DestinE Platform

CLIMATE FRESK WORKSHOP

DIGITAL RESPONSIBILITY



Destination Earth

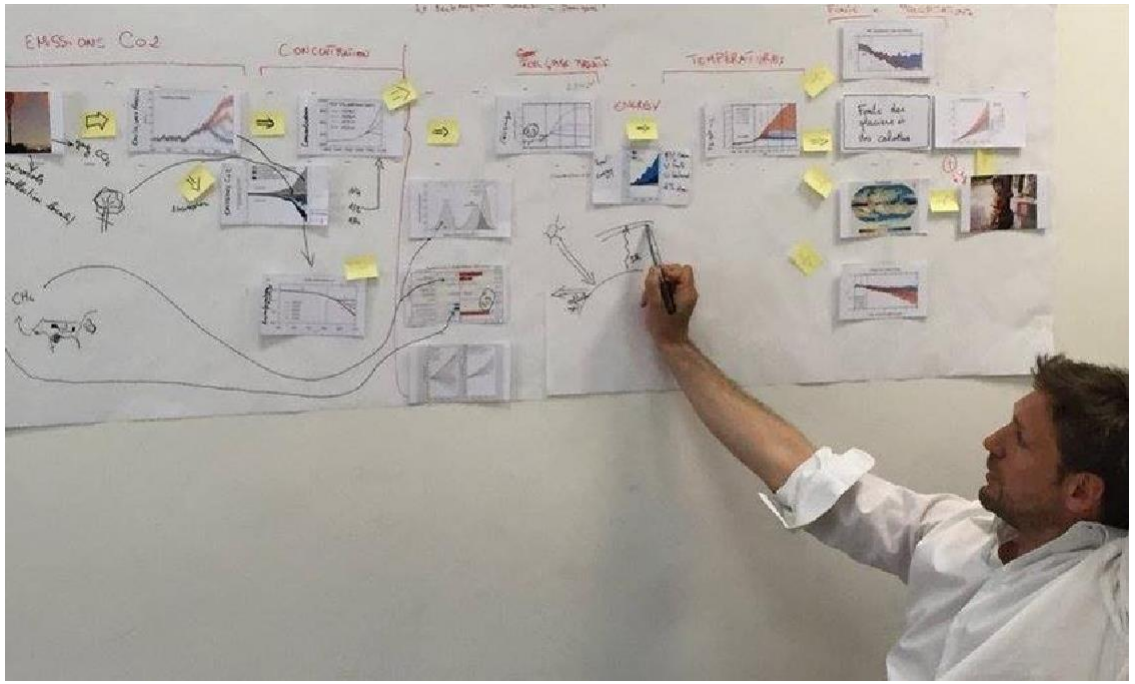
Funded by the European Union

Implemented by ECMWF esa EUMETSAT

CL!MATE FRESK
All the cards are in your hands!

THE IDEA

- Invented in 2015 by Cédric Ringenbach
- Based on IPCC graphs and reports, organised according to causal links
- A tool in constant development (current 2nd generation)
- With the first facilitators/trainers, creation of the association in December 2018, which disseminates and supervises the use of the tool



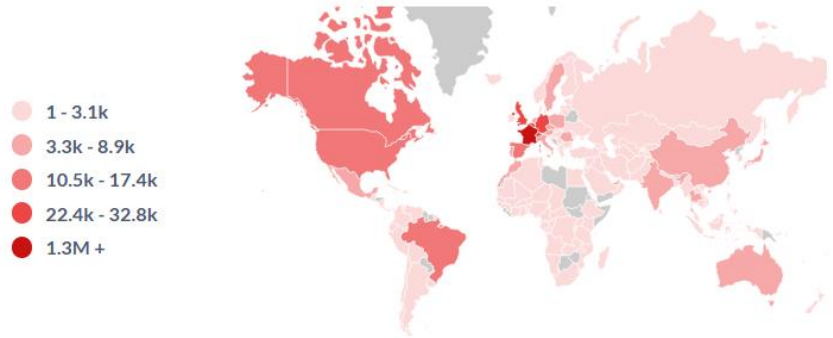
A FANTASTIC SPREADING

+2,1 million
Of aware people

165
Countries impacted

+95 000
Facilitators worldwide

+50
translation

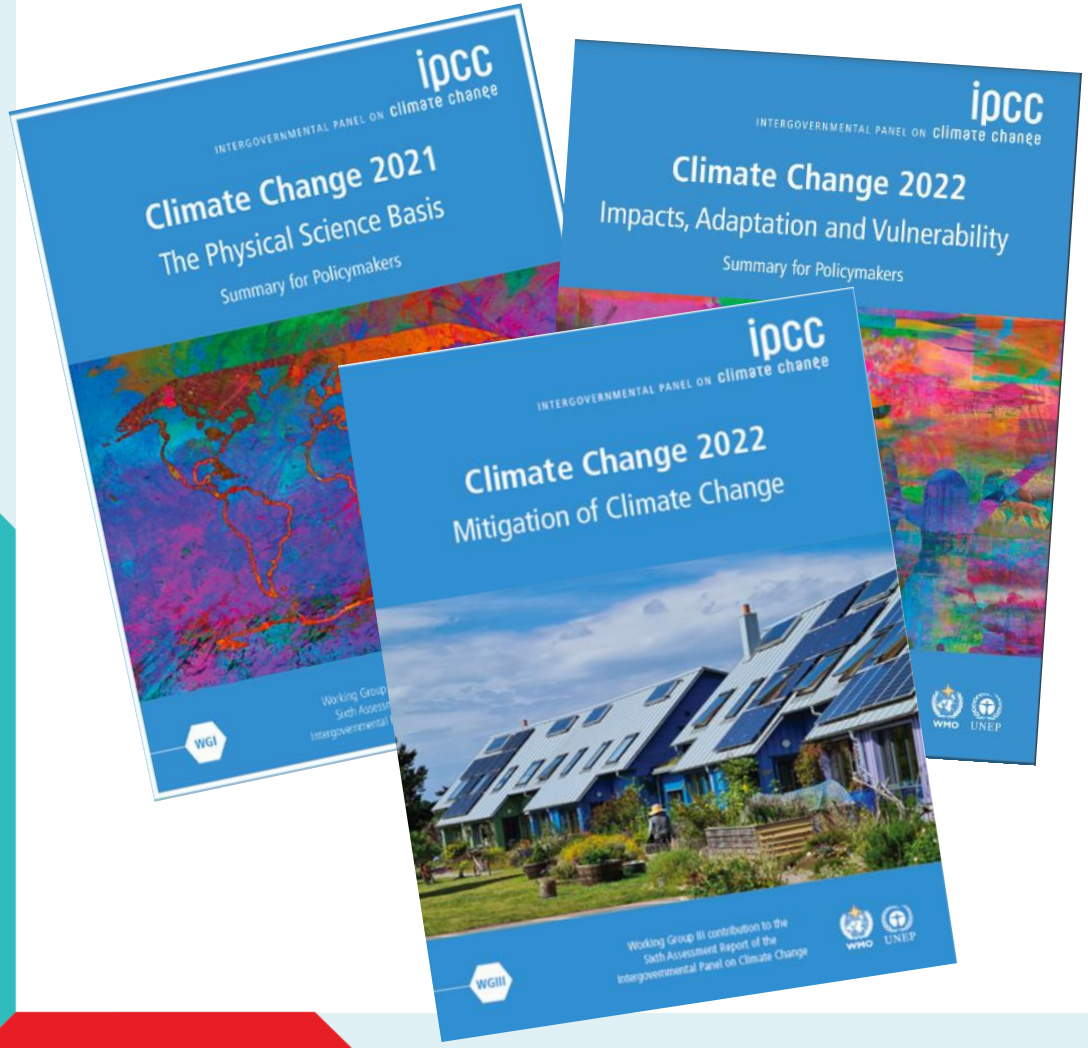


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IPCC ?

Explain it with your own words

IPCC = **I**ntergovernmental **P**anel on **C**limate **C**hange



ipcc

INTERGOVERNMENTAL PANEL ON climate change

WMO UNEP

1988: Creation of the IPCC by the UN

2013-2014: 5th synthesis report

2018: Special report: 1.5°C

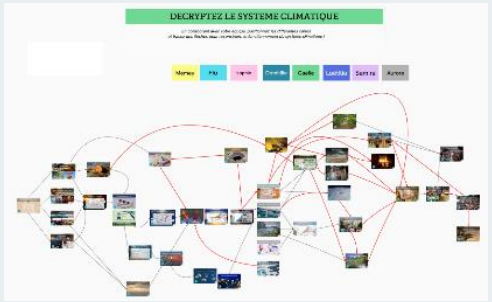
2021-2023: 6th synthesis report

The Agenda

PHASE 1
REFLECTION AND DRAWING LINKS



Understanding the issues



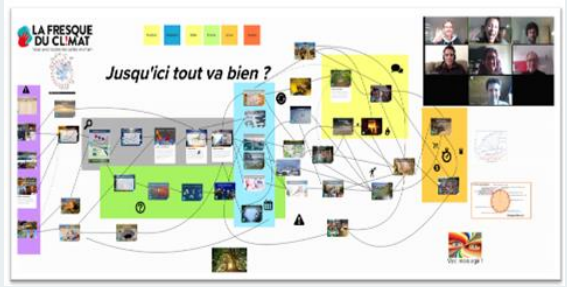
1h30

9h10 – 10h40

PHASE 2
CREATIVITY AND SYNTHESIS



Anchoring knowledge



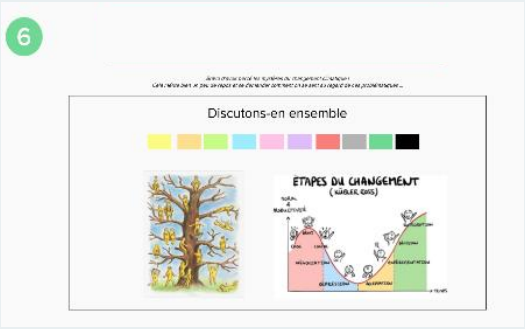
0h20

10h40 – 11h

PHASE 3
FEELINGS AND EMOTIONS



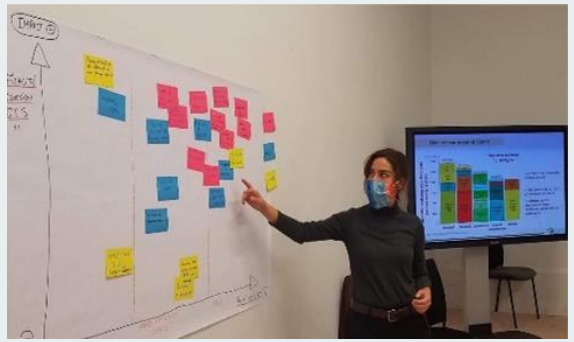
Embracing your emotions



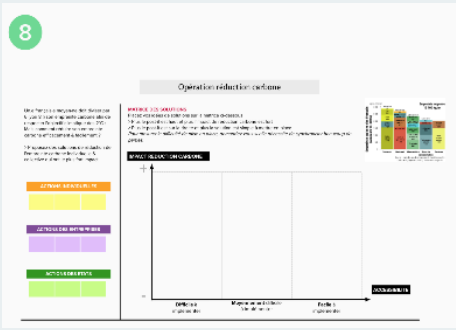
0h10

11h – 11h10

PHASE 4
DO IT YOURSELF !



