

Adaptation Network



09 October 2013
Wakefield

National Adaptation Programme (NAP)

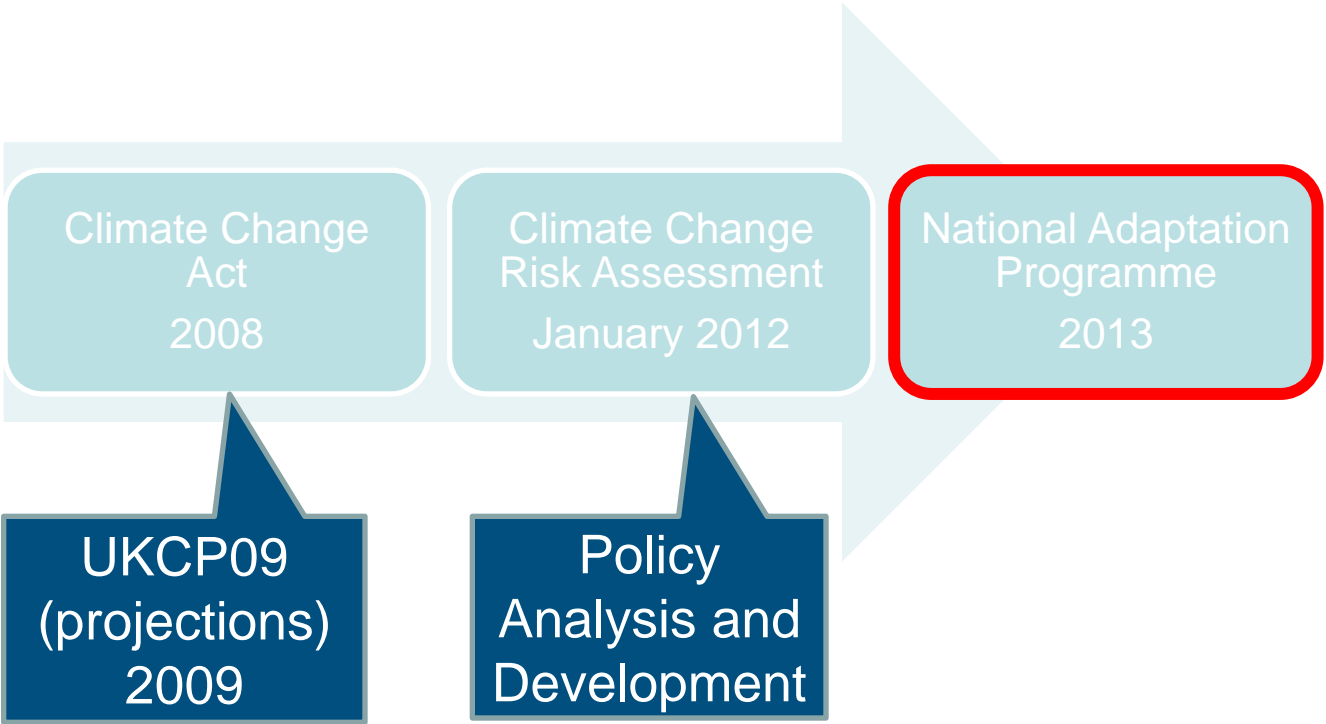
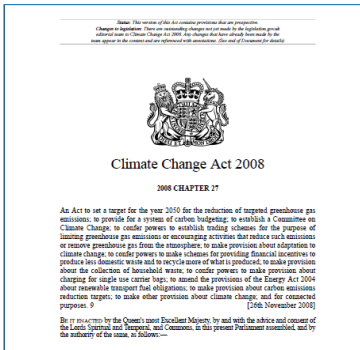
By Laura Kay

E&B Advisor - Climate Change Adaptation

Structure of Presentation

- ➔ Background
- ➔ Structure
- ➔ Chapter Summaries
- ➔ Next Steps

Background to Climate Change Documentation



Structure of the National Adaptation Programme

- ➔ The NAP divided into the following broad categories:
 - ➔ Raising awareness of the need for climate change adaptation
 - ➔ Increasing resilience to current climate extremes
 - ➔ Taking timely action for long-lead time measures
 - ➔ Addressing major evidence gaps.

