So what's happening right now?

Right now, Earth's climate is getting warmer. On average, the world is 1°C hotter than it was 170 years ago (though some places have warmed even more).

This change might sound tiny, but it's already had a big effect.

Some natural disasters, such as wildfires, are more severe and last longer.



Reporting live from California, USA, where over 18,000 buildings have burned down in the recent fires.

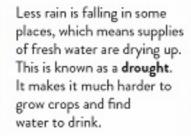
CRISIS!

The particular place where an animal lives is known as its **habitat**. Climate change and the actions of people are harming many habitats. Some habitats are even disappearing.

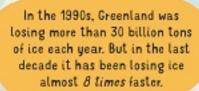
> If all the trees we nest in die, we'll die too.

The oceans are absorbing extra CO₂. This is making them more acidic.

> All sorts of marine life can't handle these conditions.



The rain we rely on didn't come this year. All over the world, ice that used to be permanent is melting. This is contributing to a rise in sea levels.





CRISIS!

Some extreme weather events, such as heat waves and floods, are becoming more severe.

> My town in Bangladesh was washed away.

Sea levels are 20cm (8 inches) higher than in 1880, and now rising at nearly 4mm (0.15 inches) per year.

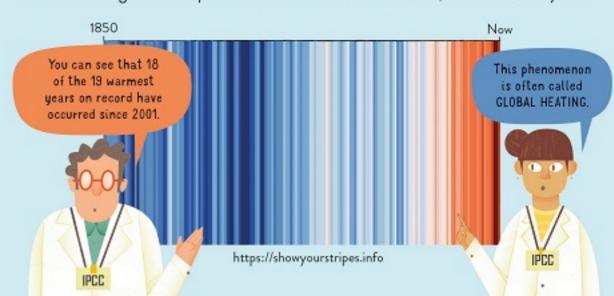
The sea around the island we live on is rising. Soon we may not be able to live here anymore.





How do we know it's getting hotter?

Scientists have calculated world temperatures going back 170 years. Their data shows that the average temperature on Earth varies a little each year. Here's a chart showing a stripe for every one of those 170 years. Blue stripes are colder than the average. Red stripes are warmer. The darker the red, the hotter the year.



Bright lights, green city

By 2050, experts predict that 70% of the world's population will live in busy, bustling cities. To limit global temperature rise to 1.5°C, cities will



Adapting

As well as mitigating the effects of the crisis, many cities will have to adapt to new living conditions. Exactly how cities adapt will differ from place to place, depending on how their local climates change.

The way a city is built may have to be reorganized.



day-to-day lives may have to char

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From a giant flood wall in Rotterdam, Netherlands, that's controlled by a supercomputer, to rules in New Delhi, India, that mean people can only use their car every other day – cities, towns and villages all around the world are already beginning to adapt. Have you noticed adaptations where you live?

Getting the job done

To limit warming to 1.5°C, our society needs to be carbon neutral by 2050. We'll have to change how we power things, grow food, move around and more – and it'll need to happen FAST. How can we make it happen?

It's a HUGE challenge, but we won't need amazing superpowers to overcome it. In fact, all we'll really need is regular, everyday, human powers – skills that



All those skills are essential to create treaties, plans and actions that WORK.
According to the IPCC, change is particularly crucial in three areas - technology,
more wand how we behave - to stand a change of meeting the 1.5°C target.

Technology

We need to make it possible for technology to advance quickly enough. It also had to be cheap and available everywhere it's needed. Gee farmers maney to spend on climate friendly

Money

We need to invest much, much more in technologies, ideas and programs that

> And let's aim to train up 15,000 people to work on them.



How we behave

Governments only have so much power over how people behave.



There are many things we need to do, and even more ways we could choose to do them. The thing to keep in mind, is that it CAN be done. But will it?