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This version is for teens aged around 14-18



**extinction
rebellion**

WELCOME TO

PROTECTING OUR PLANET

(AND WHAT WE CAN DO)

Aims of this talk

PART 1

**THE PLANETARY
PROBLEM**

PART 2

**WHAT WE NEED
TO DO**

Aims of this talk

PART 1

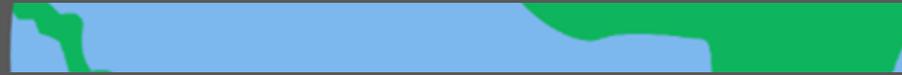
**THE PLANETARY
PROBLEM**

The earth is our only life support system

We depend on it for our survival



We depend on its climate

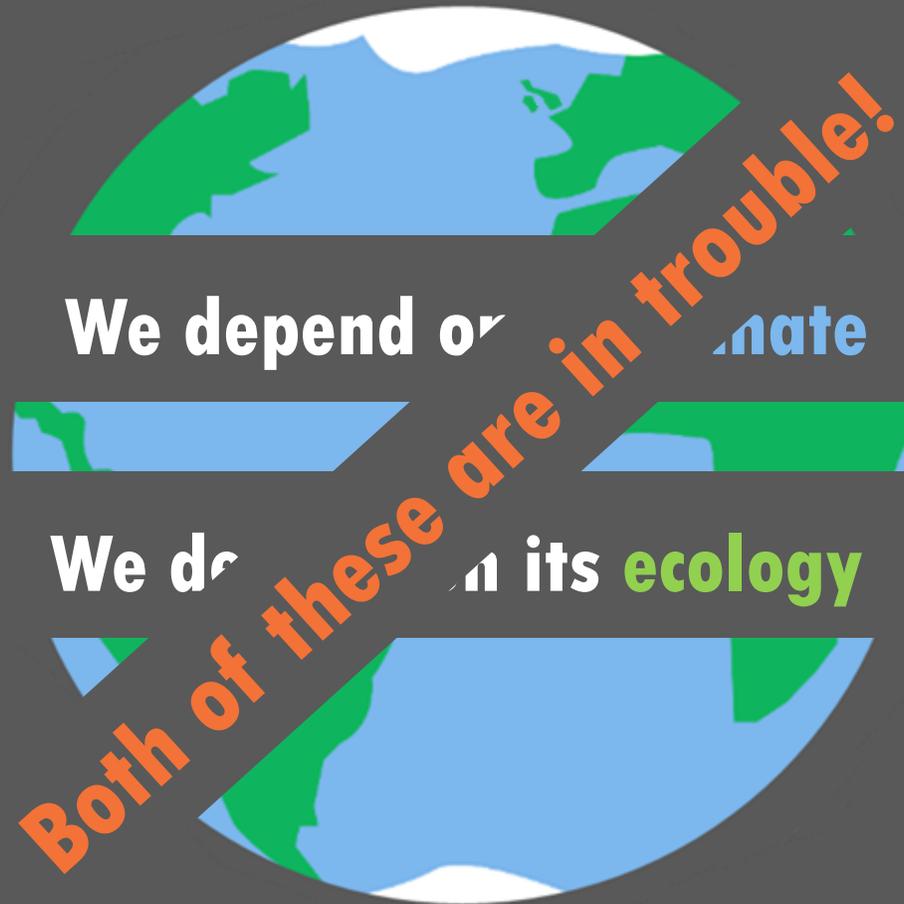


We depend on its ecology



The earth is our only life support system

We depend on it for our survival



First let's look at climate



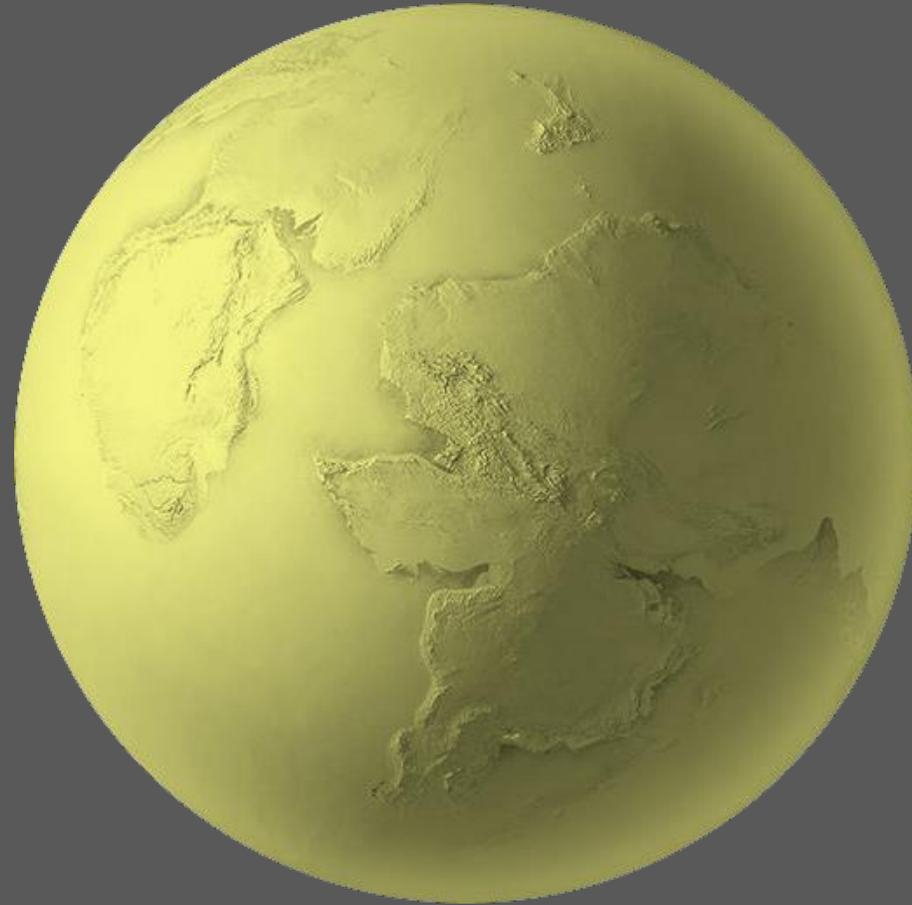
What stops us being a ball of ice?



What stops us being a ball of ice?



The sun's energy
warms us



What stops us being a ball of ice?