The National Adaptation Programme

Making the country resilient to a changing climate

July 2013

www.gov.uk/defra

 HM Government

Structure of the National Adaptation Programme

➔ The NAP is split into 7 chapters:

- ➔ Built Environment
- ➔ Infrastructure
- ➔ Healthy and Resilient Communities
- ➔ Agriculture and Forestry
- ➔ Natural Environment
- ➔ Business
- ➔ Local Government

Governance

- ⇒ Primarily England only (except reserved matters)
- ⇒ Coordination by Climate Ready
- ⇒ Delivery by nominated partners, including
 - ⇒ Climate Ready
 - ⇒ Local Authorities, LGA's
 - ⇒ Businesses and Trade Bodies
 - ⇒ Agencies
 - ⇒ Climate UK and the Climate Change Partnerships
 - ⇒ Academia

Built Environment

- ⇒ **Vision:** *“Buildings and places and the people who live and work in them are resilient to a changing climate and extreme weather and organisations in the built environment sector have an increased capacity to address the risks and take the opportunities from climate change.”*

- ⇒ Main focal points for local areas are:
 - ⇒ Flood and coastal erosion risk management strategy
 - ⇒ Standards of resilience of construction projects
 - ⇒ Catchment wide approaches to water resilience and flood management
 - ⇒ Surface water flooding
 - ⇒ Support the LGA’s Climate Local initiatives

Infrastructure

- ⇒ **Vision:** *“An infrastructure network that is resilient to today’s natural hazards and prepared for the future changing climate.”*
- ⇒ Main focal points for local areas are:
 - ⇒ Local highways
 - ⇒ Local utilities
 - ⇒ Extreme drought
 - ⇒ Drainage systems
 - ⇒ Cascade failure risks

Healthy & Resilient Communities

- ⇒ **Vision:** “A health service, a public health and social care system which are resilient and adapted to a changing climate.”
- ⇒ **Vision:** “Communities and individuals, including the most vulnerable, are better prepared to cope with severe weather events and other impacts of climate change.”
- ⇒ **Vision:** “Emergency services and local resilience capability take account of and are resilient to, a changing climate.”
- ⇒ Main focal points for local areas are:
 - ⇒ Joint strategic needs assessment
 - ⇒ Build community resilience
 - ⇒ Heat wave plan
 - ⇒ Cold weather plan
 - ⇒ Vulnerable groups
 - ⇒ Wildfire

Agriculture & Forestry

- ⇒ **Vision:** *“Profitable and productive agriculture and forestry sectors that take the opportunities from climate change, are resilient to its threats and contribute to the resilience of the natural environment by helping to maintain ecosystem services and protect and enhance biodiversity.”*
- ⇒ Main focal points for local areas are:
 - ⇒ Resilience of supply chain
 - ⇒ Water availability
 - ⇒ Resilient livestock
 - ⇒ Pests and diseases
 - ⇒ Rural development programme for England

Natural Environment

- ⇒ **Vision:** *“The natural environment, with diverse and healthy ecosystems, is resilient to climate change, able to accommodate change and valued for the adaptation services it provides.”*

- ⇒ Main focal points for local areas are:
 - ⇒ Local Nature Partnerships
 - ⇒ Payments for Ecosystems Service Action Plan
 - ⇒ Threats to biodiversity

Business

- ➔ ***Vision:*** “UK businesses are resilient to extreme weather and prepared for future risks and opportunities from climate change.”

- ➔ Main focal points for local areas are:
 - ➔ Accredited skills and qualifications
 - ➔ Risk assessment tools
 - ➔ Local economic growth
 - ➔ Develop business cases on climate change
 - ➔ Growth in the visitor economy
 - ➔ Export opportunities
 - ➔ Supply chain

Local Government

- ⇒ **Vision:** *“Local Government plays a central role in leading and supporting local places to become more resilient to a range of future risks and to be prepared for the opportunities from a changing climate”.*
- ⇒ Main focal points for local areas are:
 - ⇒ Build capacity
 - ⇒ Develop tools and guidance
 - ⇒ Promote adaptation actions in our largest cities

Next Steps

- ➔ A framework for assessing the impact of the NAP on 'Adaptive Capacity' will need to be developed, including qualitative and quantitative indicators.
- ➔ The Adaptation Sub-Committee (ASC) of the Committee on Climate Change will carry out its duty under the Climate Change Act to assess progress in 2015 and every 2 years hence.
- ➔ Progress on the NAP will inform the next CCRA due in 2017.

