

Climate zero to climate hero

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Disclaimer

The views expressed in this presentation are those of the authors of the paper,

Carol Storey, Kim Woehl and Samir Karnik, and not necessarily of the

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- 1. Ten things
- 2. Getting your point across
- 3. Taking action

You live here



Source: NASA / public domain



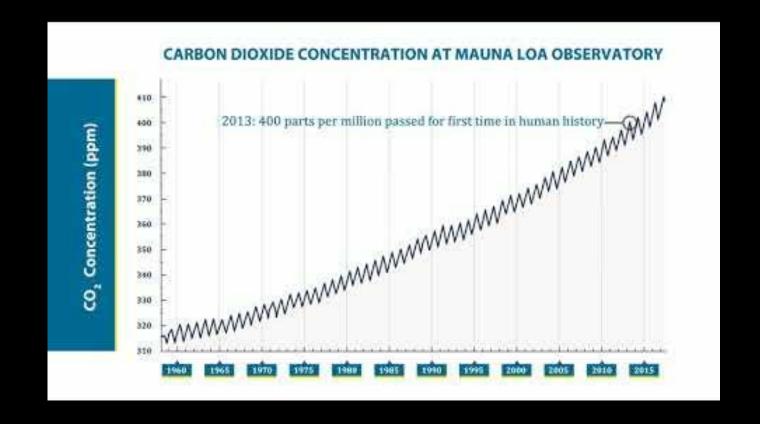
Ten things

1. Climate science is really old

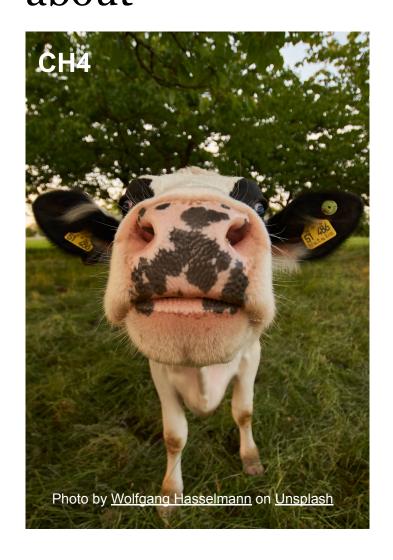


2. There's more CO2 in our atmosphere than at any point in at least the past 800,000 years

Follow: The Keeling Curve on Twitter



3. CO2 is not the only type of greenhouse gas we need to worry about

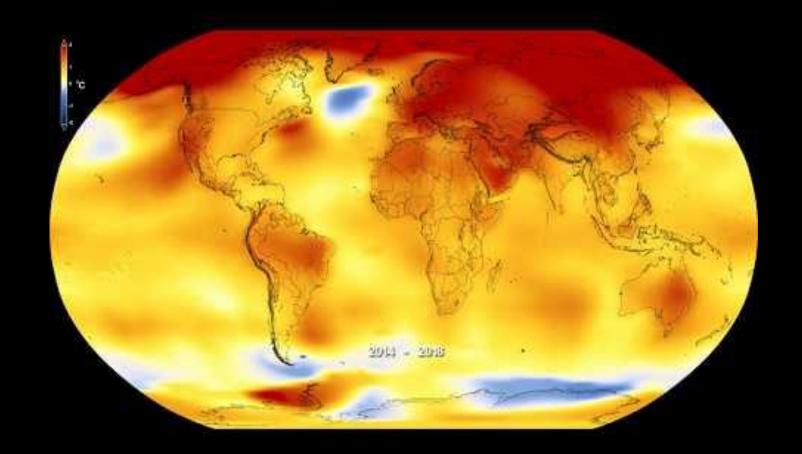






