

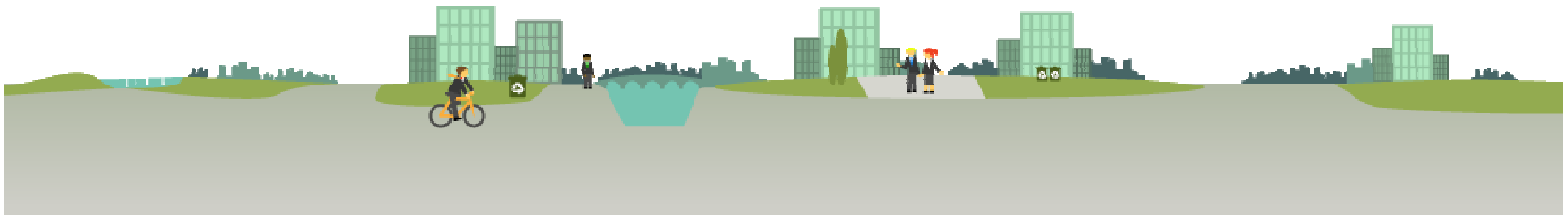
Climate Change

The what, the why and the how

Sonja Graham, Global Action Plan



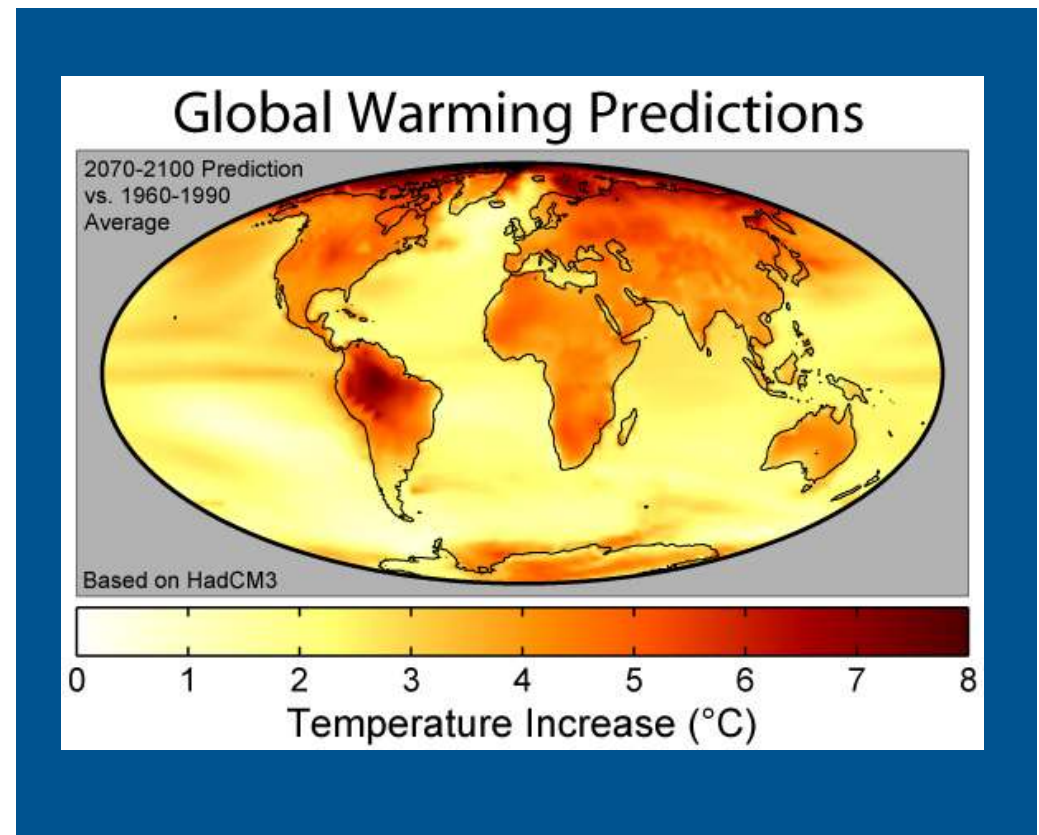
What is Climate Change?



Climate change means the earth is going to get hotter right?

Yes

- Scientists predict that global temperatures will rise between 1.1 and 6.4°C by 2100
- This temperature increase will vary across the globe



The ten hottest years on record (hottest 5 = red):

'97 '98 '99 '01 '02 '03 '04 '05 '06 '07 '08 '09 '10 '11

We've seen a lot of snow over the last few years, are you sure?