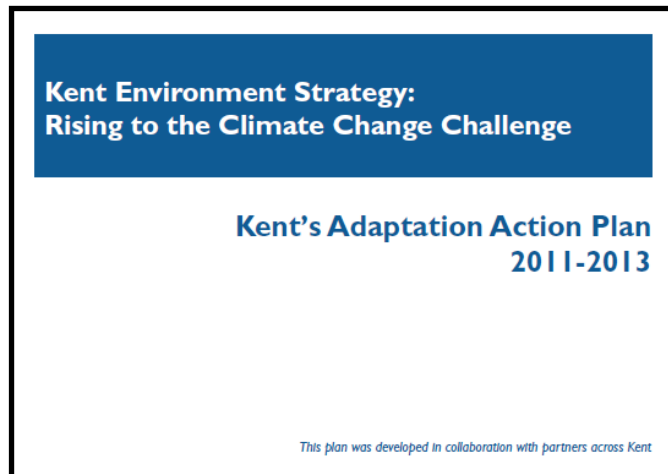
Monitoring severe weather to build the business case for action: SWIMS

Adrian Hilton: Climate NE

Kent Environment Strategy

Kent Environment Strategy looks to *Rise to the Climate Change Challenge*.

This requires us to manage the impacts of climate change and develop actions for priority risks.



This has led to the development of the ***Kent Adaptation Action Plan***

The Kent Adaptation Action Plan aims to:

- **Understand** the risks and opportunities
- **Communicate** these with partners and residents
- **Respond** to our priority risks and opportunities

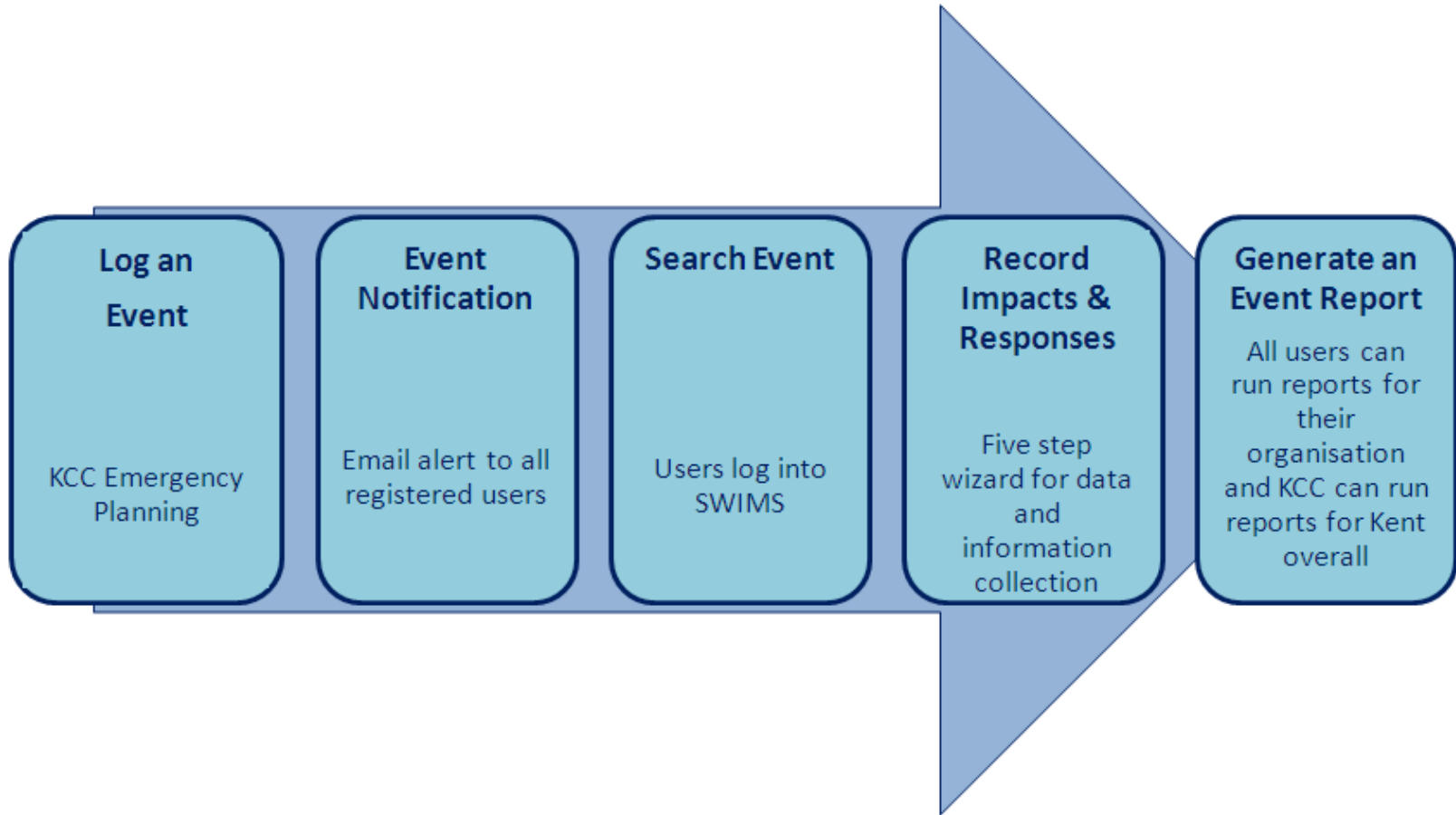
Why develop SWIMS?