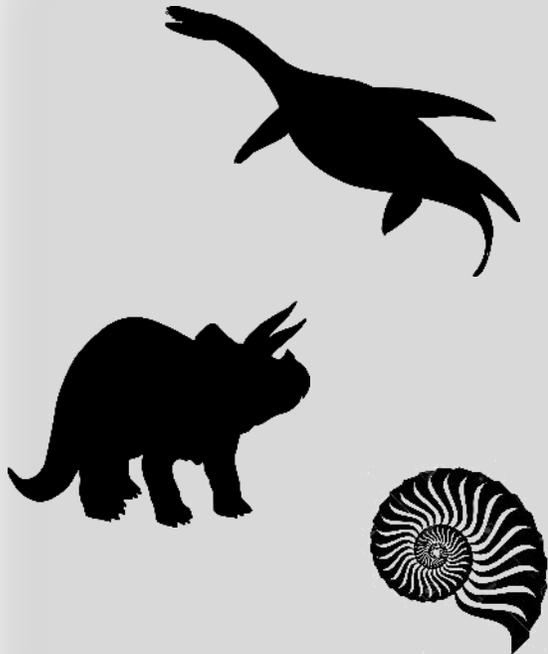
The sun's energy
warms us



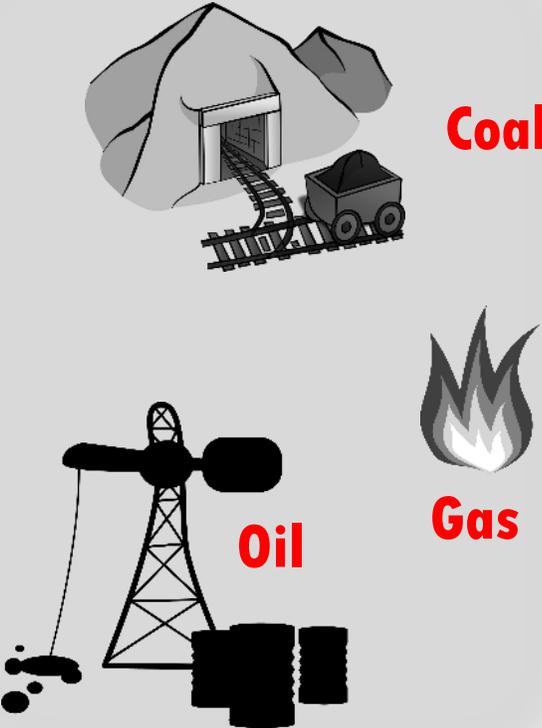
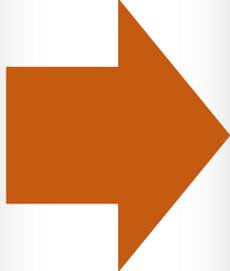
Carbon dioxide (CO_2) in the atmosphere traps the heat (*greenhouse effect*) and keeps the climate temperate

Water remains mostly liquid and life can flourish

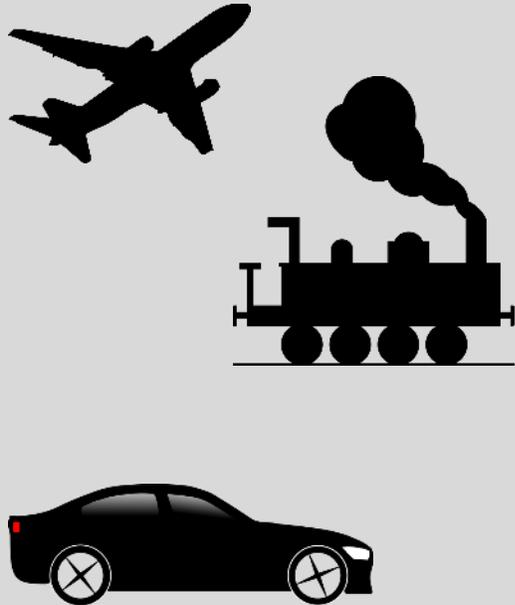
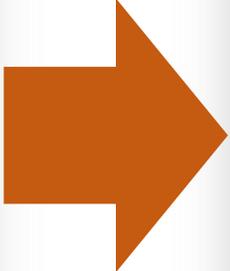
Around 150 years ago the industrial revolution began



Fossils



Fossil fuels

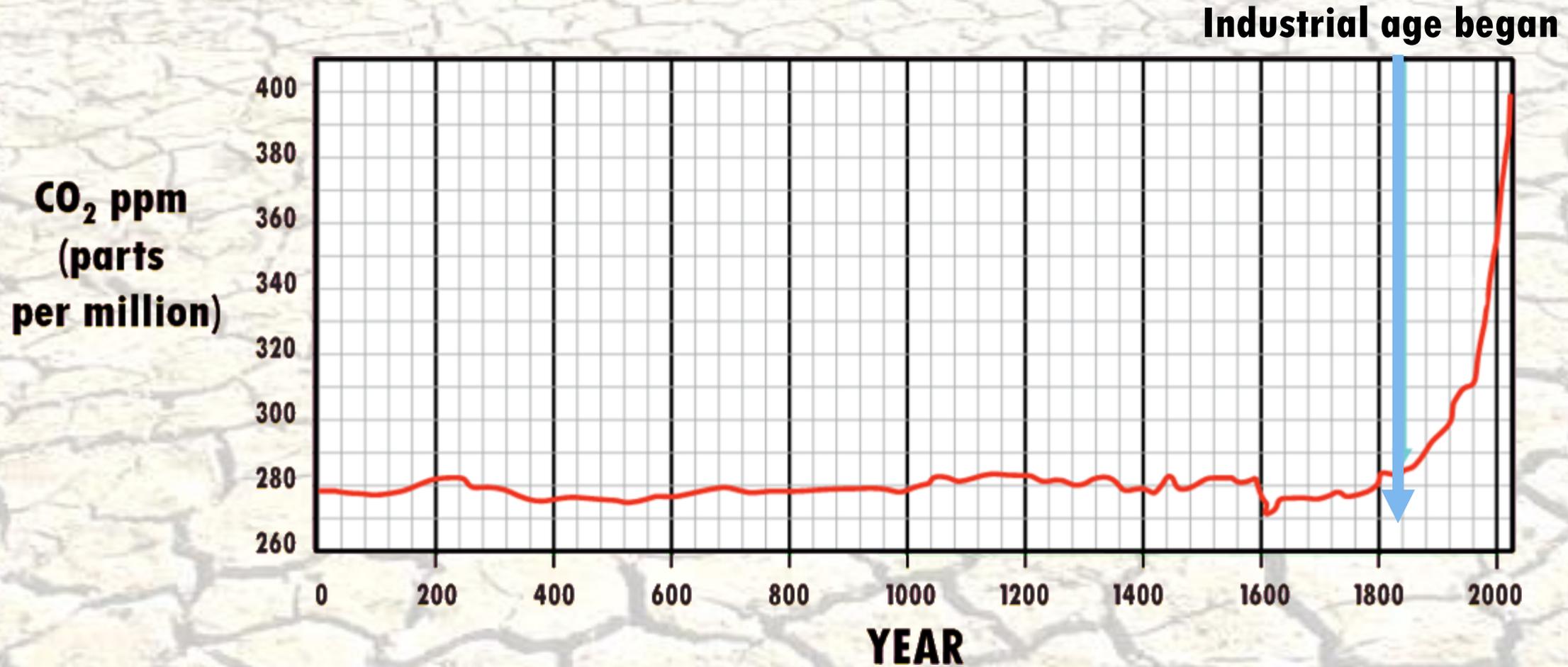


Machines

In burning fossil fuels we have been pouring CO₂ into the air and the Earth is getting hotter – enhancing the greenhouse effect