Yes

- Climate change is not the same as weather
- Climate change = change in average global temperature and weather over time
- Weather = rain, hail, snow, wind etc. that changes hourly/daily

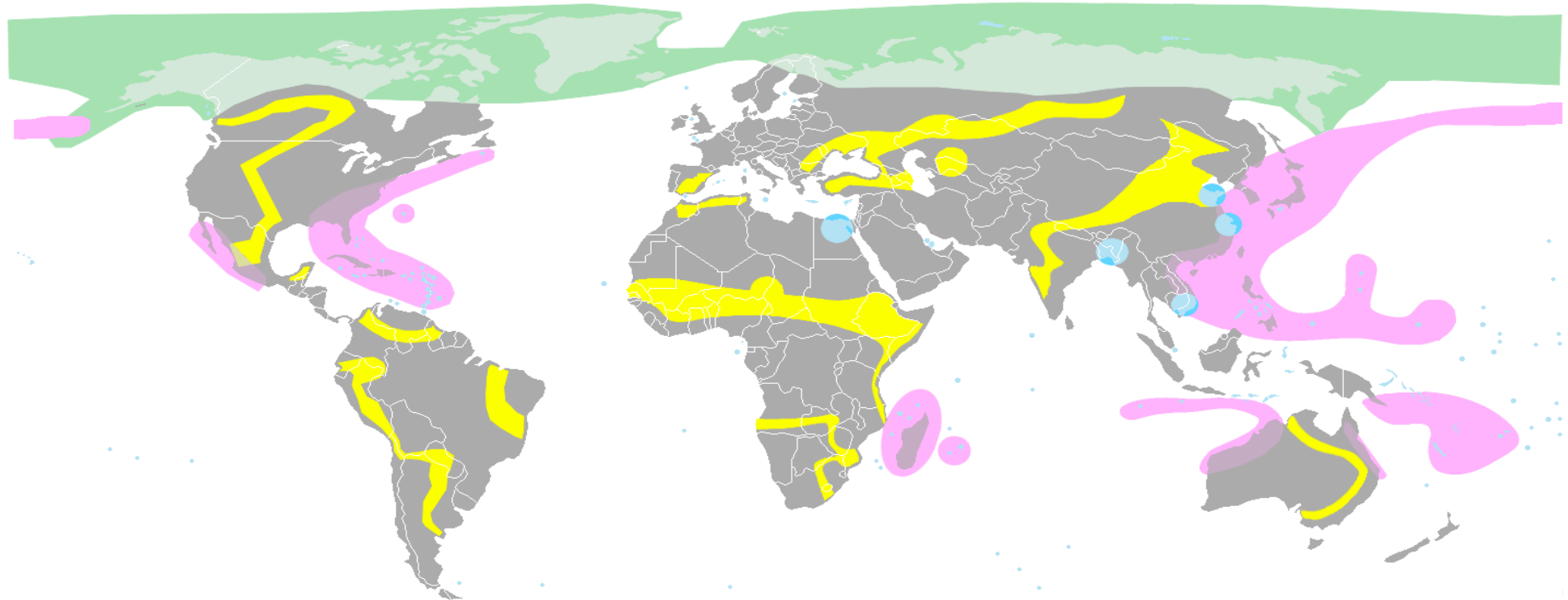


Watch a comedy sketch about
Climate Change vs weather

<http://www.youtube.com/watch?v=TQIHgHyoF0>







So what will it mean?



Climate change will result in more extreme and intense weather events all over the world

Areas exposed to:

-  : hurricanes
-  : desertification or drought
-  : small islands &
-  delta's subjected to extreme weather / greater surf (some islands will be completely submerged)



GlobalActionPlan
creating the climate for change

What will we see?

- High temperatures, increased drought & water shortages
- Urban heat islands
- Heavy rainfall and flooding
- Ice caps melting and sea levels rising
- Hurricanes and other extreme weather events

