





Department of Health

## Under The Weather Keynote Address

Professor David Walker Deputy Chief Medical Officer Department of Health

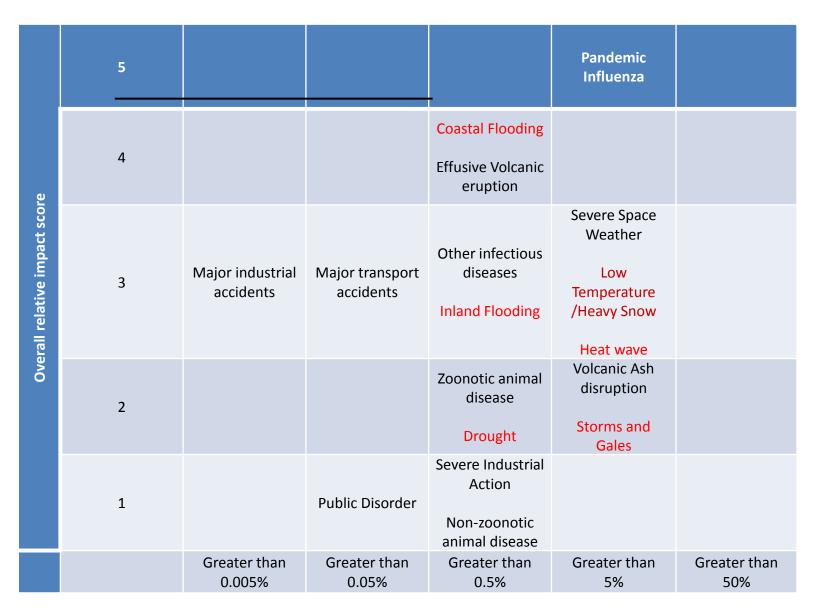
## Outline



Department of Health

- Challenges of climate change for health and social care
- National Legislative Framework
- Health and Social Care system
- International Climate Change and Health
- Health Co-benefits of lowering emissions

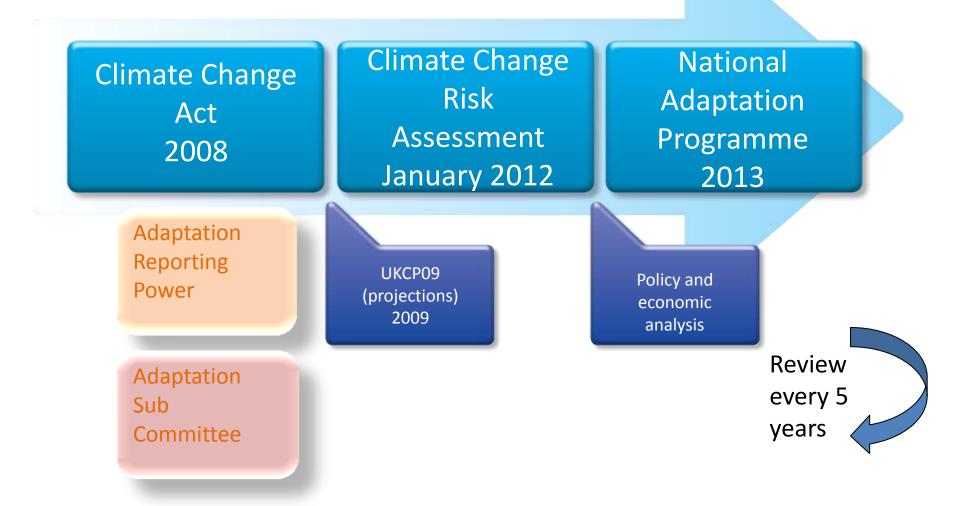




## Legislative Framework



Department of Health



How the health risks are managed...

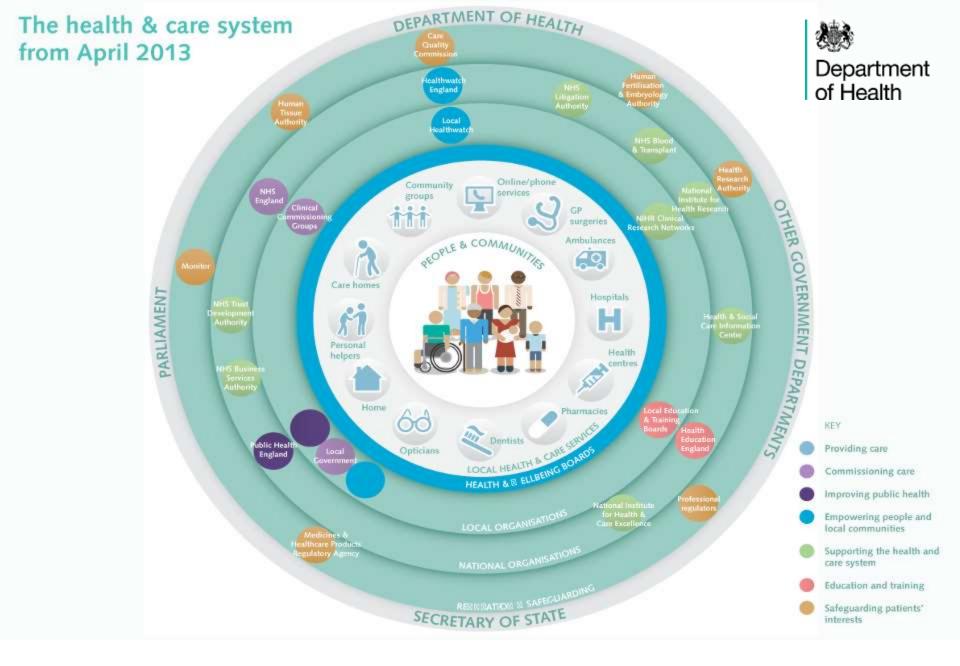
NAP 'Healthy & Resilient Communities'



Department of Health

- <u>Obj. 11.</u> Reduce the risk of death & illness associated with severe weather events & CC... increase preparedness & resilience to impacts on public health...
- <u>Obj. 12.</u> Ensure continuity of services & resilient assets / estates, adapt to expected increased demand from severe weather-related events...

NAP Steering Group – DH, PHE, SDU, NHS England, Defra, EA



## **Levers for Action**

- National:
  - Health & Social Care Act 2012
  - Climate Change Act 2008: Adaptation Reporting Power -SDU to report for health and social care sector
  - Scrutiny by Adaptation Sub Committee, reporting 2015
  - Civil Contingencies Act 2004
  - National Planning Policy
     Framework
  - Building Regulations
  - Flood & Water Management Act 2010

### Local:

- PHOF SDMP indicator,
- H&WBs, JSNAs,
- Local Health Resilience
   Partnerships
- Local Resilience Forums
- Local Adaptation Plans
- Local Flood risk mapping and strategies
- Built environment / town planning





## International collaboration 'Climate Change is Global'

- WHO Resolution on Climate Change and Health (61.12), 2008. 2013 – workplan to be renewed. Global conference in August 2014.
- Commonwealth Ministers agreement to cooperate on climate change and health. WHA, May 2008
- UK co-chaired the WHO (Europe) Climate Change Task Force, to develop a Framework for Action on Climate Change and Health for the European Region.
- WHO European Environment and Health 5<sup>th</sup> Ministerial Conference, Parma, 2010
- DH chairs the WHO Euro Working Group on Health Impacts of Climate Change (HIC)
- UNFCCC COP Paris 2015



## Department of Health



### **Health Co-benefits**

- Lancet co-benefits research, Nov 2009, LSHTM
- Health benefits of low carbon actions in transport, built environment, food and agriculture, both in the UK and the developing world
- Eg Health benefits from low car use
  - increased active transport
  - reduce obesity,
  - reduce urban pollution,
  - reduce road traffic accidents.
  - 'Greener' fuels also lead to reduced indoor and outdoor air pollution.
- In WHO European region : 800,000 deaths/yr outdoor air pollution 1.5 million from indoor air pollution 1.9 million from physical inactivity 2.6 million from obesity
- WHO 'Health in the Green Economy' series



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### Lower carbon saves lives! – and money!