Orders of magnitude
Moving toward action



0h40

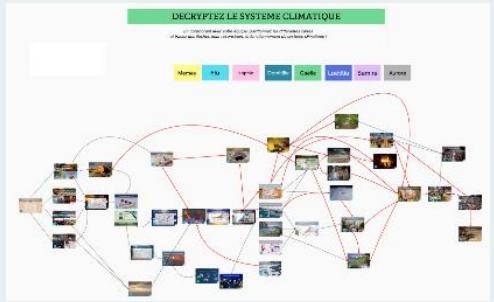
11h10 – 11h50

The Agenda

PHASE 1
REFLECTION AND DRAWING LINKS



Understanding the issues



1h30

9h10 — 10h40

PHASE 2
CREATIVITY AND SYNYTHESIS



Anchoring knowledge



0h20

10h40 — 11h

PHASE 3
FEELINGS AND EMOTIONS



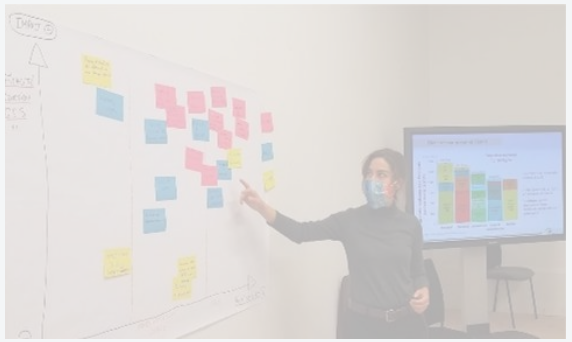
Embracing your emotions



0h10

11h — 11h10

PHASE 4
DO IT YOURSELF !

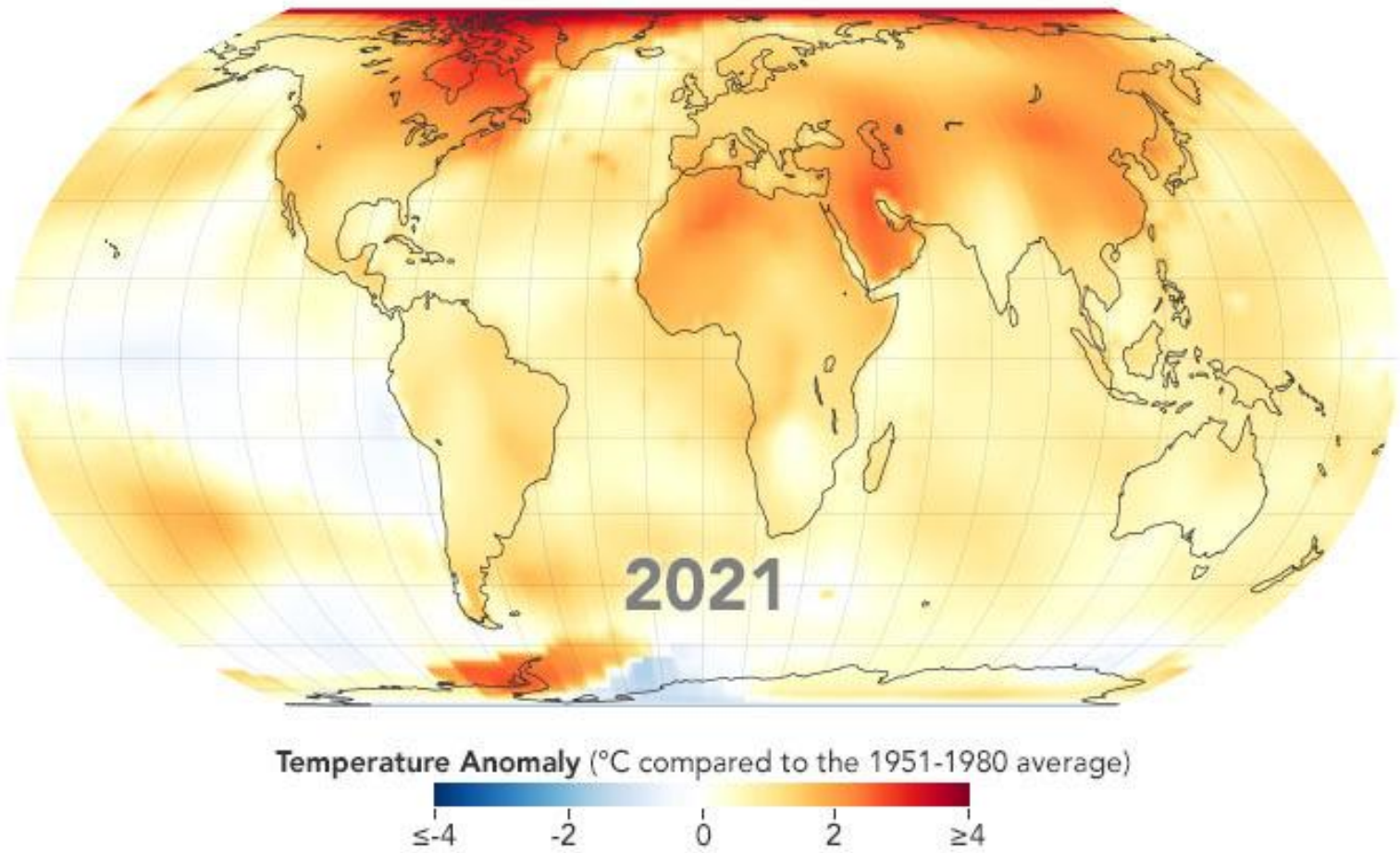


Orders of magnitude
Moving toward action



0h40

11h10 — 11h50

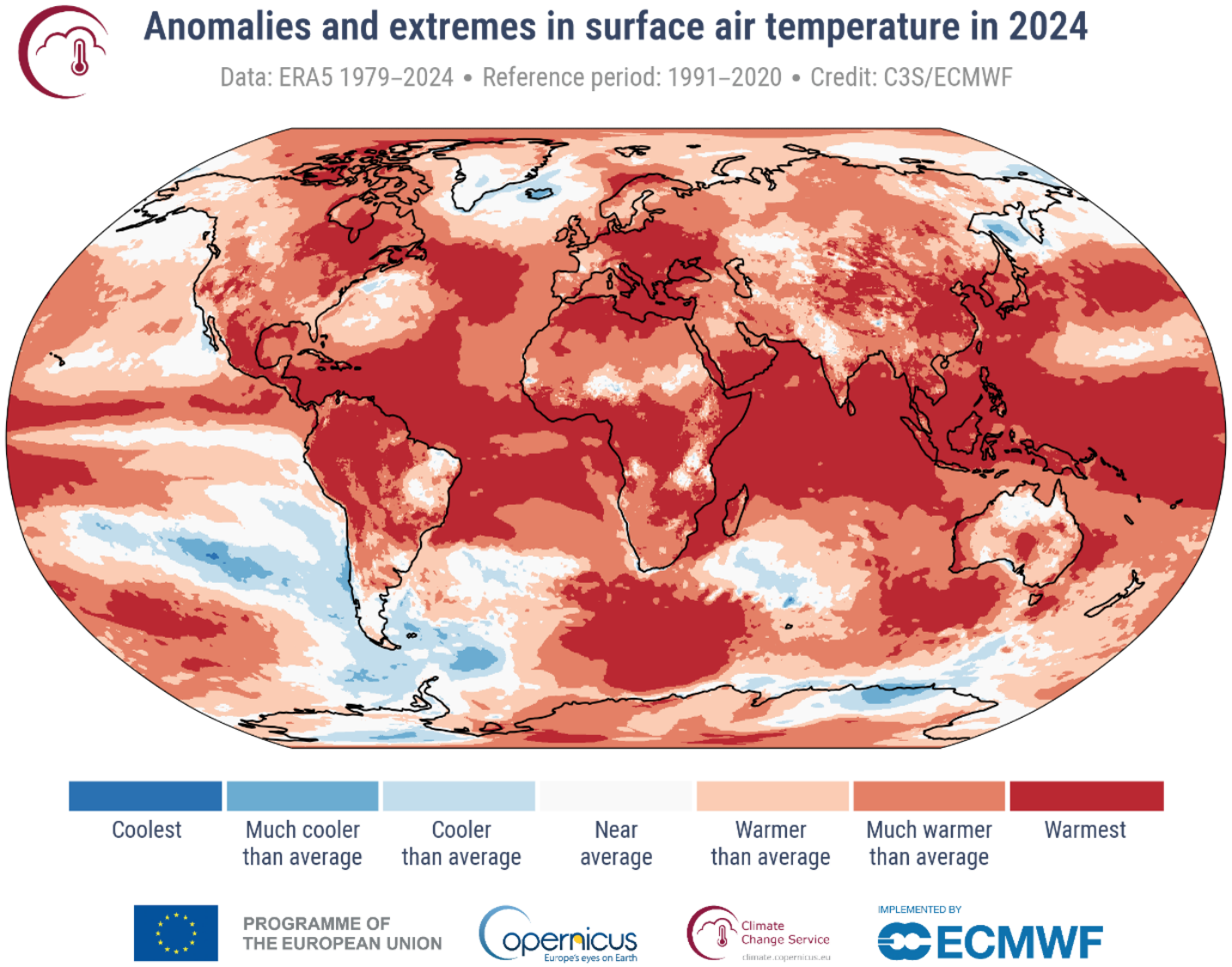


What is the average temperature of the globe today?

