

Preparing for the worst or hoping for the best? British priorities on climate change adaptation

26/03/2014



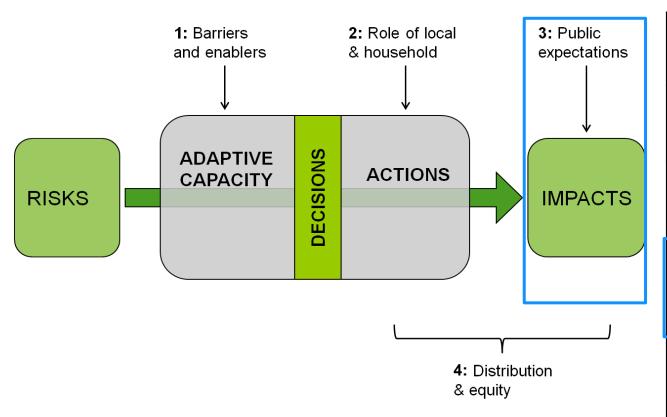
Background to the research

- PREPARE carried out for Defra by Ipsos MORI, Ricardo AEA, Alexander Ballard and University of Leeds in 2012-13
- Overall objective: understand public perceptions of climate risk and adaptation to inform the National Adaptation Plan (NAP) and to provide evidence to help Government to achieve its vision of a well-adapted UK
- Specifically to understand:
 - The extent to which climate change is viewed as important and adaptation as necessary;
 - Which specific impacts are a priority to prepare for and why;
 - Which areas and groups of people are a priority to protect from climate change;
 - What levels of risk posed by climate are acceptable to the public and why;
 - What views do the public have on different adaptation actions?;
 - How is climate change adaptation viewed and who is perceived to be bestplaced to act.



PREPARE Research Programme

- Five areas of social research to support developing adaptation strategy: the NAP
- Focus of this presentation is public expectations around impacts and risk acceptability



Barriers and enablers to organisational and sectoral adaptive capacity – qualitative study

Barriers and enablers to organisational and sectoral adaptive capacity – quantitative study

The contribution and role of local and household level adaptation in overall UK adaptation

The climate risk resilience and adaptation expectations of the public and the underlying motivations behind this

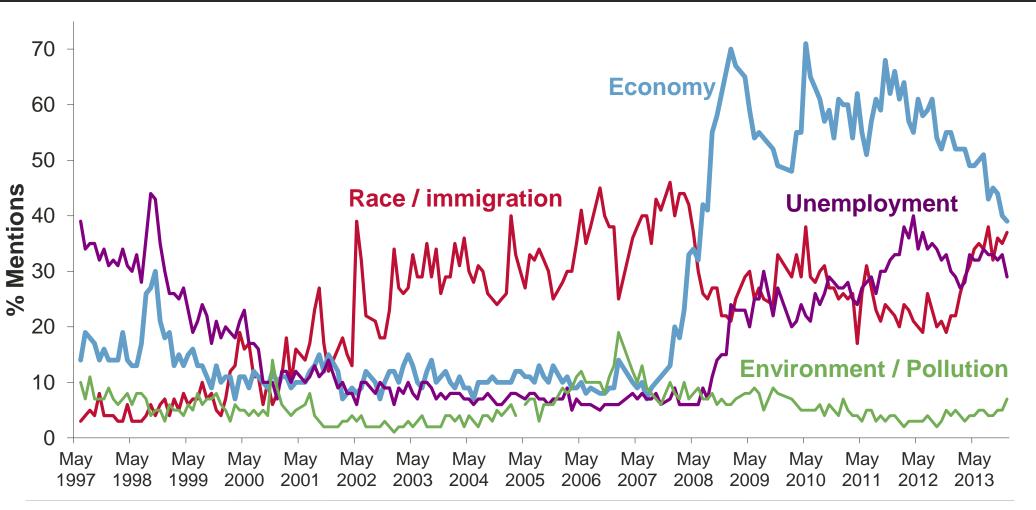
The overall equity and distributional impacts of climate risks, climate change risks and adaptation options for UK citizens



Where is 'the environment' and climate change on the public's agenda?

Compared to the top 3 issues, the environment hardly features

What do you see as the most/other important issues facing Britain today?



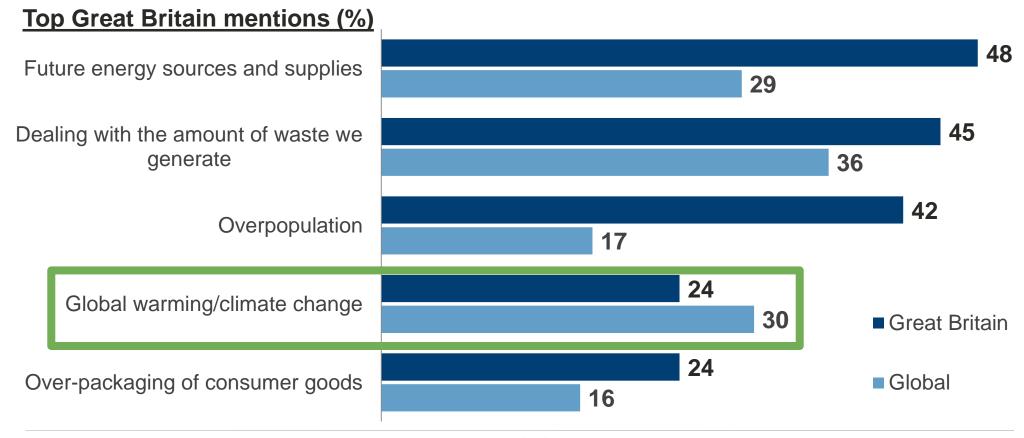
Base: representative sample of c.1,000 British adults age 18+ each month, interviewed face-to-face in home

Source: Ipsos MORI Issues Index



And climate change is not seen as the biggest environmental issue

In your view, what are the three most important environmental issues facing [your country] today? That is, the top environmental issues you feel should receive the greatest attention from your local leaders?