### Think SD! - Supports growth, saves lives, improves wellbeing

- Health and social care sector can provide leaders
  - People trust health care professionals
  - 1.3 million workers involved
  - Touches all of our lives
- Raise awareness and communicate case for action
  - Public engagement, transformational behaviour change.





Department of Health

- Find the right place for climate change adaptation/ sustainability
- Manage the complex interactions of partnership working over diverse areas
- National drivers are in place to help local actions – eg risk registers
- 'Under the Weather' can assist local adaptation



## UNDER THE WEATHER: Evidence: Who and What are Affected and How?

Professor John E. Thornes, Principal Climate Change Scientist Public Health England

Air Pollution and Climate Change Group, Toxicology Department Centre for Radiation, Chemical & Environmental Hazards (CRCE)



## Outline

- \* Introduction: Climate Change and Health
- \* Public Health England Research & Policy
- \* Adaptation: Ambulance Response Times
- \* Mitigation: Air Quality: Public Transport
- \* Innovation: BUCCANEER Model
- \* Climate Ready: Be Smart Be Resilient



## Environmental Sustainability

Public Health

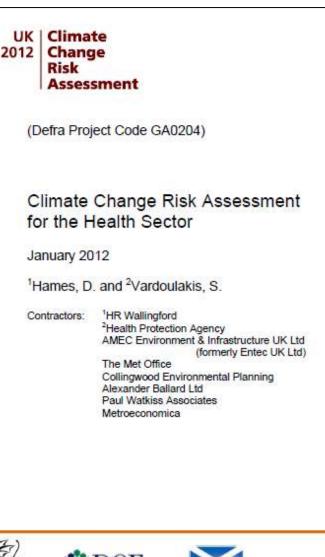
Air Pollution Climate Change

## Climate Change Risk Assessment (2012)

### **Health Sector**

- Temperature mortality and morbidity (heat and cold)
- Summer air pollution mortality and morbidity (ozone)
- Extreme weather event mortality, injuries and mental health (floods)
- Sunlight / UV radiation exposure

National Adaptation Plan (2013)







## Health Effects of Climate Change in the UK (2012)

### Contents

- 1. Current evidence and climate projections
- 2. Temperature
- 3. Air pollution
- 4. Aeroallergens
- 5. Indoor environment
- 6. Ultraviolet radiation
- 7. Floods
- 8. Vector-borne diseases
- 9. Water and food-borne diseases
- 10. Health co-benefits

www.hpa.org.uk/hecc2012



Health Effects of Climate Change in the UK 2012 Current evidence, recommendations and research gaps

Sotiris Vardoulakis and Clare Heaviside (Editors)



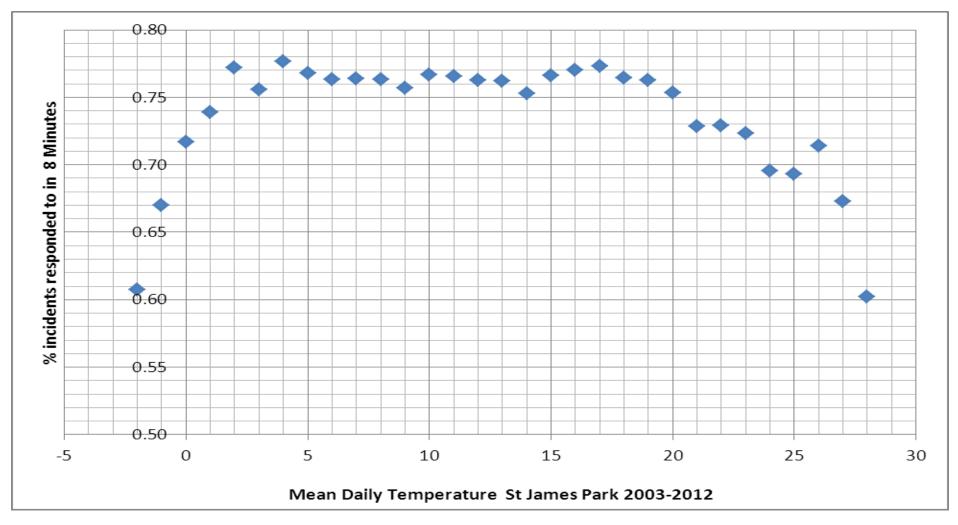


## Ambulance Response Times in Severe Weather

- Evidence: In 2012/13 More than 9 Million
   emergency ambulance 999 calls in England.
- \* That is almost 25,000 calls per day of which about 8,000 triaged as life threatening. "A Snapshot of the Nation's Health".
- \* 75% of CatA (life threatening) calls within 8 mins
- \* Performance falls below 75% when Temperature is below 2 DegC or above 20 DegC.



# **EVIDENCE:** Impact of Temperature on 3.7m Ambulance 999 Response Times

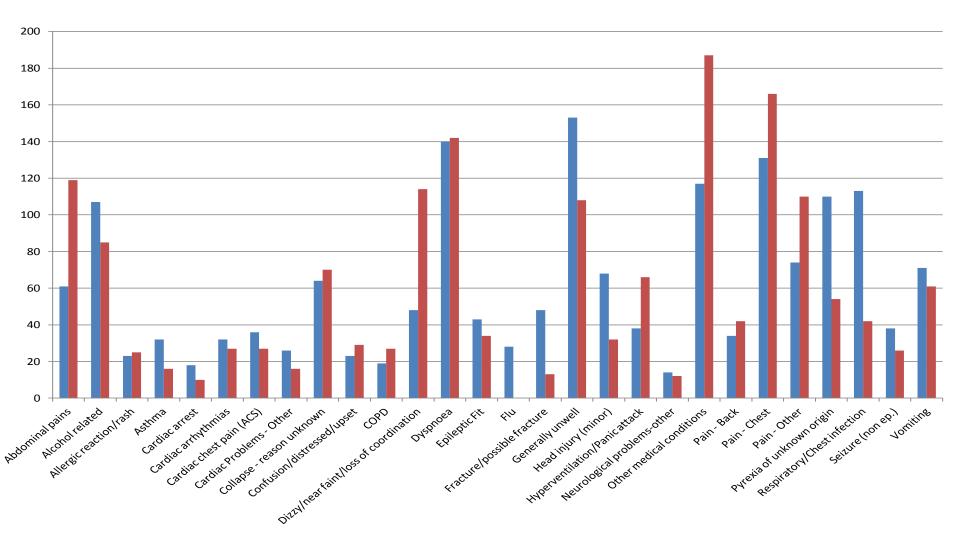


(Thornes et al. 2014)

