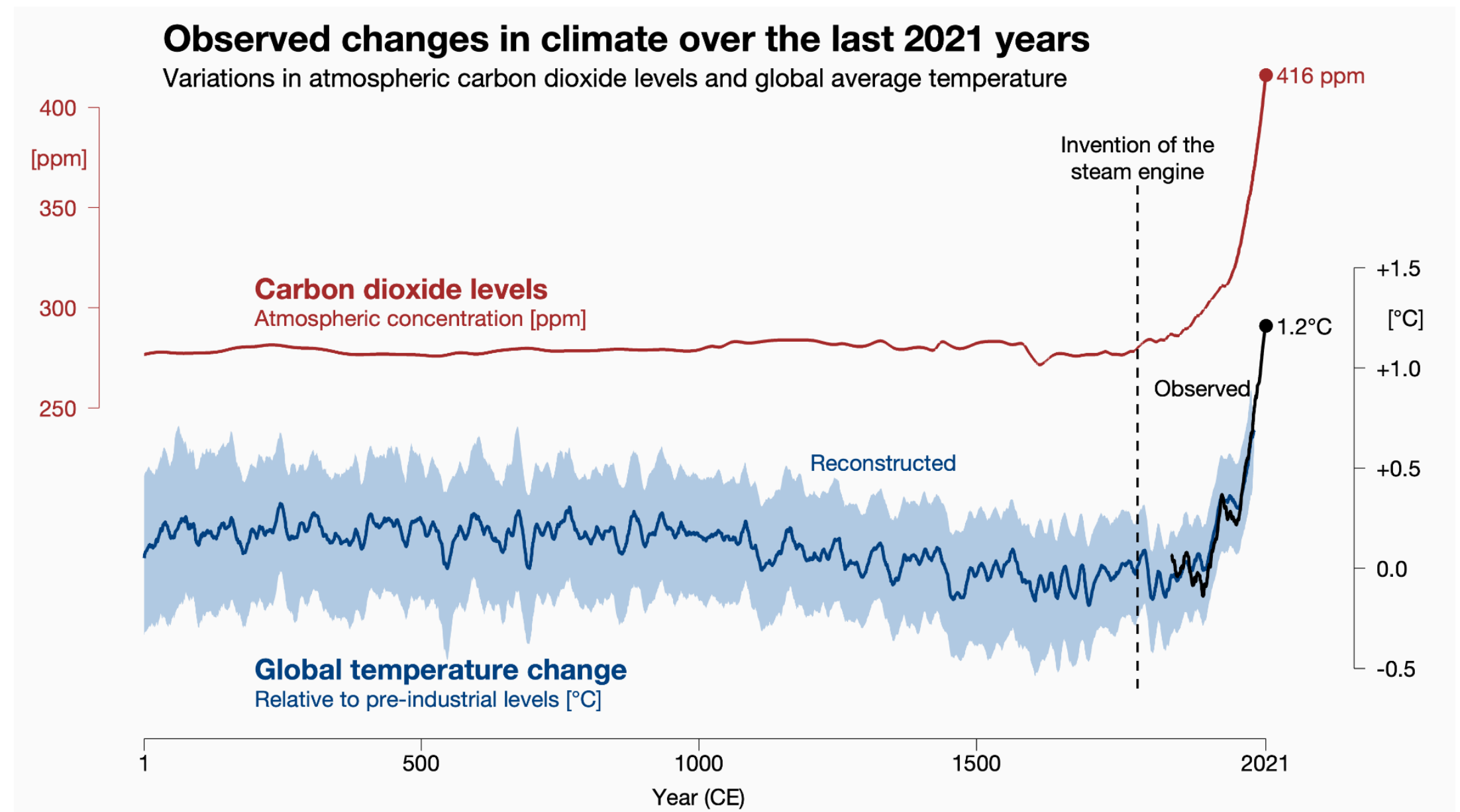
CONSUMING TOO MUCH



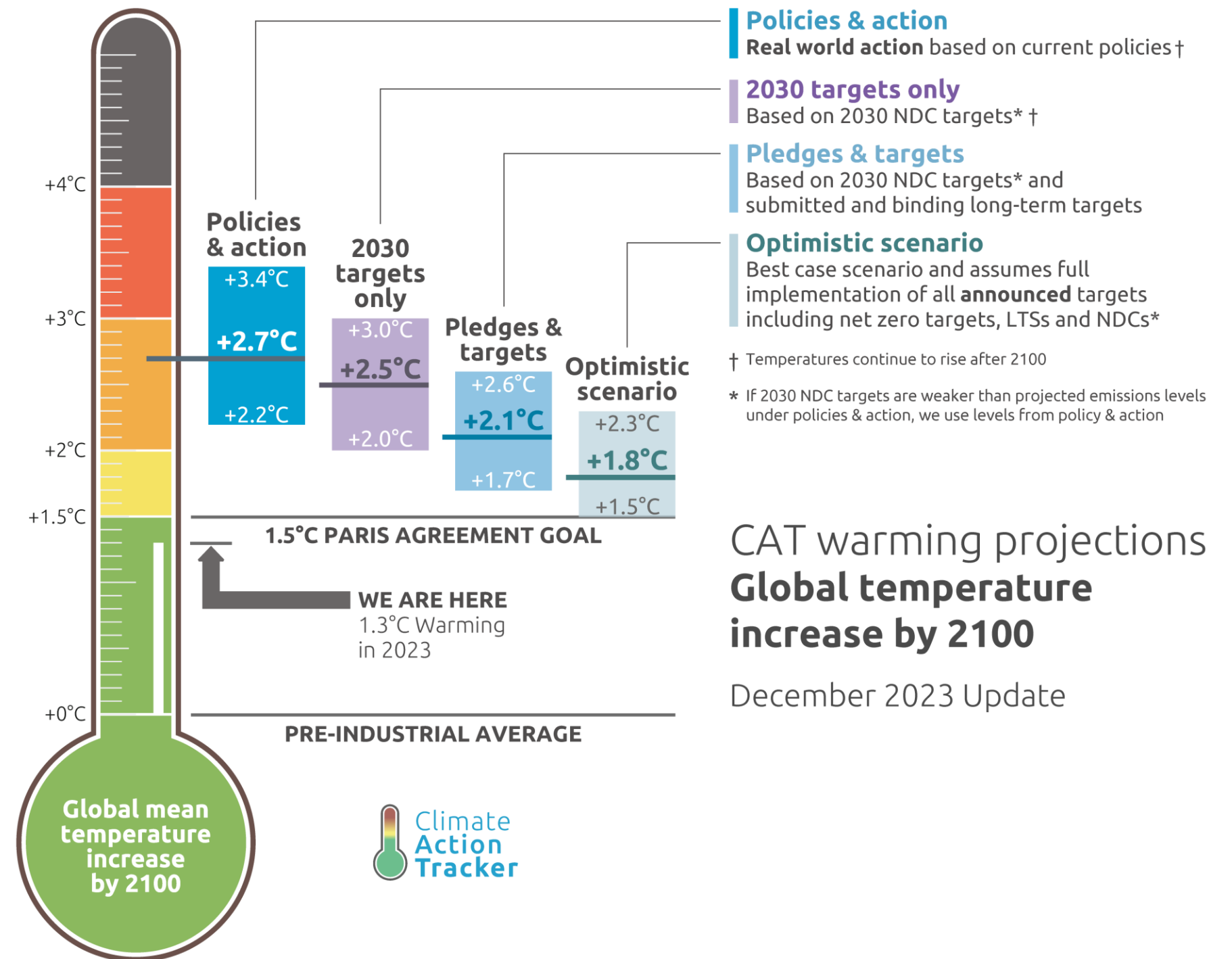
PRE-INDUSTRIAL TEMPERATURE OF EARTH

The average temperature on Earth lies somewhere around 57 degrees Fahrenheit (13.9 degrees Celsius).

Earth has warmed more than 1° C since pre- industrial times.



The planet is becoming warmer; the climate is changing



CAT warming projections
Global temperature increase by 2100

December 2023 Update



GREEN HOUSE GASES

Green House gases are those gases in the atmosphere that raise the surface temperature of the planet such as the Earth.