Base: Global -18,503 adults aged 18-64 in the US and Canada, and aged 16-64 in 23 other countries, 6th-20th August 2013 (at least +500 interviewed in each country). Great Britain – 1,000 adults aged 16-65 in Great Britain. All conducted on Ipsos Online Access Panel.

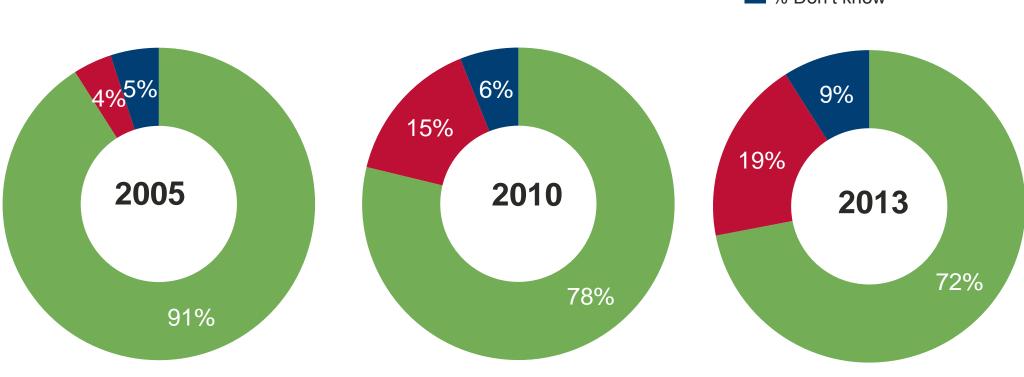
Ipsos MORI Global @dvisor (Environmental Concern)



Nearly three quarters believe that the world's climate is changing but scepticism has increased







split-on-nuclear-power.aspx

Ipsos MORI

And concern about climate change is also falling



82% concerned

2010



71% concerned

2013



60% concerned

Source: Nuclear Power, Ipsos MORI/Cardiff

mori.com/researchpublications/researcharchive/3284/Briti

University/UKERC, 2013 http://www.ipsos-

sh-public-split-on-nuclear-power.aspx



Only Americans are less likely to agree that climate change is anthropogenic

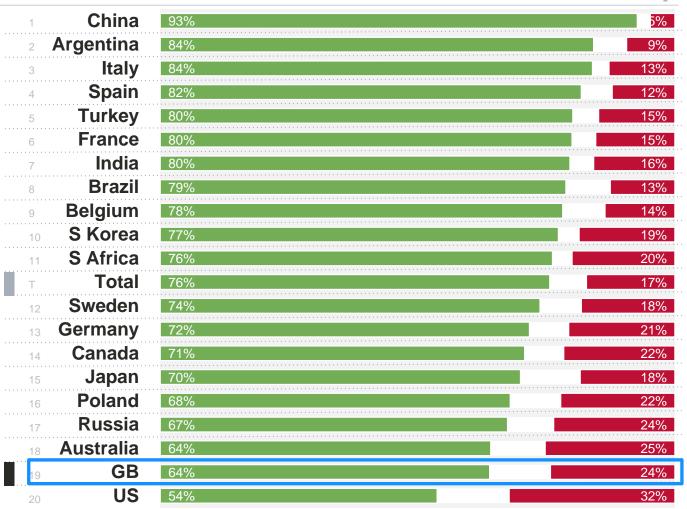
The Global Trends Survey



To what extent do you agree or disagree...

The climate change we are currently seeing is largely the result of human activity?





Base: 16,039 adults across 20 countries (1,000 GB), online, 3-17 Sept 2013

Published

Question 15h



Ipsos MORI

For more information on British attitudes to the environment.....

BRITAIN: A PALER SHADE OF GREEN?



Ipsos MORI
Social Research Institute

www.ipsos-mori.com/Britain-A-Paler-Shade-of-Green

Why 'PREPARE' is relevant now: preparation / risk higher on public radar with the recent flooding (& wide media coverage)





