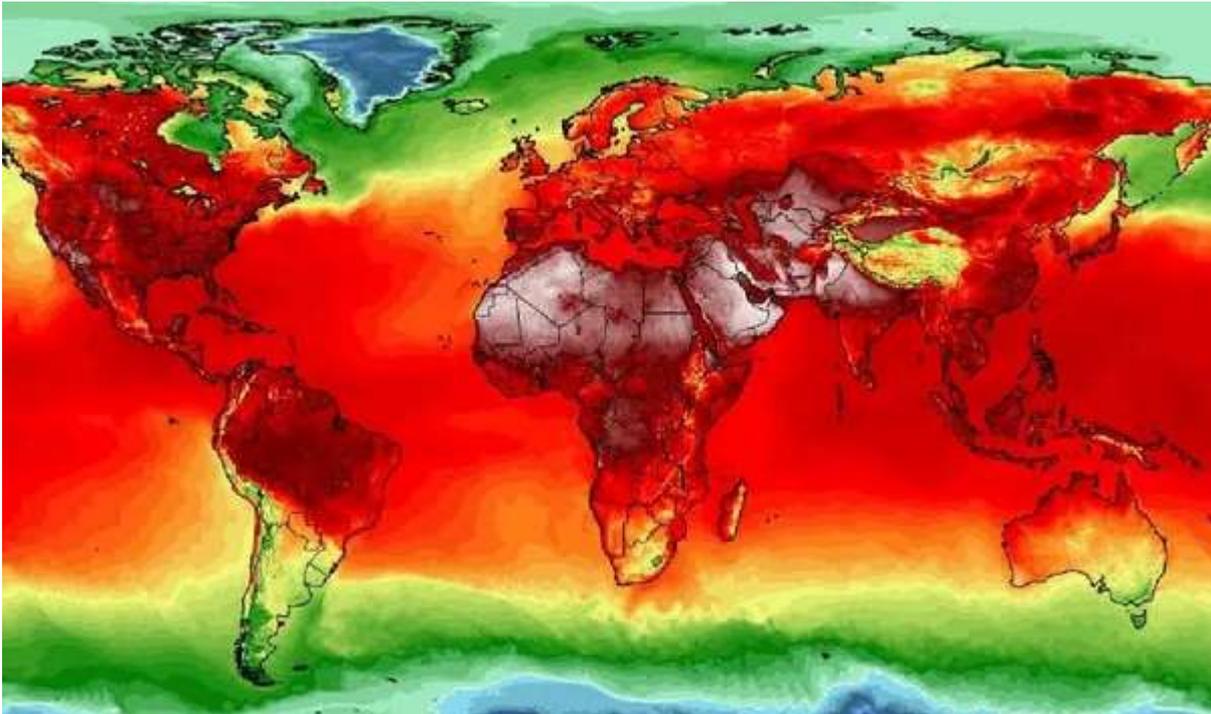


# Climate Change and Chichester



A heat map showing how temperatures are soaring across the world

# 97% of climate scientists have concluded that human-caused global warming is happening

- The world's leading climate scientists have warned there is only a dozen years for global warming to be kept to a maximum of 1.5C, beyond which even half a degree will significantly worsen the risks of drought, floods, extreme heat and poverty for hundreds of millions of people.
- “urgent and unprecedented changes” are needed to reach the target, which IPCC says is affordable and feasible
- “At the current level of commitments, the world is on course for a disastrous 3C of warming”. Does this affect us in Chichester? What can we do about it?

