Meaningful climate action

What does it look like and how can you achieve it?

Kamal Kapadia
Co-founder and Chief Learning Officer

Terra.do
Climate Change School and Community

Meaningful climate action

truth

courageous action

Quick check-in

On a scale of 1-5, how do you feel?

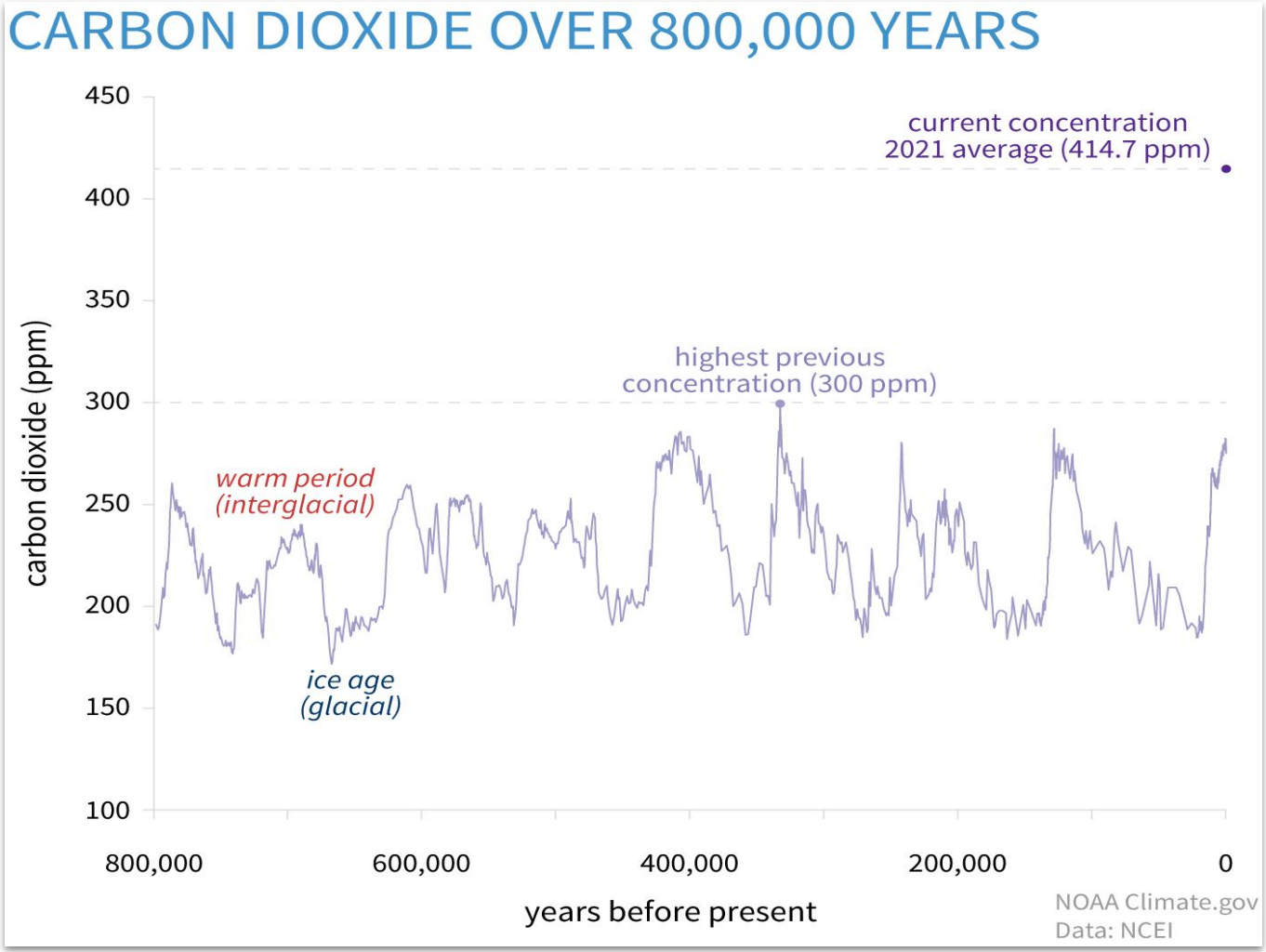
1 = Very relaxed

5 = Very anxious

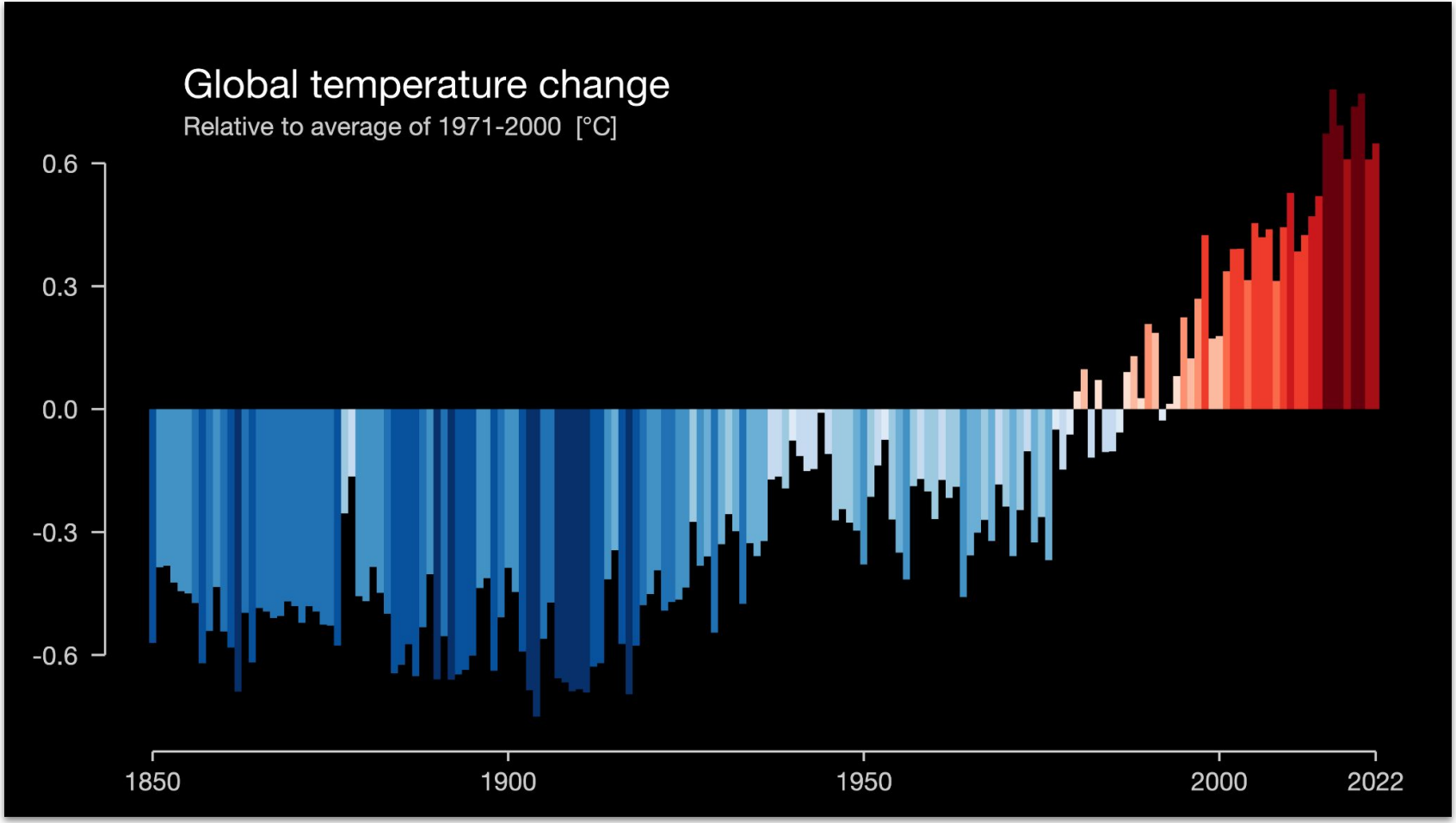
Meaningful climate action

truth

1. Climate change is real and we are the cause

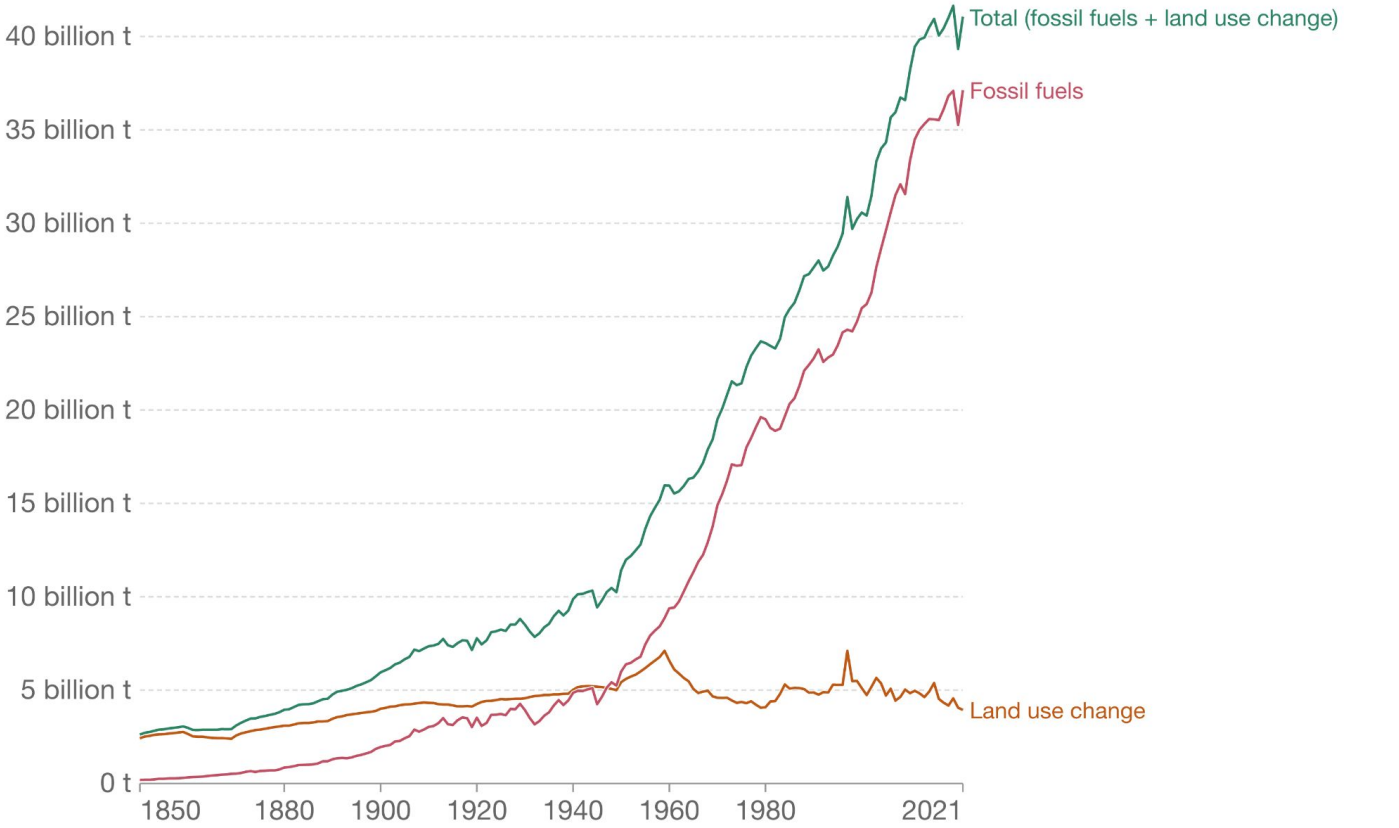

CARBON DIOXIDE OVER 800,000 YEARS