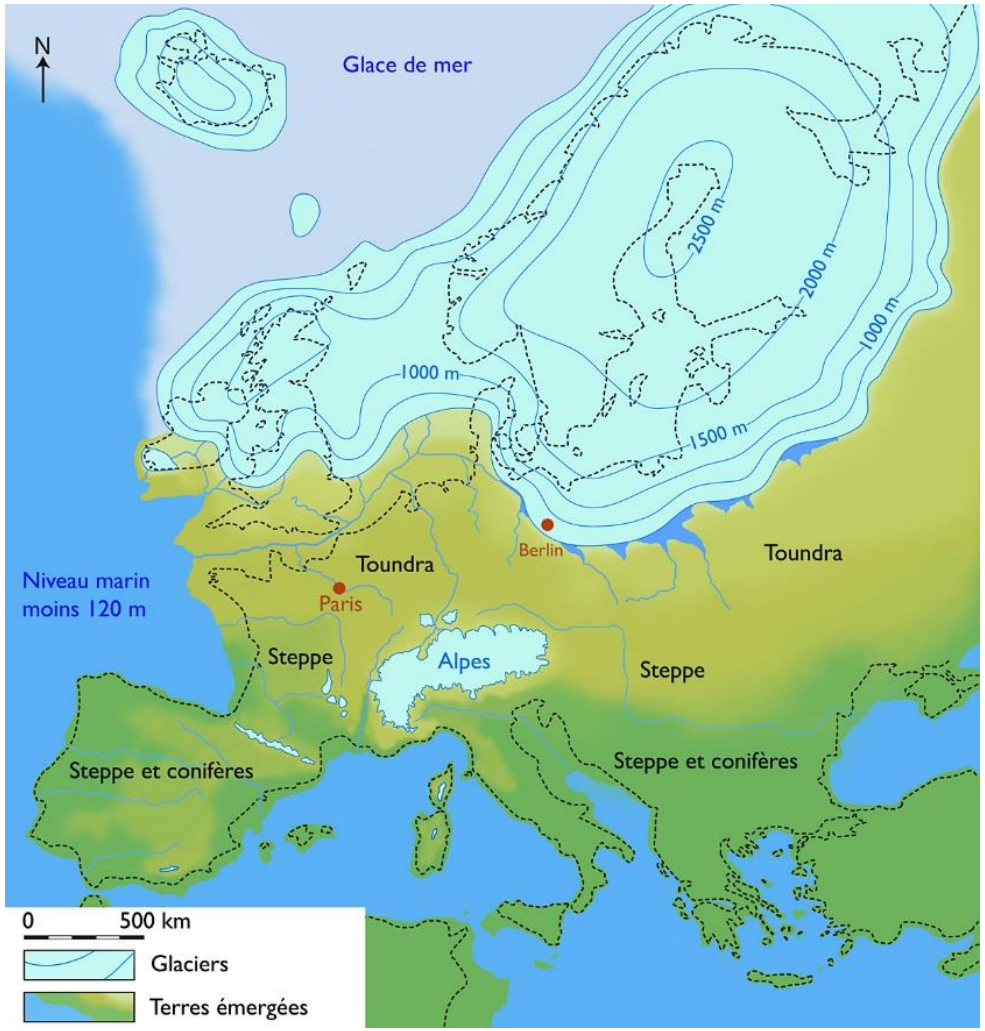
https://earthobservatory.nasa.gov/world-of-change/global-temperatures

CLIMATE FRESK
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15 °C



https://climate.copernicus.eu/global-climate-highlights-2024



20 000 years ago, at the peak of the Ice Age, what was the average global temperature ?

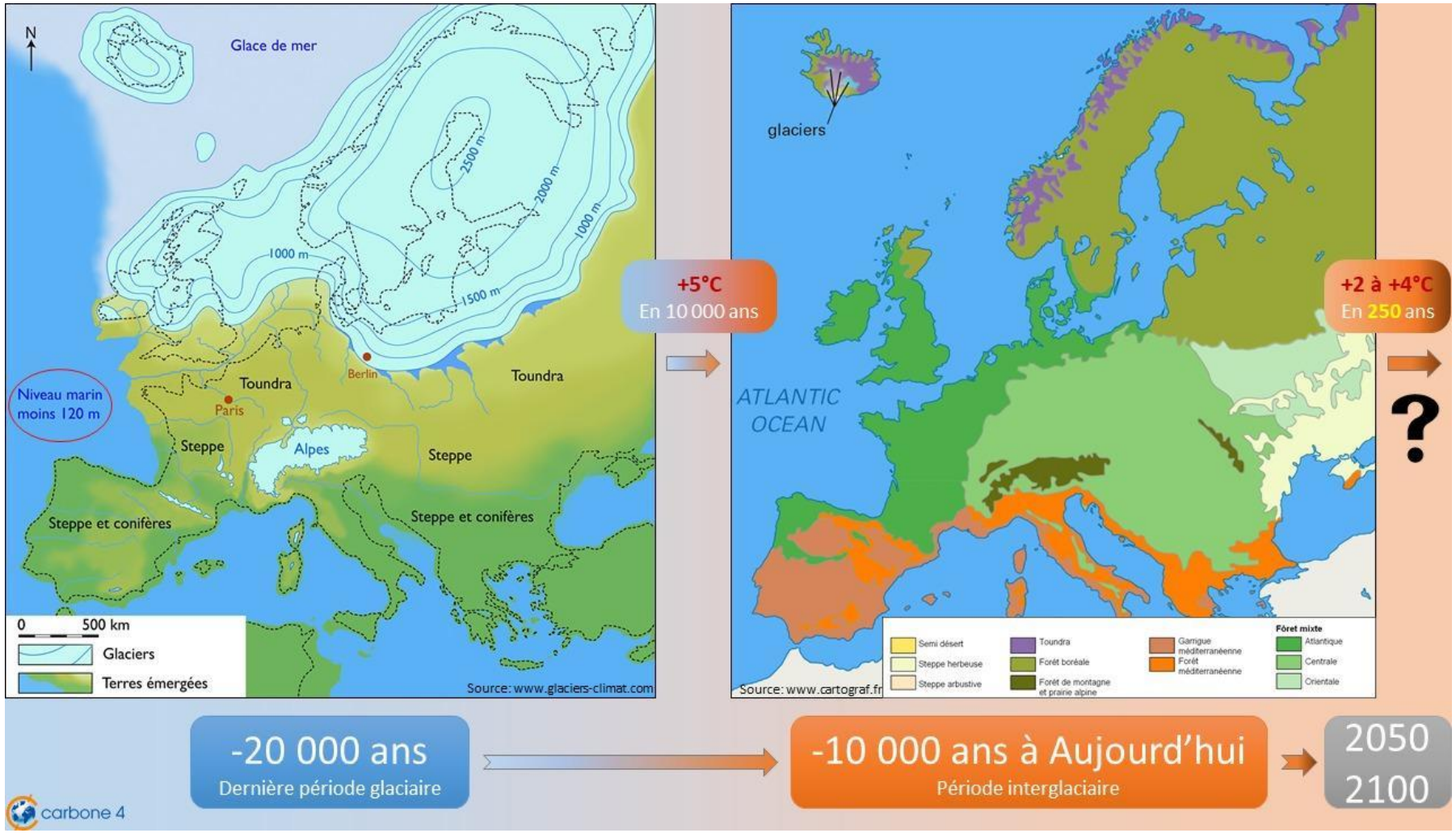
Source : LSCE/Petit & al., Nature, Juin 1999

CL!MATE FRESK
All the cards are in your hands!

10 °C

Twenty thousand years ago, at the peak of the Ice Age, when the average temperature was 5°C lower than today:

- Several kilometers of ice covered America and Northern Europe. France resembled present-day northern Siberia.
- Continental Europe was 10 to 15°C colder, but the tropical ocean varied little
- It was possible to walk from France to England, as the sea was 120 meters lower!



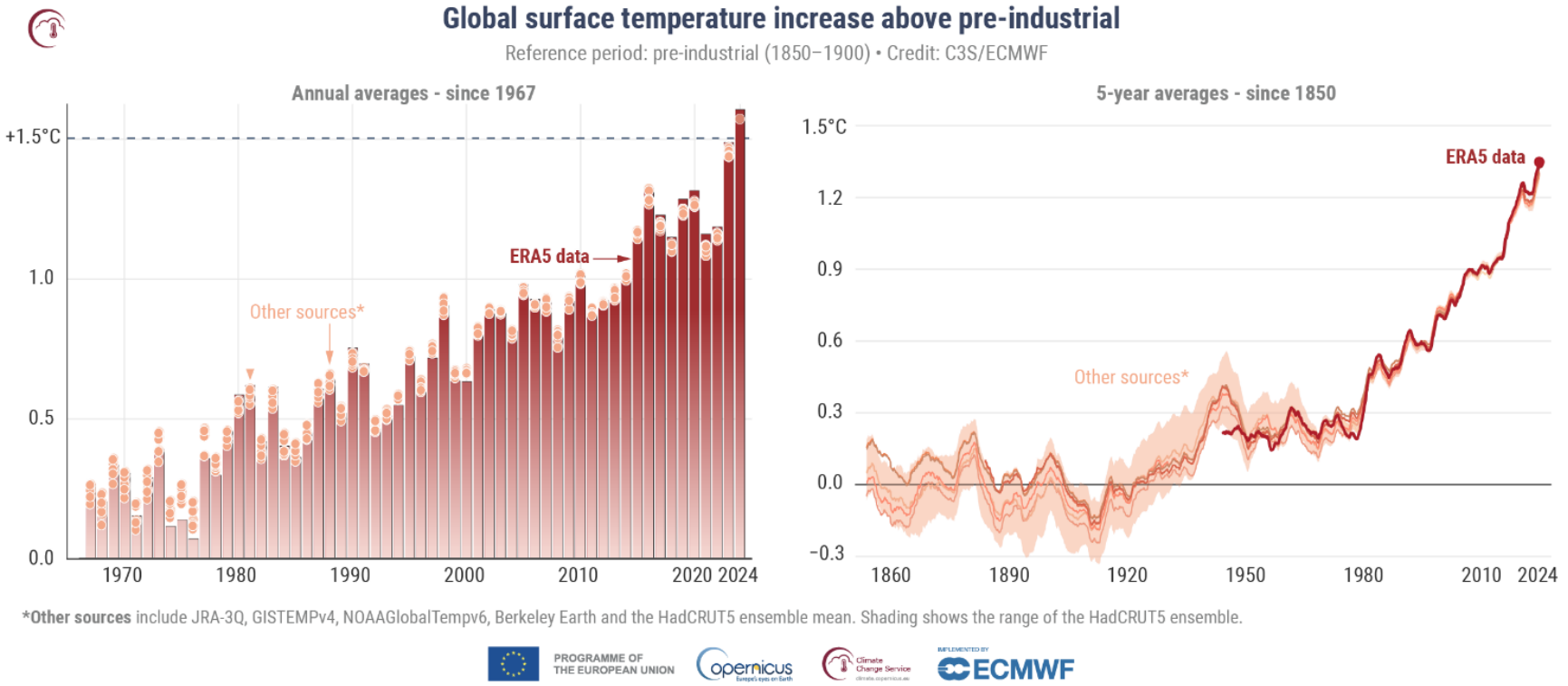
By how many degrees (°C) has the Earth's average temperature increased since 1850?