4. We're breaking all sorts of environmental records as the

world gets warmer

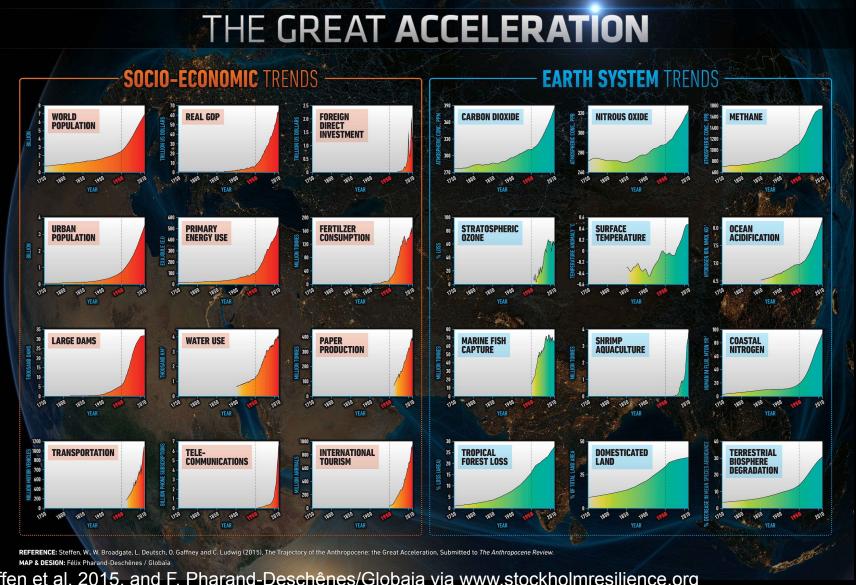


Explore: NASA and IPCC are good sources of consensus data on the effects and impacts of climate change

Did you know? Analysis of attribution studies by Carbon Brief suggests 68% of all extreme weather events over last 20 years were made more likely or more severe by human-caused climate change

Source: NASA via YouTube

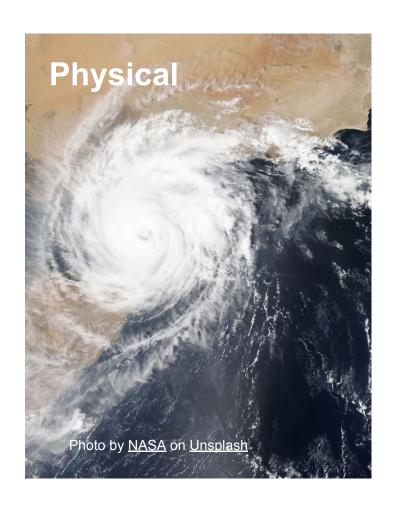
5. We're living in the Anthropocene

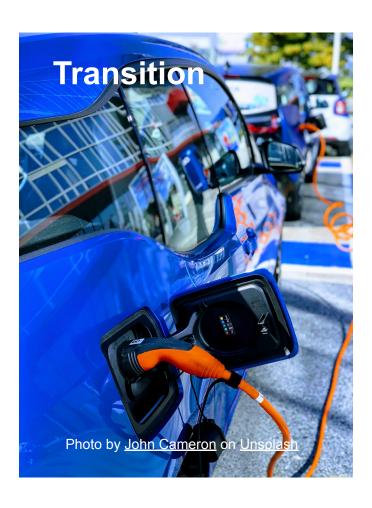


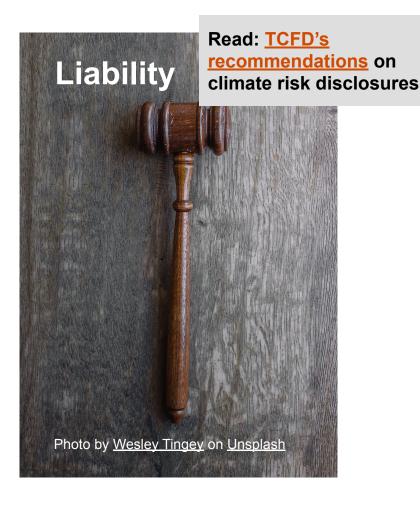
Did you know? Earth **Overshoot Day** this year was on 29 July

Source: Steffen et al. 2015. and F. Pharand-Deschênes/Globaia via www.stockholmresilience.org