450
400
350
300
250
200
150
100
carbon dioxide (ppm)
current concentration
2021 average (414.7 ppm)
highest previous
concentration (300 ppm)
warm period
(interglacial)
ice age
(glacial)
800,000
600,000
400,000
200,000
0
years before present
NOAA Climate.gov
Data: NCEI

Source: [NOAA]



Source: Show Your Stripes

Global CO_2 emissions from fossil fuels and land use change, World



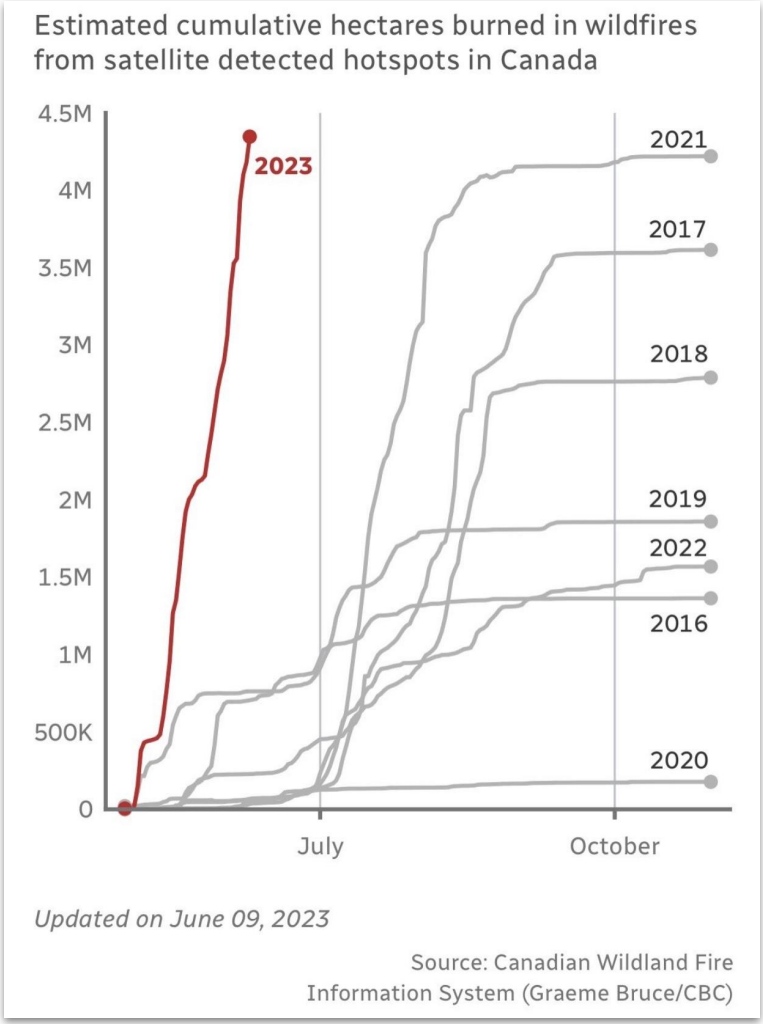
Source: Our World in Data based on the Global Carbon Project (2022) OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY

2. Climate change is here and now

Source: CNN

Photographs by Clark Hodgin for The New Yorker

Source: The New Yorker


Estimated cumulative hectares burned in wildfires from satellite detected hotspots in Canada
4.5M
4M
3.5M
3M
2.5M
2M
1.5M
1M
500K
0
2023
2021
2017
2018
2019
2022
2016
2020
July
October
Updated on June 09, 2023
Source: Canadian Wildland Fire Information System (Graeme Bruce/CBC)

Source: CBC

world weather attribution

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Heavy rainfall which led to severe flooding in Western Europe made more likely by climate change

23 August, 2021

EXTREME RAINFALL

EUROPE

From the 12th to the 15th of July, heavy rainfall associated with cut-off low-pressure system "Bernd" led to severe flooding particularly in the German states North Rhine-Westphalia and Rhineland-Palatinate, as well as in Luxembourg, and along the river Meuse and some of its tributaries in Belgium and the Netherlands.

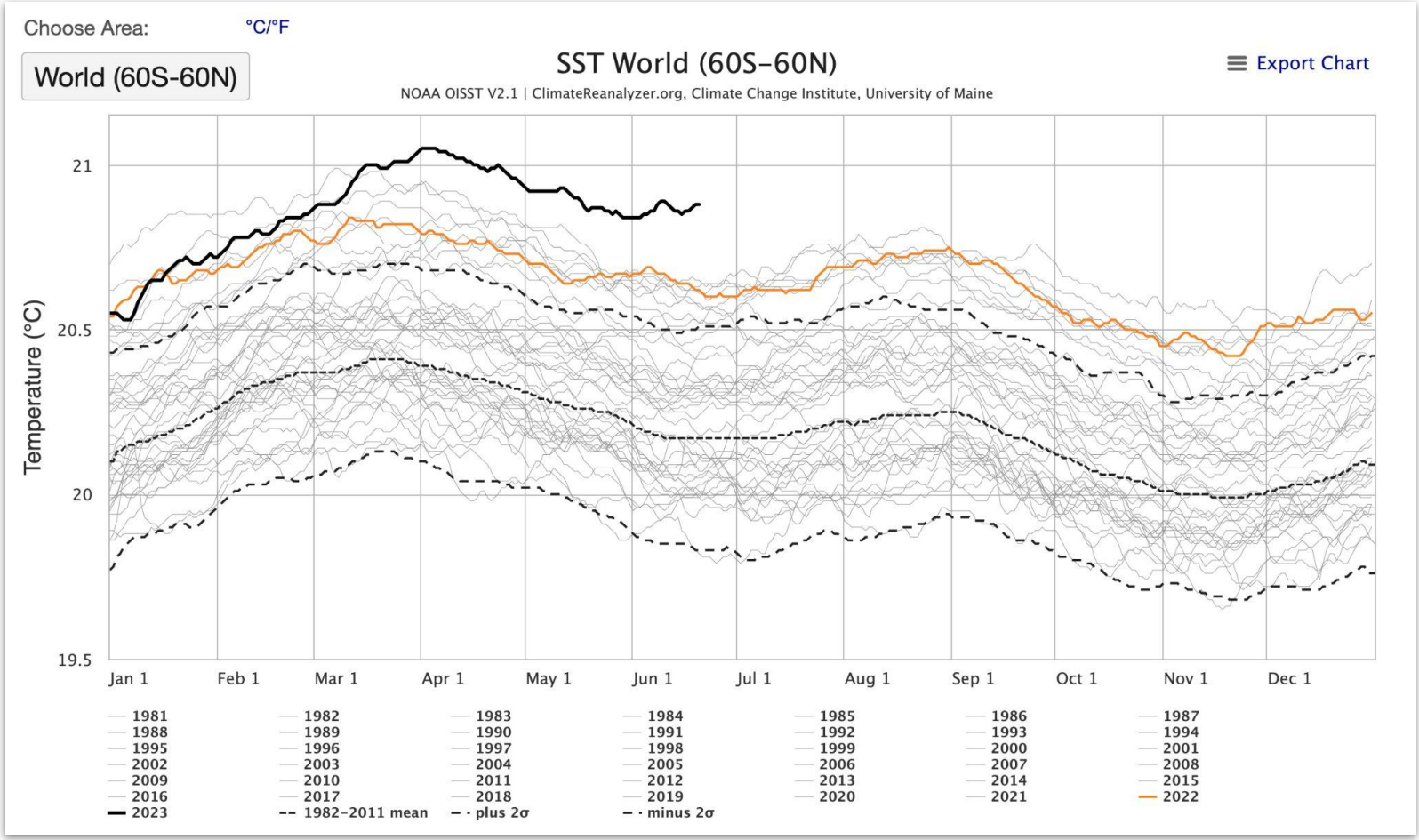
Full study

- Download the full study: Rapid attribution of heavy rainfall events leading to the severe flooding in Western Europe during July 2021, pdf (54 pages, 2.6 MB)

You may also be interested in...

- Limited net role for climate change in heavy spring rainfall in Emilia-Romagna
- The role of climate change in extreme rainfall associated with Cyclone Gabrielle

Source: World Weather Attribution



Source: Climatereanalyzer.org

THE GREAT CLIMATE MIGRATION

By Abrahm Lustgarten | Photographs by Meridith Kohut

"As their land fails them, hundreds of millions of people from Central America to Sudan to the Mekong Delta will be forced to choose between flight or death. The result will almost certainly be the greatest wave of global migration the world has seen."

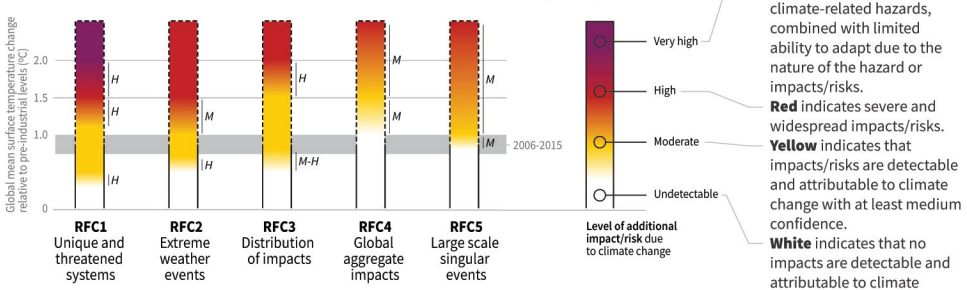
Source: ProPublica and The New York Times Magazine

3. Exceeding 1.5° C of average global warming is dangerous

How the level of global warming affects impacts and/or risks associated with the Reasons for Concern (RFCs) and selected natural, managed and human systems

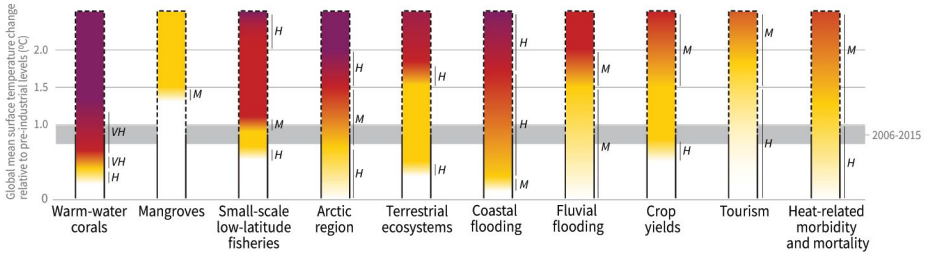
Five Reasons For Concern (RFCs) illustrate the impacts and risks of different levels of global warming for people, economies and ecosystems across sectors and regions.