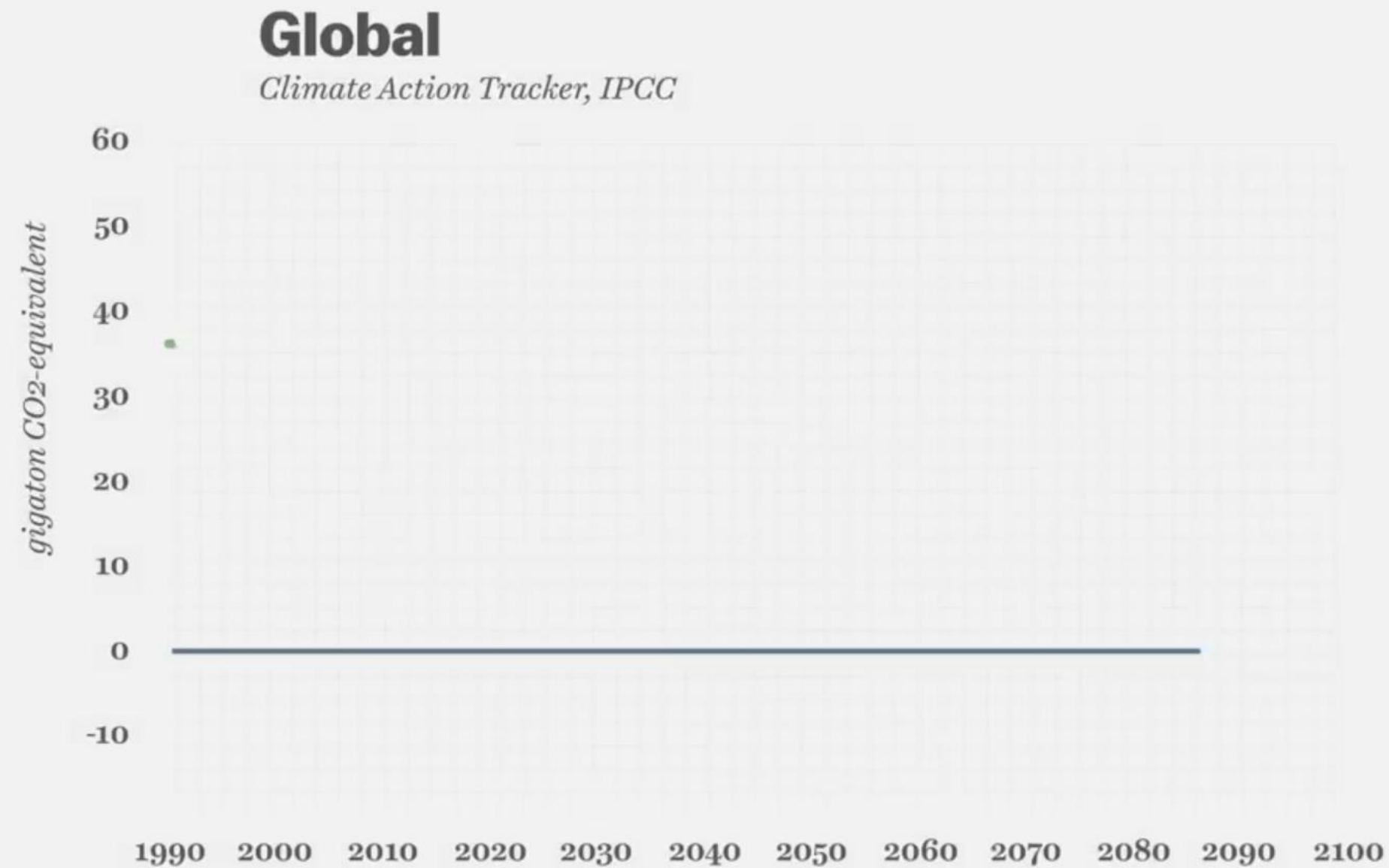
Natural Greenhouse Gases vs Human Greenhouse gas emissions

Vox

The bathtub



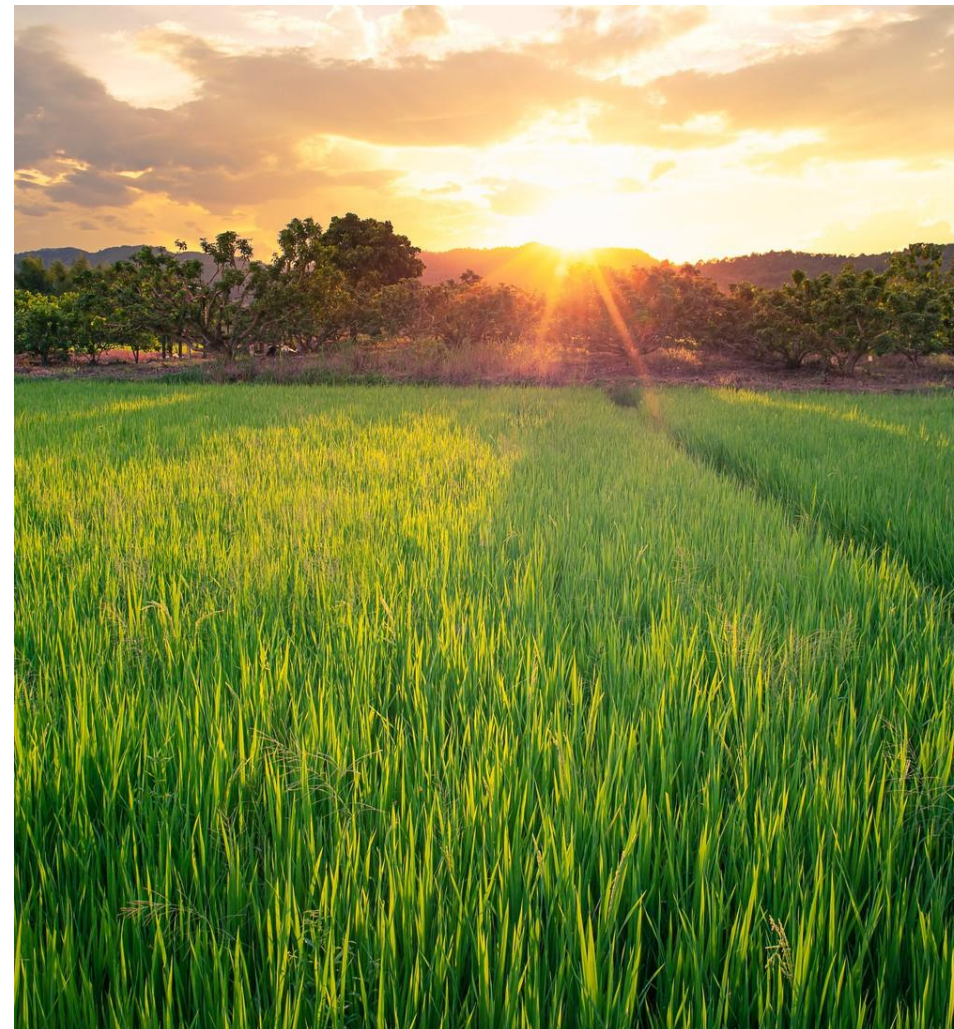
Plan to be under 1.5 degree Celsius



Some Examples of Greenhouse Gases

Carbon Dioxide

Earth's atmosphere has risen by about 30% since the beginning of the industrial revolution. Most of the increase is due to combustion of fossil fuels, which releases the long term CO₂ back into the atmosphere.