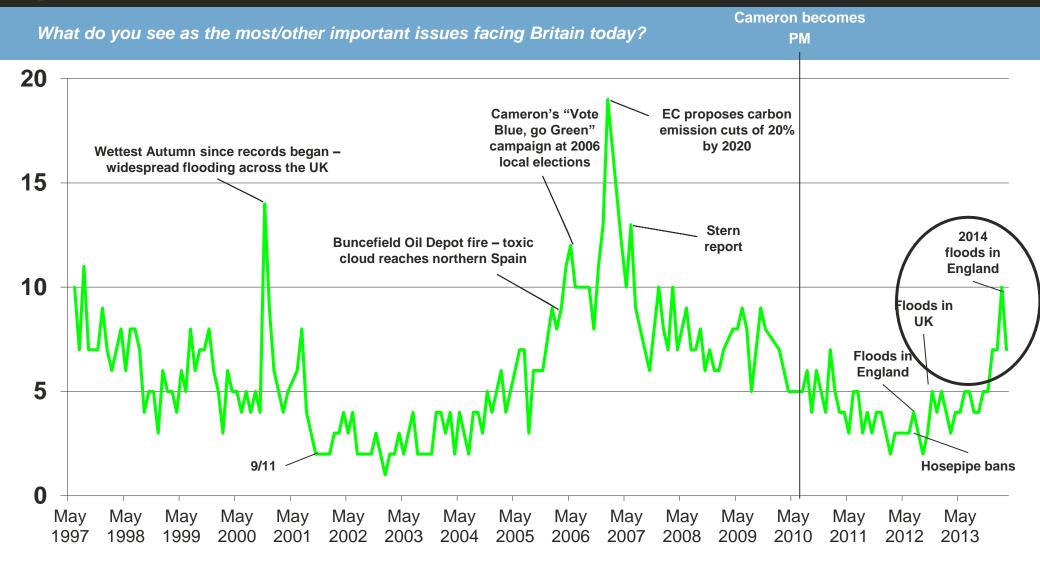








And the 2014 flooding had greater impact on the public consciousness than other recent events

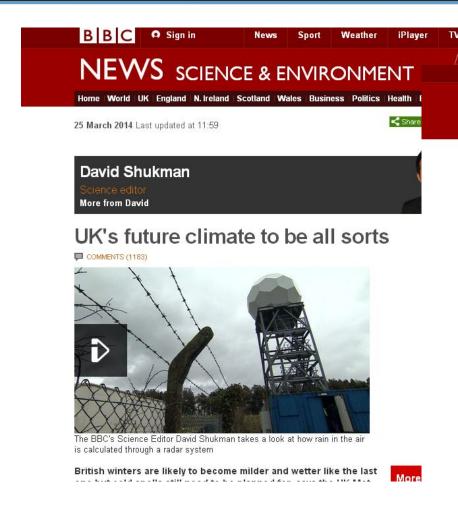


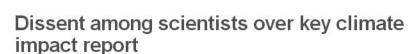
Base: representative sample of c.1,000 British adults age 18+ each month, interviewed face-to-face in home

Source: Ipsos MORI Issues Index



With more predictions on climate change impacts to come from the IPCC...





Home World UK England N. Ireland Scotland Wales Business Politics Health Education



25 March 2014 Last updated at 02:26

BIBIC

By Matt McGrath Environment correspondent, BBC News, Yokohama

NEWS SCIENCE & ENVIRONMENT



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What then are views on climate change adaptation?

First, a recap on the research

Literature review by University of Leeds

Online survey with general public (2,007 interviews in Jan/Feb 2013)

Deliberative workshops with 148 participants in 14 locations (Feb/March 2013)

15 follow-up in-depth interviews with survey respondents (March/April 2013)



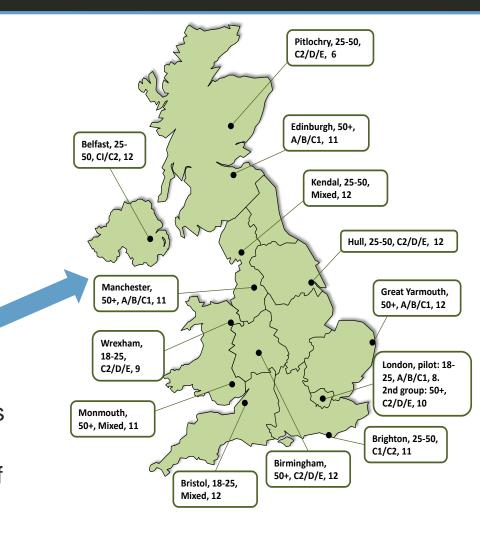
Fieldwork across UK, including range of risk levels & types

Quantitative

- **•Online survey** (n = **2,007**)
 - 30th January 5th February 2013
 - Adults aged 16+ living in the UK
 - Quotas on age, gender, region, and working status

Qualitative

- •14 deliberative workshops across the UK
 - February March 2013
 - 148 participants
 - Geographic and demographic spread across the UK
 - Varied according to exposure to type/level of climate risk.



Location, age range, social grades and number attending 147 participants in total, across 14 workshops in 13 locations across the UK

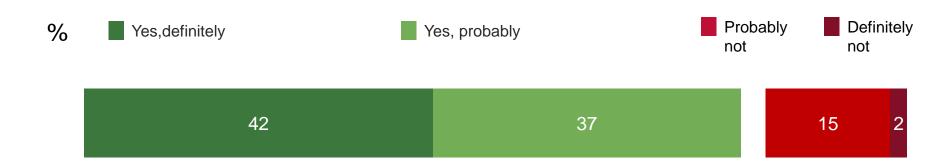
N.B. Fieldwork was conducted soon after widespread heavy flooding across the UK in December 2012.



Do the public agree there is a need to adapt to climate change?

The majority believe they've seen changes in UK's weather

Do you personally feel that over the long term you have seen any changes in the weather the UK experiences?