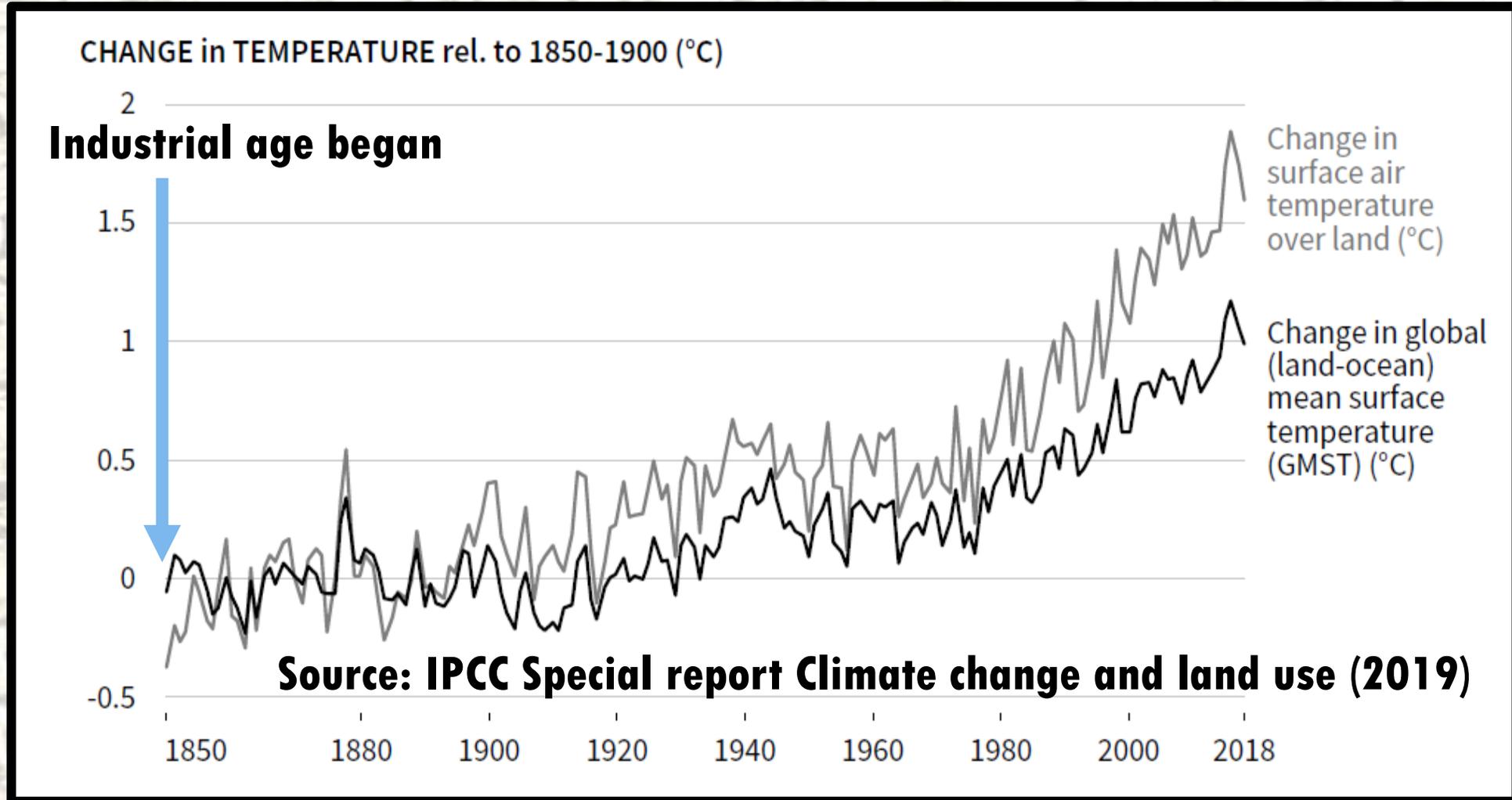


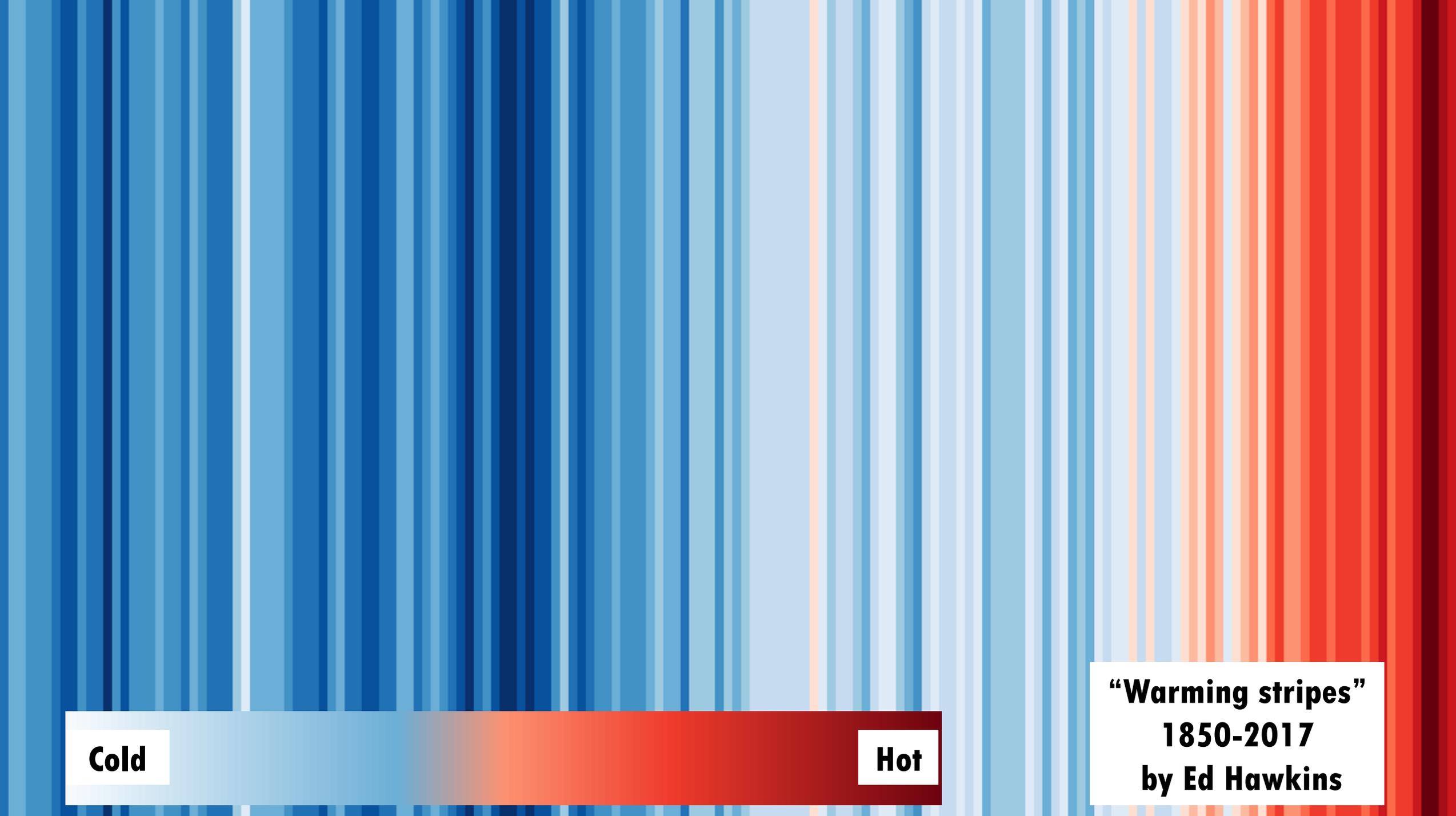
Greenhouse gas levels are skyrocketing



Graph adapted from <https://nas-sites.org/americasclimatechoices/more-resources-on-climate-change>