# British Social Attitude Survey

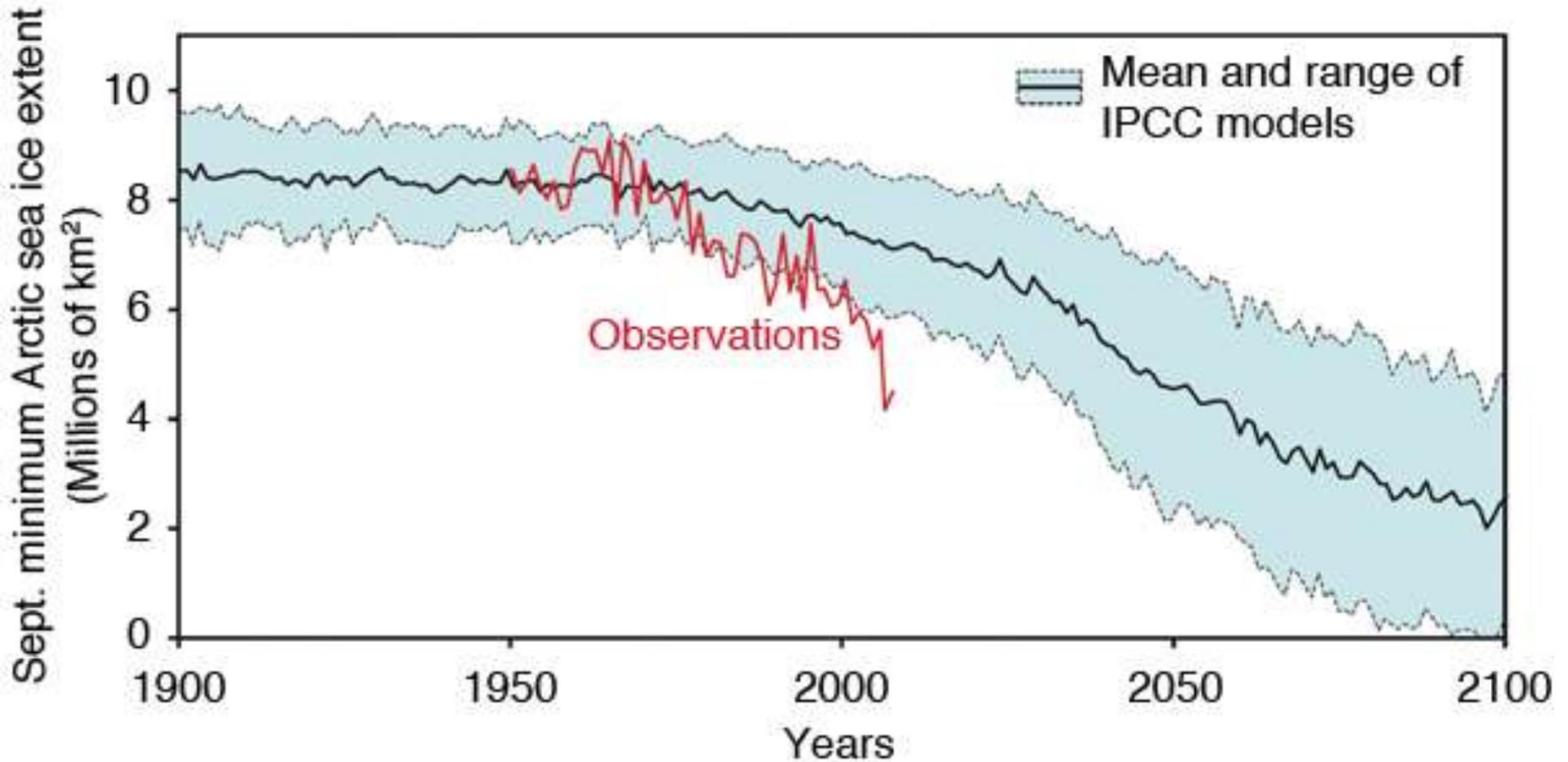
Public support for the scientific consensus on climate change is relatively high