Extreme Weather 2011

Jan: Australia area flooded the size of France & Germany combined

Apr: Colombia 5 x annual rainfall 2 million people displaced

May: North Dakota, USA highest flood ever recorded

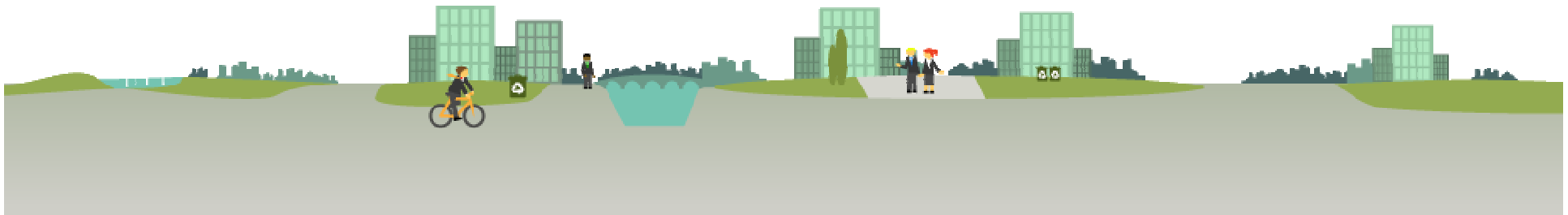
Jun: China 8.5 million people affected by flooding

Jul: Seoul mudslide reached 4th floor of buildings

Aug: Hurricane Irene ~\$10 billion



Why is it happening?



Hasn't the Earth's climate been changing for years?

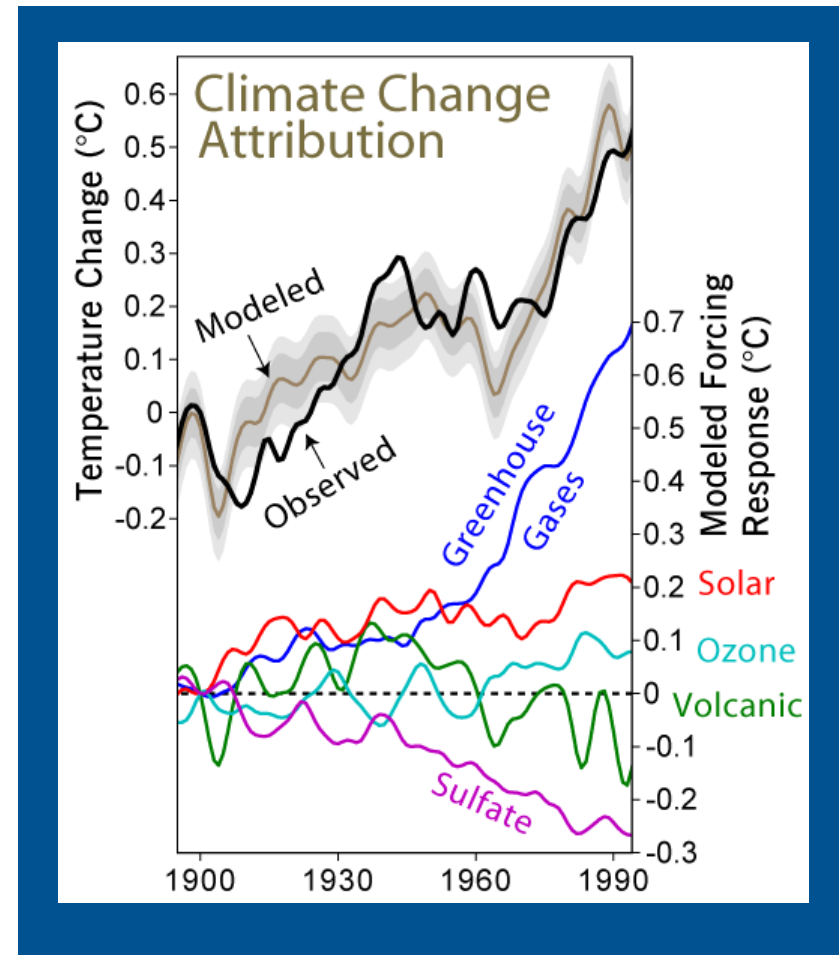
Yes, but...

- The increase in global temperature recently seen cannot be explained by natural causes
- The rise can only be explained when you add the rise in greenhouse gases