This is how fast Earth's temperature is rising



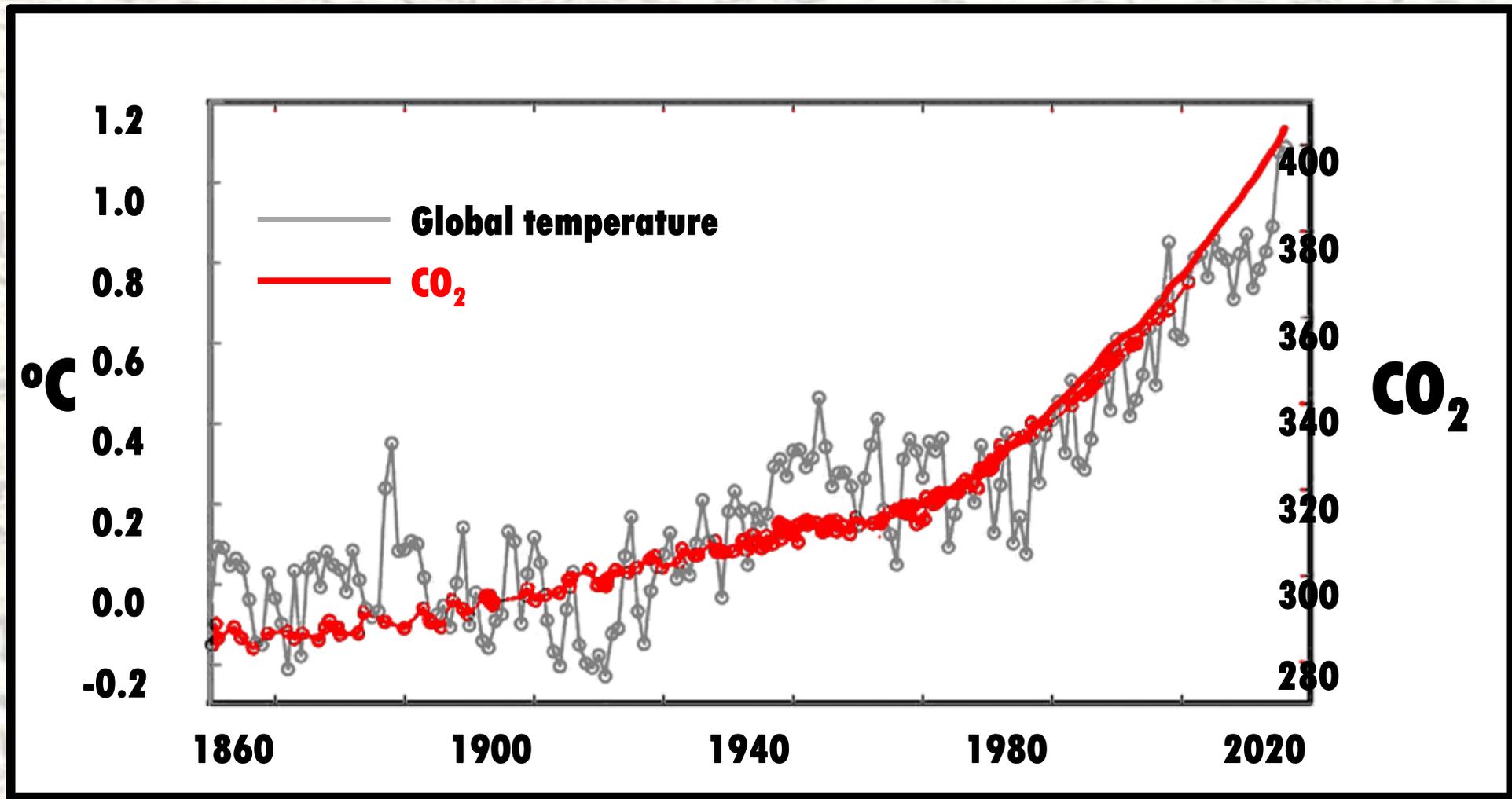


Cold

Hot

**“Warming stripes”
1850-2017
by Ed Hawkins**

Temperature and CO₂ are rising together

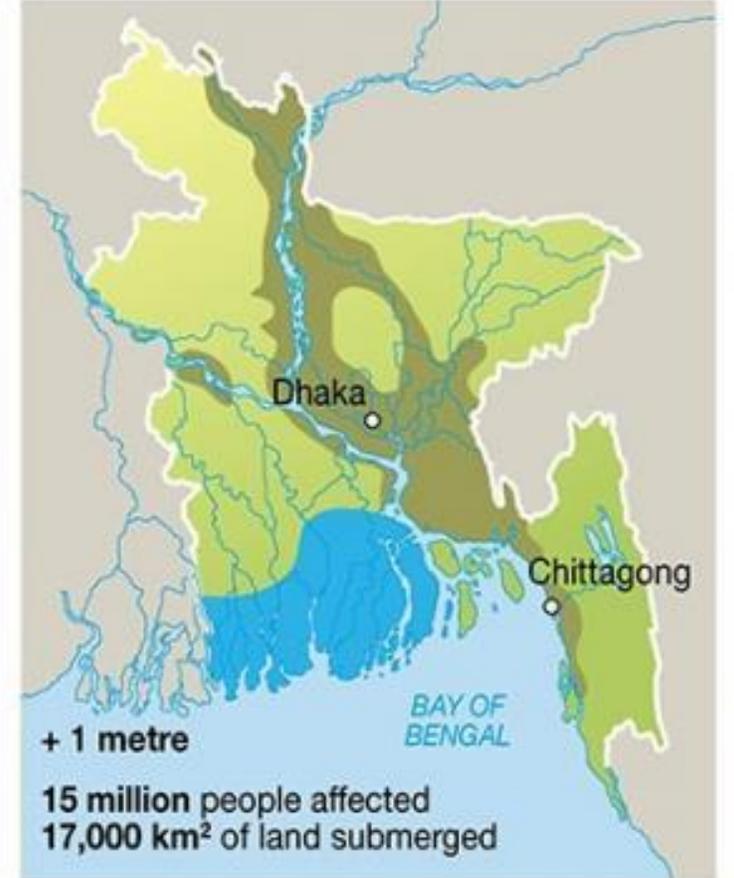
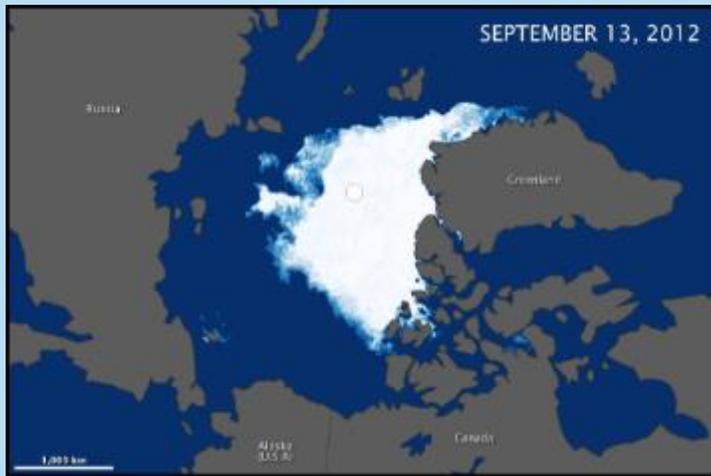
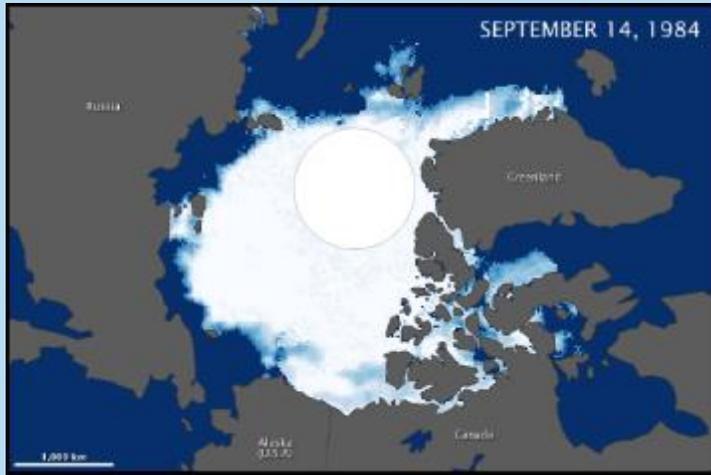