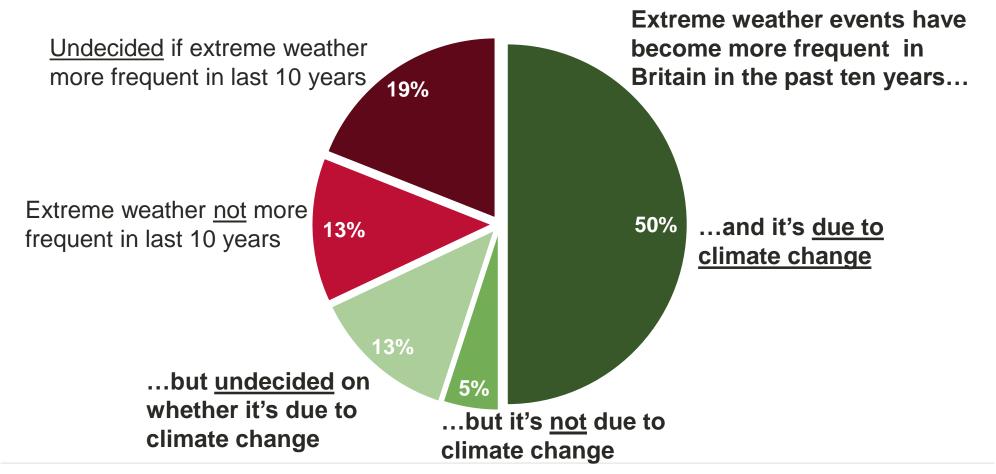






And other studies have shown a majority believe <u>extreme</u> weather is more common and many link it to climate change

Extreme weather events have become more frequent in Britain in the past ten years / This increased frequency is due to climate change

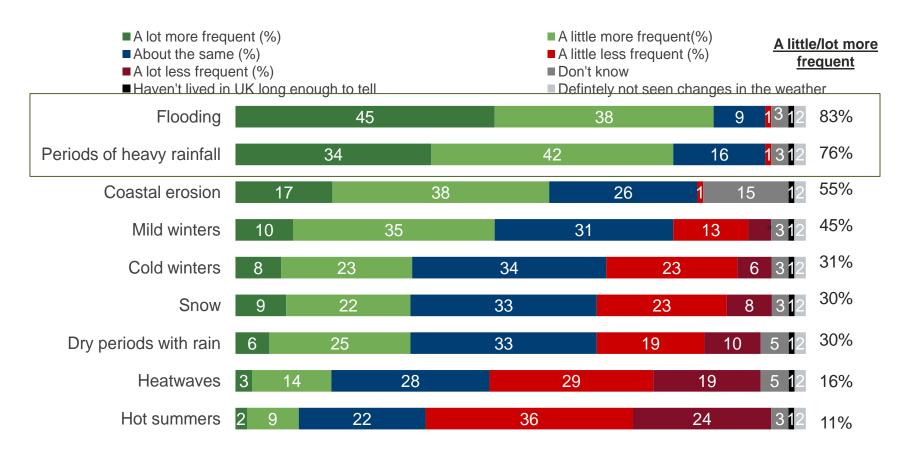


Base: 973 British adults, aged 15+, 8th - 26th March 2013



Flooding and heavy rainfall are thought to be more <u>common</u> in the UK than in the past; heatwaves and hot summers less common

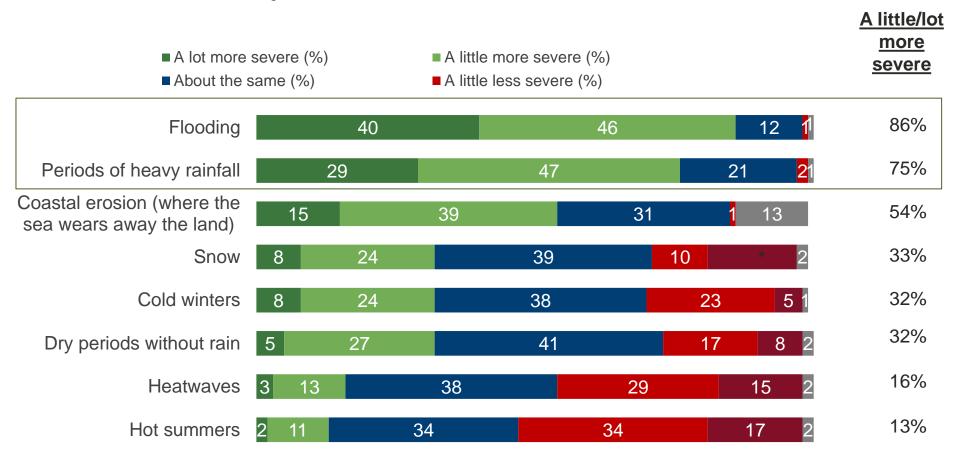
Q5. During your life in the UK do you feel the following have become more or less frequent in the UK, or stayed about the same





Flooding and rainfall also seen as becoming more severe

Q.6a And again, during your life in the UK, would you say the following have become more or less severe or stayed about the same?