Impacts and risks associated with the Reasons for Concern (RFCs)



Purple indicates very high risks of severe impacts/risks and the presence of significant irreversibility or the persistence of climate-related hazards, combined with limited ability to adapt due to the nature of the hazard or impacts/risks.
Red indicates severe and widespread impacts/risks.
Yellow indicates that impacts/risks are detectable and attributable to climate change with at least medium confidence.
White indicates that no impacts are detectable and attributable to climate change.

Impacts and risks for selected natural, managed and human systems

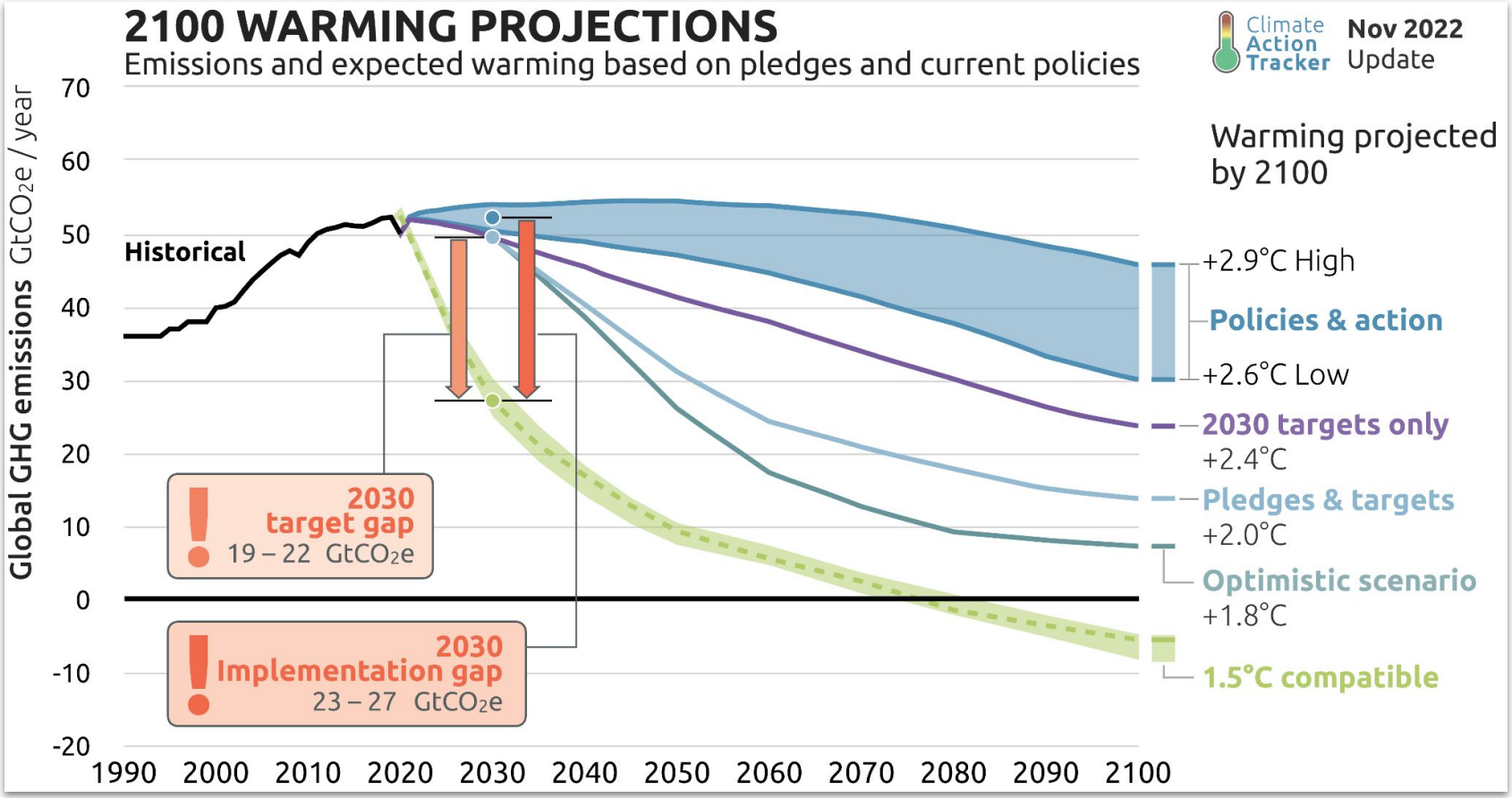


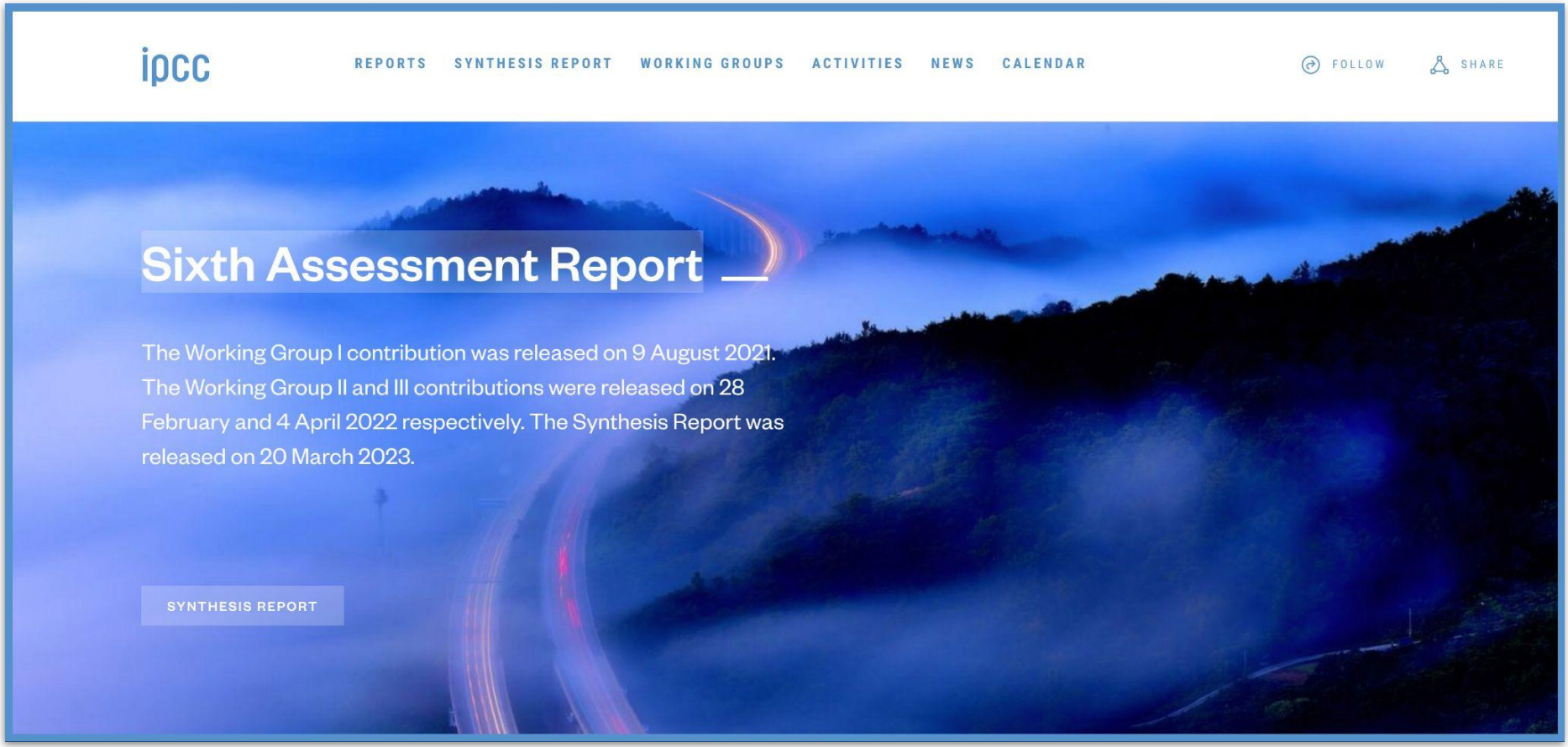
Confidence level for transition: *L*=Low, *M*=Medium, *H*=High and *VH*=Very high