CL!MATE FRESK
All the cards are in your hands!

+1,3°C

Last decade 2015–2024 vs. average between 1850–1900

Italy is warming faster, with +2.2°C in 2024



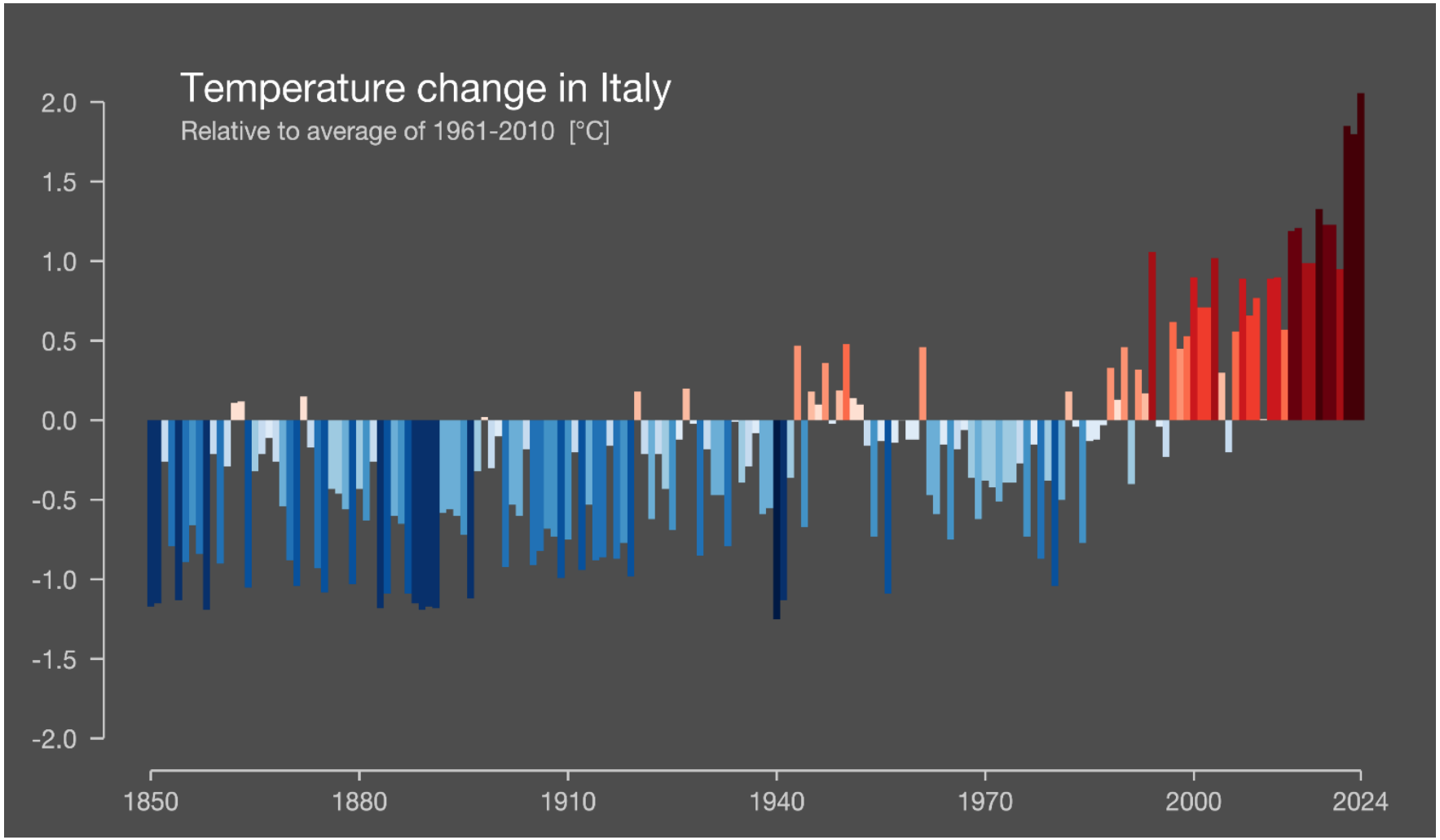
https://climate.copernicus.eu/copernicus-2024-first-year-exceed-15degc-above-pre-industrial-level

CL!MATE FRESK
All the cards are in your hands!

+1,3°C

Last decade 2015–2024 vs. average between 1850–1900

Italy is warming faster, with +2.2°C in 2024



https://showyourstripes.info/c/europe/italy/all

CL!MATE FRESK
All the cards are in your hands!

#1

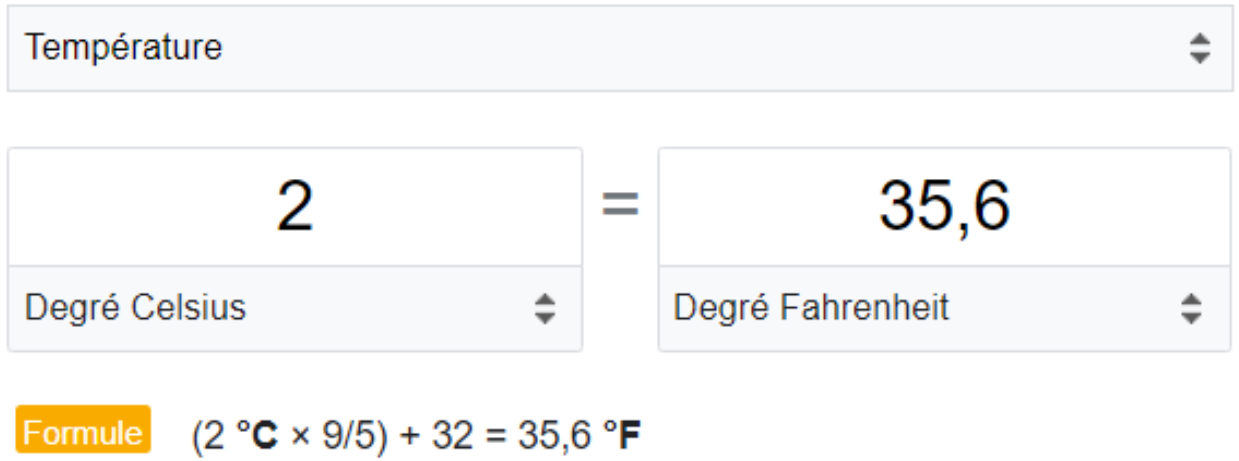


What commitment was made at the Paris Agreement in 2015?

CL!MATE FRESK
All the cards are in your hands!

#1

Limit global warming to 2°C (compared to pre-industrial levels)!



CL!MATE FRESK
All the cards are in your hands!

#2

Can you name a natural aerosol?





Volcanoes!

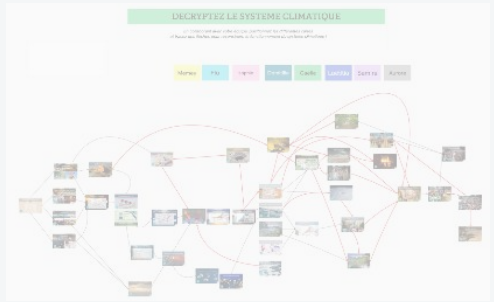
An aerosol is a collection of fine particles, either solid (dust) or liquid, of a chemical substance or mixture of substances, suspended in a gaseous medium. Emitted by human or natural activities (volcanoes, forest fires), aerosols also play a role in air pollution and allergies on a global and local scale. Aerosols are often confused with aerosol cans because of their name and because aerosol cans have been implicated in the problem of the hole in the ozone layer (CFC propellant). In both cases, it is caused by gases and occurs in the atmosphere. But that is where the similarity ends.

The Agenda

PHASE 1
REFLECTION AND DRAWING LINKS



Understanding the issues



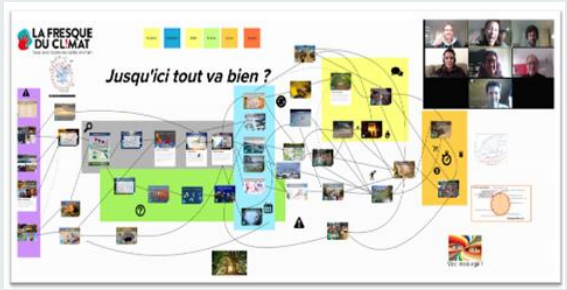
1h30

9h10

PHASE 2
CREATIVITY AND SYNTHESIS



Anchoring knowledge



0h20

10h40

11h

PHASE 3
FEELINGS AND EMOTIONS



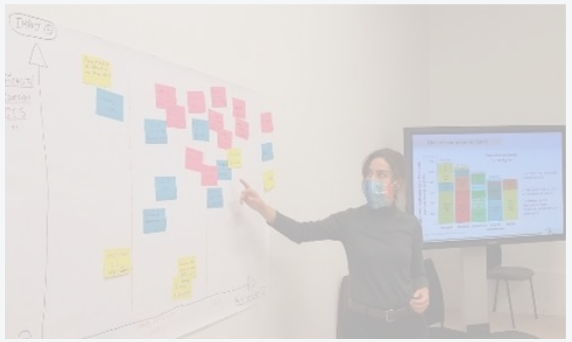
Embracing your emotions



0h10

11h10

PHASE 4
DO IT YOURSELF !