Adapted from Henley and Abram, <http://tiny.cc/tdqeez>

A hot Earth has more storms, droughts, floods and wildfires



A hot Earth also has less ice and higher sea levels



Bangladesh by ~2100 will lose much of its land

Crops don't flourish

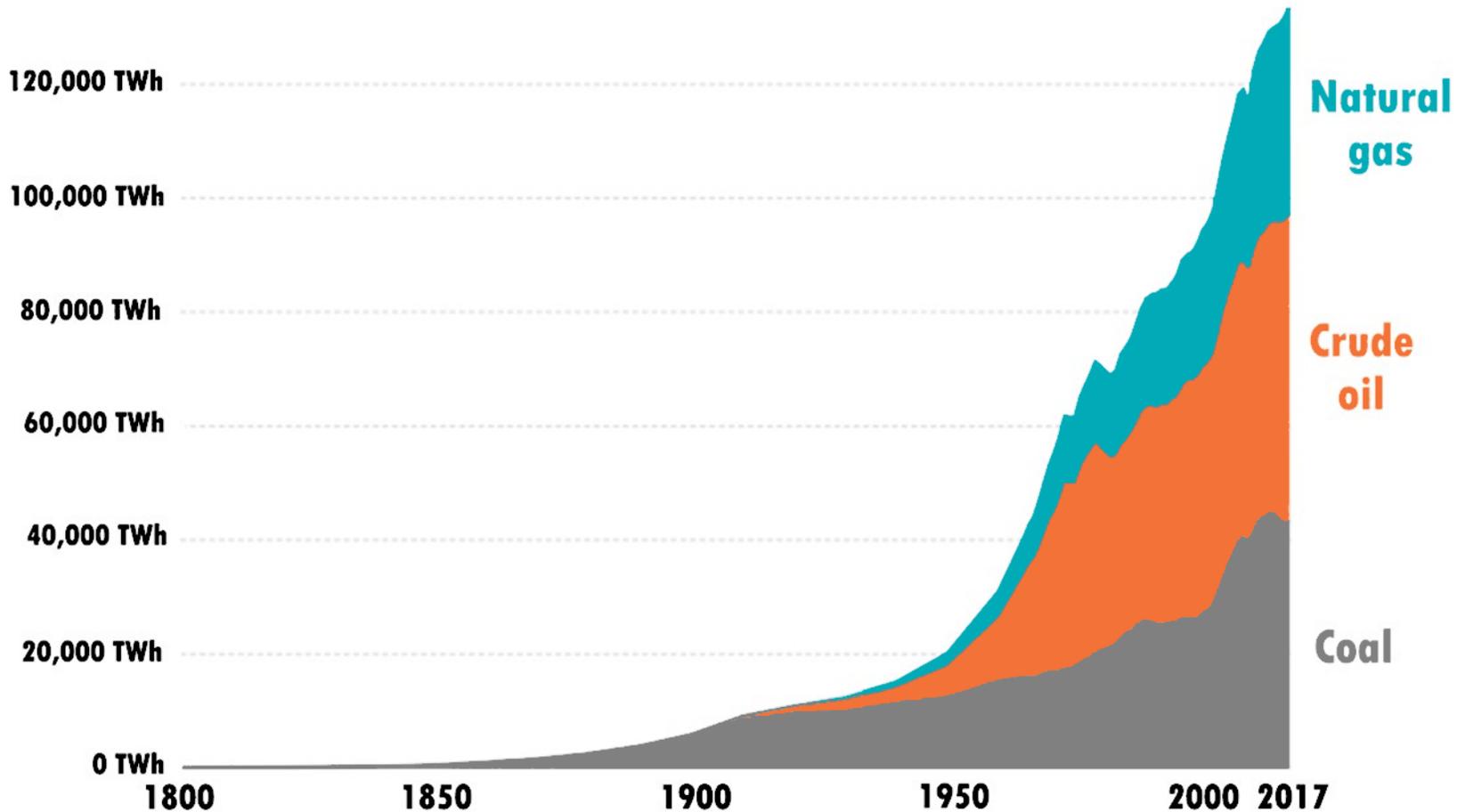


**Some parts of the world become hard to live in
and people are forced to leave their homes**



Although we have known about these problems for 40 years, we are burning ever-more fossil fuels

Global primary energy consumption by fossil fuel source, measured in terawatt-hours (TWh)



Source: Vaclav Smil (2017) Energy transitions: Global and National Perspective & BP Statistical review of World Energy

Now let's look at ecology

**We are not alone:
we are part of a
rich collection of
living things on
the Earth**



**We depend on
these other living
things for our air,
food and quality
of life**

Our cities are destroying wilderness and polluting land, sea and air



High intensity agriculture destroys ecosystems and produces warming greenhouse gases such as CO₂ and methane



To make room for all this we destroy vast stretches of forest



We are also covering the earth in plastic and toxic waste



Oceans are equally vital to our survival



**Oceans regulate the atmosphere and
supply much of our food**

supply much of our food

Oceans regulate the atmosphere and

We are emptying the oceans of fish



CO₂ acidifies the oceans and warm water destroys corals



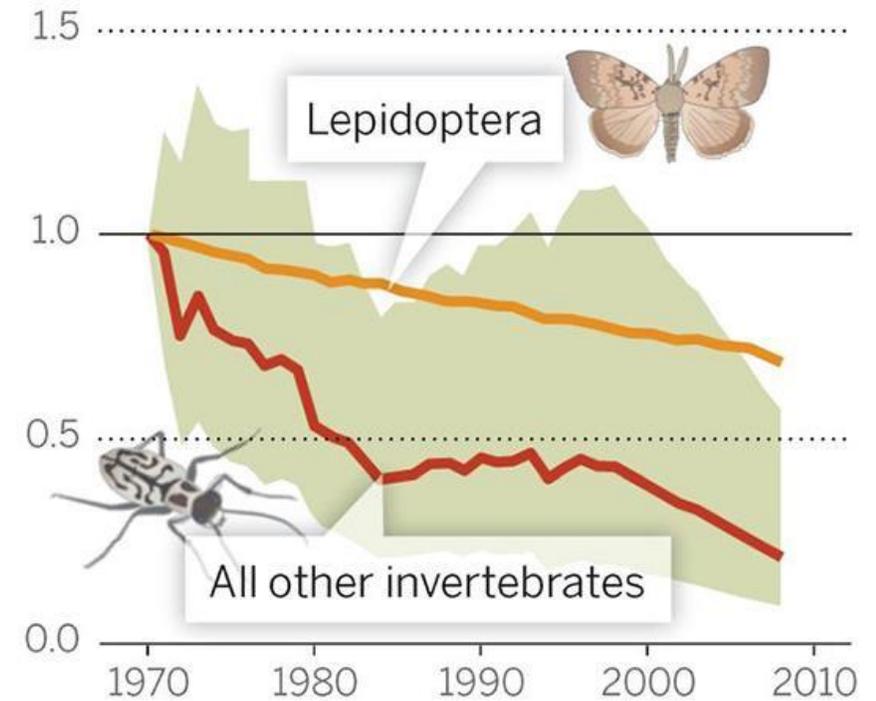
We are bringing wildlife to the brink of extinction



Bug populations are plummeting due to pesticide use



Global index of invertebrate abundance



These days many fruit growers need to pollinate trees artificially



A photograph of a dry, arid landscape. In the foreground, a wooden fence made of weathered posts and wire runs diagonally across the frame. The ground is reddish-brown, sandy soil with scattered white rocks and sparse, dry vegetation. In the background, there are low, rolling hills under a clear blue sky. The overall scene conveys a sense of desolation and drought.