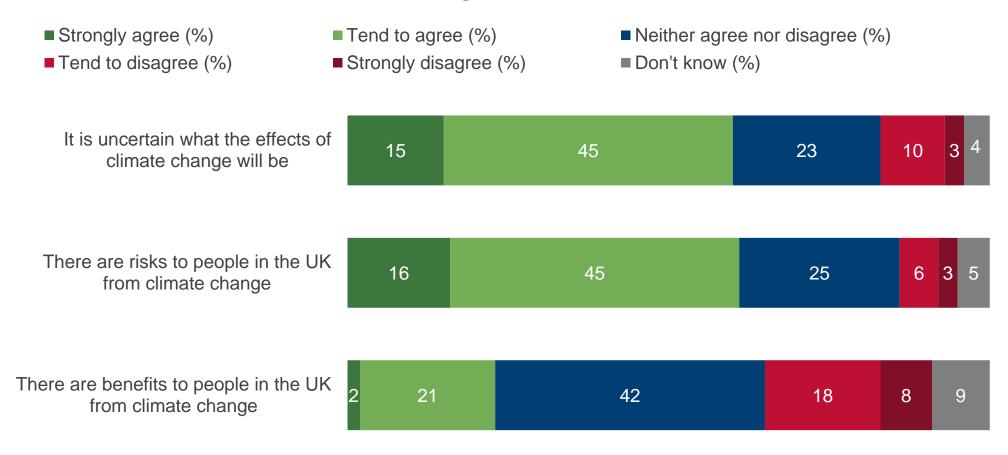


Base: All who feel they have or probably haven't seen changes in the UK weather in their lifetime 1892 people aged 16+ in the UK



The impacts of climate change are seen as uncertain and tend to be seen more as a threat than a benefit

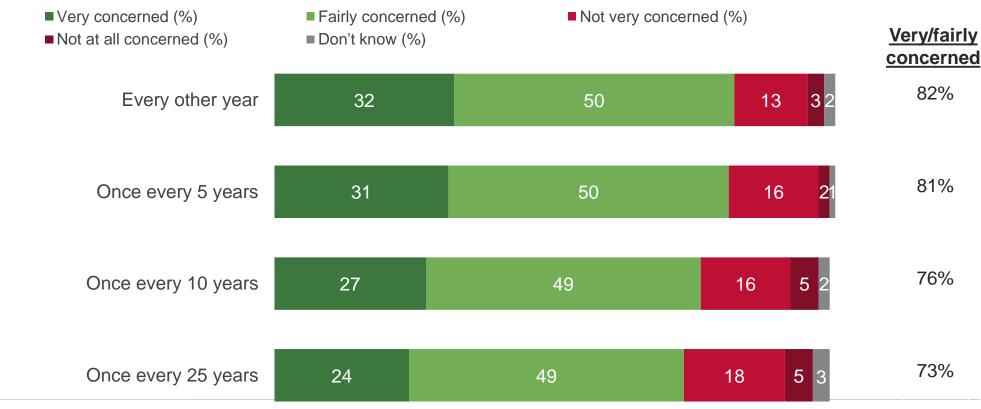
Q32. To what extent do you agree or disagree with each of the following statements about climate change?





And concern is high regardless of frequency level

Q19. The flooding that affected much of the UK in November 2012 affected an estimated 1,880 properties, caused 4 deaths and is likely to cost insurers around £500 million. The total economic losses were higher. Flooding on this scale in the UK is currently very rare. How concerned, if at all, would you personally feel if flooding of this scale (Nov 2012) became more common, so that it was happening about. . . ? [SPLIT SAMPLES]



Base: 2,007 people aged 16+ in the UK, each respondent only saw one frequency statement. fieldwork dates: 30th Jan - 5th Feb 2013



But, the public believe adaptation is possible - including those who believe climate change is natural

Please indicate the extent to which you agree or disagree with the following statement? We can avoid the worst impacts of climate change by planning well for them





There seems to be a hell of a lot more erratic weather, which the country doesn't seem able to adapt to at all. The transport infrastructure doesn't seem up to it, the railway network doesn't seem up to it, that's probably the first thing, just infrastructure generally.

Follow-up depth interview participant, North West region





Man-made

Which risks do the public think are a priority to prepare for?







When asked to select areas to invest in, people hedge their bets, but vast majority support some adaptation

Imagine you are running the country and need to decide what the priorities should be in relation to preparing for climate change and coping with the impacts of climate change. You have 15 tokens to allocate to the things that you feel should be prioritised as areas for investment/action. [10 climate impacts shown, devised from CCRA]

% of all tokens allocated (top issues selected)