Orders of magnitude
Moving toward action



0h40

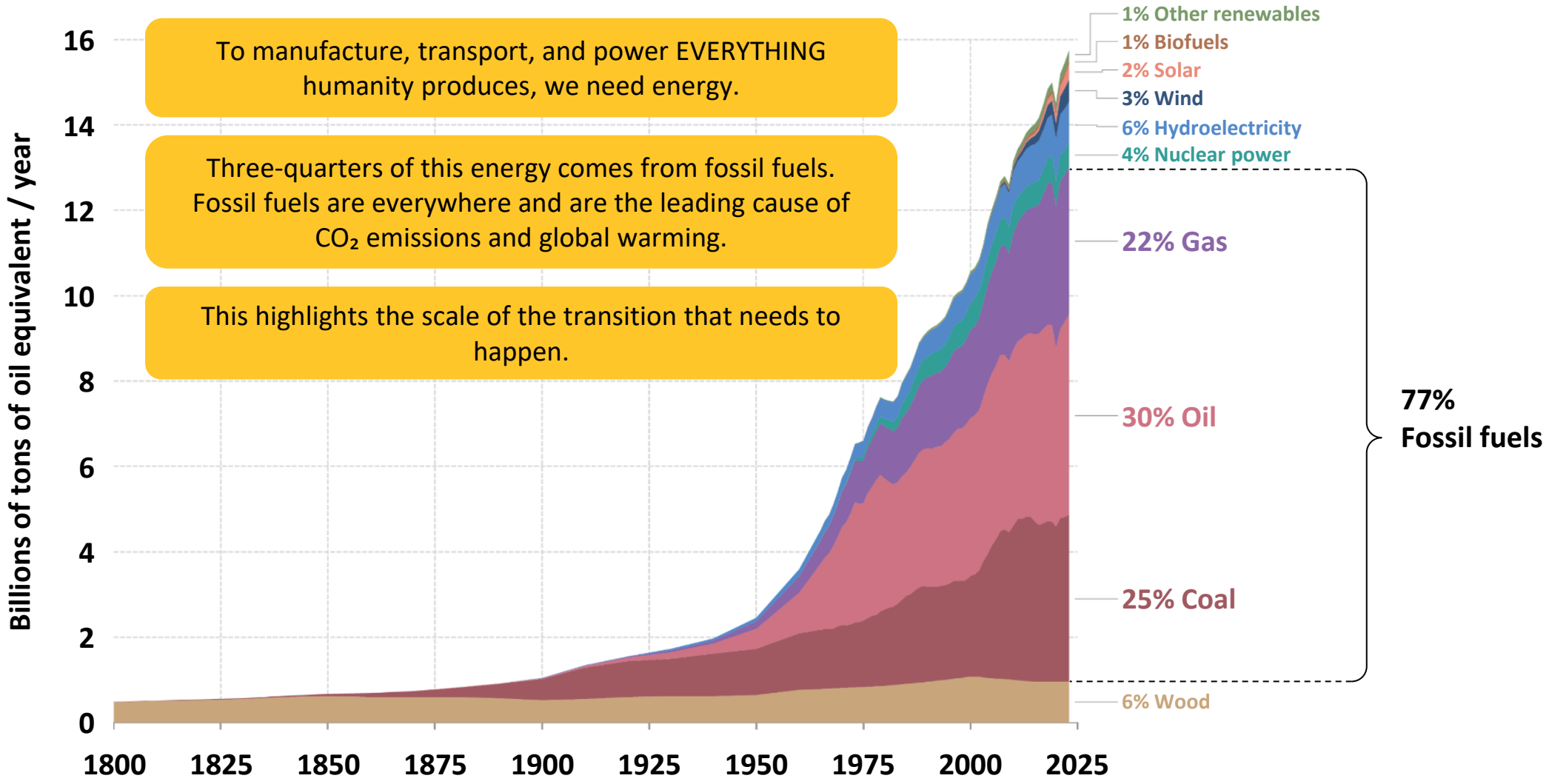
11h50

GLOBAL ENERGY SOURCES

To manufacture, transport, and power EVERYTHING humanity produces, we need energy.

Three-quarters of this energy comes from fossil fuels. Fossil fuels are everywhere and are the leading cause of CO_2 emissions and global warming.

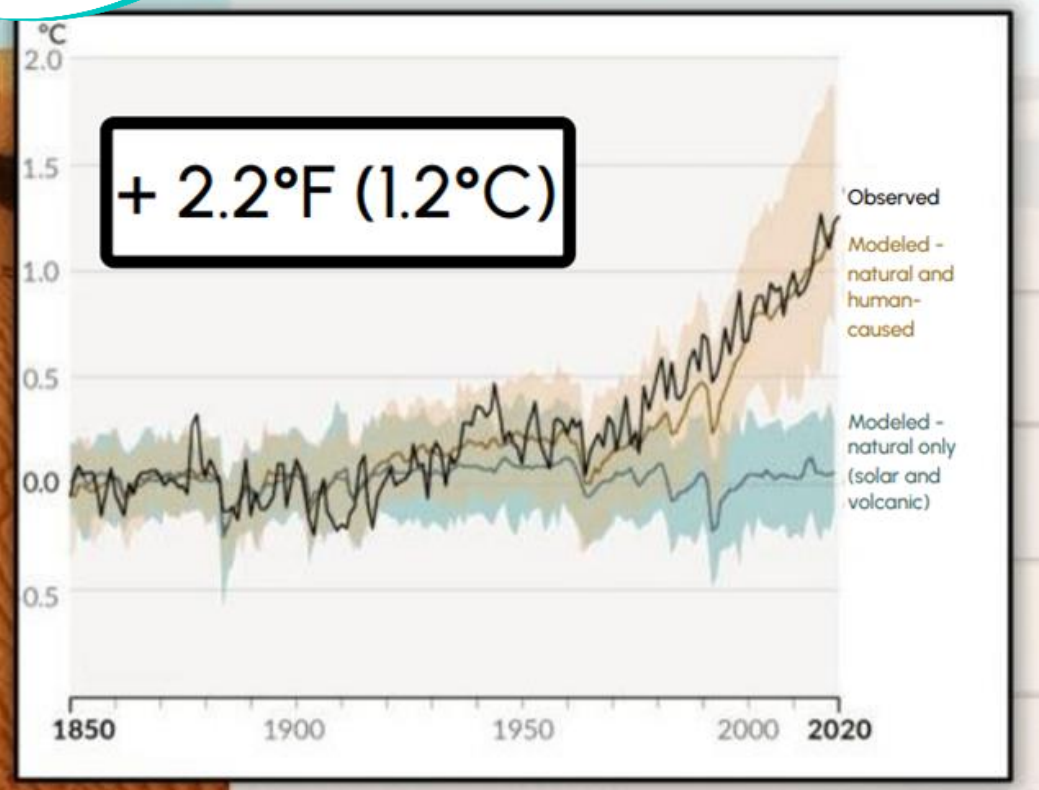
This highlights the scale of the transition that needs to happen.



Data source: Energy Institute - Statistical Review of World Energy (2024); Smil (2017)

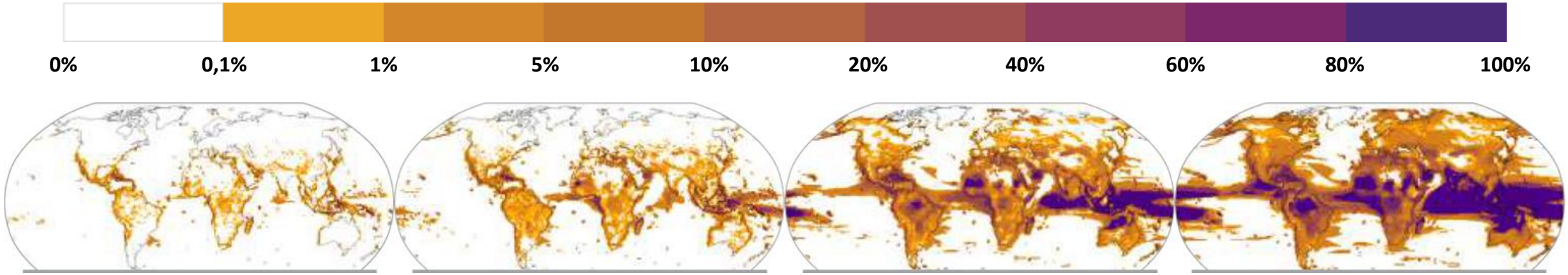
Adapted from OurWorldinData.org/energy | CC BY

CL!MATE FRESK
All the cards are in your hands!



21

RISK OF SPECIES LOSS DUE TO WARMING



Significant warming would lead to a massive loss of animal species, highlighting the urgency of stopping global warming as quickly as possible and keeping it below 2°C.

Every tenth of a degree counts!