Kent Local Climate Impacts Profile (LCLIP) 2009:

- Collected information from across partners
 - 52 extreme weather events, more than 300 associated effects and information about 75 services captured
- No co-ordinated system
 - Risk that opportunities and true impacts are lost
- Particular gap around financial impacts
 - Only 5% had financial implications attached

SWIMS was developed as a decision support tool for risk management and planning across Kent partners
BUILDING THE BUSINESS CASE FOR ACTION

The Process



Navigation

- Home
- Log Event
- Search Event
- Reports
- Logout

Admin

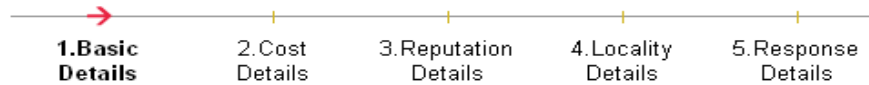
- User
- Organisation
- Admin Centre
- Locality
- Media Source
- Impact Category
- Lookup
- Contact Details
- Switch Administration Centre

Contacts

SWIMS (Kent)
Climate Change Team
Invicta House
County Hall
Maidstone
Kent
ME14 1XX

01622 694236

SWIMS@kent.gov.uk



Maintain Basic Impact Details

* This symbol means that you must enter this information

Please provide Basic Impact Details

Duration

Duration Units

Has flooding occurred?

Please enter the type of flooding, if flooding has occurred

Flooding Type

To add a new impact category to the list below, click the 'Add' button. Please ensure that the record does not already exist before adding.

Use the 'Category Description' link in the results grid to display further impact response details.

3 impact categories found

Category Description ▲
Crime
Property/Land
Schools

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1. Basic
Details

2. **Cost
Details**

3. Reputation
Details

4. Locality
Details

5. Response
Details

Maintain Cost Details

* This symbol means that you must enter this information

Please provide Impact Cost Details

* **Cost to Team/Service/Business Unit**

* **Cost to Team/Service/Business Unit Description**

Cost to Residents

Cost to Residents Description

[◀ Previous](#)

[Next ▶](#)

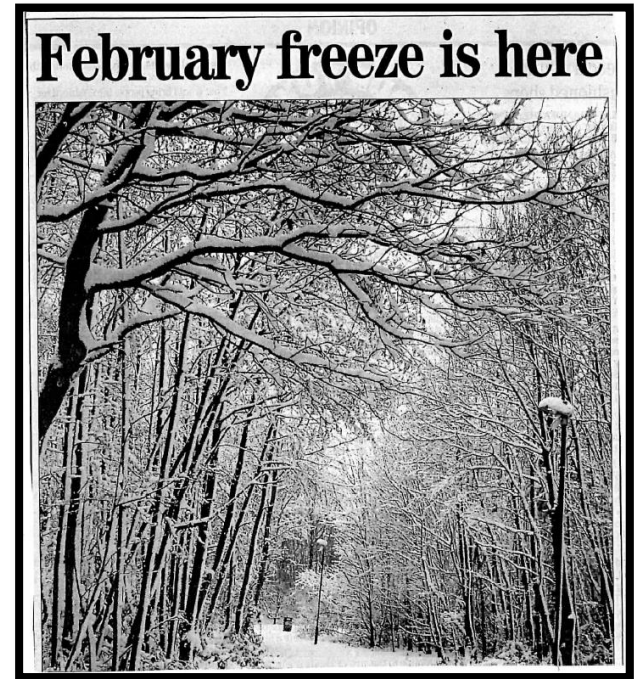
Storms & Gales

- Costs totalling £82,228
- 164 properties affected
- 1202 calls received (65% increase one District)
- 41 responses from Kent Fire & Rescue
- Impacts on service delivery: 19 days, 3 hrs.