Watch Sir David Attenborough explain Climate Change

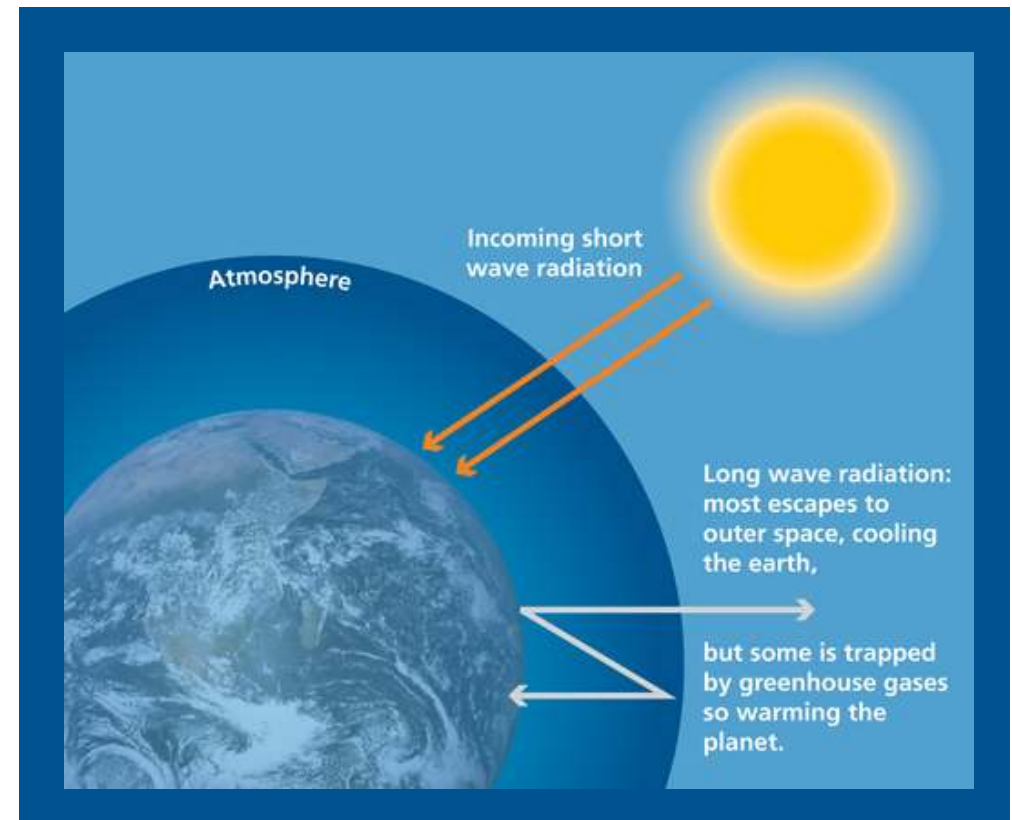
<http://www.youtube.com/watch?v=S9ob9WdbXx0>



Why are Greenhouse gases making the planet warmer?

Because:

- They form an insulating layer in our atmosphere that traps in warmth from the sun
- This layer is now too thick and the Earth is heating up



Watch a video that explains the causes of climate change

<http://www.youtube.com/watch?v=InUJR40Ggtw&feature=related>

But the scientists are arguing aren't they?

Nope.

- All Scientific bodies agree that Climate Change is happening

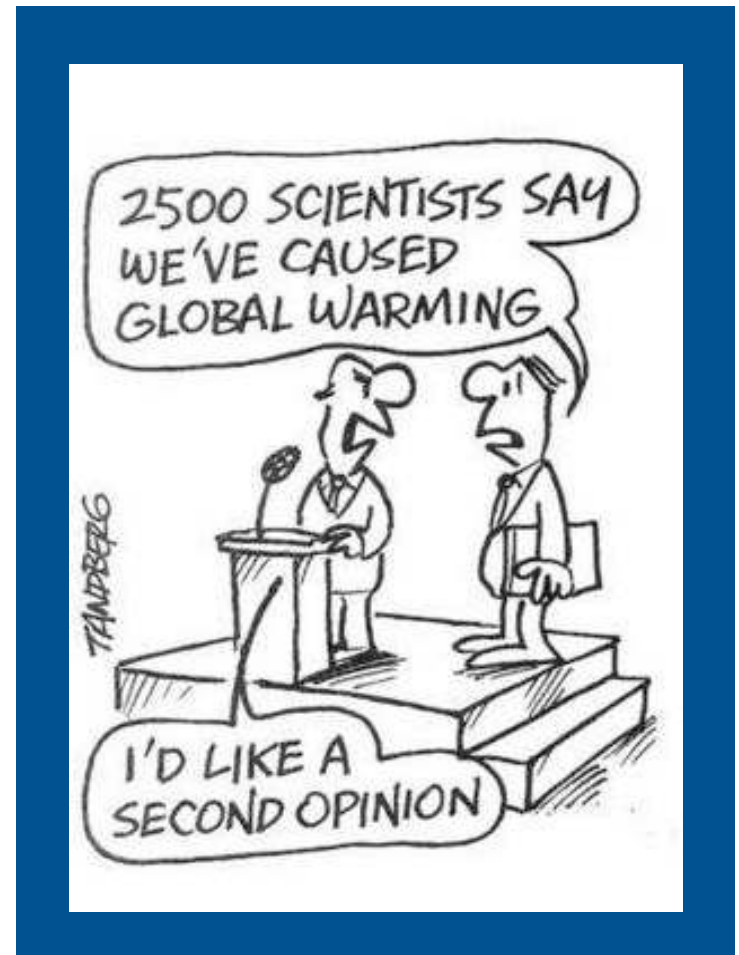
32 = Number of national/international Academies of Science that have come together to agree that Climate Change is due to human activities:

- Numbers that don't agree = **0**

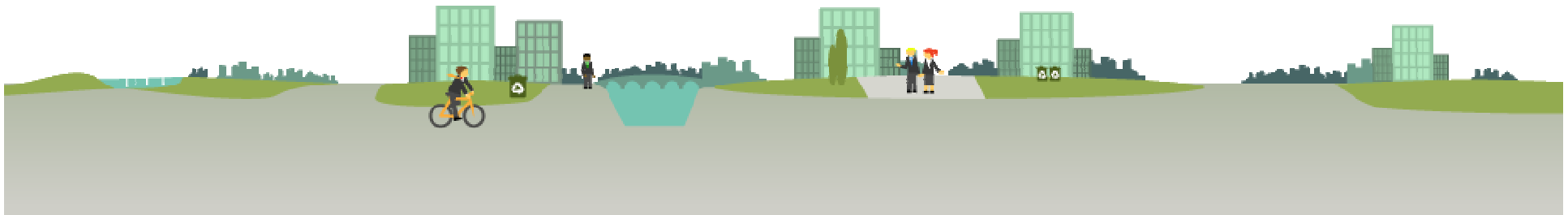


Watch a video explaining why the only solution is to take action irrespective of whether we believe that Climate Change is happening or that humans are causing it.

<http://www.youtube.com/watch?v=zORv8wwiadQ>



How can we fix it?



What can we do?

Mitigate...

- We know many of the things we need to do to mitigate (reduce) our impact
- It is crucial that we start doing them, as individuals, organisations and governments



Watch a WWF video on how we need to start thinking differently

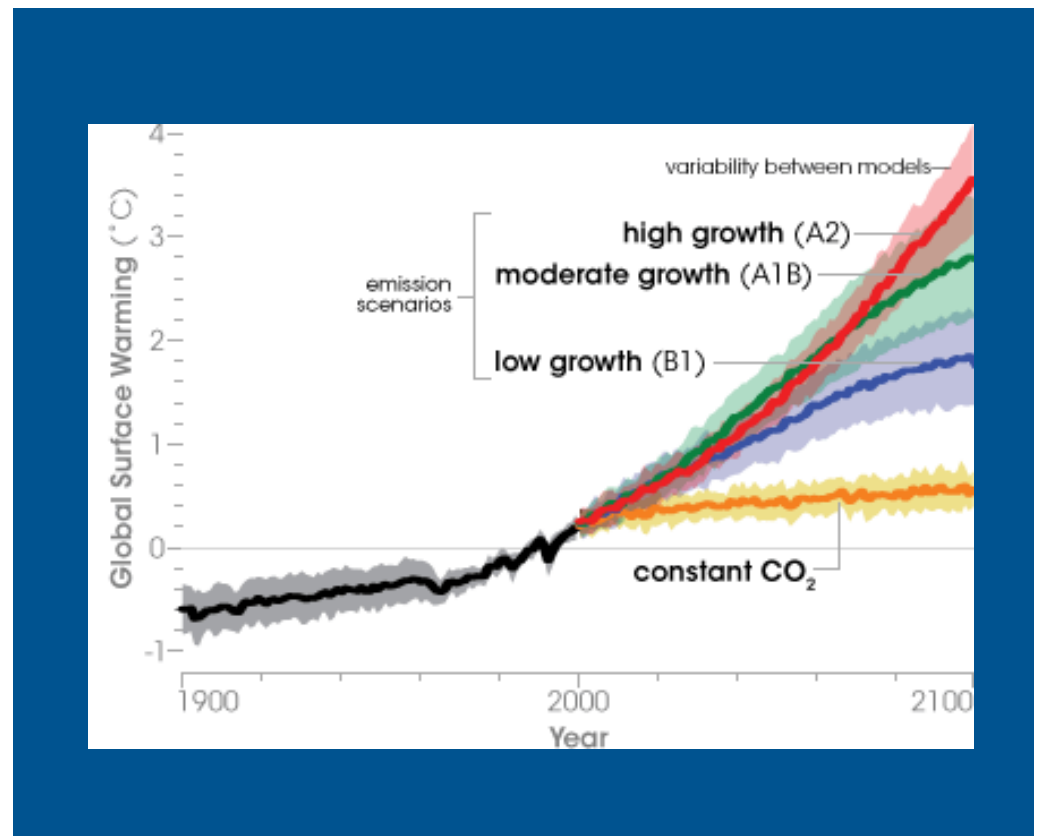
http://www.youtube.com/watch?v=s9dxc_jVIY