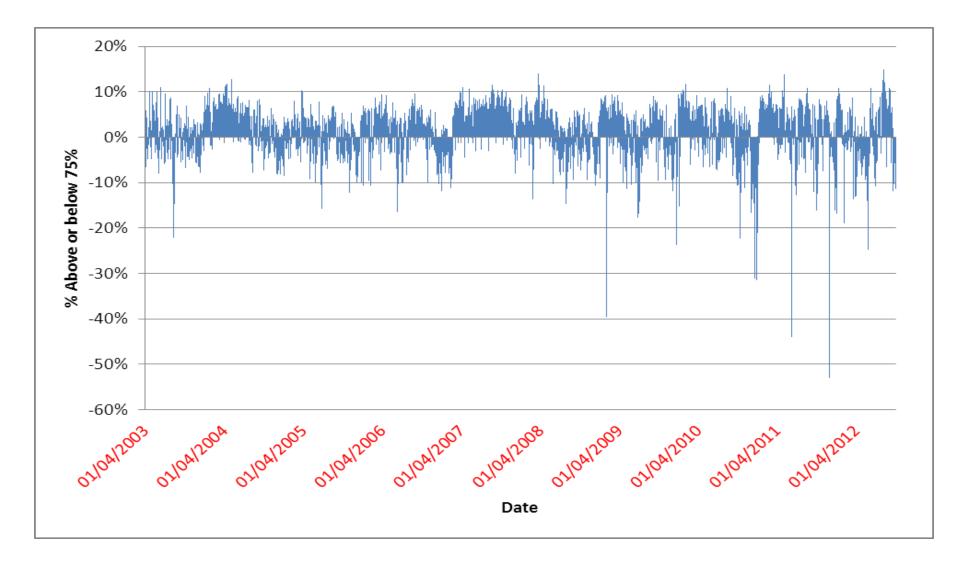
#### WMAS



## **EVIDENCE:** LAS Selected Daily Total Illness Codes: 17<sup>th</sup> December 2010 (Blue) versus 22<sup>nd</sup> July 2013 (Red)



# Evidence: LAS Daily Cat A Response Rate % above or below 75% within 8 minutes

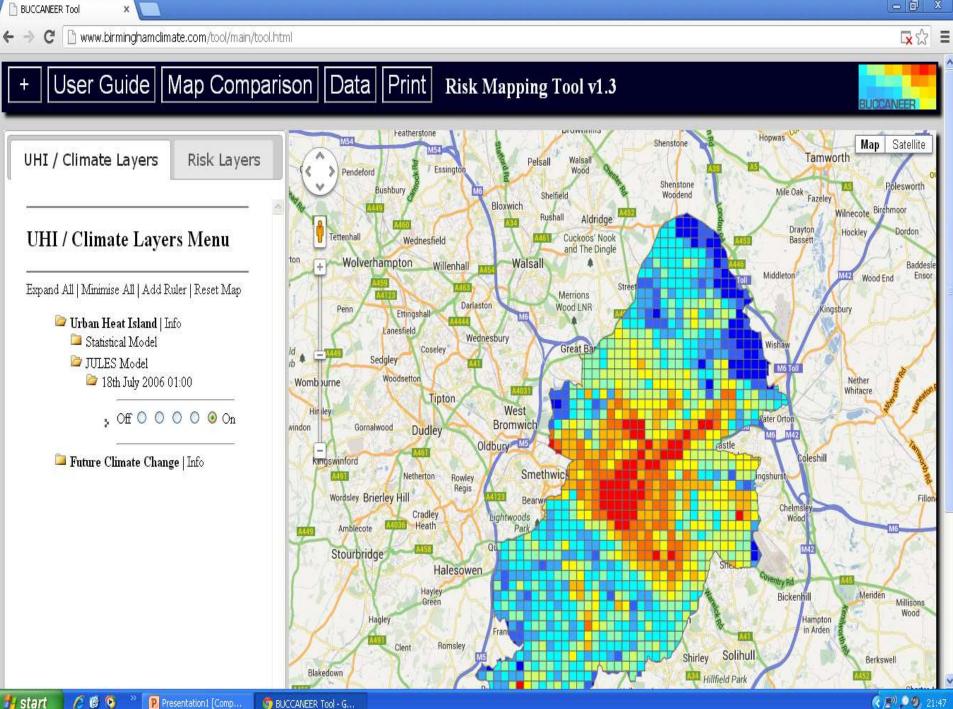




# New New Street Station BUCCANEER

(Birmingham Urban Climate Change Adaptation with Neighbourhood Estimates of Environmental Risk)