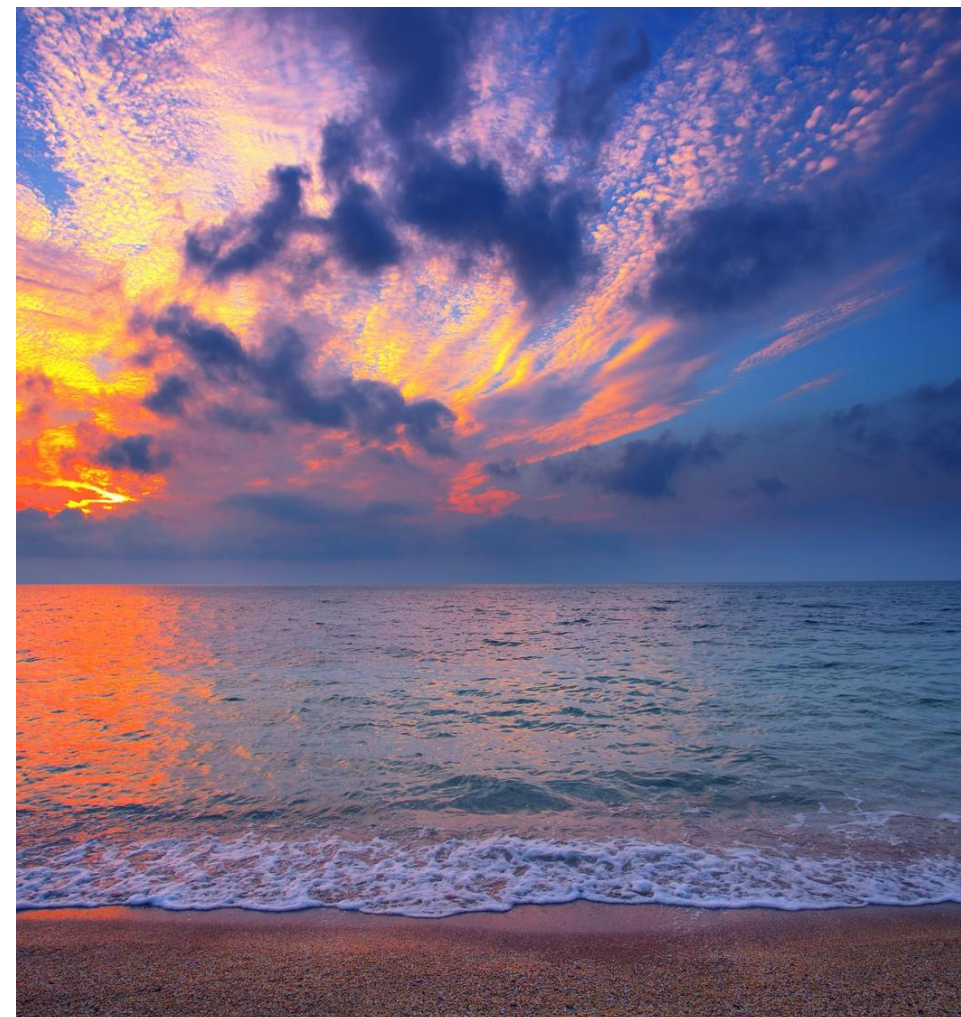
Methane

Methane is released by Coal Mining, Landfills and by agriculture, particularly through the digestive processes of Beef and Milk Cows