Think of 1.5° C degrees not as an absolute line in the sand, but as a point on a continuum at which we begin to cross into multiple "danger zones."

Graphic source. IPCC's special report on global warming of 1.5 C: figure SPM 2

We are headed for dangerous temp. ranges by 2100




ipcc
REPORTS
SYNTHESIS REPORT
WORKING GROUPS
ACTIVITIES
NEWS
CALENDAR
FOLLOW
SHARE
Sixth Assessment Report
The Working Group I contribution was released on 9 August 2021. The Working Group II and III contributions were released on 28 February and 4 April 2022 respectively. The Synthesis Report was released on 20 March 2023.
SYNTHESIS REPORT

Quick check-in

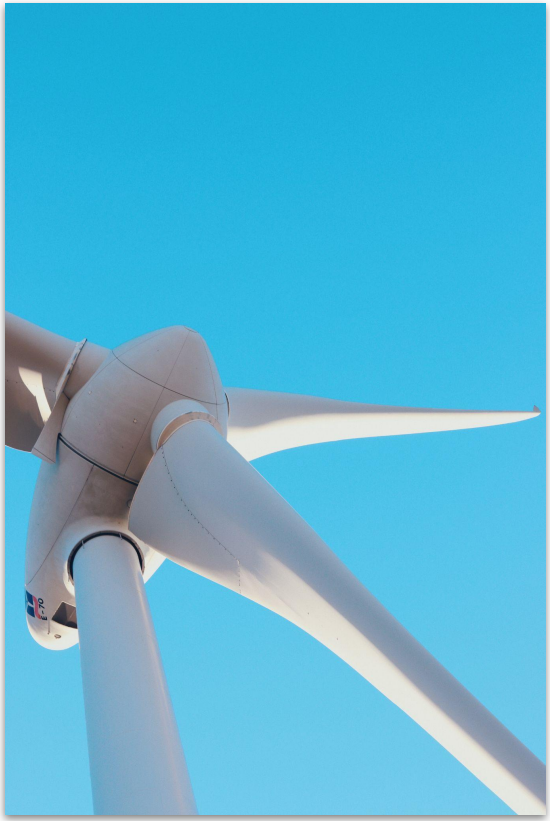
On a scale of 1-5, how do you feel?