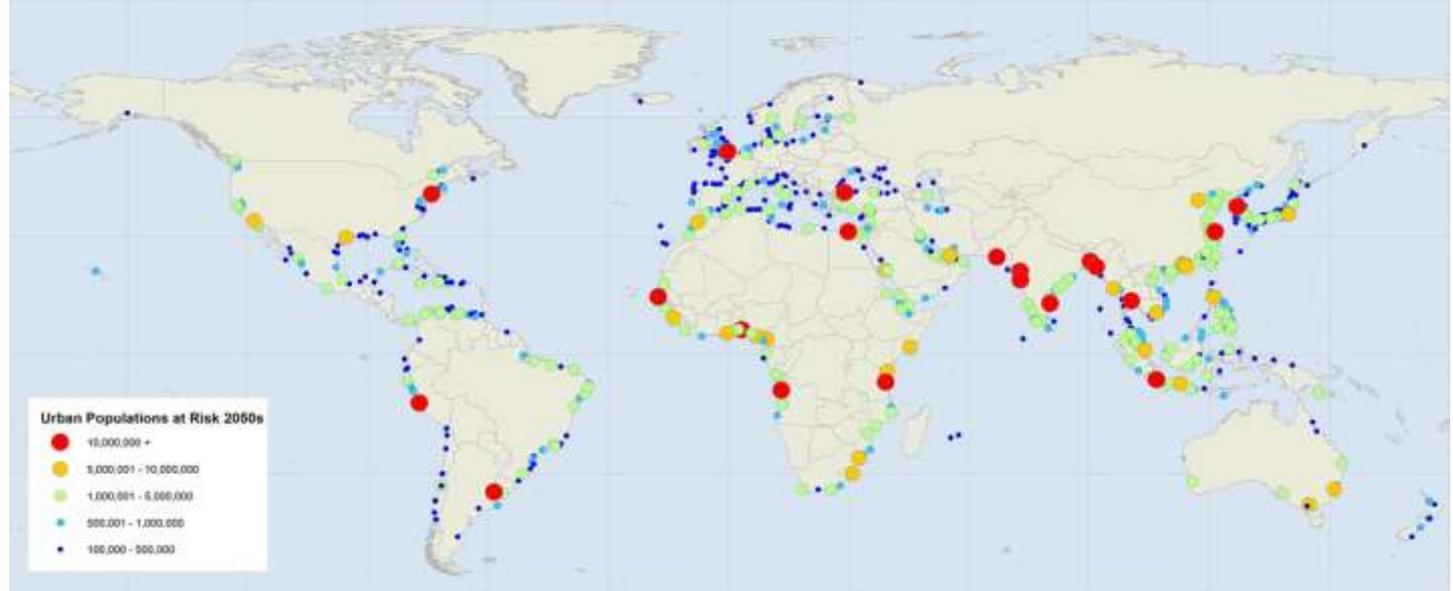
**3 in 4**

believe that climate change is happening and that humans are responsible

	% believe climate change is caused by humans	Weighted base	Unweighted base
<b>Age</b>			
18-34	79	752	948
35-54	80	1159	1171
55-64	78	541	496
65+	66	856	693
<b>Educational attainment</b>			
Degree or higher	86	624	673
Below degree level	78	1635	1722
No qualifications	63	743	636
<b>Household income (quartiles)</b>			
Highest quartile	82	799	641
2nd highest quartile	83	591	571
2nd lowest quartile	75	594	620
Lowest quartile	73	579	657
<b>Party identification</b>			
Conservative	71	926	881
Labour	78	1039	1062
Liberal Democrat	89	253	247
All	76	3311	3311

# Arctic Sea Ice Decline





World Bank- **Migration** will soar (flooding, desertification etc) by **2050** – **140m people** (or up to 1 billion people = 1 in 9 people on the move).

10% of UK population affected – ***i.e. an internal migration issue within countries***

Aberdeen, Newcastle, Portsmouth, Belfast, Kingston upon Hull, Cardiff, Southampton, Bristol, Edinburgh, Glasgow, London, Reading and Luton, Plymouth, Brighton, Middlesbrough, Dundee, Swansea, Southend on Sea, Sunderland. Also rural areas in Lincolnshire, Norfolk....