6. Climate change poses serious financial risks and they are already beginning to materialise







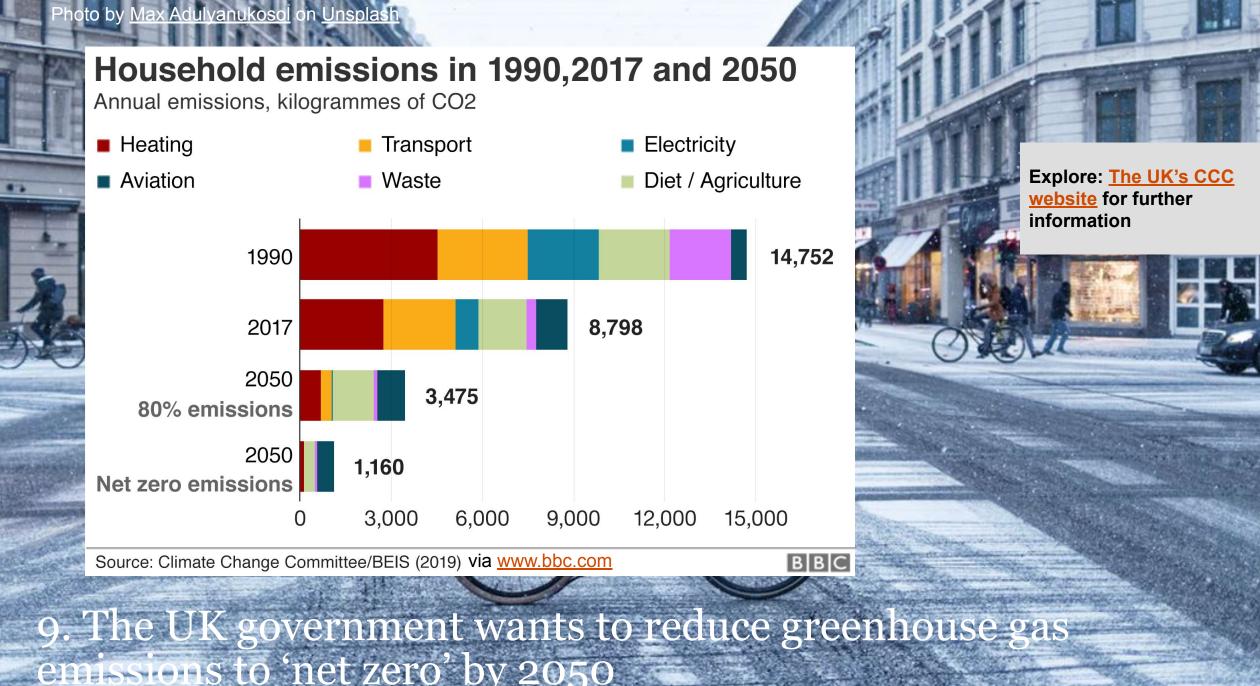


Did you know? SOAS found that climate vulnerability raised the average cost of debt in a sample of developing countries by 117 basis points (around 10% of overall interest costs)

7. The poorest countries 'pay twice' for climate change

12





emissions to 'net zero' by 2050

10. We need to act now



1.5°C scenario

Explore: Interactive resources can be found at Climate Spirals and Carbon Clock



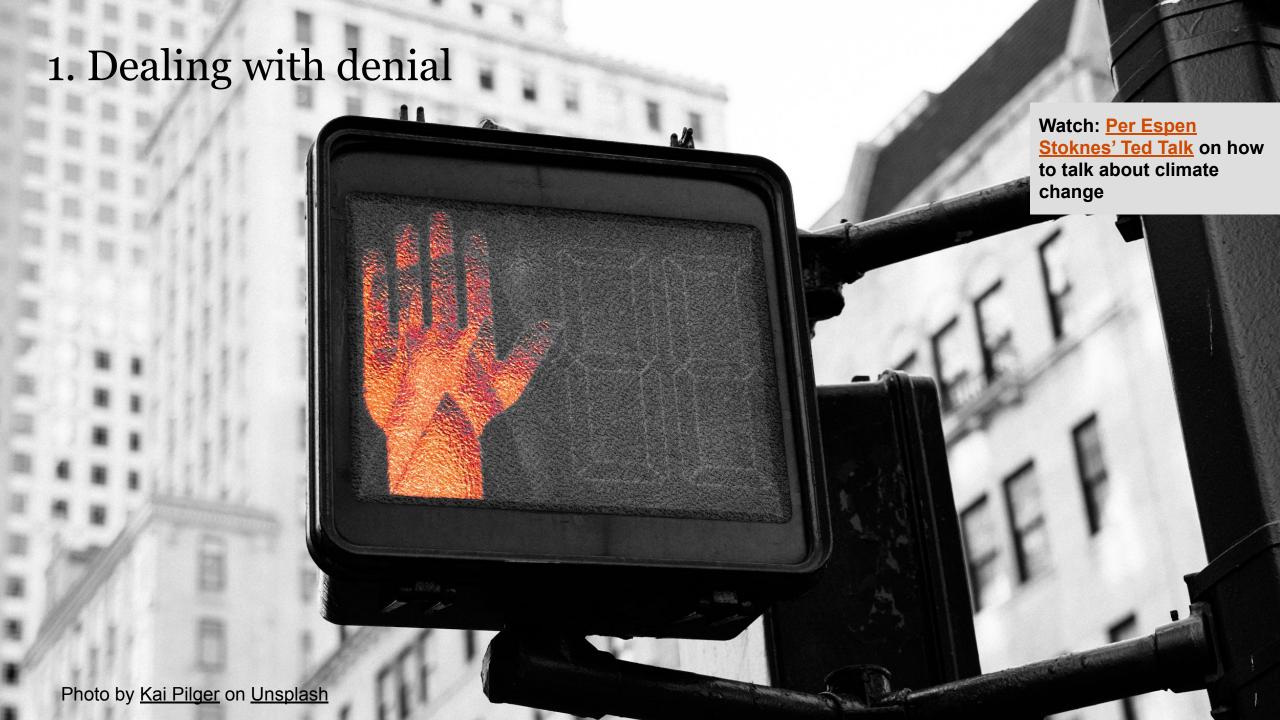
At current rates, global warming is likely to reach 1.5°C between 2030 and 2052