1 = Very relaxed

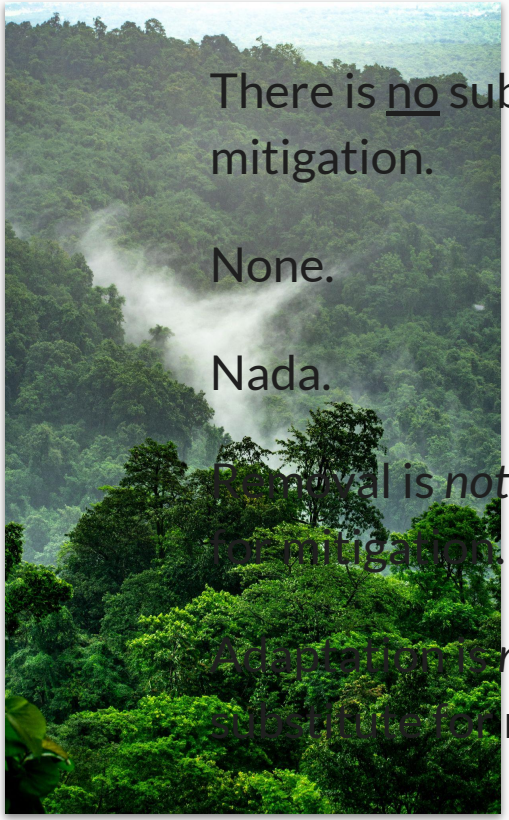
5 = Very anxious

Truth, Part 2:
Solutions

Mitigation



Removal



Adaptation

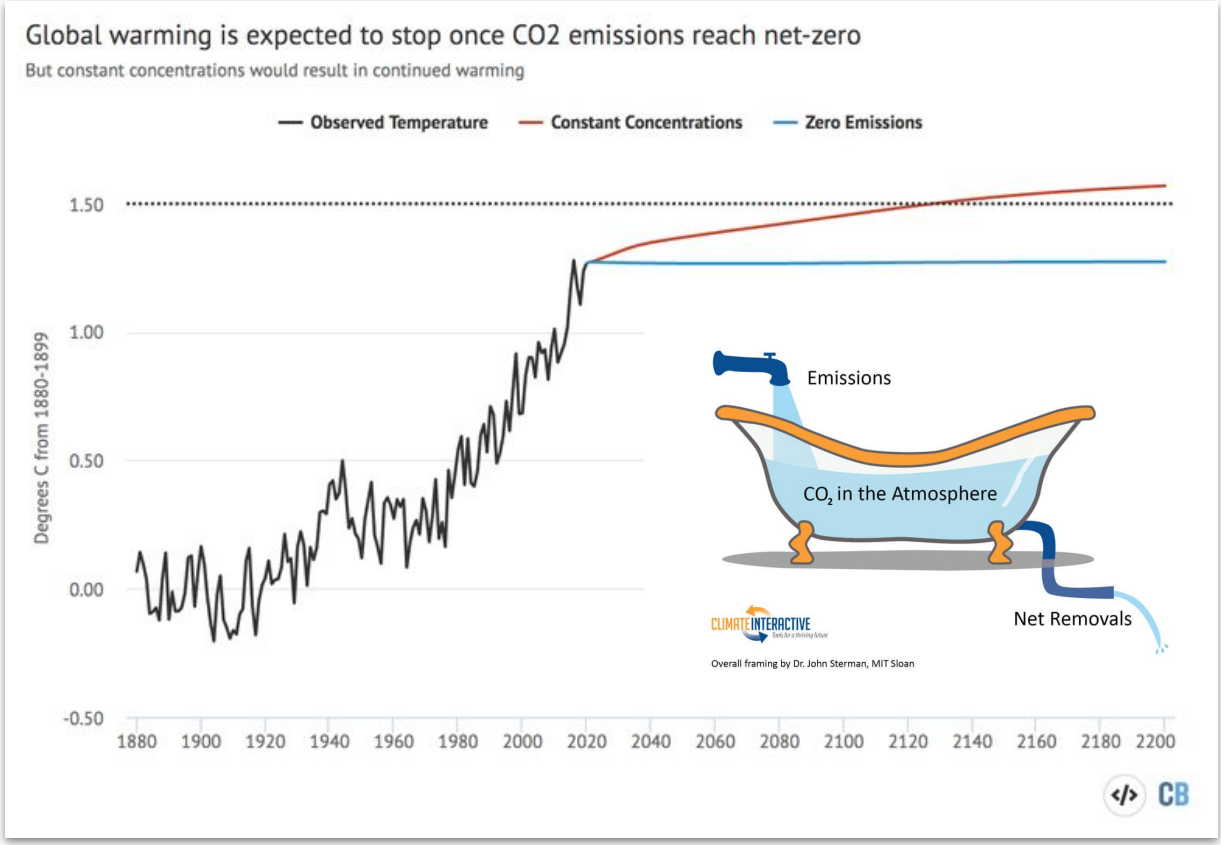
Photos: Bruno Figueiredo, Boudhayan Bardhan and Jamison Cameron on Unsplash

There is *no substitute* for rapid emissions reductions…

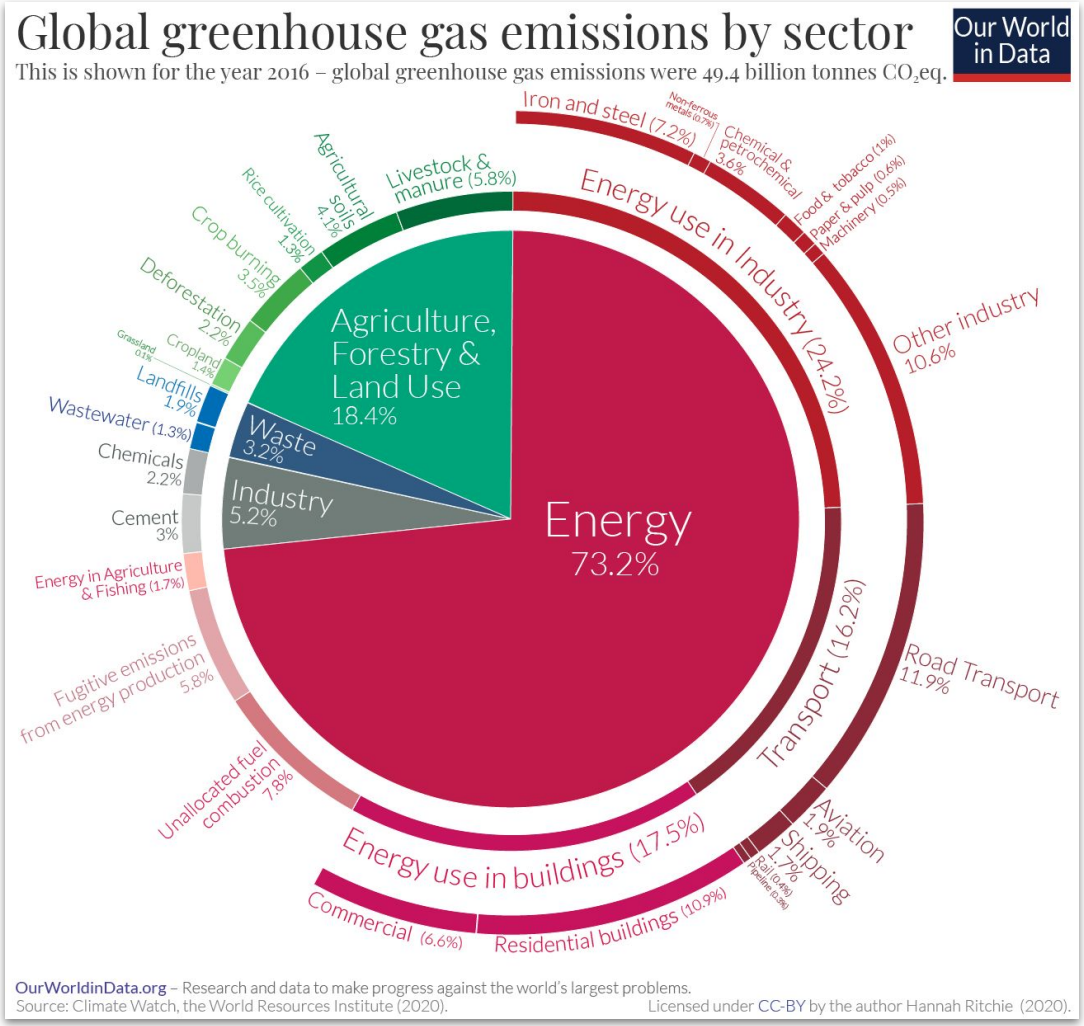
…and now is vastly preferable to later.

We have to get to *zero or net-zero emissions* globally to stop global warming.