Low lying coasts permanently flooded or eroded by rising sea levels



Droughts causing serious water shortages



More homes flooded by heavy rainfall



Public services disrupted by heavy rainfall



Poor harvests, due to extreme weather, pushing up food prices



12%

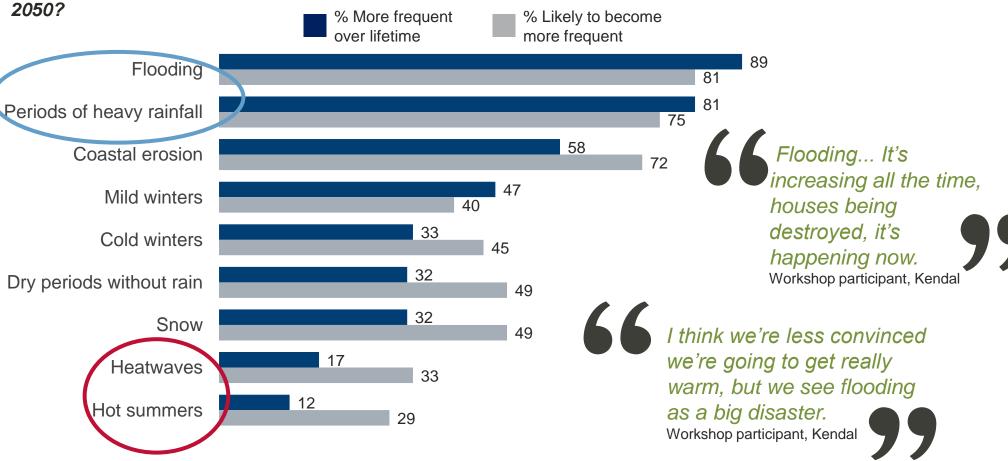
- 'Budget' allocated to 6 different impacts on average and 44% people allocated to 7 impacts or more
- Just 6% did not 'invest' anything



Predictions about weather events tend to be led by personal experience

During your life in the UK do you feel the following have become more or less frequent in the UK, or stayed about the same?

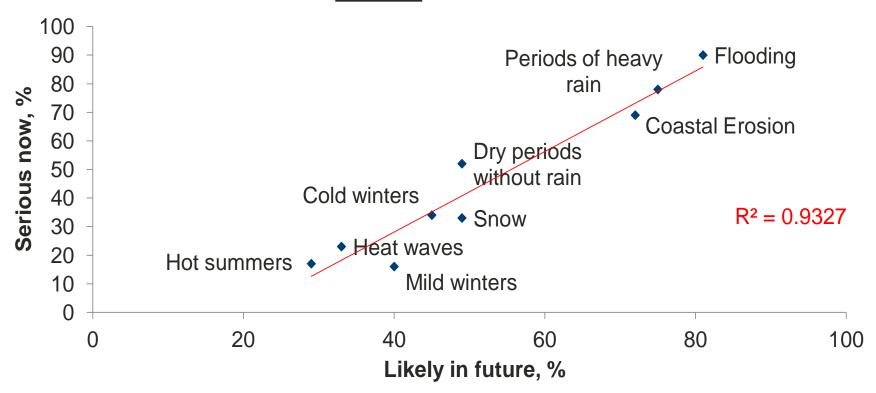
How likely, if at all, do you personally think it is that the following will have become more common in the UK by





Climate risk is a challenging concept to understand or weight up: people base decisions around likelihood on what they believe is a problem now

- Q9. How serious a problem do you think the following <u>currently</u> are for the UK, or do you not think they are a problem at all?
- Q11. How likely, if at all, do you personally think it is that the following will have become more common in the UK by 2050?