Some Examples of Greenhouse Gases

Nitrous Oxide

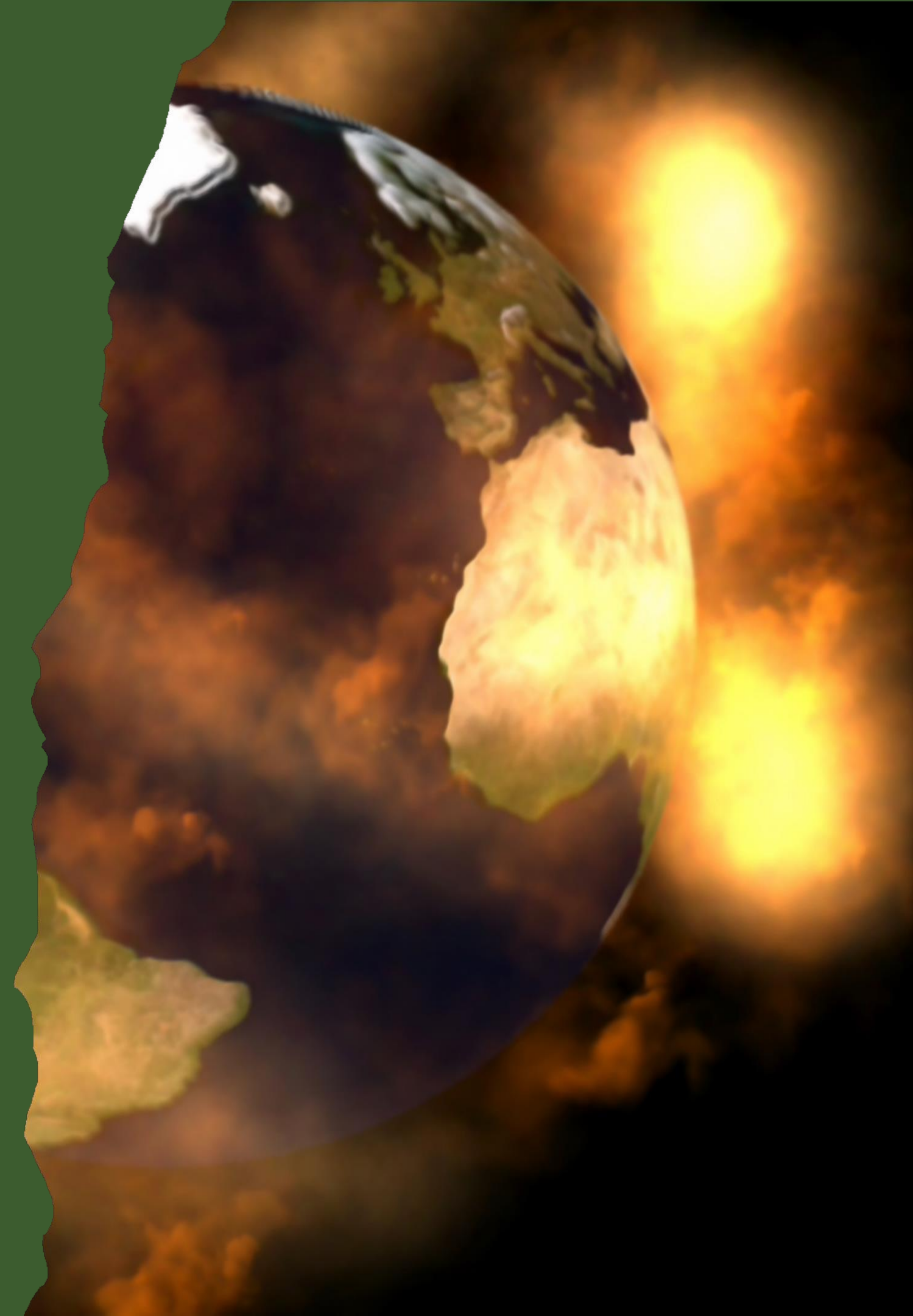
Nitrous Oxide is the powerful Greenhouse Gas that lasts for over 100 years in the atmosphere. We add Nitrous oxide to the atmosphere by growing crops with nitrogen-based Fertilizers.



Water Vapour

Warmer Air can hold more Water Vapour without causing rainstorm. So as the planet warms, we will tend to have more water in the atmosphere at a time- and that does heat the planet.

WHY CLIMATE CHANGE IS A PROBLEM?