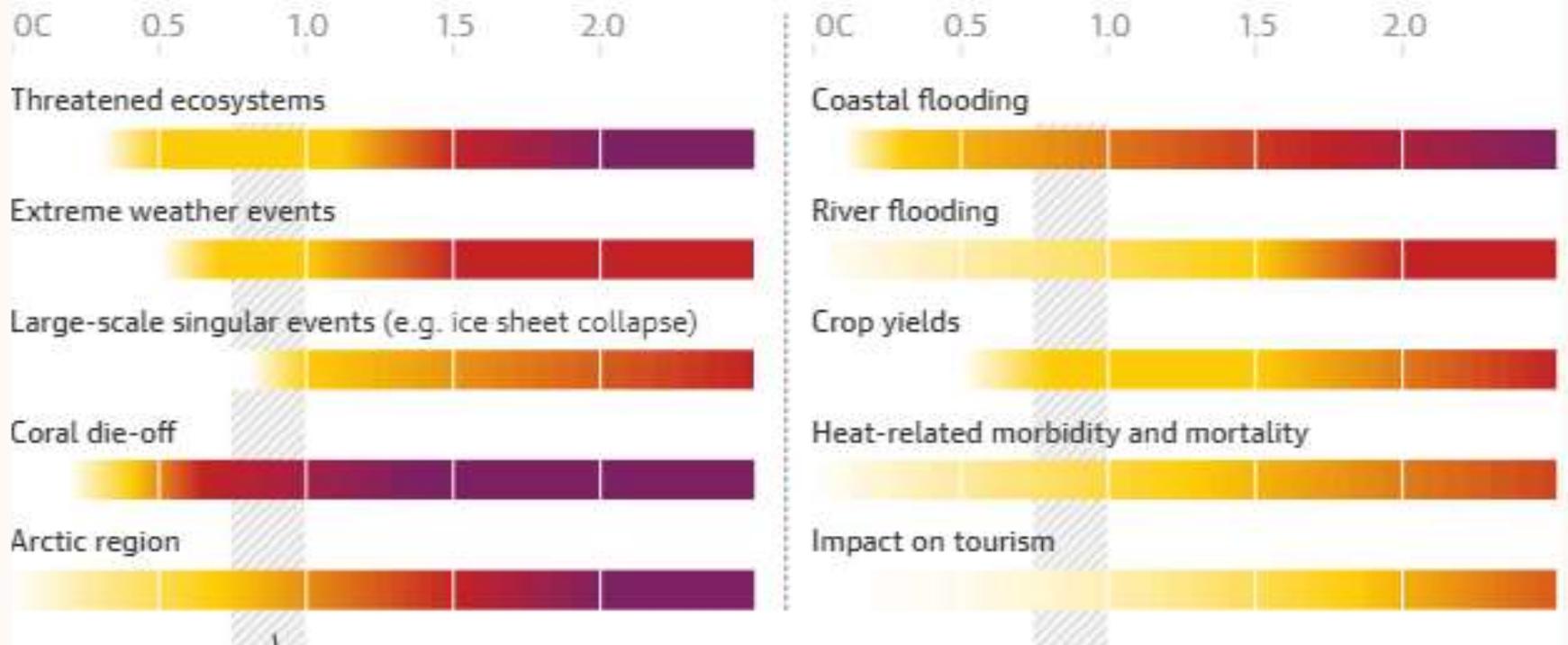
If we act decisively, and innovate and invest wisely, we could both avoid the worst impacts of climate change and successfully achieve the [sustainable development goals](#), as the IPCC report emphasises. If we do not, we face a world in which it will become increasingly difficult for us and future generations to thrive.