Source: MCC, IPCC



Getting your point across



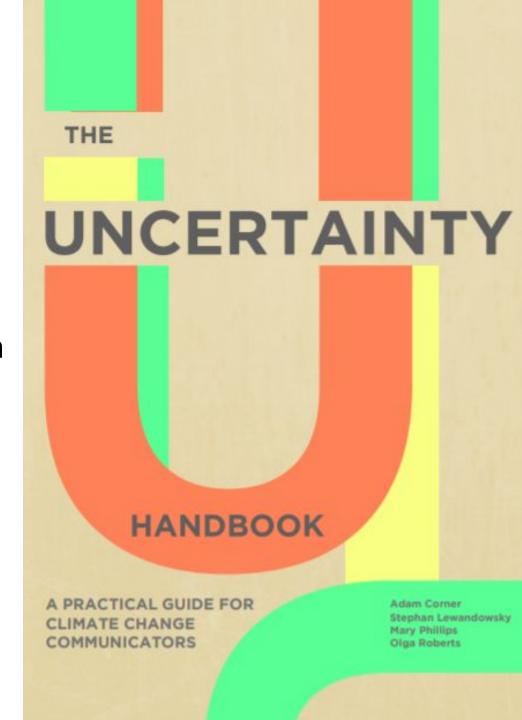


2. Handling uncertainty

Principle 3: "Be clear about the scientific consensus"

Principle 7: "The most important question for climate impacts is 'when', not 'if'"

Principle 8: "Communicate through images and stories"