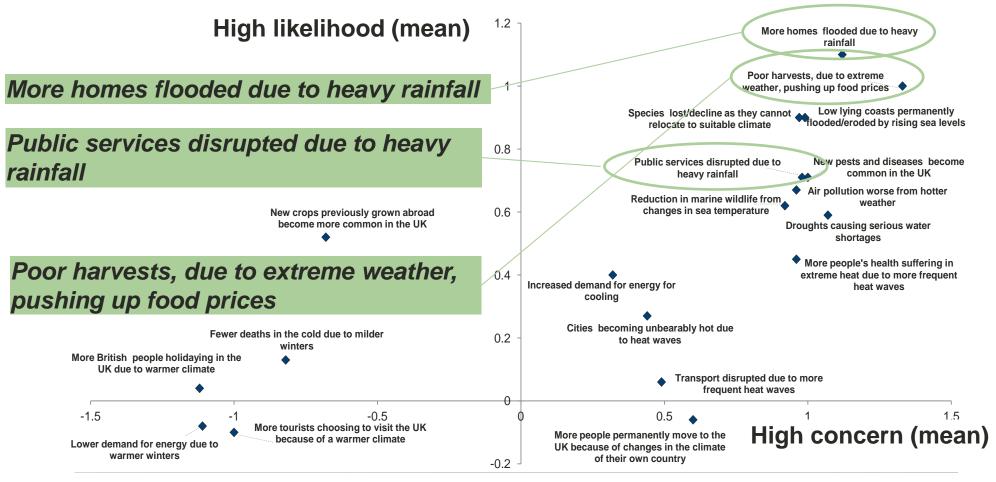




Flooding impacts, higher food prices and species loss seen as most worrying

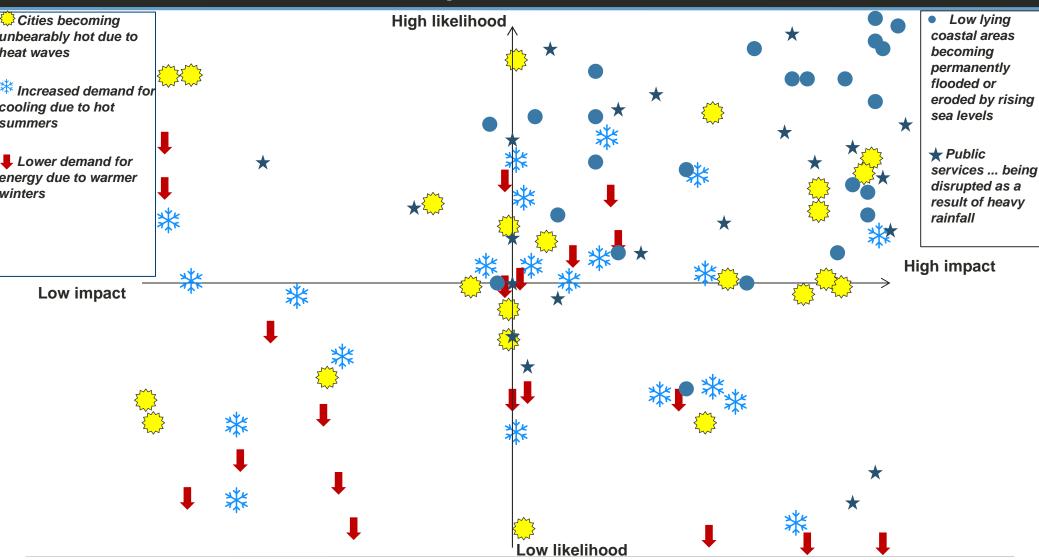
Q13: From your own perspective, to what extent do you agree or disagree that each of the following will be likely to happen in the UK by 2050?

Q14: How concerned would you be, if at all, if the following did happen in the UK?





In the workshops flooding was similarly prioritised, but less consensus on heat related impacts





How do the public think preparations should be prioritised?





Adaptation actions are considered important if...

The workshops showed that the public (across all climate impacts) support specific preparations when the following criteria are met:

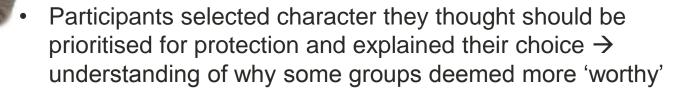
1. They are **effective** in **protecting the UK against widespread loss** (whether this is loss of life, financial impact, impact to biodiversity or others);

2. Preparations have a **range of beneficiaries**, including **individuals**, **business**, **local** and **national government**.

- Climate change **adaptation** is considered **important across all sectors** and all aspects of life
- ➤ The public therefore support a **holistic** approach

Eliciting priorities for which groups of people to protect

- Seven characters created representing different groups of people and combinations of characteristics e.g.
 - Age
 - Rurality
 - Occupation
 - Life stage



















It's fair that people face different risks, but priority should be protecting the economically active

Contributors to society





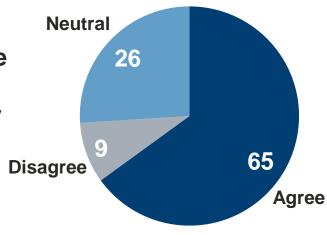




They should prioritise people who are doing more good for the community rather than just helping individuals.

Workshop participant, Edinburgh

It is fair that different people will face different levels of risk from changes in the climate because of where they choose to live





Eliciting priorities for which areas to protect

Posters describing UK floods: 'We can protect towns or country, not both,' says Environment Agency boss

coastal areas

Ministers must decide whether to protect "town or country, front rooms or farmland"

Participants alloca from flooding because there is not enough money to protect both, according to the chairman of the Environment Agency

climate risk



Towns and Cities At risk of...







Flooding Heat wave Drought

Impacts for people...

More premature deaths & hospital visits in hotter weather

More people affected by water shortages

More people at risk of flooding

Fewer winter deaths due to milder winters

Reduced energy bills as less heating needed in milder winters

Impacts for business...

Lose £100 million to £1 billion from reduced staff productivity

because workplaces overheat

Disruption from flooding each year costs £6 million to £52 million more than before

£500 million more insurance class every year due to flooding £200 million to £1.5 billion's worth of commercial prope become at risk of flooding

Tourists bring in £8 billion to £11 billion extra every year

Impacts for environment...

More river pollution due to spills from overflowing sewers Parks and green open spaces less effective at reducing inner-city temperatures



Countryside and Rural Communities

At risk of...



Flooding





Wildfires Drought

Impacts for people...

More people affected by water shortages

More people at risk of flooding

Increased risk of skin cancer

People reliant on agriculture and forestry, and is reas like Scottish highlands and islands worst affected

Impacts for business...

310 km² more agricultural land at risk from frequent flooding Increased risk of landslides affecting transport links Increased crop yields (e.g. wheat yields may double) Changes in types of crops grown in UK (e.g. blueberries, vineyards)

Impacts for environment...

Increased risk of wildfires

Increased risk of animal and plant pests and diseases Lower river water levels affect wildlife and navigation Over half of peat land habitats at risk of decline

Some tree species will increase in yield, while others decline



Coastal areas

At risk of...







Rising sea temperatures

Flooding Coastal erosion

Impacts for people...

More people affected by water shortages

More people at risk of flooding

Low-lying coastal areas in East of Enand, Wales, Northern Ireland and west coast and islands of scotland worst affected

Impacts for business...

35 to 60 km² agricultural land lost through coastal erosion Damage and erosion to coastal roads

Flood damage of £9 million per year to natural and man-made heritage sites

Damage to farmed fisheries due to sea level rise and erosic £8 billion to £11 billion extra revenue from tourism per year

Impacts for environment...