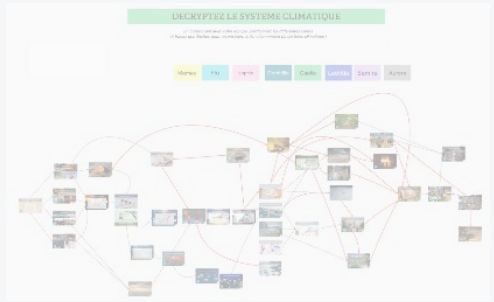
Adapted from IPCC synthesis AR6 figure SPM.3

The Agenda

PHASE 1
REFLECTION AND DRAWING LINKS



Understanding the issues



1h30

9h10 – 10h40

PHASE 2
CREATIVITY AND SYNYTHESIS



Anchoring knowledge



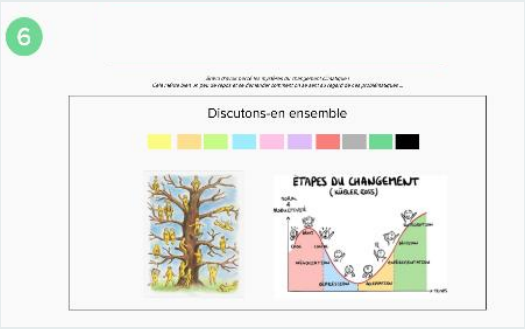
0h20

10h40 – 11h

PHASE 3
FEELINGS AND EMOTIONS



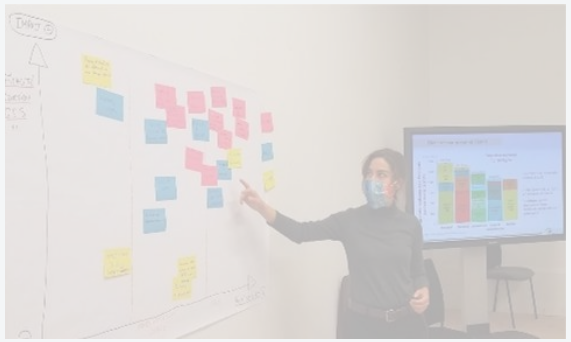
Embracing your emotions



0h10

11h – 11h10

PHASE 4
DO IT YOURSELF !



Orders of magnitude
Moving toward action



0h40

11h10 – 11h50

Embracing your emotions

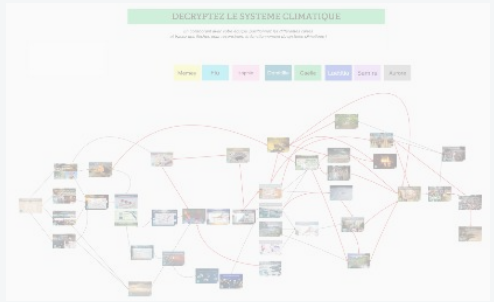


The Agenda

PHASE 1
REFLECTION AND DRAWING LINKS



Understanding the issues



1h30

9h10

PHASE 2
CREATIVITY AND SYNYTHESIS



Anchoring knowledge



0h20

10h40

PHASE 3
FEELINGS AND EMOTIONS



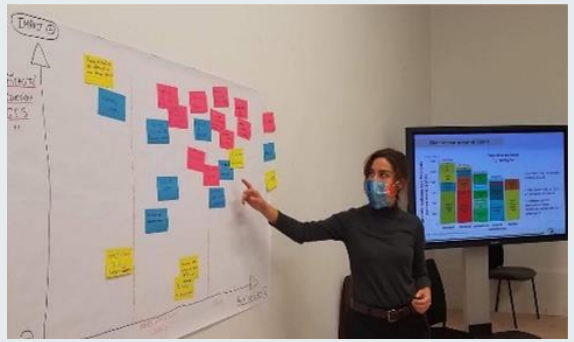
Embracing your emotions



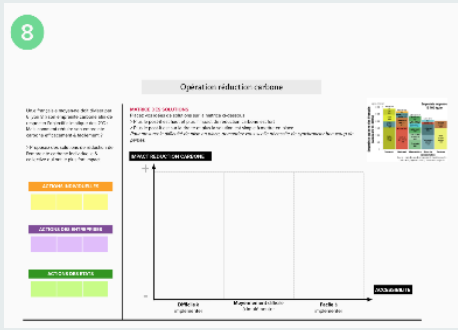
0h10

11h

PHASE 4
DO IT YOURSELF !



Orders of magnitude
Moving toward action



0h40

11h10

11h50

FROM THE TRIANGLE OF INACTION TO THE TRIANGLE OF ACTION

GOVERNMENTS

Government, businesses, and citizens—everyone has a role to play in stopping global warming and adapting to its consequences.

Climate Fresks can be run in all three groups.



CITIZENS

BUSINESSES

Renamed from the "Triangle of Inaction" conceptualised by Pierre Peyretou.

Example of climate change MITIGATION with the Steps of Power



1. UNDERSTAND
Deepen awareness

Emma reads an article in a newspaper reporting that 400 children have been killed by cars in the Netherlands. Worried for her own children, she **looks into it** and finds out that citizen movements are pushing to limit cars in the city in favour of cycling.

2. MAKE IT VISIBLE
Share and rally

Emma **joins the movement** called "Stop de Kindermoord" (Stop the Murder of Children). She **suggests to friends** and family that they cycle around town, **joins protests and shares testimonies** in the media.

3. ACT
Explore ways to get involved

With her collective, she paints new cycle lanes and **holds meetings with local politicians**. Members share **their equipment and knowledge**, which makes it easier for **Emma to get suitable gear, learn road-safety skills and learn how to repair her bike**.

4. EMPOWER ACTION
Build a network

In response to citizen pressure, cities like **The Hague** start testing the **first safe bike lanes**, limiting car traffic, and offering subsidies to buy bicycles. Due to this success, **the Netherlands adopts national pro-cycling policies**. Emma joins a transportation committee on her town council and **writes a book** titled “The Cycling Adventure is within Reach!”

Make your intention win… … in visibility … … and in ways to get involved… … for systemic impact!

Example of climate change ADAPTATION with the Steps of Power



1. UNDERSTAND
Deepen awareness

Aïssata lives in Senegal and **notices** that, with rising sea levels, the agricultural land in her coastal village is becoming increasingly salty, making rice cultivation impossible. **Concerned**, she learns that mangroves can slow this erosion and decides to rally her community around the idea.

2. MAKE IT VISIBLE
Share and rally

She **shares her findings and her proposal** with neighbours, family and at community meetings. She **sets up a local collective that raises awareness** among villagers, advocates for mangrove re-planting and **calls on local authorities to act.**

3. ACT
Explore ways to get involved

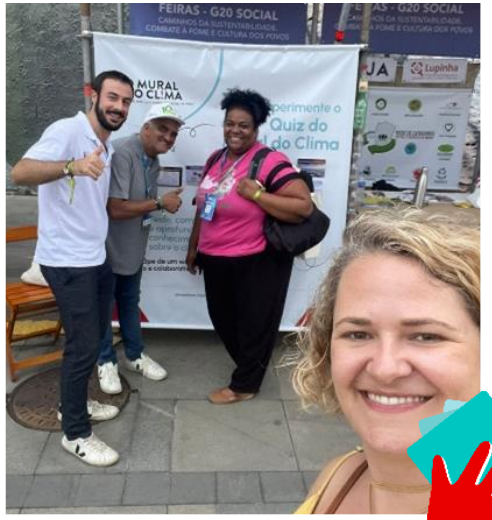
Together with the collective, she **plants mangrove saplings** along the degraded riverbanks. She **trains other villagers** to look after the young mangroves. Finally, she **learns reforestation techniques** and **adapts her farming practices** to lessen the impact of salinisation.

4. EMPOWER ACTION
Built a network

Following the success of the project, **local authorities adapt their environmental policies to include mangrove restoration**. With that support, **other villages adopt the same solutions. Aïssata takes part in climate summits** to showcase their adaptation story.

Make your intention win… … in visibility … … and in ways to get involved… … for systemic impact!











”Never Doubt That a Small Group of Thoughtful, Committed Citizens Can Change the World. Indeed, It’s the Only Thing That Ever Has.”
- Margaret Mead