## Thermal Comfort & Air Quality

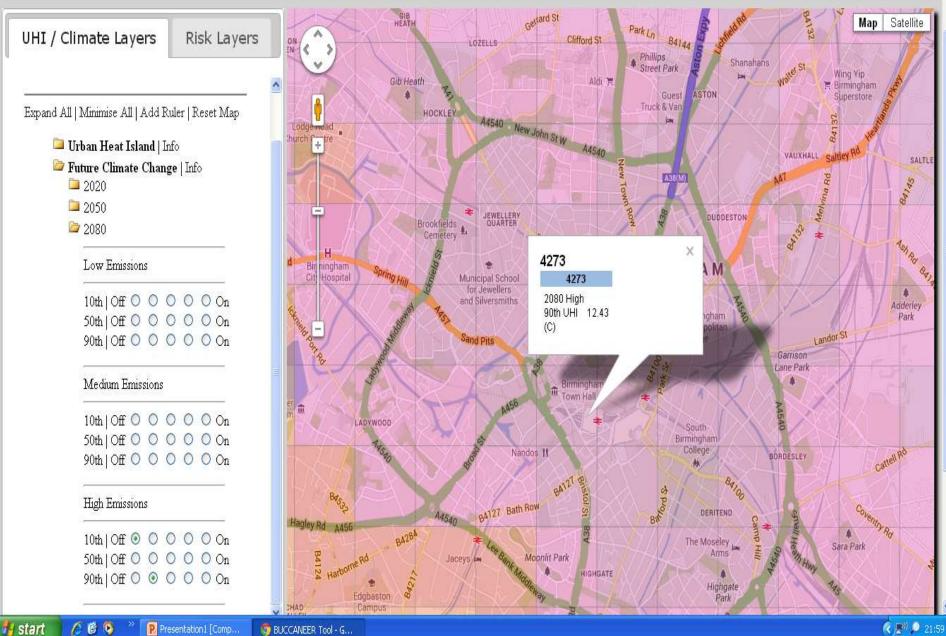


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BUCCANEER Tool

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2030 Low Emissions	6.14 C	10th	7.54 C	50th	9.44 C	90t
2080 Low Emissions	6.24 C	10th	8.14 C	50th	10.44 C	90t
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2020 Medium Emissions	5.64 C	10th	6.64 C	50th	7.94 C	90t
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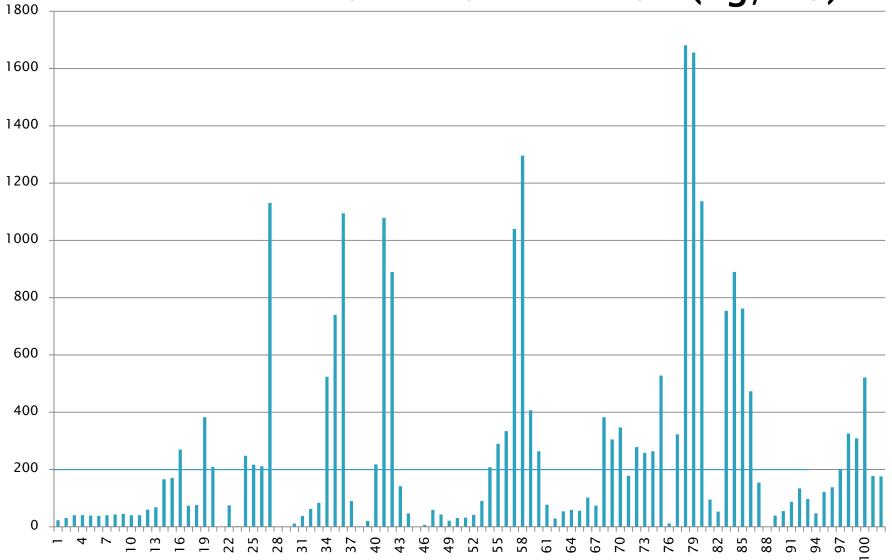


## LORD STAFFORD AWARD 2013 BUCCANEER - Birmingham Urban Climate Change Adaptation with Neighbourhood Estimates of Environmental Risk

### Innovation for Environmental Sustainability Award Winner



## **Evidence**: New Street Station NO2 (ug/m3)





## COMEAP Information for the public

Main Menu	The Health Effects of Air Pollutants
- Home	
Membership	Air pollution causes a number of effects on health
II Subgroups	including: wheezing, coughing; worsening of asthma;
- Documents	changes in lung function; deaths and hospital admissio from respiratory and cardiovascular diseases.
Contacts	Many studies have shown that current levels of air pollutants are linked with effects on
II Links	health.
Health Effects of Air Pollutants	Levels of air pollution are monitored widely in the UK. Data provided from monitors allows us to estimate the scale of the effects of air pollution on health in the UK today.
Pollutants Cardiovascular disease and air pollution Asthma and air pollution	Researchers link this information to information from doctors and hospitals to assess whether any relationship exists between the levels of a pollutant and illness or death using epidemiological studies. Read about the use of <u>epidemiological studies</u> and <u>loxicoporcal studies</u> in air pollution research
Public Health and Policy Development	Pollutanta
Current thinking/issues in air pollution and health	Read about the health effects of short- and long-term exposure to these pollutants



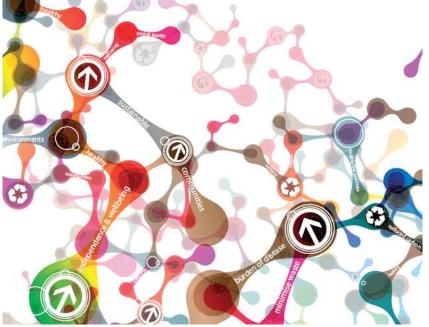


#### Review of the UK Air Quality Index

A report by the Committee on the Medical Effects of Air Pollutants







## James Mackenzie

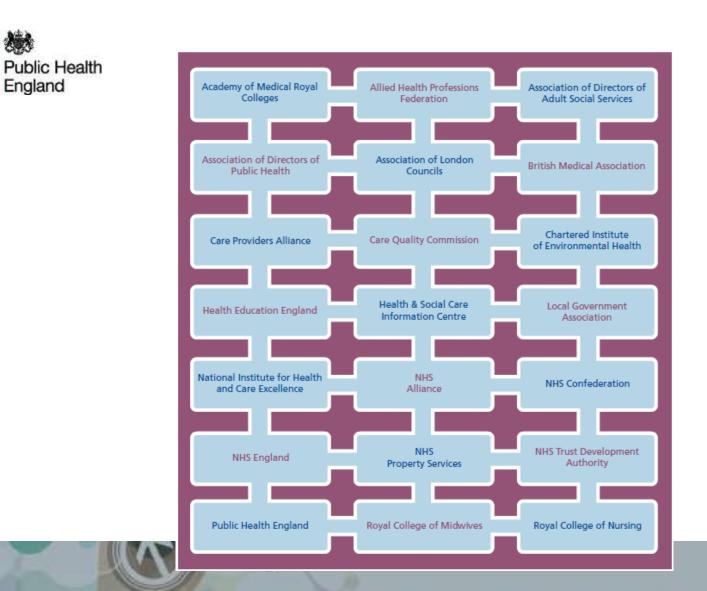
Senior Business Manager

## Sustainable Development Unit

Sustainable, Resilient, Healthy People & Places

A Sustainable Development Strategy for the NHS, Public Health and Social Care system





1

England

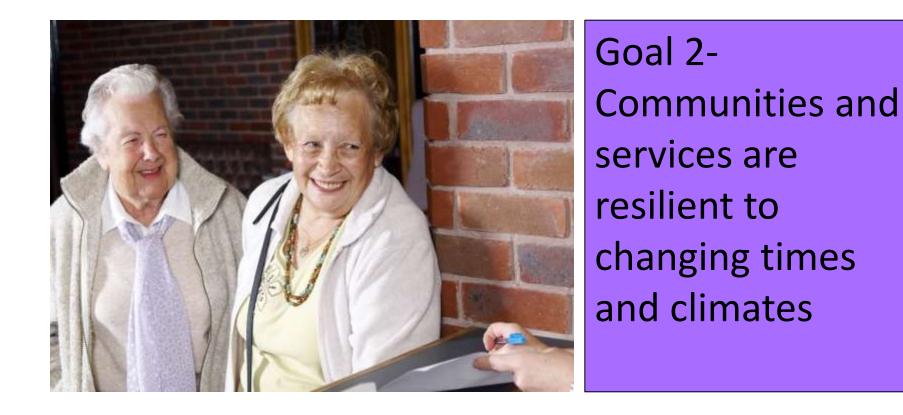
England

### Sustainable, Resilient, Healthy People & Places

A Sustainable Development Strategy for the NHS, Public Health and Social Care system







### Sustainable, Resilient, Healthy People & Places

A Sustainable Development Strategy for the NHS, Public Health and Social Care system

JSNAs Sustai	Health and Wellbeing Strategies HWBB reports Hability as an identifiable component of local plans				
Organisation:					
1. Board approved plan	<ul> <li>Sustainable Development Management Plan (or equivalent) including carbon reduction, adaptation plans and actions across the sustainability agenda</li> </ul>				
2. Measure, monitor and report	<ul> <li>Statement of progress and action on sustainable development and adaption performance with recognisable core standard figures in annual report</li> </ul>				
3. Evaluation	<ul> <li>Evaluation, for instance with the Good Corporate Citizenship self assessment tool, to ascertain areas of strengths and opportunities for development</li> </ul>				
4. Engage staff, service users and the public	<ul> <li>Engagement with public, patients, clients and staff to help understand and support the development of a more sustainable and resilient health and care system</li> </ul>				





Public Health England

## Module: Healthy, sustainable and resilient communities

Healthy, sustainable and resilient corn

- Public services and communities work together within a high level framework for sustainable development
- Current and future risks to health and wellbeing from changing times and climates are understood and minimised
- Communities, services and infrastructures are prepared and resilient to weather events and other crises
- Health and wellbeing is protected and improved by building on social assets, reducing environmental harm and enhancing the natural environment.