Source: The Uncertainty Handbook

3. Engaging your audience







Source: Climate Visuals

We have 12 years to limit climate change catastrophe, warns UN

Source: Guardian







BLACK WIDOW SPIDERS ARE HEADING NORTH DUE TO CLIMATE CHANGE

Source: Newsweek

Paris climate change agreement: the world's greatest diplomatic success

Source: Guardian





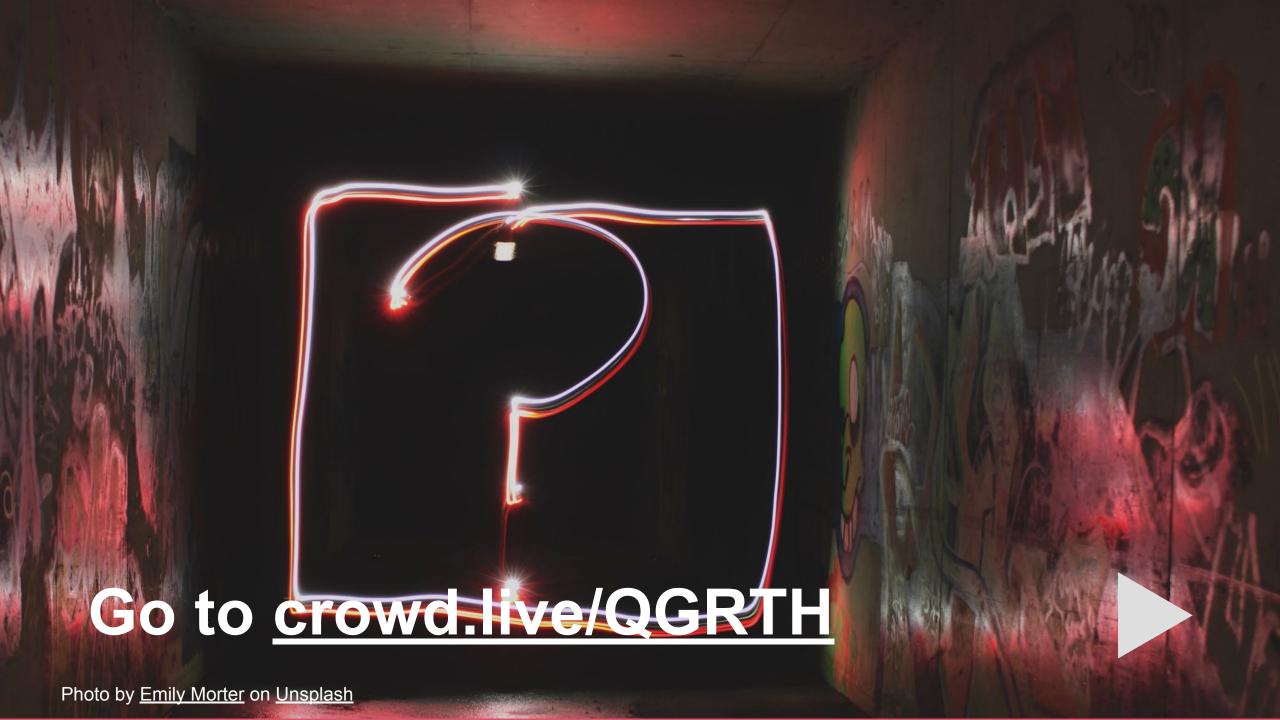


US mayors bypass Trump to back Paris climate goals

Source: Daily Mail



Taking action



1. Professional duty



RISK ALERT
Climate-Related Risks

KEY MESSAGE

Actuaries should ensure that they understand, and are clear in communicating, the extent to which they have taken account of climate-related risks in any relevant decisions, calculations or advice.

Read: IFoA's practical guides on climate change for technical insight in your area

Source: IFoA

2. Regulation **Read: The Government's Green Finance Strategy** provides a good summary of the regulatory environment and future direction of travel Photo by <u>Deniz Fuchidzhiev</u> on <u>Unsplash</u>

3. Task Force on Climate-related Financial Disclosures (TCFD)

Core Elements of Recommended Climate-Related Financial Disclosures



Governance

The organization's governance around climate-related risks and opportunities

Strategy

Includes scenario analysis

The actual and potential impacts of climate-related risks and opportunities on the organization's businesses, strategy, and financial planning

Risk Management

The processes used by the organization to identify, assess, and manage climate-related risks

Metrics and Targets

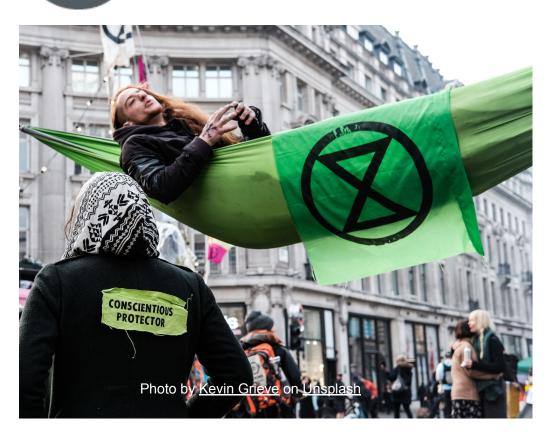
The metrics and targets used to assess and manage relevant climate-related risks and opportunities

Source: TCFD

4. Scrutiny and activism











5. Initiatives and resources

Principles for Responsible Investment































+ many many more...

1. Learn

- understand your responsibilities
- find out how your clients, employer and competitors are responding to climate risks
- develop your own climate risk 'toolkit'

2. Talk

- seek out opportunities to raise climate risks with your colleagues and clients
- experiment and adapt your message as you go along
- challenge decision makers to adopt TCFD recommendations and good climate governance

3. Act

- consider the impact of climate risks on your assumptions, calculations and advice
- don't be afraid to start off with qualitative assessments or something simple
- communicate what you've done to stakeholders
- consider taking part in internal or industry climate change initiatives

Thank you! Any questions?



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