The worry is that climate change and ecological destruction together may make the Earth inhospitable for humanity



**NEXT:
WHAT
CAN WE
DO?!**

First: break & talk to neighbour about what you have just heard

- **How does it make you feel?**
- **What do you think we should do?**



FROM THIS MOMENT
DESPAIR ENDS
AND TACTICS BEGIN

PART 2

**WHAT WE NEED
TO DO**



**WE NEED TO
GET EVERYONE
WORKING TOGETHER
TO SOLVE THIS**



World governments have set scientists onto studying the problem



th Session of the IPCC and
on of Working Groups I, II and III

제48차 기후변화에 관한 정부간 협의체(IPCC) 총회

1-5 October 2018 | Incheon, Republic of Korea

ipcc
INTERGOVERNMENTAL PANEL ON
climate change

Forty-Eighth Session of the IPCC and
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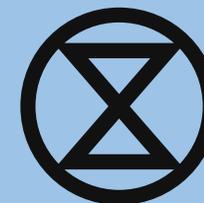
ipcc
INTERGOVERNMENTAL PANEL ON
climate change

Because of the IPCC warnings there have been several attempts to get world agreement to stop fossil fuel use



**Several global climate summits
over several decades**

• Rio • Kyoto • Paris



**extinction
rebellion**

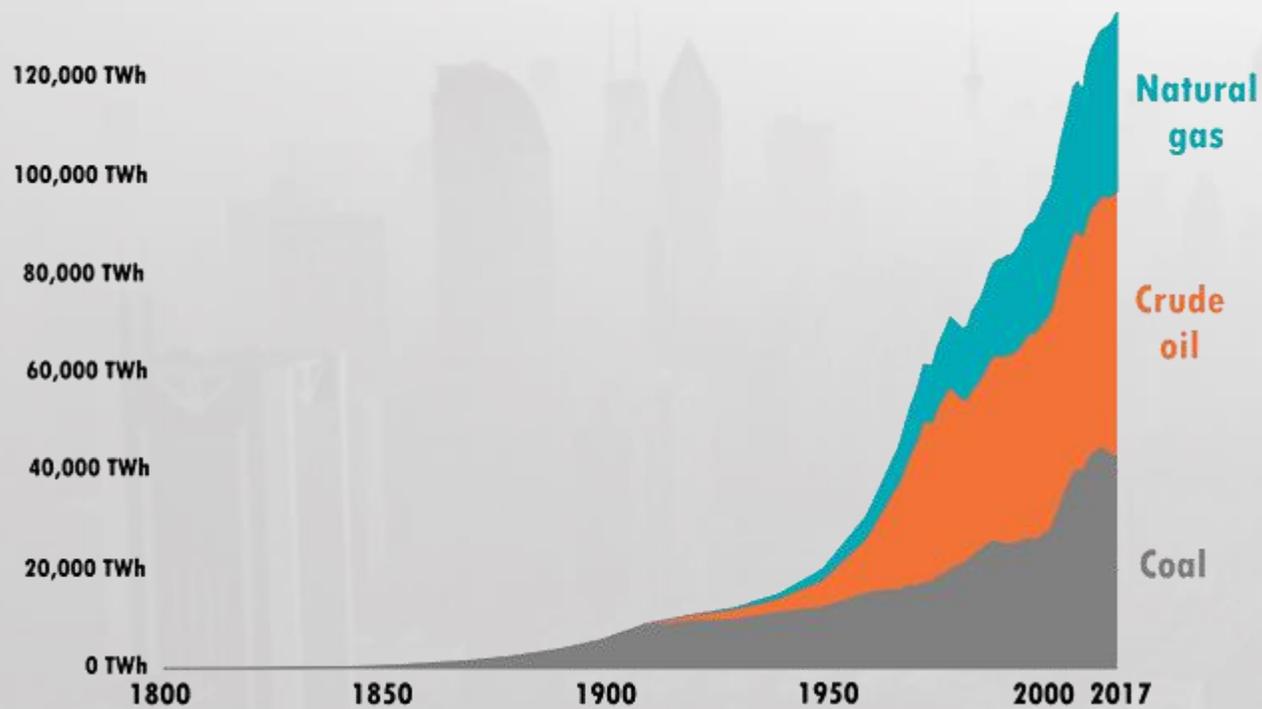
People have also tried local action in individual countries

- **Political** • **Legal** • **Campaigning** • **Individual action**

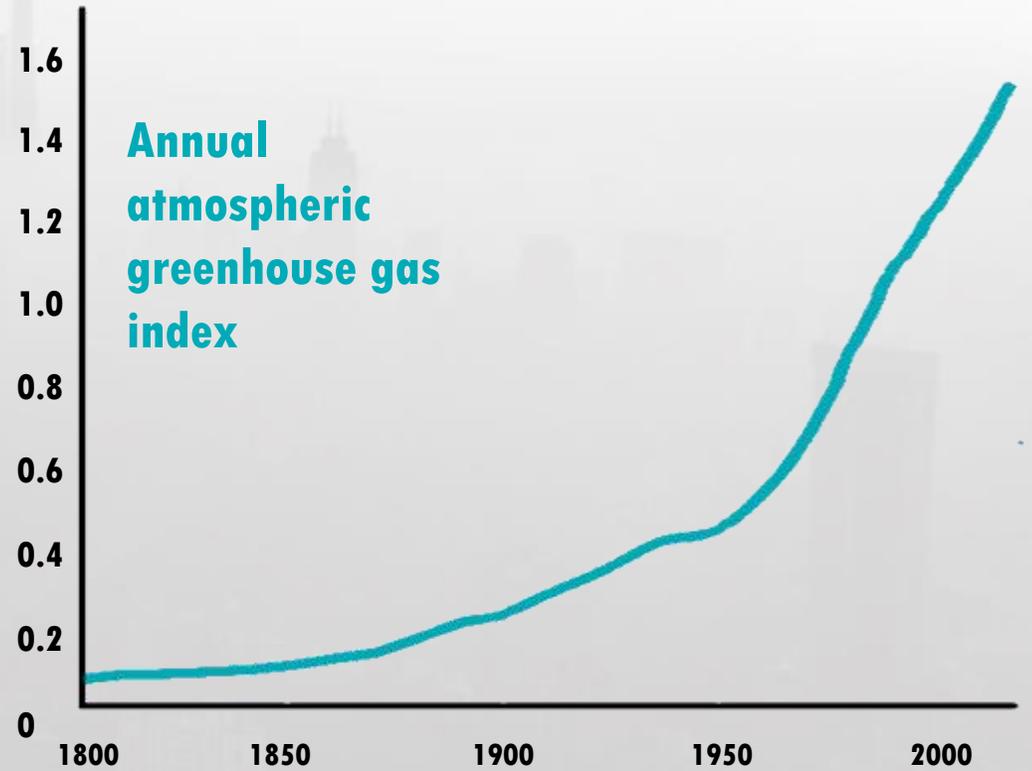


Sadly, none of it has worked

Global primary energy consumption by fossil fuel source, measured in terawatt-hours (TWh)