# Rising temperatures, rising risks

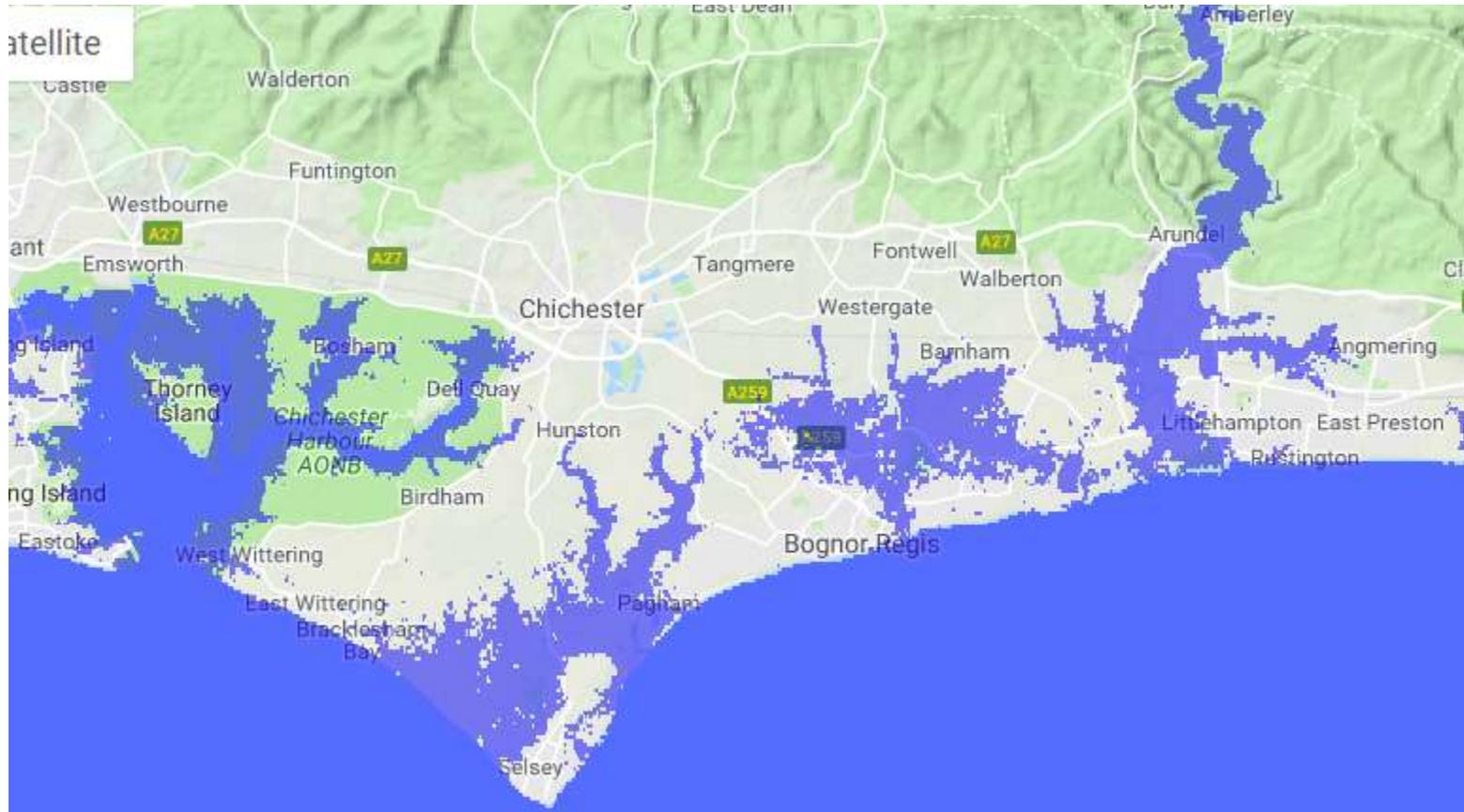
Key to impacts and risks



Global mean surface temperature change relative to pre-industrial levels, C



# 1 m sea level rise which is predicted by UK Climate Projection



# What does this mean for us in Chichester?

- In West Sussex we are likely to see an increase in summer temperatures with less rain than at present. Rainfall is likely to come as storm events leading to increased likelihood of flooding. Sea levels along our stretch of coast are likely to rise.
- WWF says “This century has already seen 17 of the 18 hottest years on record”
- The most memorable and notable signs of our changing climate are heatwaves (with drought) and flooding – the two extremes of changing rainfall patterns. Already this is having an impact and we’ve seen:
  - Flooding
  - Power failures
  - Heavy snow
  - Heatwave alerts
  - Drought

## In Summer:

- increased cases of heat stress and more heat related deaths
- a rise in illnesses such as food poisoning
- water shortages

In Winter there would be fewer cold related deaths but:

- increased likelihood of flooding and storm events causing damage to buildings and roads
- rising sea-levels increasing the possibility of coastal erosion and flooding.

We can mitigate against these events or adapt our lifestyles to help to prevent them.

“Unprecedented shift in energy systems and transport that would be needed to achieve 1.5C of warming”

City Council can look at its own operations but equally importantly can request that other councils engage with actions to help our communities to change via its comments and recommendations.