- Public Health Outcomes Framework -Number of public sector organisations with a Sustainable Development Management Plan
- National Adaptation Programme ARP
- CCG annual reporting requirements
- NHS Standard contract









### Sustainable, Resilient, Healthy People & Places

A Sustainable Development Strategy for the NHS, Public Health and Social Care system



### UNDER THE WEATHER

Jon Clubb

Director, Climate UK & Climate Change Coordinator, Your Climate

### OUTLINE

- Background to Climate UK and Your Climate
- Key Climate Messages for Yorkshire & Humber
- What help is available locally?



### THE CLIMATE UK NETWORK

- 1 Sustainability East
- 2 Climate East Midlands
- **3** London Climate Change Partnership
- 4 Climate NE
- 5 Climate Change Northwest
- 6 Climate South East
- 7 Climate SouthWest
- 8 Sustainability West Midlands
- 9 Your Climate Climate Change Partnership for Yorkshire and Humber
- **10 Climate Northern Ireland**
- 11 Adaptation Scotland
- 12 Welsh Assembly Government



### YOUR CLIMATE PRIORITIES



- Engage clearly and simply with businesses
- Build capacity and expertise in public, education and 3rd sectors
- Develop projects to support a resilient and low carbon future
- Influence and support the Natation Adaptation Programme



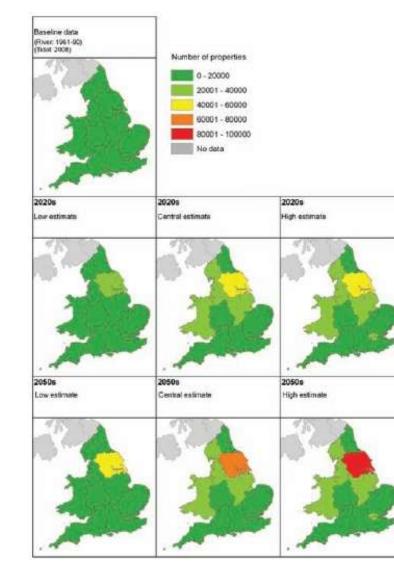


### **CLIMATE MESSAGES FOR Y&H**

### **UKCP09 Climate Projections**

(central estimate, medium emissions scenario) Winter mean +4% +11% +15% rainfall Summer mean -19% -23% -8% rainfall Summer mean +1.3°C +2.3°C +3.3°C temperature 2020s 2050s 2080s

### **FLOOD RISK AND DEPREVATION**



Number of properties in England & Wales in the highest 20% of deprived areas at significant risk of flooding

CCRA, 2012



### **CLIMATE MESSAGES FOR Y&H**

### **Health & Wellbeing**

- Areas of high flood risk and high deprivation
- Impacts exacerbated by disadvantage
- Exacerbation of existing health conditions
- Changing nature of health needs
- Challenges to healthcare delivery





### **PROVIDING SUPPORT**





- Evidence
- Research
- Guidance
- Tools
- Projects





Thank you.

Jon Clubb Director, Climate UK & Climate Change Coordinator, Your Climate

jon.clubb@climate.uk.net

07970 120827



### Introducing Under the Weather:

# Improving health, wellbeing and resilience in a changing climate

Jim Hodgson Climate Change Advisor Climate Ready Support Service

### **Climate Ready Support Service**

- 3 year programme launched in 2012
- Part of Government's wider adaptation programme
- Aim: to help 'key sectors increase their resilience to climate risks' by incorporating climate risk management into routine business decisionmaking:



### National Adaptation Delivery Group: Healthy and Resilient Communities





The National Adaptation Programme

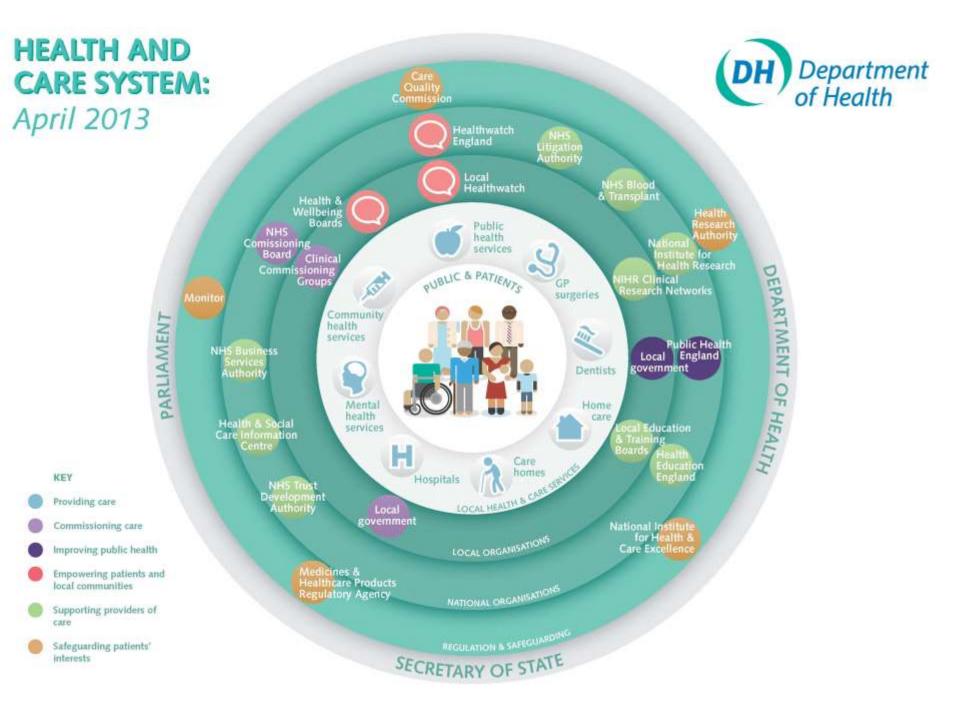








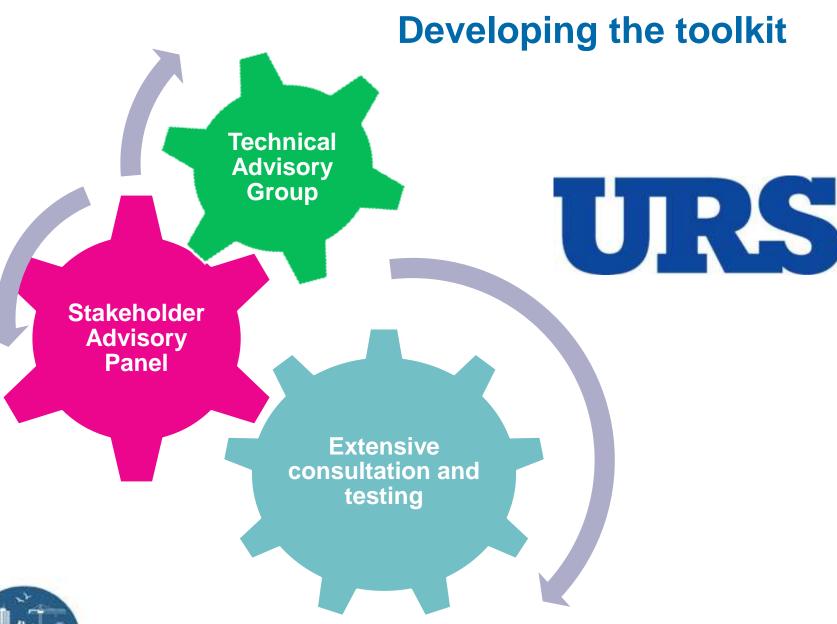




### Adaptation for Health and Wellbeing Boards: Assessing Customer needs

- Stage 1: 2013 Health workshops
  - Run in partnership with CUK
  - Support from NAP delivery partners
- Stage 2: Market research
  - Economics
  - Identifying vulnerable populations
  - Risk assessment
  - Case studies





CLIMATE READY

### **Getting Ready:**

Understanding the benefits of adaptation

**Enabling action:** 

What you can do in your role

**Becoming climate ready:** 

**Tools and resources for adaptation** 







### Adaptation and Resilience What Social Care Has to Offer

### **Catherine Max**

### 'Under the Weather' Launch Events Manchester and York, February 2014







# From safeguarding to social value?







### Sustainable social care and personalisation: a guide for community

engagement



ADULTS' DAVIS SOM REPORT IS

Sustainable systems of social care





methods for excitence SCIE



Local

Government

changing conversations

Climate change and health reforms

Independence, community and environment

Final report of the Sustainable Social Care Learning Network







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social care:

LONDON PARTNERSHIP



The ethics of sustainable health and Towards a framework for decision-making







PUBLISHED DECEMBER JOTT

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Seasonal Health Interventions Network improving health and well being

www.islington.gov.uk/seasonalhealth



ISLINGTON



Your social housing in a changing climate

January 2013





Photo courtesy of Friends of the Earth

### Adaptation resonates with social care

'Many of the principles used in social care, such as risk assessment, harm reduction, resilience and the importance of early intervention, are equally useful when we think about the environment.'

Bradshaw, Sillett and Walker

Independence, community and environment

Scie 2010

### **Expectations are growing**

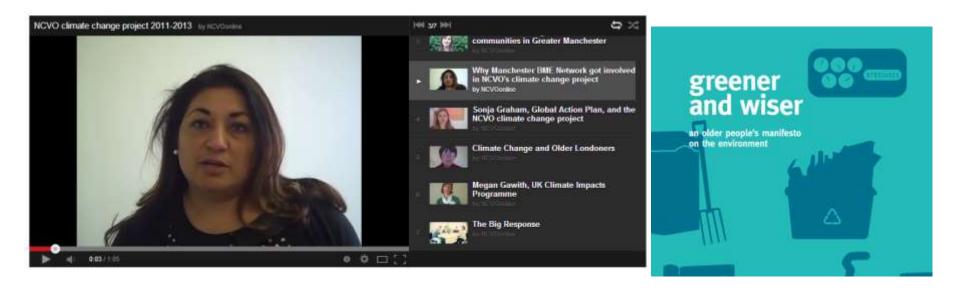
'The generations coming into social care now are going to be more environmentally aware so it is about accepting people as individuals and helping them to take control and continue to be self-sufficient if they want to be.'

Service Manager Gill Scott, quoted in

Making adult social care greener

Community Care 8 April 2011

### Service users are environmental leaders







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### Think global, act ... personal

'Community-based models of personalisation, such as those that adopt the principles of coproduction, localism and time-banking, have great potential to facilitate the development of care and support that is environmentally, economically and socially sustainable.'

> Evans, Hills and Grimshaw Sustainable systems of social care Scie 2010

### **Connectivity and quality of life**













### **Community and resilience are key**

'Building resilience in people's lives and their experiences of community is now key to modern social care. It's also the key to adapting to uncertainty such as climate change, and makes this work topical and timely.'

Peter Hay, Strategic Director for Adults and Communities Birmingham City Council in <u>Changing climate, changing conversations</u> LGA 2011

### Thank you!



www.catherinemax.co.uk catherine@catherinemax.co.uk @catherine\_max



### Climate Change, Vulnerability and the Voluntary Sector

Supported by:







National Council for Voluntary Organisations giving voice and support to civil society



### **The National Council for Voluntary Organisations**

### Champion volunteering and the voluntary sector Strengthens voluntary organisations Grow and enhance volunteering

10,000 members right across sector



### 171,000 VCOs across England

### <sup>1</sup>⁄<sub>4</sub> VCOs Health and Social Care

### Statutory sector spends £3.39 billion on health services delivered by VCOs

Supported by:







### **The Project**

- 2 year project April 2011 March 2013
- 4 cohorts of VCOs working in England:
  - Older people (London)
  - Disability and mental health (London)
  - BME communities (Manchester)
  - Low income (Hull and Portsmouth)

# What impact will climate change have on your beneficiaries and work?



### Cohorts

U3As, volunteering bodies, user-led organisations, big, SMall, learning disability groups, community garden, mental health agencies, homelessness organisations, stroke/brain injury specialists, Older people's forums, arts organisations, youth groups, faith, asylum/refugee, advocacy bodies, lunch clubs, work programme, Age UKs, advice agencies, student unions

National Council for Voluntary Organisations giving voice and support to civil society





### **Beneficiary projects**

- Special events
- Games
- Surveys
- Art sessions
- Songs
- Life-skills discussions
- Trips





## **Further information**

## Climate Change, Vulnerability and the Voluntary Sector Report

http://www.ncvo.org.uk/practicalsupport/impact/climate-change

Leesa.herbert@ncvo.org.uk Tel 0207 520 2557 National Council for Voluntary Organisations giving voice and support to civil society