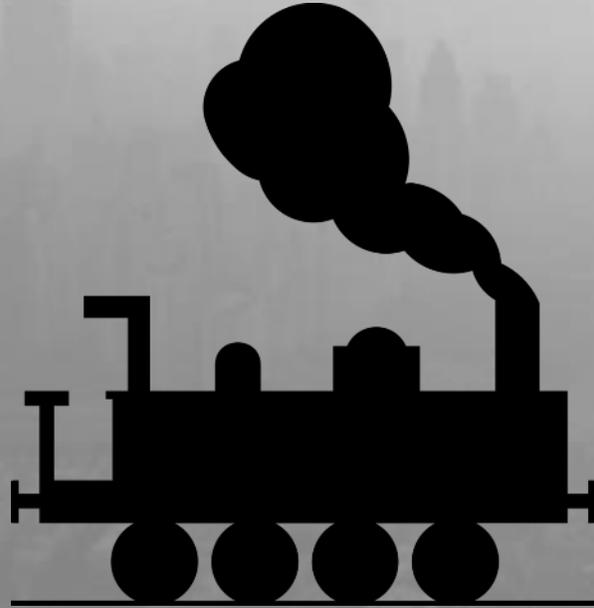


Source: Vaclav Smil (2017) Energy transitions: Global and National Perspective & BP Statistical review of World Energy



Adapted from: <https://www.esrl.noaa.gov/gmd/ccgg/aggi.html>

Why hasn't anything worked?



One problem is our fossil fuel economy, which is how we run our lives

Why hasn't anything worked?

Another problem is that governments know that people may be angry if fossil fuels are made unavailable



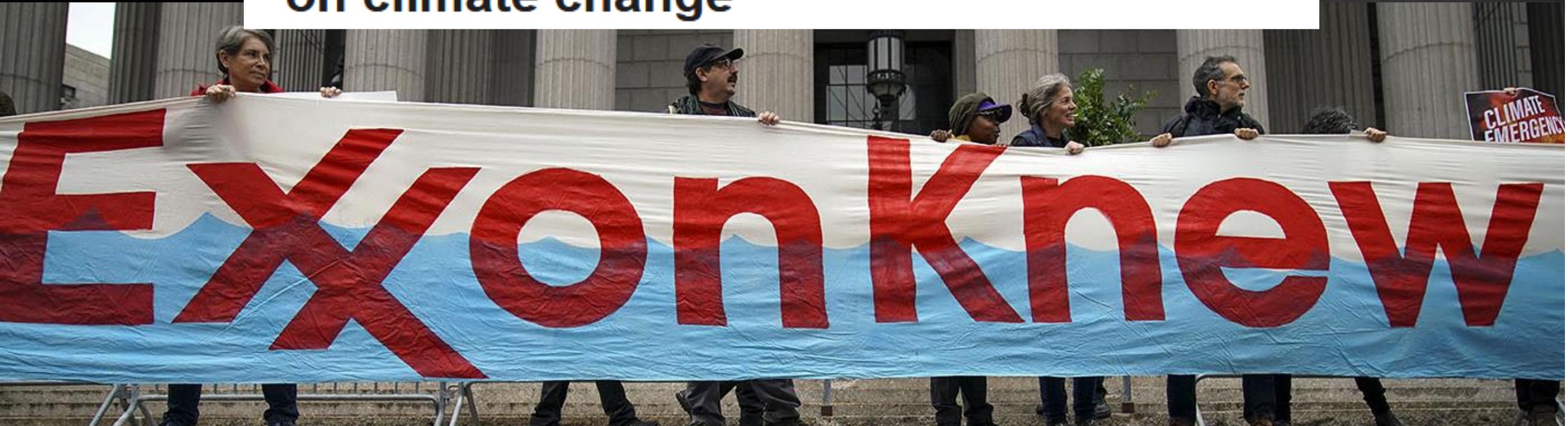
Why hasn't anything worked?

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Exxon accused of misleading investors on climate change





extinction
rebellion



**WE NEED A
NEW
APPROACH**

In 2018, something new happened: citizens started rising up



Extinction Rebellion is one of these new groups
We use disruption to get attention



Our three demands



- 1. Tell the truth about the ecological crisis and declare a climate emergency**
- 2. Greenhouse gas net-zero & halting of biodiversity loss by 2025**
- 3. Citizens' assembly on climate and ecological justice**



Demand #1: Shortly after our “April Rebellion” parliament declared a climate emergency



The image is a screenshot of a BBC News article. At the top, the BBC logo is on the left, followed by a 'Sign in' button and a notification bell icon. To the right are navigation links for 'News', 'Sport', 'Weather', 'iPlayer', and 'Sounds'. Below this is a dark red header with the word 'NEWS' in white. Underneath the header is a navigation bar with links for 'Home', 'UK', 'World', 'Business', 'Election 2019', 'Tech', 'Science', 'Health', and 'Family & Education'. The article's category is 'Politics', with sub-links for 'Parliaments' and 'Brexit'. The main headline reads 'UK Parliament declares climate change emergency'. Below the headline, the date '1 May 2019' is shown on the left, and social media sharing icons for Facebook, Messenger, Twitter, Email, and a general 'Share' button are on the right.

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NEWS

Home UK World Business Election 2019 Tech Science Health Family & Education

Politics Parliaments Brexit

UK Parliament declares climate change emergency

🕒 1 May 2019

f Messenger Twitter Email Share

Demand #2 2025 means “act immediately”

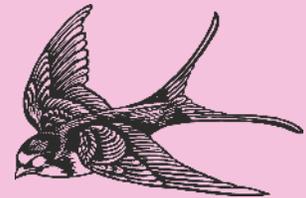
- **Government target of 2050 is based on the assumption of non-existent “negative emissions technologies”**
- **2050 is too far away (30 years) to motivate politicians to take the strong action needed NOW**
- **People are dying now and so we need full-scale action now. We cannot delay.**

WHY 2025?



Demand #3: Why do we want a citizens' assembly?

- **Can take the long view**
- **Free from corporate influences**
- **Truly representative of the population**
- **Trusted by the public**
- **Has been effective before (Ireland, Poland)**