# Where can we get help?

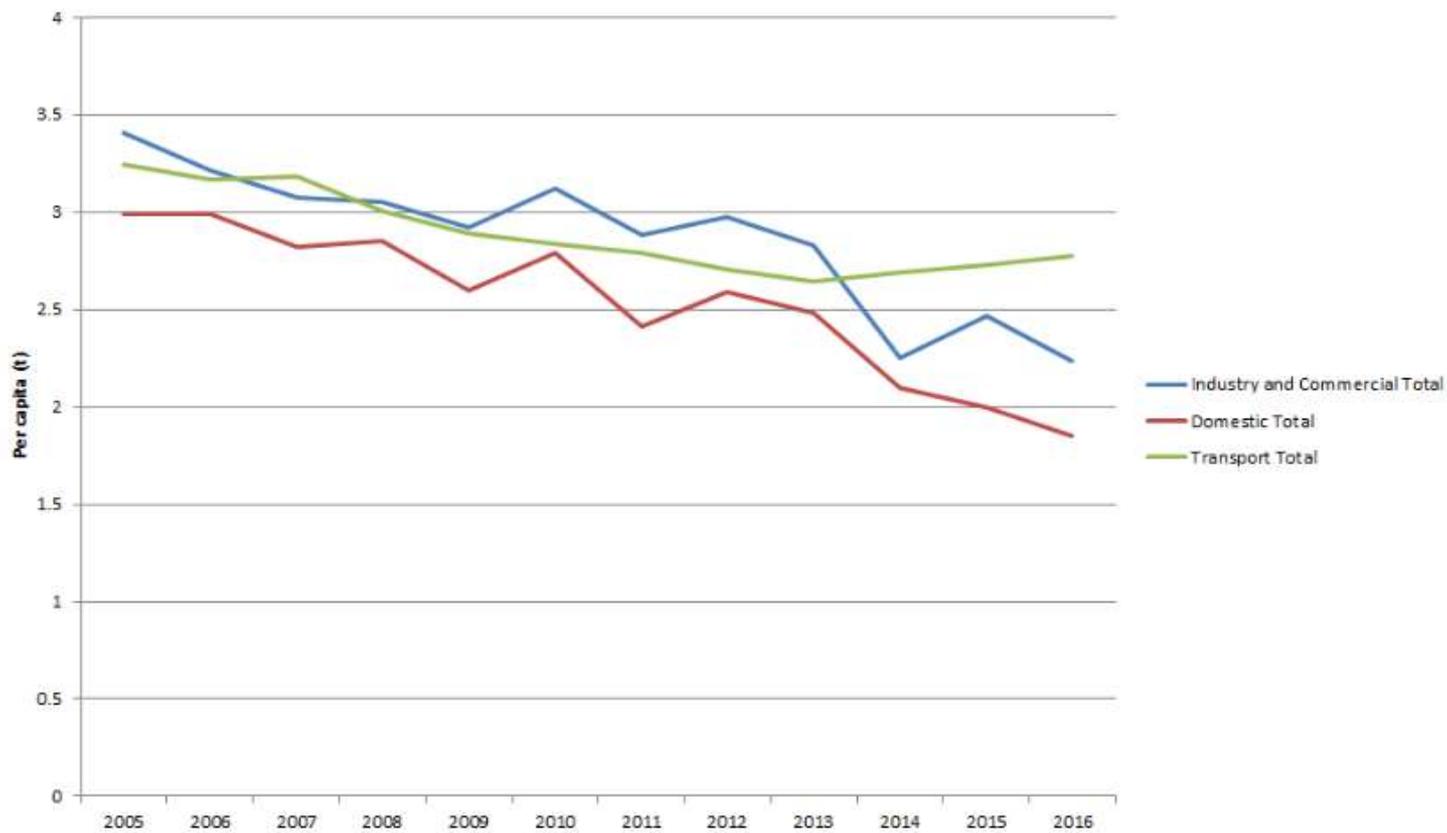
- **Summary for Urban Policymakers sets out the implications of keeping below 1.5 degrees Celsius for urban policymakers: [www.c40.org/researches/summary-for-urban-policymakers-what-the-ipcc-special-report-on-global-warming-of-1-5-c-means-for-cities](http://www.c40.org/researches/summary-for-urban-policymakers-what-the-ipcc-special-report-on-global-warming-of-1-5-c-means-for-cities)**
- **Keeping it Cool by WWF examines how the UK can end its contribution to climate change: [www.wwf.org.uk/sites/default/files/2018-11/NetZeroReportART.pdf](http://www.wwf.org.uk/sites/default/files/2018-11/NetZeroReportART.pdf)**
- **Zero Carbon Britain have a whole host of resources on becoming carbon neutral: [www.zerocarbonbritain.org/en/zcb-publications](http://www.zerocarbonbritain.org/en/zcb-publications)**
- **The Committee on Climate Change has a large number of useful reports: [www.theccc.org.uk/publications](http://www.theccc.org.uk/publications)**