#### Under the weather: Health and wellbeing and climate change



Katharine Knox, Joseph Rowntree Foundation

#### **Role and focus of Joseph Rowntree Foundation**



#### **POVERTY**:

To identify the root causes of poverty and injustice

#### PLACE:

**OUR WORK THEME** 

To support resilient communities where people thrive

#### AGEING SOCIETY:

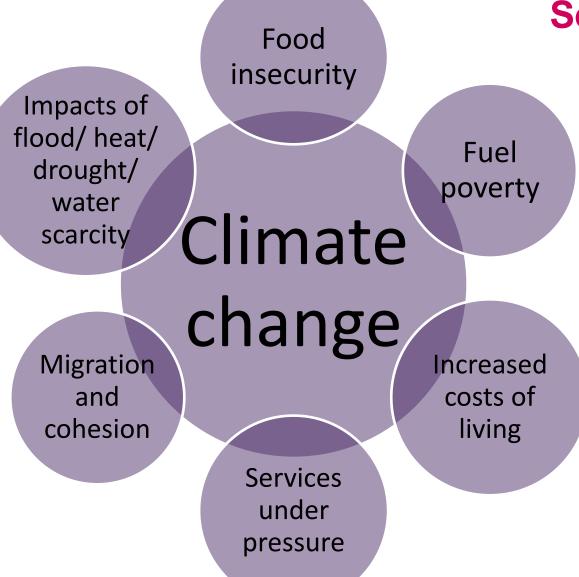
To respond positively to the opportunities and challenges of an ageing society



# Social impacts of climate change

Climate change will affect health and wellbeing in different ways from direct impacts of flood, heat, drought and water scarcity to issues over costs of living, including due to policy responses from energy and other policies eg affecting fuel poverty and food security



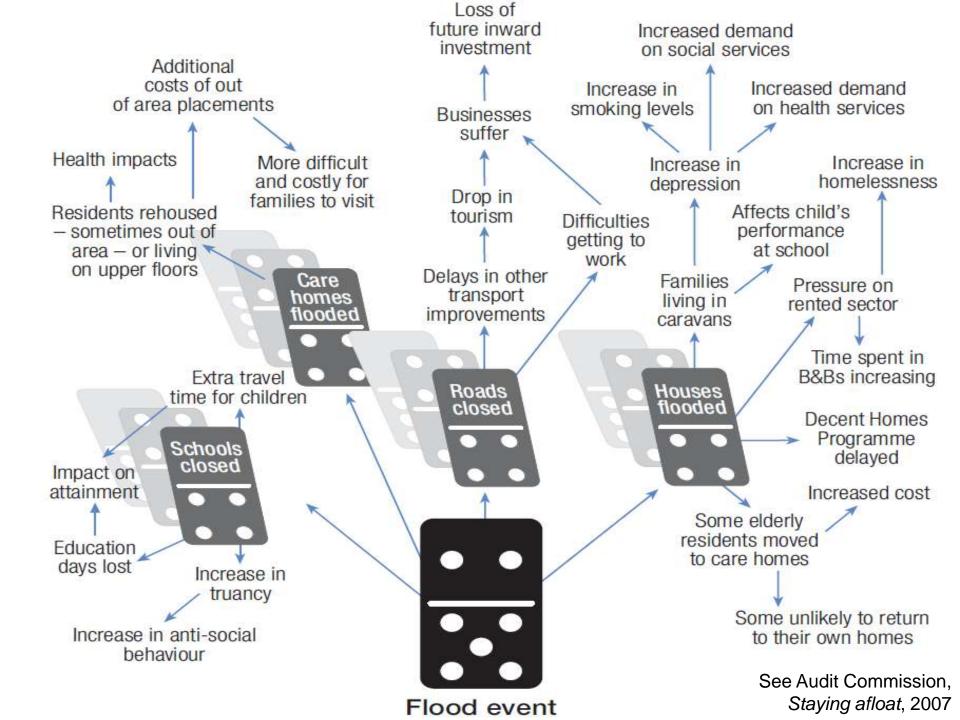




#### What are the issues?

#

Dyls Now Open - Fully Licenced For Flod And D



### Why does social justice matter?

- Distributional justice: climate impacts and policy/practice responses could increase health and other social inequalities
- Procedural justice: whose voice is heard in decisions, who decides what action is taken?
- Inter and intra-generational justice: implications of responses today for future generations

JRF focus on vulnerable groups incl people facing poverty and disadvantage





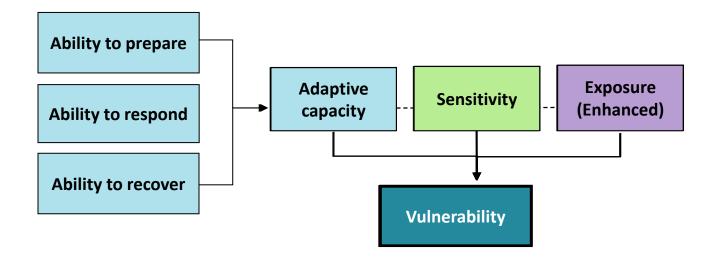
#### Who is vulnerable and how does it link to wellbeing?

- Vulnerability is a matter of how external stresses impact on well-being
- People are more vulnerable if they are less able to respond to stresses placed on their well-being
- Key questions: how is vulnerability distributed? And how should inequality be measured?
  - 1. Likelihood and severity of the weather related event flood, heatwave
  - 2. Vulnerability: The conversion of the event into welfare impacts and losses
  - 3. Climate disadvantage is a function of 1 and 2.



## Who is vulnerable to flooding?

- Dynamic social and spatial issue (changes over people's lives)
- Personal, social and environmental factors
- Climate disadvantage = the likelihood & degree of exposure to a hazard e.g. flooding/ heatwave combined with vulnerability

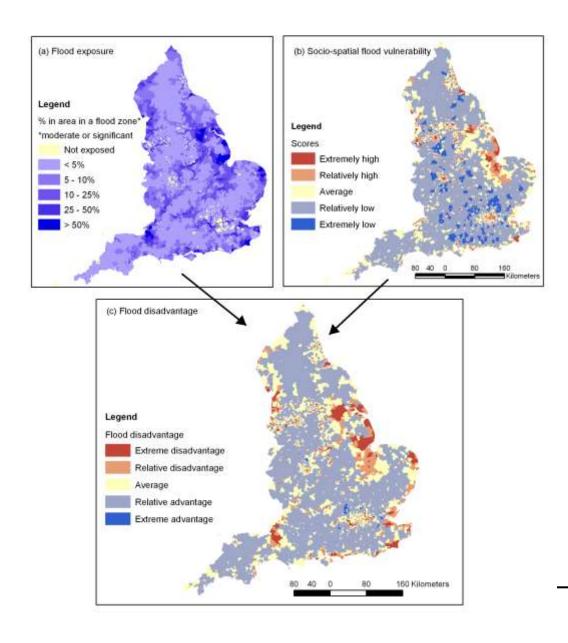




### Important factors affecting vulnerability

Social factors: Adaptive capacity	Personal factors: Sensitivity	Environmental factors: Enhanced exposure
Low income	Age (very young & elderly)	Neighbourhood characteristics (green/blue space)
Tenure: ability to modify living environment	Health status: illness	Housing characteristics: (e.g basement/ high rise/ single storey buildings)
Mobility and access to services	Special care	Buildings (ventilation/cool spaces)
Social isolation	Homeless, tourists, transient groups	High housing density
Information and local knowledge		
Access to insurance		