Net zero = eliminate almost all (>90%) emissions + remove the rest



Source. Carbon Brief

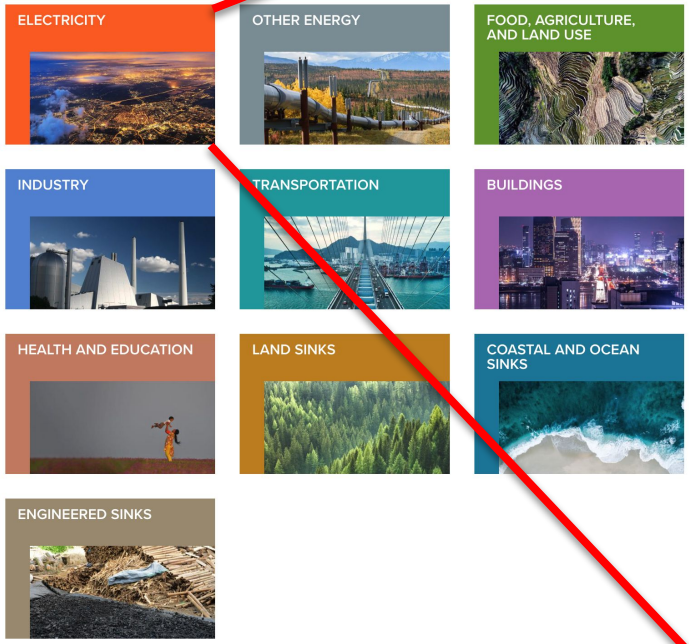


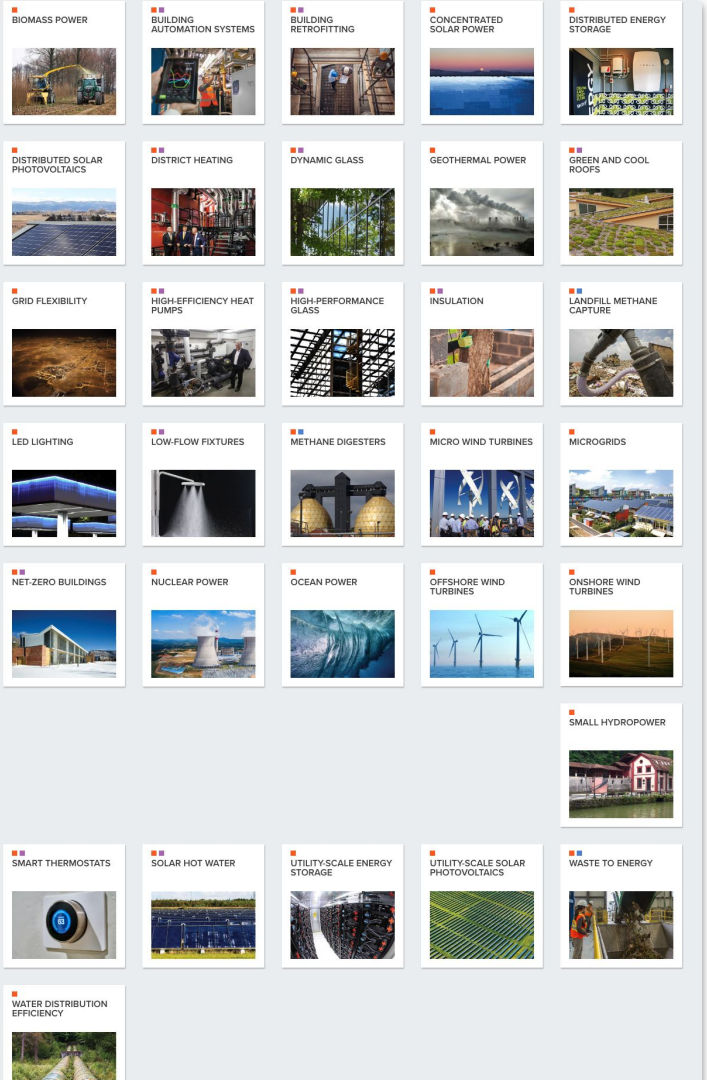
Source. [Our World in Data]

We have all the solutions

CLIMATE SOLUTIONS BY SECTOR

Within each of these sectors are solutions to climate change with actions that can be taken today.





Source. [Project Drawdown]

Solutions are not just about sectors

- Different mental models for thinking about solutions
- Cross-cutting levers are incredibly important:
  - politics & activism, policies, laws & regulation, finance, corporate sustainability, communications, education
- *Justice* is incredibly important
- “Multisolving” is a useful mental model (Elizabeth Sawin)

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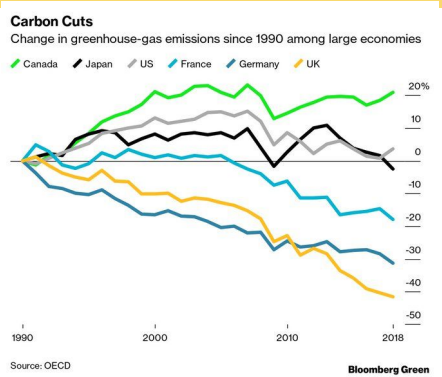
Every job is a climate job

Climate change is remaking the global economy

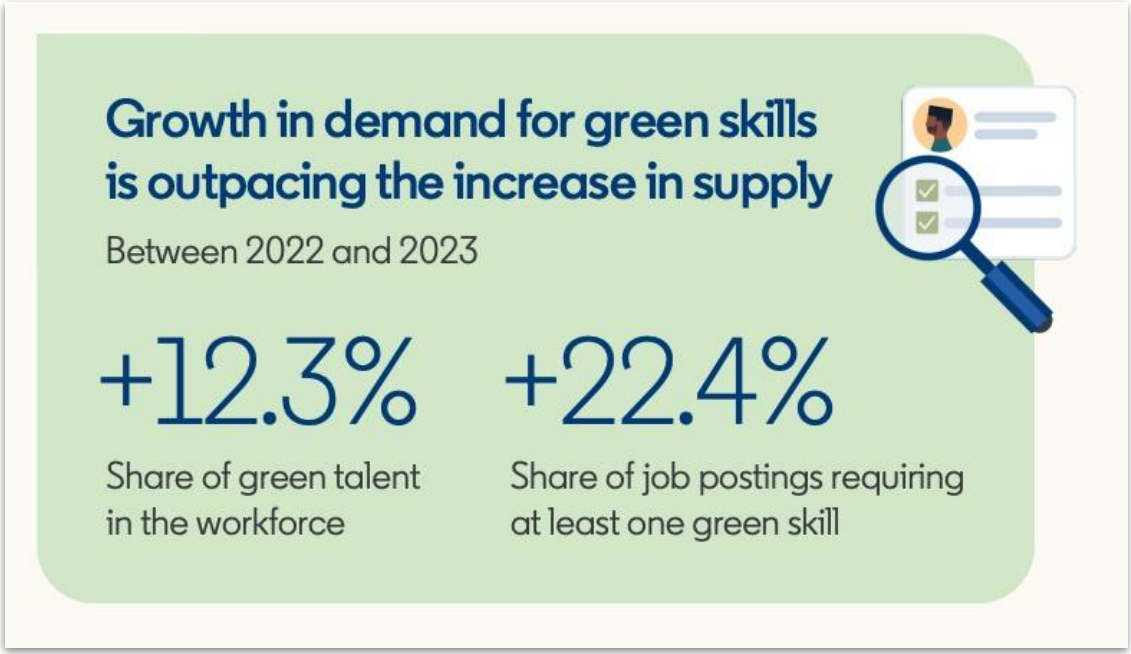
Sector	% Global GDP	Source of disruption
Energy	11%	Renewables
Construction	11%	Building energy efficiency standards Sustainable material mandates
Transport	10%	Electric Vehicles Zero-carbon fuels
Industrials	10%	Circularity Carbon removal
Agriculture and land management	9%	Plant-based proteins Forestry and conservation Regenerative farming Need for resilience
Finance	9%	Physical asset risk ESG

From industry and finance...

To entire economies...