7 to 36 km² beaches lost due to sea level rise

Loss of protected habitats due to coastal erosion and flooding Changes in animal and bird migration patterns

Native marine species die out ar re replaced on-native

species because of warmer seas





Uncertainty over the ability to protect the coast leads cities and countryside to be prioritised







There are more people in towns and cities. Industry needs to be protected and people need to be protected. Cities are the hub of the surrounding countryside so if they go down everything goes with it.

Workshop participant, Kendal

"I think it affects people's livelihoods directly and impacts on community life. If rural communities become an unreliable place to live then people will leave and they will dwindle."

Workshop participant, Kendal

[The] coast has been eroding for years – what makes them think they can stop it? You're just throwing good money after bad. I don't think they'll ever control the seas.

Workshop participant, Great Yarmouth



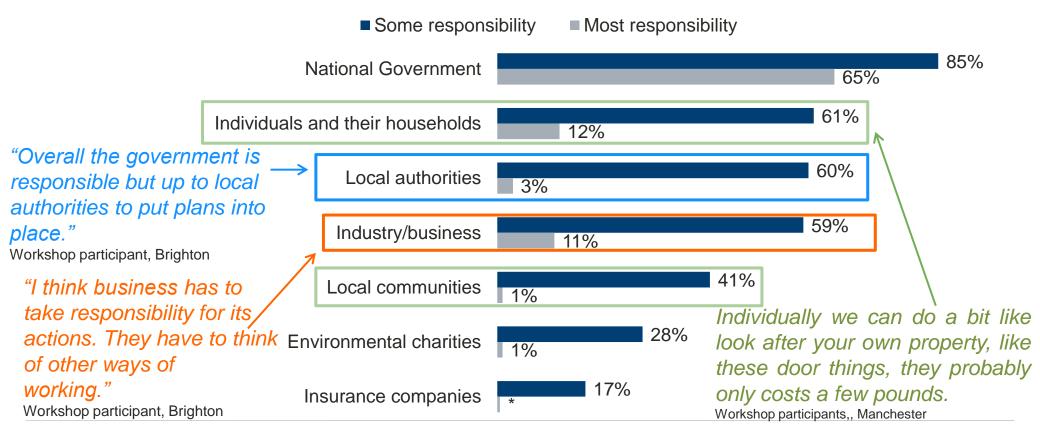
Where does responsibility lie for helping the UK to adapt?



Public look to national government, whilst also seeing important roles for individuals, business and local authorities

Please indicate which, if any, of the following groups you think should be responsible for taking action to deal with the consequences of climate change in the UK?

And please now select up to three of the following that you feel should have most responsibility for taking action to adapt to climate change in the UK?

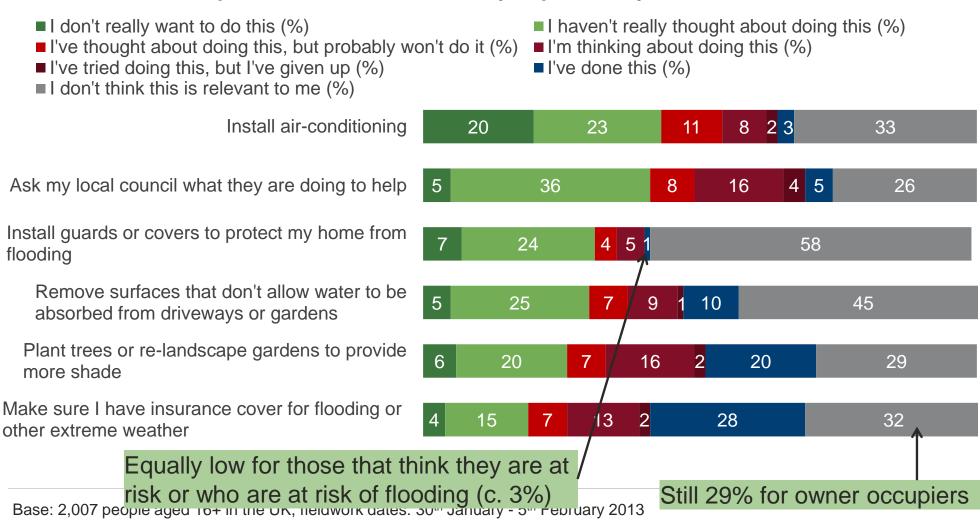


Base: All those who think more than one group should be responsible for taking action to deal with climate change



BUT, most wouldn't take individual adaptation actions, including actions that might be more relevant to them

Q24. Here are some other changes that people might make to adapt to changes in the climate. Which of the options best describes what you personally think about each of these?





Slightly more think that responsibility for protecting houses from floods should lie with government (than individuals)

Q18a. And now please consider the following statements and indicate the extent to which you agree or disagree with them?



Protecting my home from a flood is my responsibility



The government is responsible for protecting properties against flooding





Conclusions





Key findings

- The public support investment in adaptation even if it means preparation is made for events that never happen
- The public understand, and accept, that different areas and people face different risks
- Greatest priority is placed on protecting critical resources and areas of economic importance
- •The public conceptualise risk based on current events and past experiences it is a challenge for them to envisage a different future
- Flooding is therefore a key concern, but warmer temperatures less so
- Responsibility should mainly be with government but there is a role for householders and business there may be a future challenge to increase individual engagement with personal actions





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