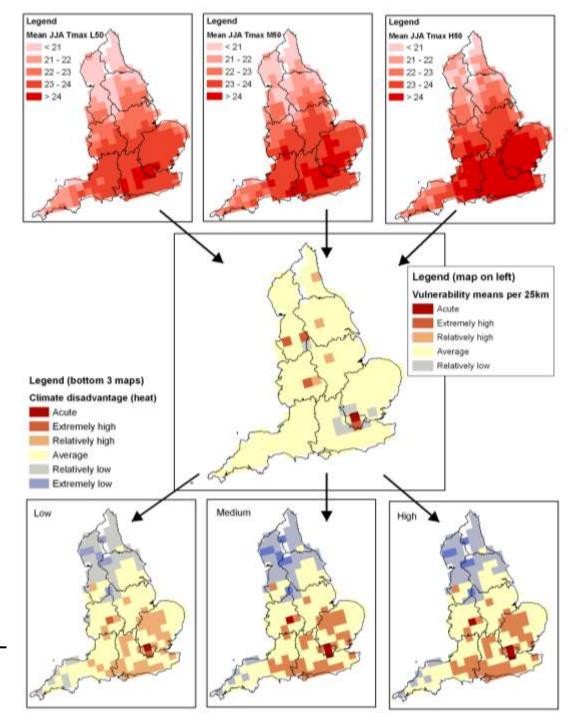
## Flood disadvantage in England

- Some areas have both high socio spatial vulnerability and high potential exposure to flooding
- Urban and coastal areas particularly vulnerable
- Most flood disadvantaged region is Yorkshire & Humber (ie social vulnerability coincides with high likelihood of flooding)

JRF JRHT

# Heat disadvantage in England

- London's high average vulnerability to heat is coupled with a tendency for higher temperatures so makes it a particular area of concern
- Other areas of concern mainly in south and east
- Also questions re water availability and drought in some of these areas



#### **Messages from JRF research...**

- Compounded injustice in relation to climate change in UK
  - Low income households who contribute least to problem (lowest emissions) also...
  - Among worst effected by climate change impacts
  - Pay more and benefit less from responses to it (through energy bills & measures)
  - Often have least voice in decisions
- Poverty is an important factor increasing vulnerability
- To support resilience, need to build adaptive capacity – to prepare, respond and recover from climate impacts



### Aims of ClimateJust...

To provide information & guidance that can support practitioners at a local level to develop socially just responses to climate change in UK

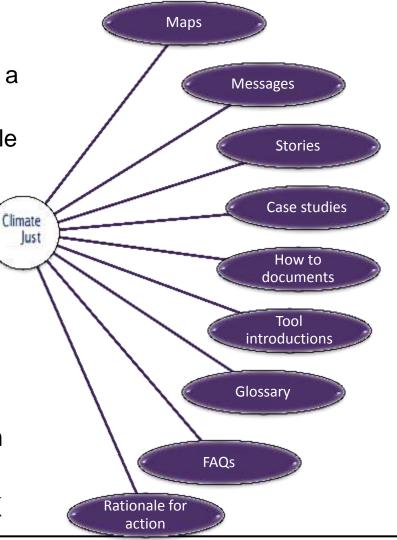
#### What could it help you with?

- Awareness of key issues on developing socially just responses to climate change
- Understand which people and places are vulnerable to climate impacts of flooding and heat
- Understand responsibility for emissions and patterns of fuel poverty
- Assess local patterns of social vulnerability and connect these to actions (- maps to assess local risk)
- Identify who needs to be involved in developing responses
- Develop ideas on possible strategies and actions
- Make a case for equitable action (eg to address strategic priorities)
- Support responses by learning from case studies of local action



## About the ClimateJust resource

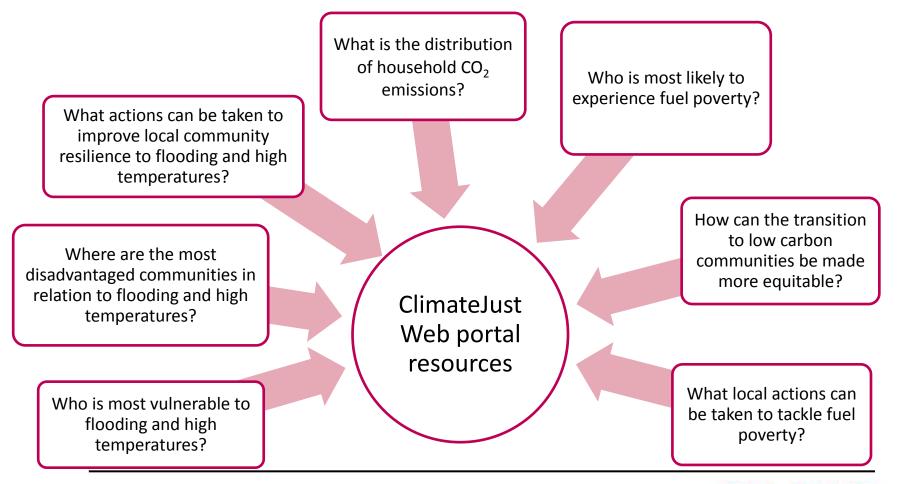
- Aims to:
  - Raise awareness of social justice in a changing climate
  - Increase knowledge about vulnerable groups in the context of climate change
  - Help to respond to climate change impacts and challenges
- Searchable resource
- Draws on existing tools and resources
- New information about vulnerability to climate change impacts based on census 2011 data
- Online portal, hosted by Climate UK



JRF JRHT

## Introducing ClimateJust: web portal

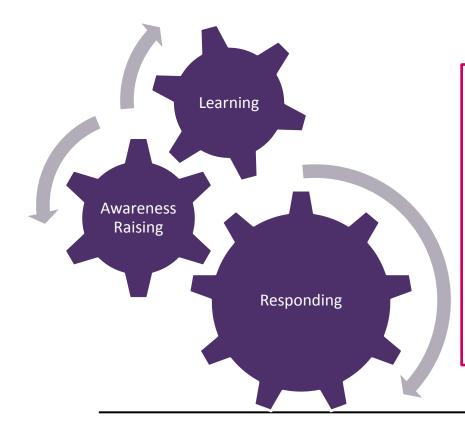
Resources to help delivery of equitable responses to climate change at local level





#### Why use ClimateJust?

Primary audience is **local authorities and partners in social care, health, housing and voluntary and community sector** with a role in supporting vulnerable groups affected by climate change/policy & practice responses



The National Adaptation Programme mentions the ClimateJust project as one of the initiatives which can help deliver on its Objective 13:

To minimise the impacts of climate change on vulnerable groups in society by strengthening their resilience to better prepare for, respond to and recover from future climate risk.



#### **ClimateJust next steps**

- Content developed by Manchester University
- Being used to develop a website
- Website to be hosted by Climate UK
- User testing over the Summer
- Due for completion by end 2014
- Practitioner workshops to support use
- Would you like to get involved?

Please get in touch to find out more: <u>Katharine.Knox@jrf.org.uk www.jrf.org.uk</u> Twitter: @jrf\_uk @katharineknox



#### **Moving Forward**

What are the core features of a healthy, resilient, and sustainable community? What does it look like to you?

How can local action on climate change adaptation contribute to this?

What can you do in your local Health and Wellbeing Board/your role to make this happen?