INTENSE
DROUGHTS



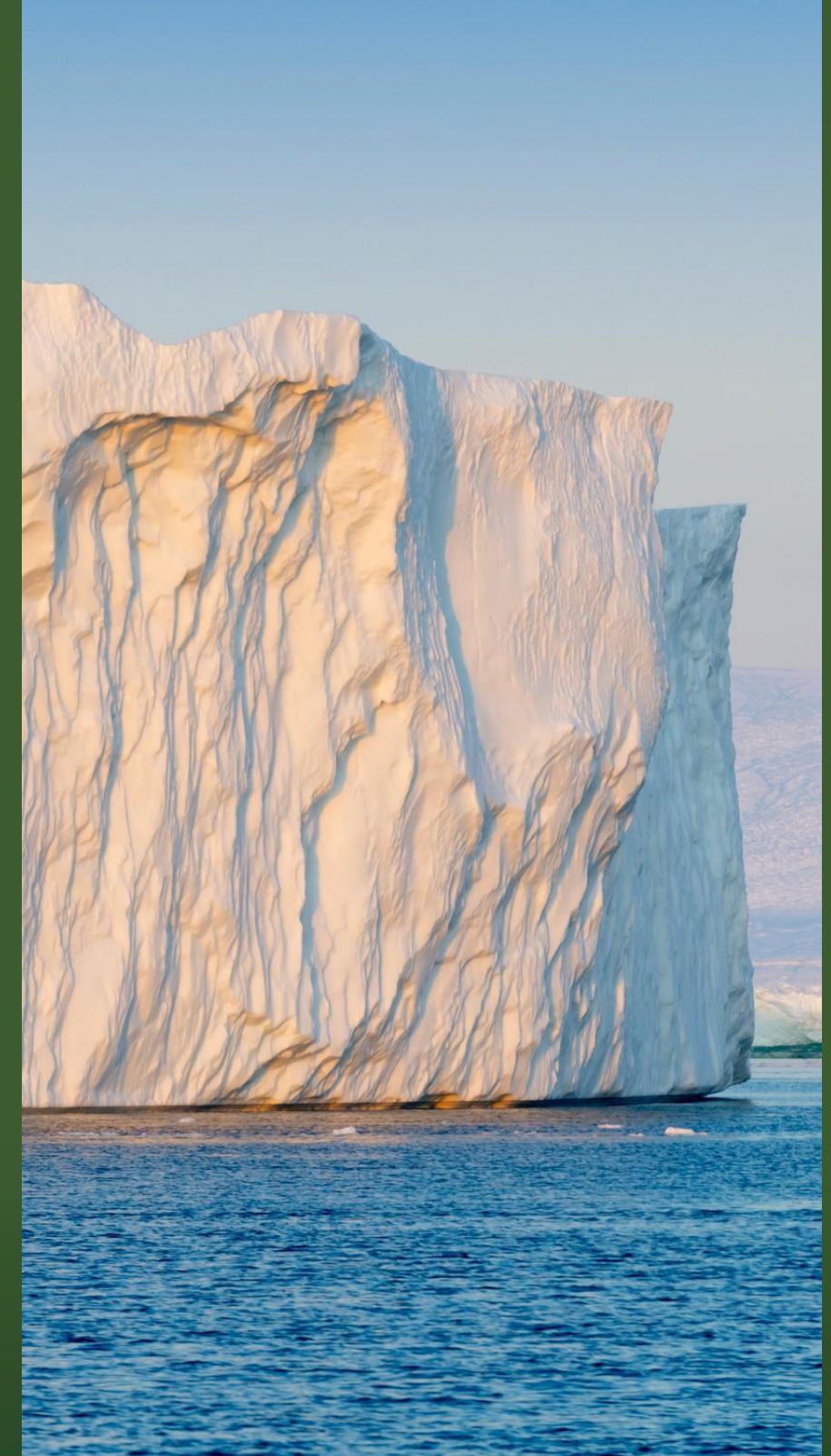
WATER
SCARCITY



SEVERE
FIRES



RISING
SEA LEVELS



FLOODING



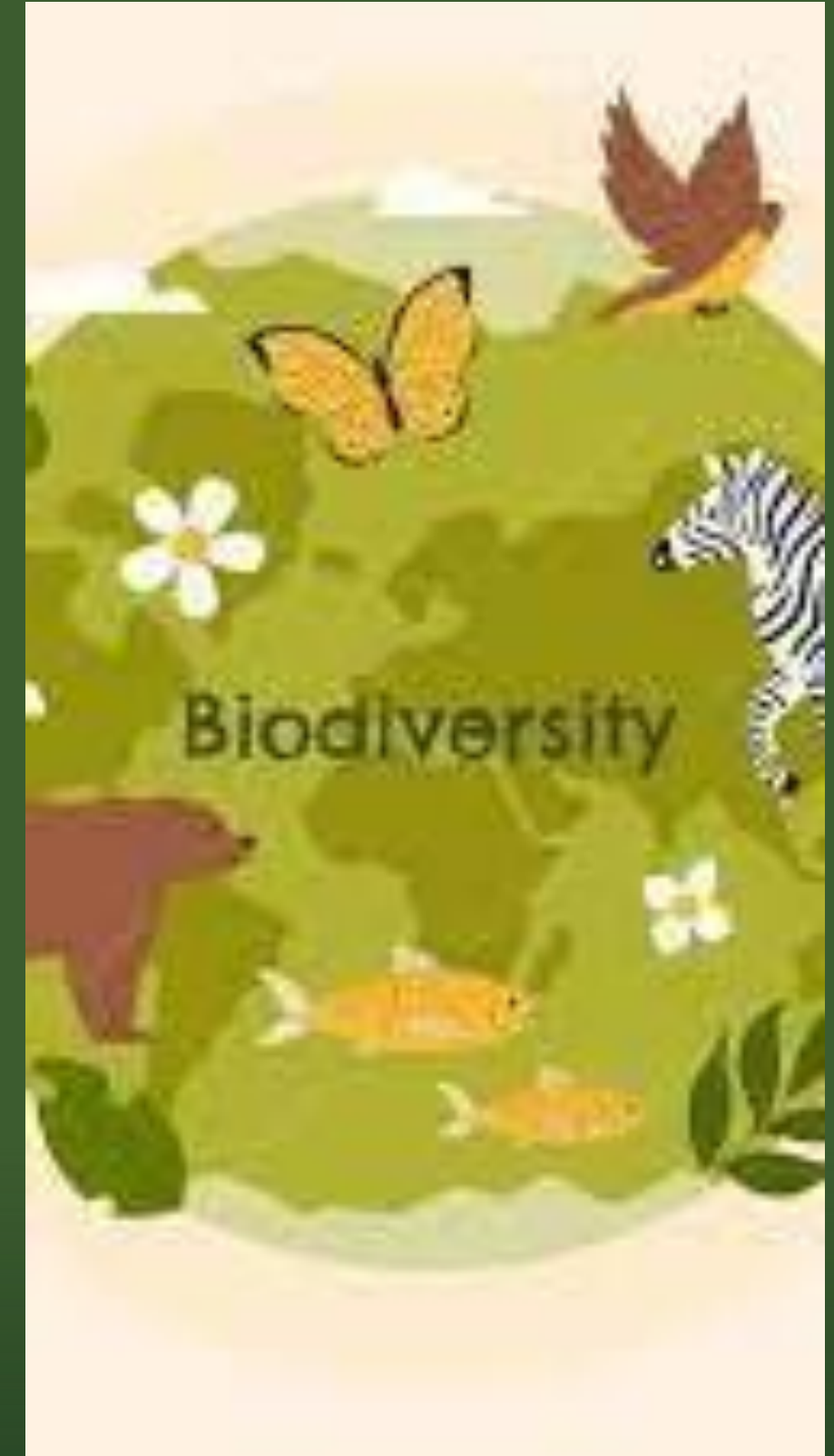
MELTING
POLAR ICE



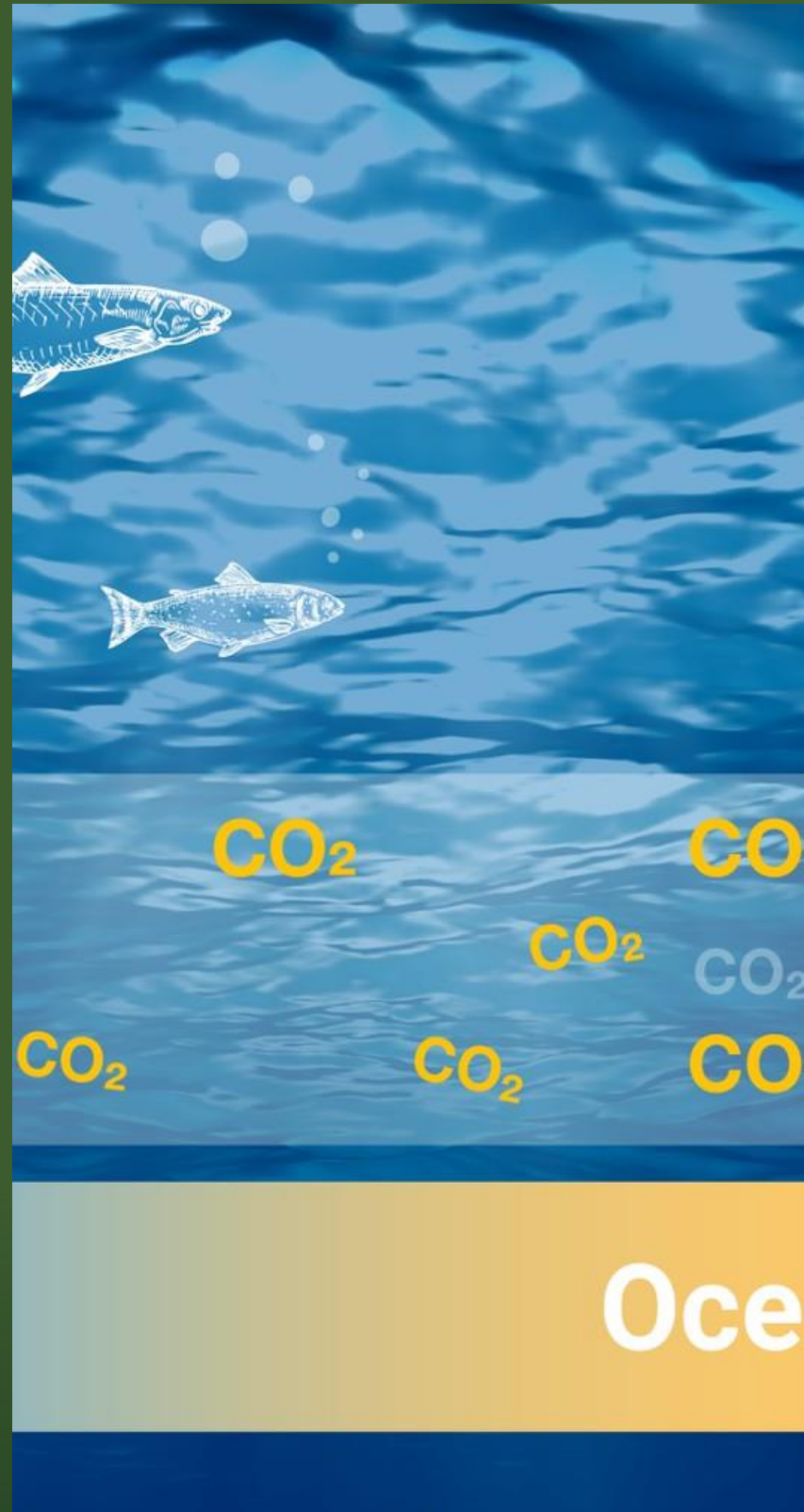
CATASTROPHIC
STORMS



DECLINING
BIODIVERSITY



OCEAN ACIDIFICATION



MORE HEALTH RISKS



POVERTY AND DISPLACEMENT



FOOD SCARCITY





United Nations
Climate Change

The different

futures that

lie ahead.