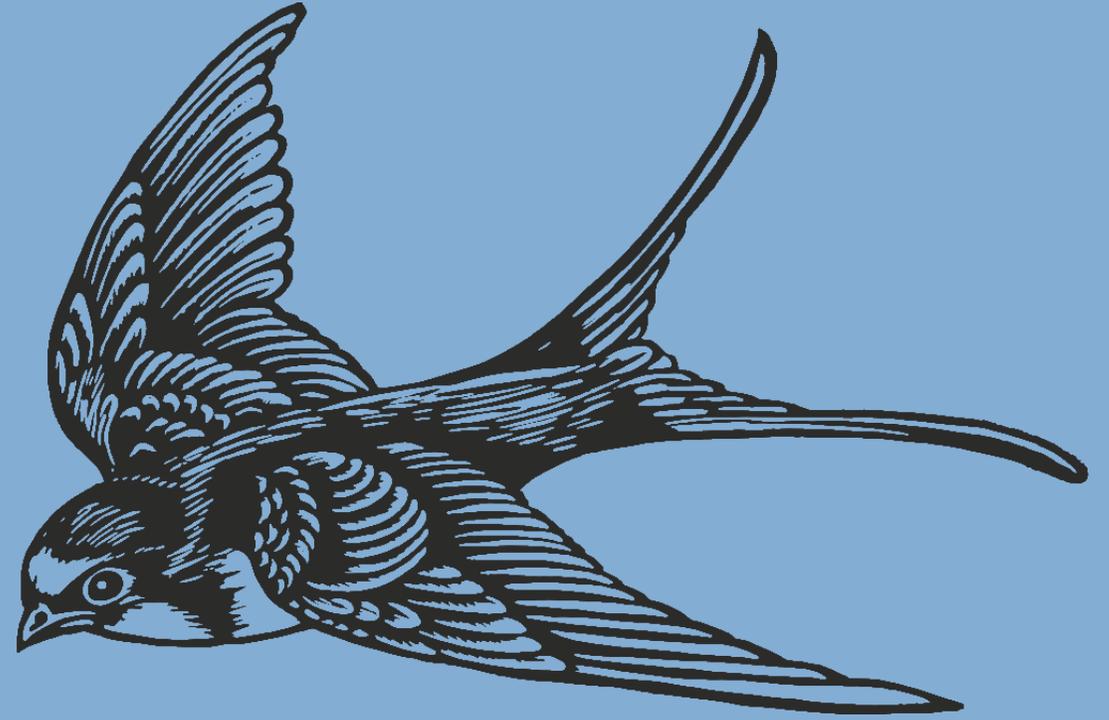


Extinction rebellion practicalities – how we work



**extinction
rebellion**

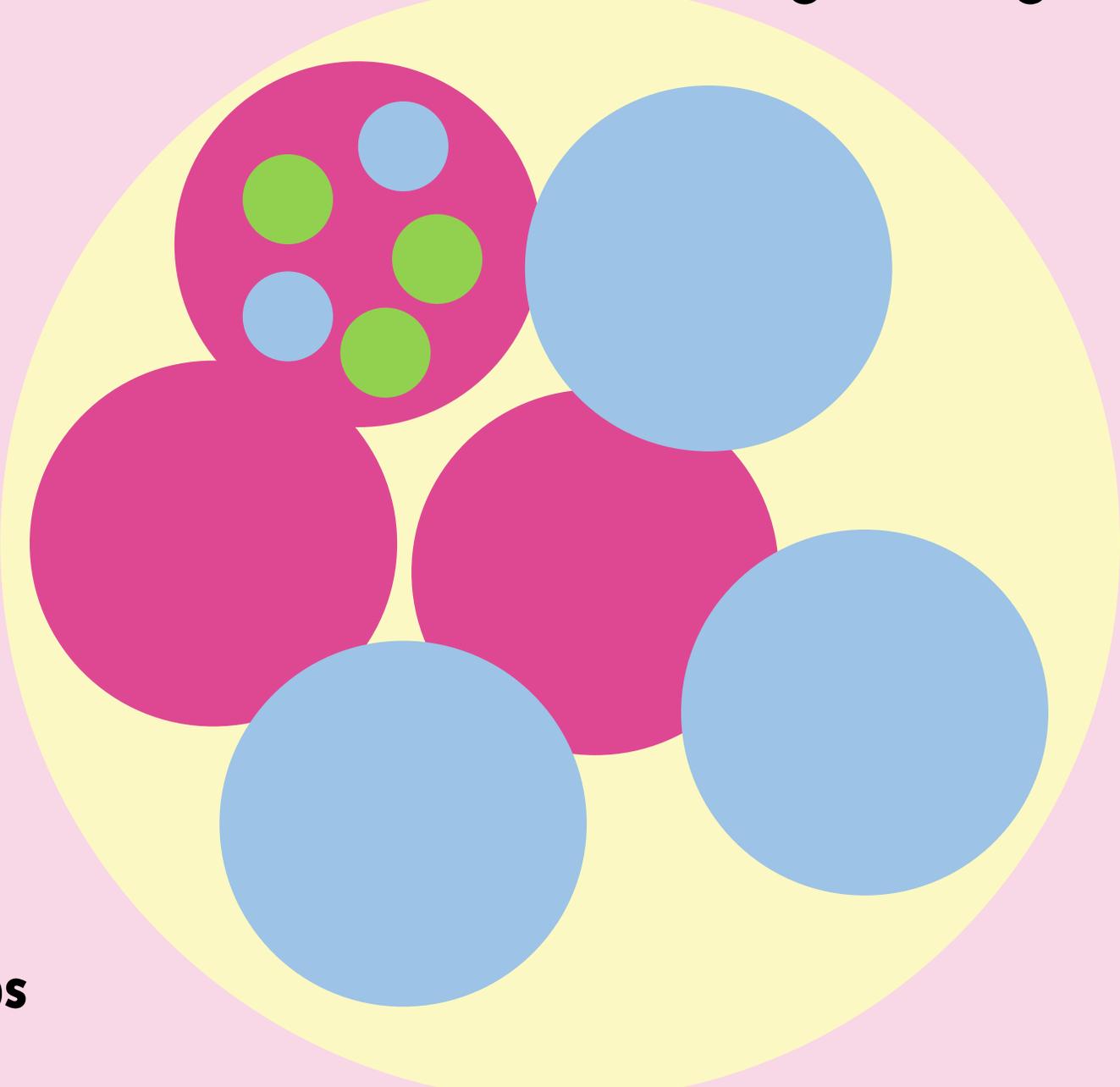
**extinction
rebellion**



We are

NON-VIOLENT

We are de-centralised and self-organising



Local groups



Affinity groups



Working groups



Coordinating groups



**extinction
rebellion**

**Our core activities are
ACTIONS**

We aim to make governments worldwide listen to their people and take action on the planetary crisis



**extinction
rebellion**



GRETA THUNBERG

NO ONE IS TOO SMALL TO MAKE A DIFFERENCE



Talk to your parents: adults listen to their children!

What can you do yourself?

A screenshot of the WriteToThem website. The top left has the WriteToThem logo. The main text reads "Write to your politicians, national or local, for free." Below this, it says "Over 200,000 messages sent last year." At the bottom, there is a form with the text "First, enter your UK postcode" and a text input field containing "SW1H 9NB" and a green "GO" button.

WriteToThem

Write to your politicians, national or local, for free.

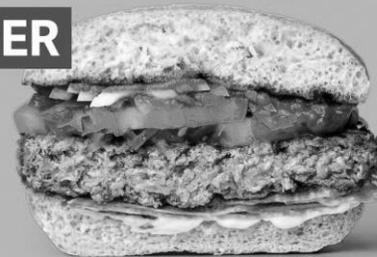
Over 200,000 messages sent last year.

First, enter your UK postcode

SW1H 9NB **GO**

**Write to your MP:
MPs care about their voters**

**THE IMPOSSIBLE
BURGER**



Make personal changes to your own lifestyle: it makes you feel better, and has a surprising influence on those around you!

And you could join Extinction Rebellion Youth...



OUR VOICE

OUR WORK

OUR TRUTH

GET INVOLVED

SIGN UP!



WWW.XR

And you could join Extinction Rebellion Youth...

1. Fill out the form or visit

<https://actionnetwork.org/forms/join-the-xr-youth-network-2>

2. Join them on Facebook to find out when/where their next meeting is

3. Offer your time (as little or as much as you want) and share your skills

4. Make change happen!