So if we stop producing Greenhouse gases we're ok?

Yes, but...

- Even if we don't produce anymore greenhouse gases from today, there will still be some warming
(orange line is if CO₂ stayed at 2000 levels)



What does this mean?

We need to adapt

- As well as reducing greenhouse gas emissions we need to prepare for a warmer world
- This means considering how climate change will affect our communities and making changes to protect them

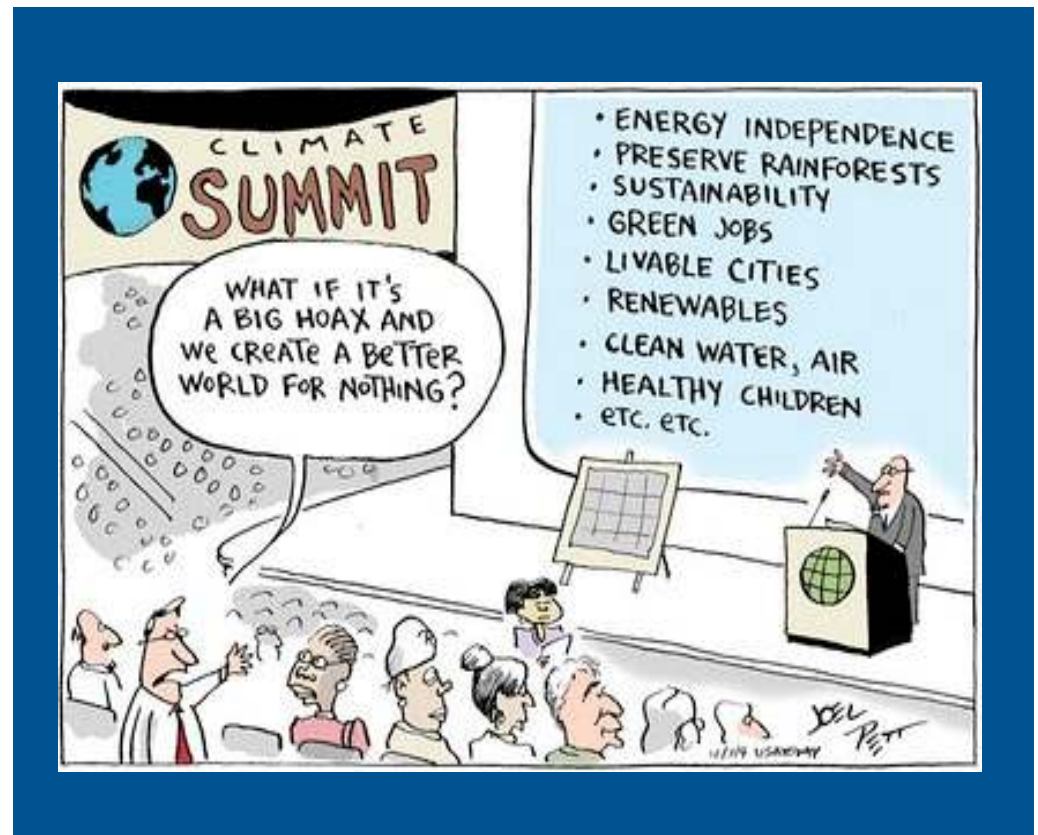
"We are facing the 'Perfect Storm' of food shortages, scarce water and insufficient energy resources"

Professor John Beddington, Chief UK Scientific Adviser

Why should we act on this?

Because...


- the debate is over
- we know what to do to reduce greenhouse gases
- we only have finite resources and materials so have to find alternatives



Watch a video clip from the Start campaign about taking action

http://www.youtube.com/watch?v=Fedp-c3Cri8&feature=player_embedded

For more
information
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creating the climate for change

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