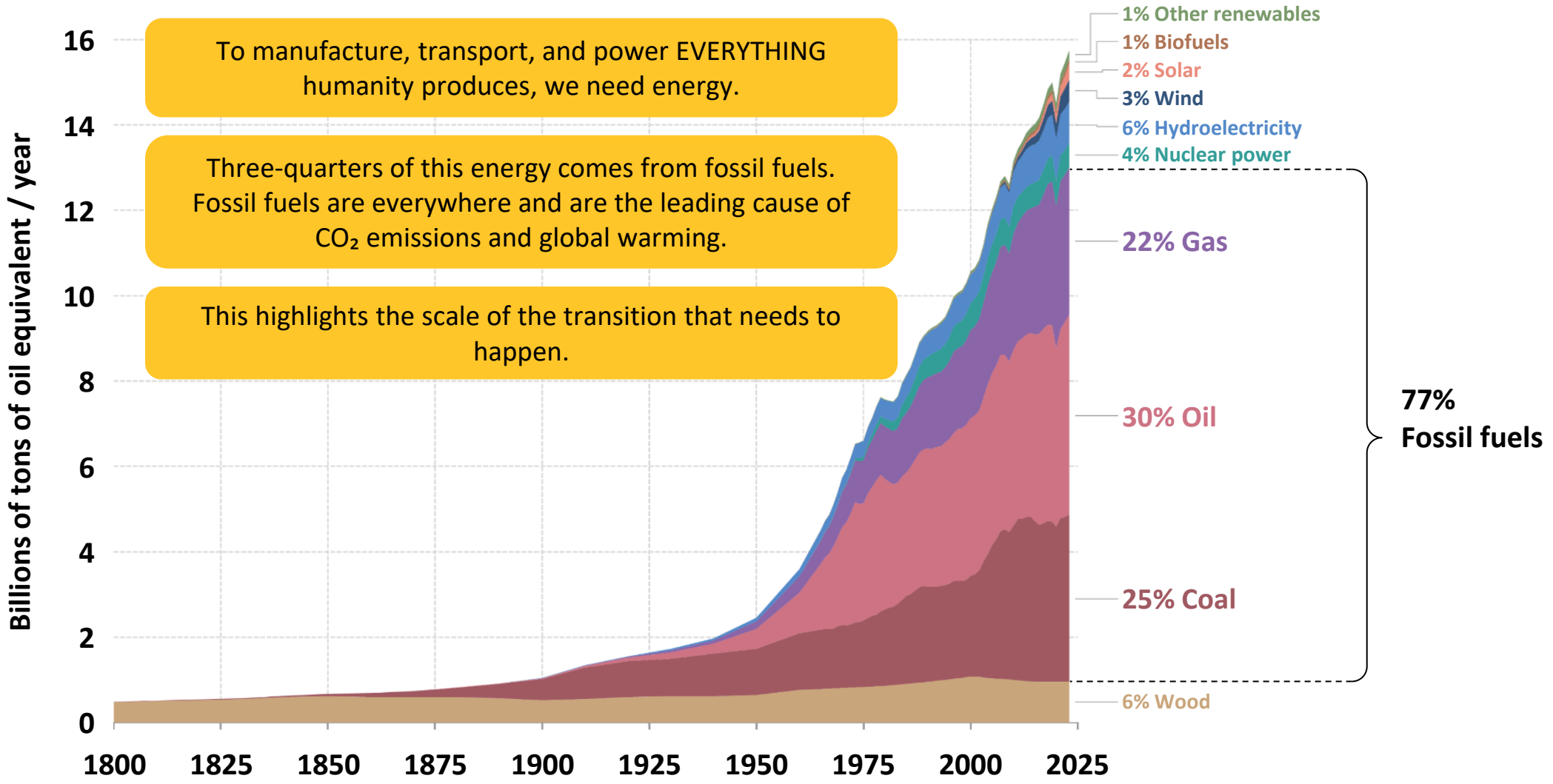


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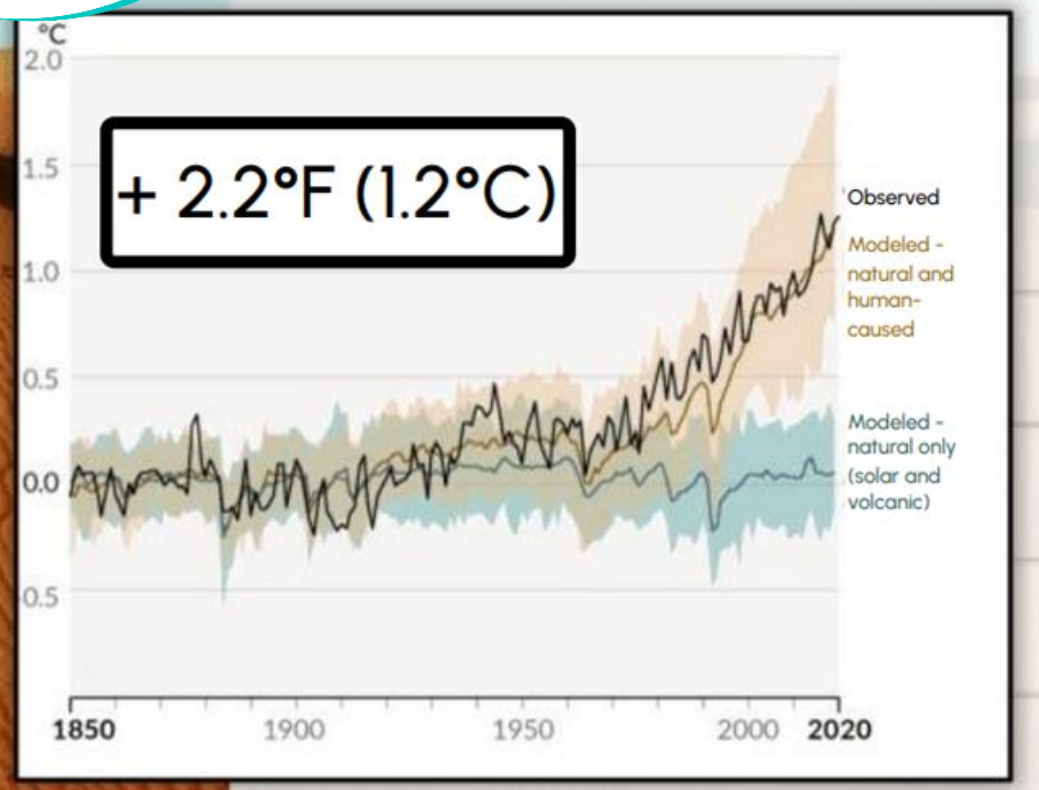
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Data source: Energy Institute - Statistical Review of World Energy (2024); Smil (2017)

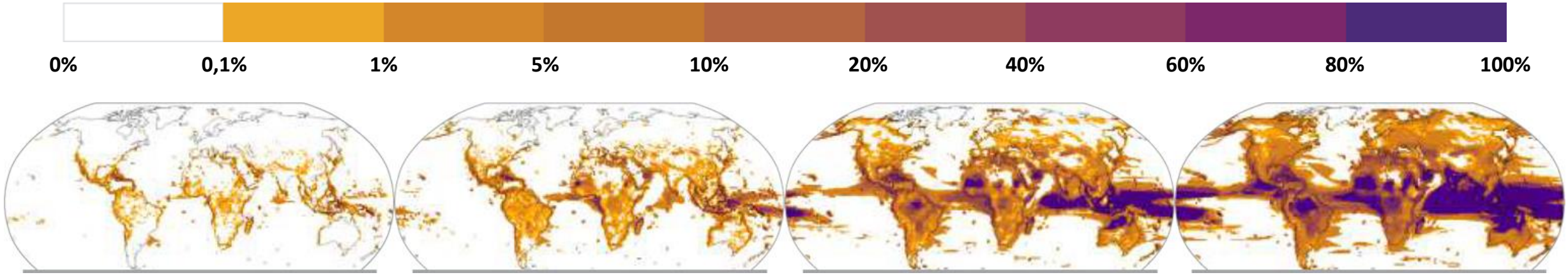
Adapted from OurWorldinData.org/energy | CC BY

CL!MATE FRESK
All the cards are in your hands!



21

RISK OF SPECIES LOSS DUE TO WARMING



Significant warming would lead to a massive loss of animal species, highlighting the urgency of stopping global warming as quickly as possible and keeping it below 2°C.

Every tenth of a degree counts!

Adapted from IPCC synthesis AR6 figure SPM.3

Anger

Fear

Joy

Take 30 seconds on your own:
Identify how you feel when you consider the impacts of climate change.

Disgust

Surprise

Sadness

Global Average Emissions

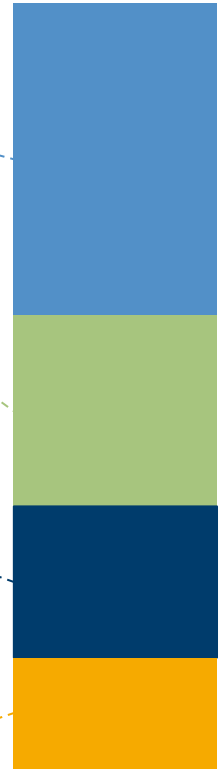
Industry: 3.1 tCO_2e/person/year
Extraction of raw materials and manufacturing of all goods: buildings, furniture, clothing, vehicles, electronics, objects, etc.

Agriculture ≈ Food: 1.9 tCO_2e/person/year
CO_2 from deforestation, followed by methane from livestock, then nitrous oxide from fertilisers used in crop production.

Building Use: 1.5 tCO_2e/person/year
Heating (especially if powered by fossil fuels), electricity consumption (mainly from fossil fuel-based sources), and air conditioning.

Transport: 1.1 tCO_2e/person/year
Transport of people and goods, mainly by road, followed by air travel, shipping, and rail.