+1.5 °C

+2 °C

+3 °C

The background features a dense pattern of dark green fern leaves. Overlaid on this are several green circles of varying sizes and opacities. A large, solid green circle is in the top-left corner. A semi-transparent green circle is in the bottom-right corner. Three smaller, semi-transparent green circles are arranged horizontally in the upper-middle section, partially overlapping the text.

**WHAT CAN BE
DONE?**

Stopping Emissions

Conference of the Parties
Twenty-first session
Paris, 30 November to 11 December 2015

Agenda item 4(b)
Durban Platform for Enhanced Action (decision 1/CP.17)
Adoption of a protocol, another legal instrument, or an
agreed outcome with legal force under the Convention
applicable to all Parties

ADOPTION OF THE PARIS AGREEMENT

Proposal by the President

Draft decision -/CP.21

The Conference of the Parties,
Recalling decision 1/CP.17 on the establishment of the Ad Hoc Working Group on
the Durban Platform for Enhanced Action,
Also recalling Articles 2, 3 and 4 of the Convention,
Further recalling relevant decisions of the Conference of the Parties, including

Removing existing Emissions





CLIMATE CHANGE INITIATIVES

ENERGY

INDUSTRY AND TRANSPORT

BUSINESS AND FINANCE

NATURE BASED SOLUTIONS

URBAN PLANNING



CLIMATE CHANGE AND YOU

CONSERVE HOT WATER

CONSERVE IN THE CAR

CONSERVE ELECTRICITY

REDUCE WASTE

PLANT TREES



**WHAT OTHER WAYS
CAN YOU THINK OF TO
FIGHT CLIMATE
CHANGE?**



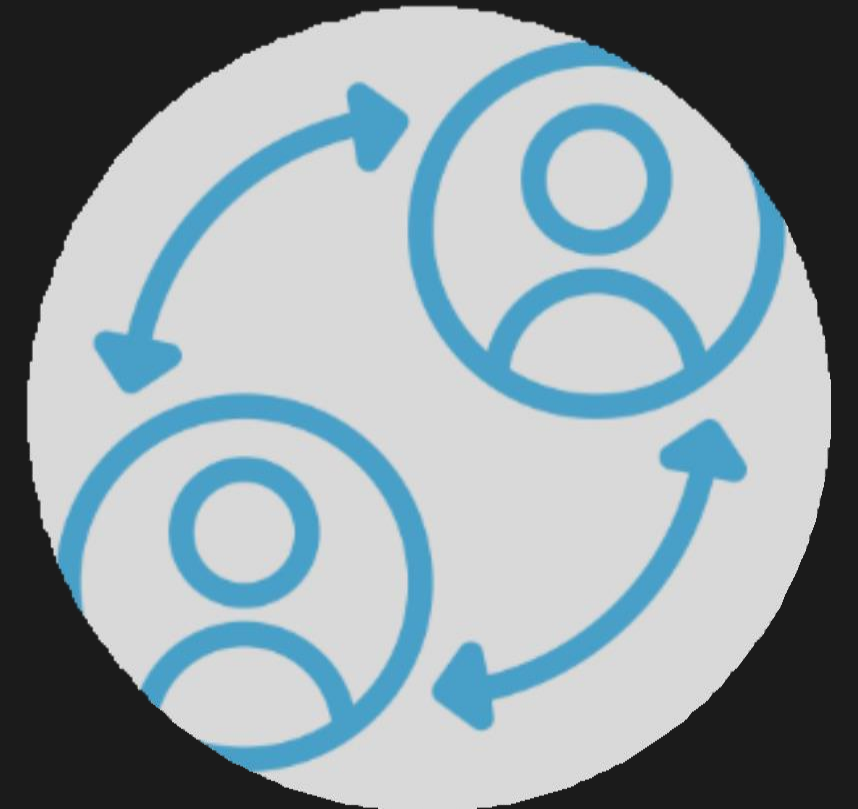
Justice Movement of India

Educate. Empower. Encourage. Engage

PURPOSE



EDUCATE



ENGAGE

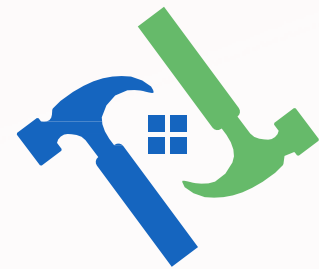


EMPOWER



ENCOURAGE

KNOW ABOUT US



VISION

Make India a Just, Inclusive, and Sustainable Nation in terms of Social, Economic, Political, and Environmental Fronts



MISSION

Organise citizens around grass-root level issues and launch campaigns to influence relevant stakeholders in order to execute sustainable solutions.

**Social
Justice**

**Environmental
Justice**

**Economic
Justice**

**Political
Justice**

PILLARS OF JUSTICE

Contact Us!

justicemovementofindia@gmail.com



/ @jmofindia

What is



**Justice
Movement
of India**

Educate. Empower. Encourage. Engage

?



**THE CLIMATE IS
CHANGING, SO
SHOULD WE!**



THANK YOU

DR APEKSHA WASUDEO