The green economy faces large talent bottlenecks



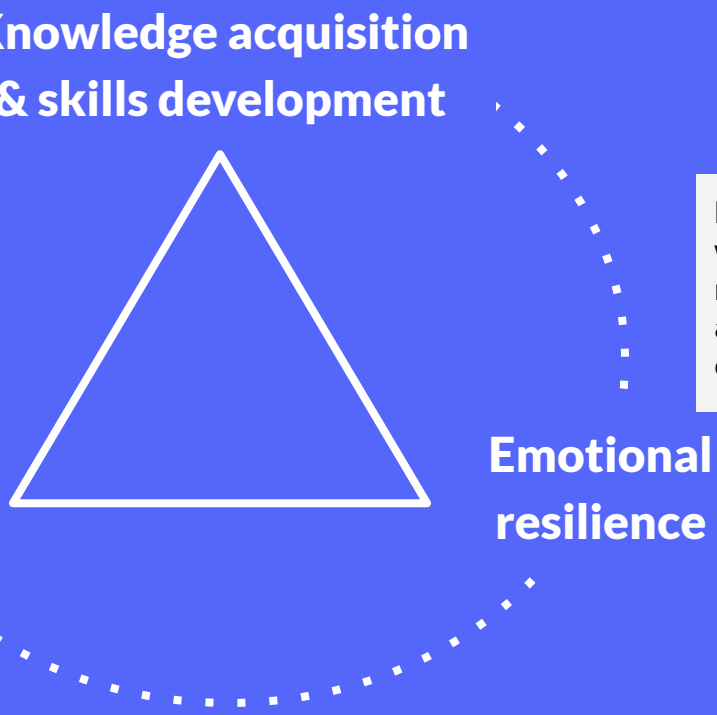
Source. LinkedIn Global Green Skills Report 2023

Terra.do is the world's largest platform upskilling talent for the green economy.

Our Mission: Get 100M people to work directly on solving climate change by 2030.

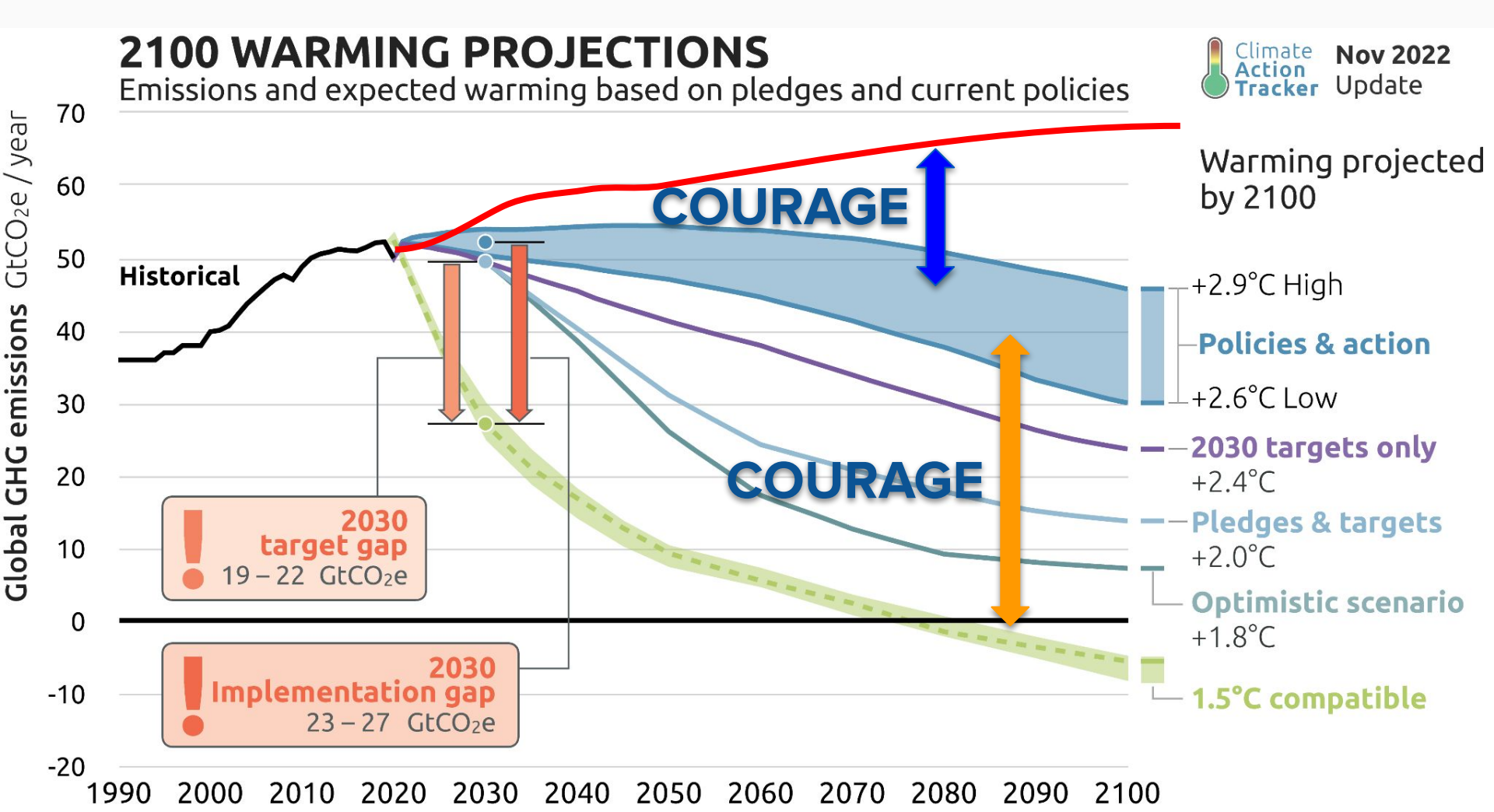
Our learning for action model

For an individual to be inspired to action, they need to understand what needs to be done and know how to do it.



Helps sustain doing the work when personal or macro-economic obstacles and challenges of addressing climate change emerge.

Connection with experts and practitioners both within the organisation and outside.


2100 WARMING PROJECTIONS
Emissions and expected warming based on pledges and current policies
Climate Action Tracker
Nov 2022 Update
Global GHG emissions GtCO2e / year
70
60
50
40
30
20
10
0
-10
-20
1990
2000
2010
2020
2030
2040
2050
2060
2070
2080
2090
2100
Historical
COURAGE
COURAGE
2030 target gap
19 – 22 GtCO2e
2030 Implementation gap
23 – 27 GtCO2e
Warming projected by 2100
+2.9°C High
Policies & action
+2.6°C Low
2030 targets only
+2.4°C
Pledges & targets
+2.0°C
Optimistic scenario
+1.8°C
1.5°C compatible

Learning for Action

A global, online climate bootcamp for professionals

McKinsey & Company · andreessen horowitz · HSBC · Google · Meta · slack · Apple · amazon · NIKE · Unilever · The Economist · IDEO · Bill & Melinda Gates Foundation · The World Bank · Sunrise Movement · Dalberg · ReNew Power · 香港紅十字會 Hong Kong Red Cross · Harvard University · Stanford University · Penn · Berkeley · University of Oxford · University of Cambridge

15
Graduated cohorts

1500+
Graduates

9.3
Avg. course rating

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Action: What will *your* story be?

The year is 2045 and the world has successfully solved climate change. *You* are one of many heroes of this great transition and *your story* was inspiring to millions. You have been invited to share this story at a massive global Terra.do conference; Terra.do is now the world's leading online platform for climate action and learning, with 300 million subscribers globally.

What is one courageous act that will be part of your story?

- Go beyond your comfort zone and face one difficult truth about yourself, your organization, your sector (in the context of climate action)
- Not something you've already done but something you will do
- Use your imagination; think of courageous people you admire and their stories

Thank you!
terra.do