7.6 tCO_2e
per person per year



2019

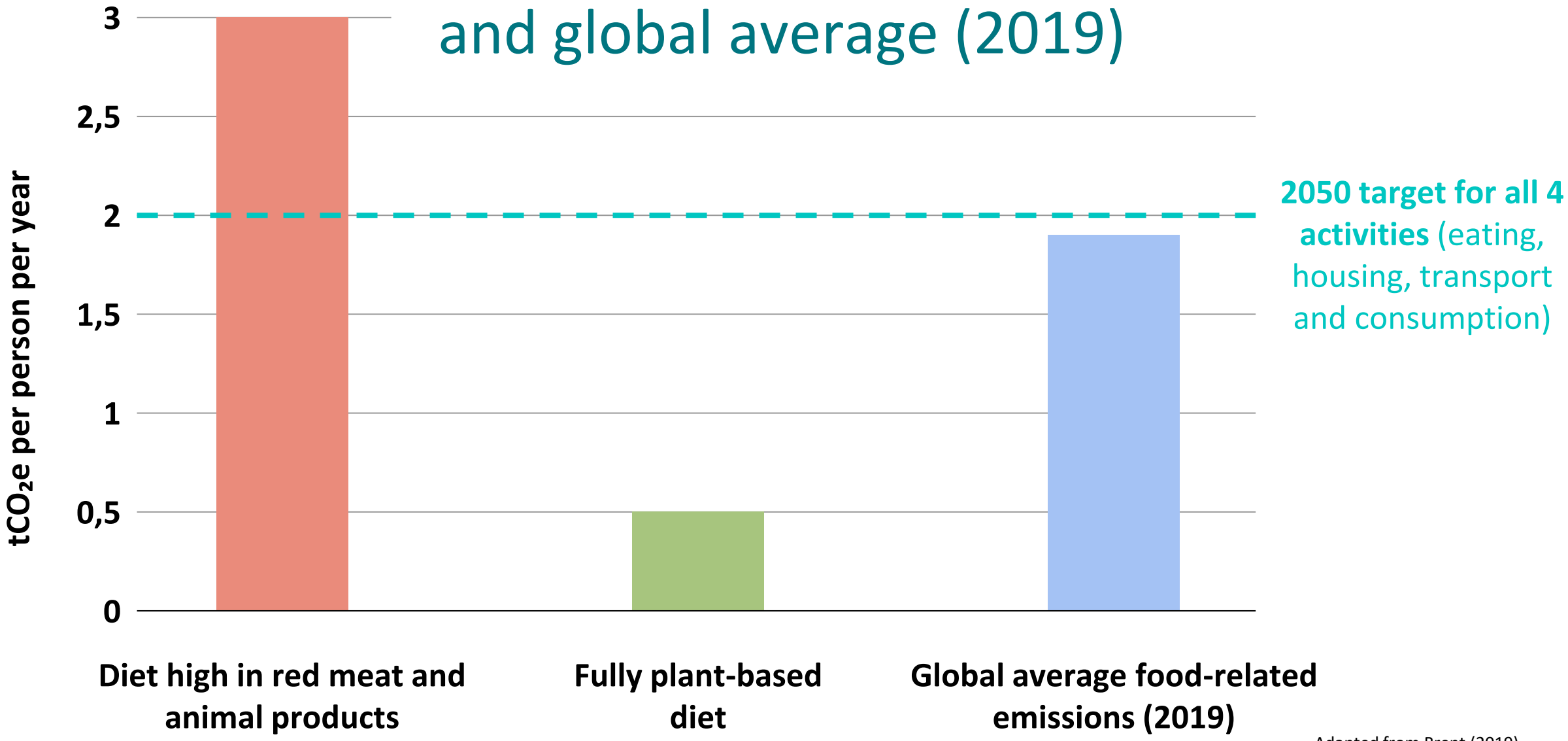
Below 2 tCO_2e
per person per year



2050 Target
to stay below 2 °C

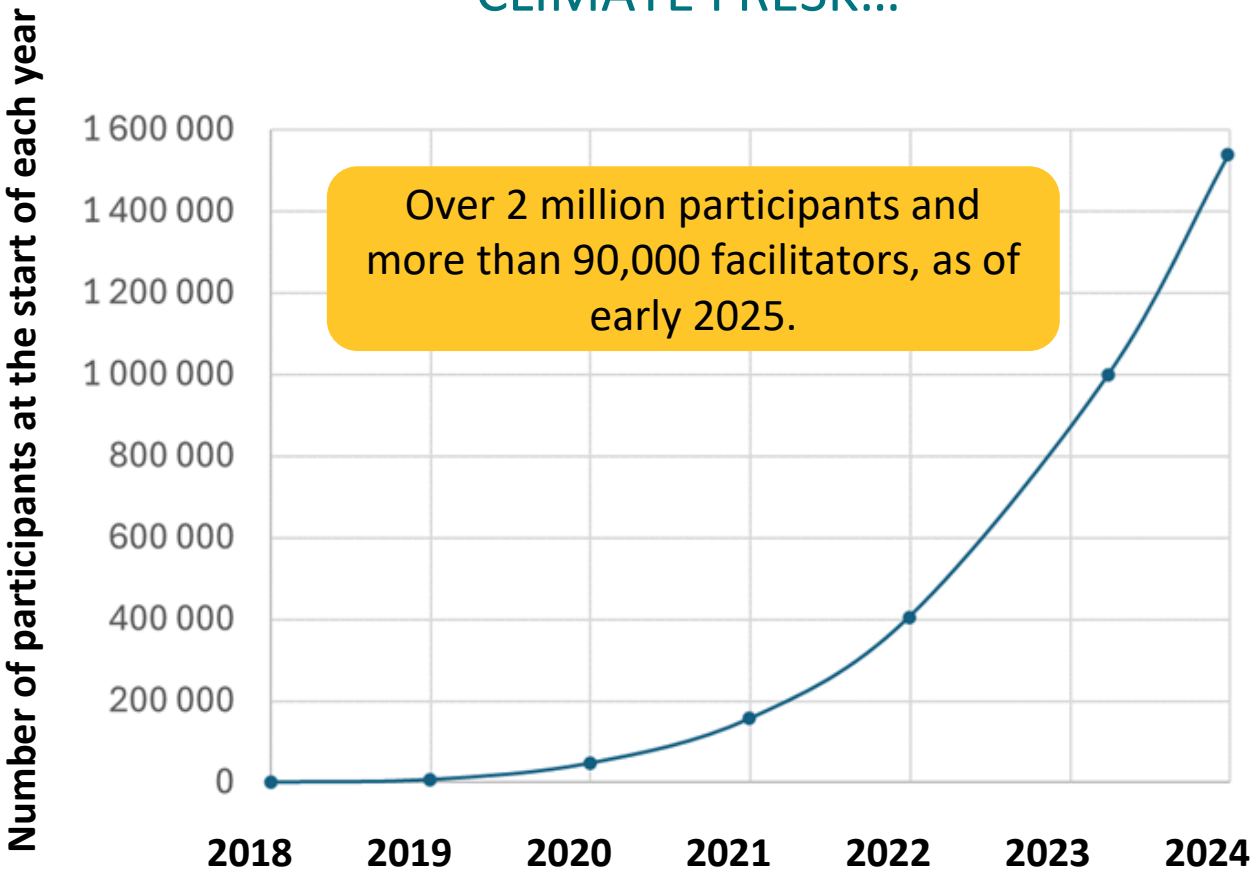
Adapted from IPCC 6th Assessment Report (2019 data)

Emissions from 2 different diets and global average (2019)



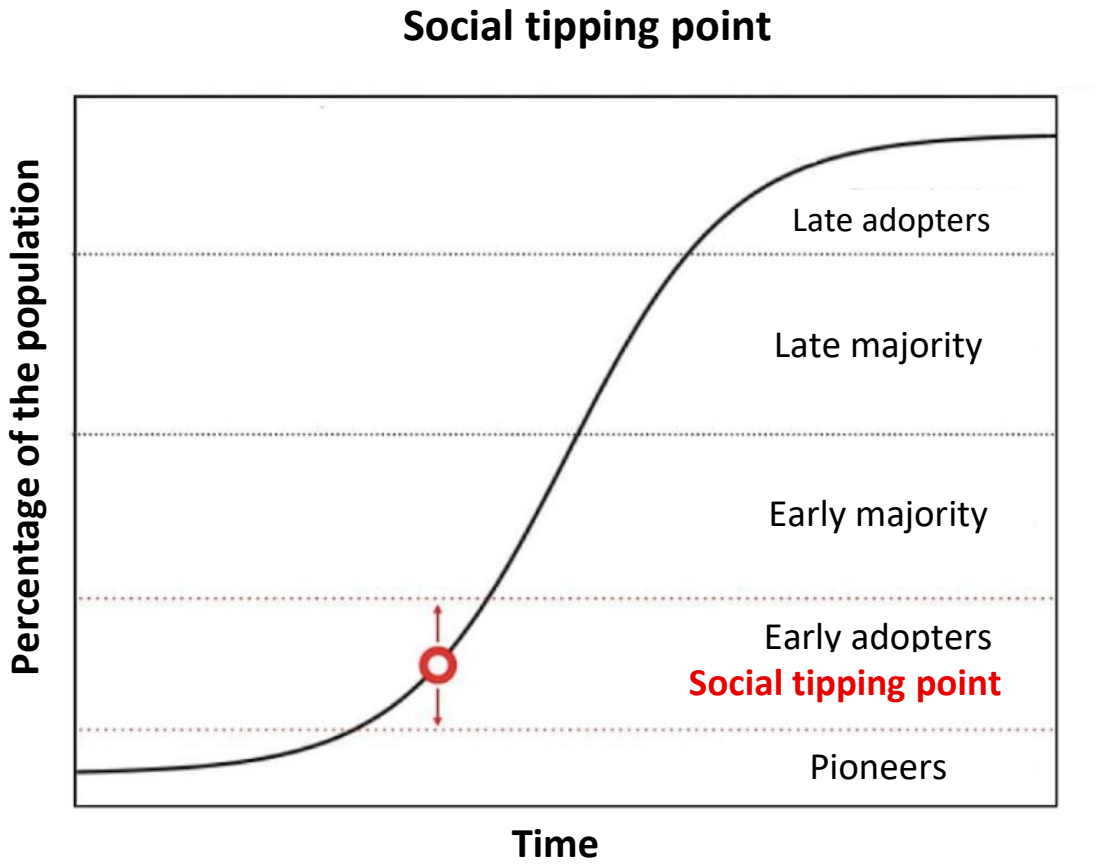
Adapted from Brent (2019).

THE RAPID GROWTH OF THE CLIMATE FRESK…



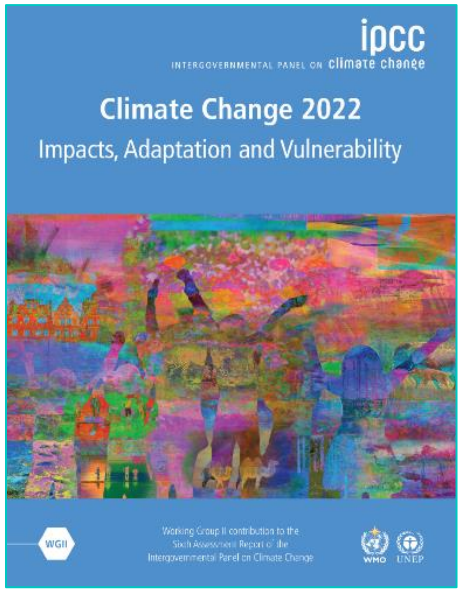
Over 2 million participants and more than 90,000 facilitators, as of early 2025.

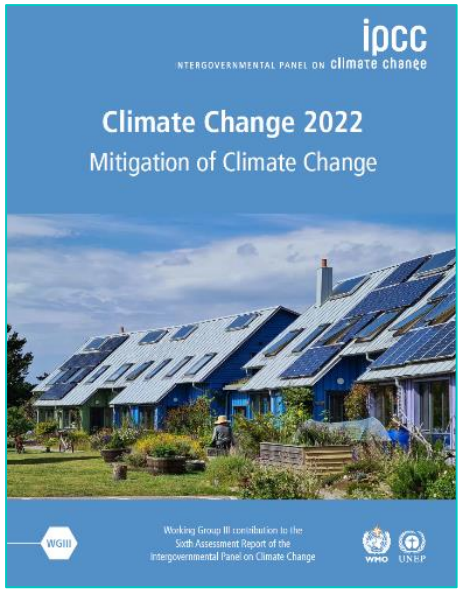
… CAN HELP ACCELERATE THE SHIFT TOWARDS A LIFE-PRESERVING SOCIETY



The actions needed to stop climate change before 2°C and adapt to its impacts are:

KNOWN





POSSIBLE



DESIRABLE



This is outlined in 5,000 pages in the latest IPCC reports, numerous other studies, and, most importantly, real-world examples!

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CLIMATE FRESK

DIGITAL RESPONSIBILITY

For any inquires or support, feel free to reach out to us:

- Webinars request
- Access to learning material
- References to additional modules and resources.

We’ re here to help you continue your learning journey.

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