# Blue prints from other cities

- **Energy generation and smart energy**
  - renewable energy generation, smart energy infrastructure, grid balancing and battery storage, solar, tidal, wind, ground and air source, thermal
- **House building, retrofitting and efficiency**
- **Transport** improve public transport, polluter pays, congestion charge, bus services improved
- **Business and industry**
- **Our food, waste and land use** food recycling

- Knowing what to do is only one part of our journey as a city towards becoming carbon neutral by 2030. It is equally important to focus on the way in which we do it. Zero Carbon Britain points out “climate change is not the root problem but a symptom of our materialistic culture and growing disconnection from nature and from each other.”
- We can champion our environmental heritage, steward our environment, spearhead and support local, community actions.
- There are economic advantages to a low-carbon lifestyle but also community and health benefits too.

### Chichester District Per Capita Emissions due to Industry and Commerce, Domestic and Transport sources



# Carbon Emissions per capita tonnes per year – we are contributing more to climate change as an area

- Hastings • 2.9
- Bristol • 3.4
- Worthing • 3.3
- New Forest • 6.1
- Chichester • 6.8

[https://www.westsussex.gov.uk/media/10467/sustainability\\_report.pdf](https://www.westsussex.gov.uk/media/10467/sustainability_report.pdf) This report tells us what West Sussex is doing internally

# New Way forward

- Business as usual is unsustainable – but sustainable businesses are a central part of the answer to climate change. We need a second industrial revolution – one that works in harmony with the environment, rather than damaging it.
- Creating a modern, efficient and productive low-carbon future is the responsibility of business leaders and entrepreneurs – the people who get things done in society.
- The short-term costs associated with creating a lean, green economy will deliver long-term benefits for everyone. We can build a green economy by harnessing what businesses do best: investing and innovating to improve society

# The Good Life

- Climate change threatens our quality of life, by degrading local environments through more widespread droughts and flooding and damaging the health of both the natural world and local communities. Deaths from extreme heat – such as the heat wave that claimed the lives of 2000 people in England and Wales in 2003 – are predicted to increase by 70% in the 2020s.
- Seasonal changes are likely to prolong conditions like hay fever and asthma, and air quality is impacted negatively by burning more fossil fuels. Only clean energy technologies can guarantee a clean local environment.

# Chichester's ageing population

- We will need to champion tree planting to add shade to streets and buildings
- Ensure that all the housing especially for older people is built or adapted to high standards to ensure it remains cool in summer
- We will need to champion public transport to offer ways to get around for our older population when they are no longer able to drive due to ill health and to reduce our reliance on the private car.
- We could profitably back an Integrated Transport Package for the benefit of all our residents.

# Planning and Conservation Terms of Reference

To consider, make recommendations and decisions as authorised on the following :

- All planning applications referred to the City Council.
- All other planning matters concerning the City, including liaison with potential developers or any agencies proposing change in the built environment.
- All matters concerning highways and other means of access in adjacent to the City, or likely to have any impact upon the City.
- Street naming and signing.
- All matters concerning the environment in the City and adjacent to it, or likely to have an impact upon the City.
- Operation of City Environmental matters within an agreed budget.

To appoint such Sub-Committees and Working Groups as may be necessary to fulfil the above requirements. The following Sub-Committees reports to this Committee :

- Planning Delegation Sub-Committee

The Town Clerk shall be authorised to take the necessary action to implement approved decisions of

- “In all of the above, the Council will have due regard to the effects on biodiversity and climate change of any decisions, recommendations or comments it makes.”
- “The Committee acknowledges that climate change adaption and mitigation measures are key to safeguarding the health and well being of the City’s residents.”