Low temperatures:

- Costs totalling £700,580
- Service providers impacted for 34 days
- 625 calls received
- 130,100 service users/residents affected
- Waste and recycling affected with service suspension of five days in one District



Partners

66 users, 50 services and 16 organisations including:

- District and Borough Councils
- Met Office
- Environment Agency
- NHS
- Police
- Fire and Rescue Service
- Resilience Forum (severe weather sub-group)

The benefits

- Developing better ways of working together
- Identifying key risks and issues
- Informed business and resilience planning
- Building the business case for action!

Kent Highways Services: Planning for severe weather


- Not all adaptation actions need to be high cost!
- In January 2012, storms resulted in high call volumes to contact centre impacting business as usual
- Process reviewed so calls went directly to local managers for review

BENEFITS:

- Frees up Contact Centre
- Reduction of workload
- Road closure time reduced

- Key stakeholders now also receive a status alert
- This is sent out when severe weather is forecast
- Informs how highways services are preparing so they can communicate more widely

Appendix A

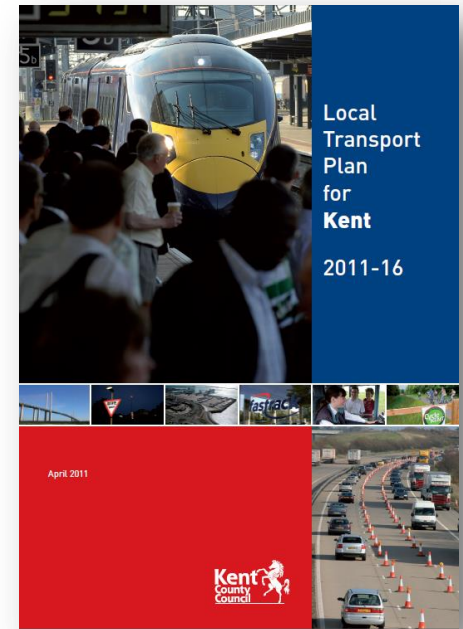
Operational Status Alert		Highways and Transportation
Subject: <small>(To include clear title and brief description of operational status. Where relevant to include weather forecast summary)</small>	Date:	Time: 00:00
AMBER <small>(Preparation commences)</small>	<input type="checkbox"/>	
RED <small>(Preparation less than 12 hours away from start of expected situation)</small>	<input type="checkbox"/>	
BLACK <small>(Implementation of all Operational procedures and additional resource)</small>	<input type="checkbox"/>	
BLUE <small>(Recovery plans implemented)</small>	<input type="checkbox"/>	
GREEN <small>(Business as usual)</small>	<input type="checkbox"/>	

Distribution:
HMC; Highway Managers; Highways and Transportation Director; Heads of Service; Drainage Manager; Street Lighting Manager; Roadworks Manager; Traffic Manager; Enterprise; Jacobs; Telent; KCC Contact Centre Manager; Communications team; KCC Emergency Planning

Local Transport Plan 2011-16

Contains *Tackling a changing climate*

- Actions include:
 - Review of materials and processes
 - Develop and maintain a CC risk register
 - Monitoring severe weather impacts to inform repair and maintenance (SWIMS)
 - Supply chain resilience
 - Transport Asset Management Plan to address CC risks and opportunities



Next Steps



Thank you

adrian.hilton@climatenortheast.com

07814 607180



Y&H Climate Change Adaptation Network

9th October 2013

SRI MSc projects?

Dr Alice Owen

Programme Leader MSc Sustainability (Environmental Consultancy & Project Management)



Sustainability Research Institute

- Centre for Climate Change Economics and Policy (Andy Gouldson)
- Informing Climate Adaptation Decisions (Suraj Dessai)

Plus INDEMAND (John Barrett), Climate Compatible Development (Lindsay Stringer), and more!

MSc Sustainability Programmes

- Business, Environment and Corporate Responsibility
- Climate Change
- Ecological Economics
- Environment & Development
- Environmental Politics & Policy

and

- **Environmental Consultancy and Project Management**

And, at ITS, Transport



- Usually based on a 10 week placement (May – July 2013) – with full access to University facilities as well
- Students can help with other work – but need to make sure they do their project
- They have to leap H&S and ethical hurdles in order to progress
- They have a University supervisor and a workplace host
- They are assessed through a presentation (40%) and a report (60%)
- They have to reflect on what they've learnt



- Not (usually) physically based in the organisation
- Run from May to August
- Are more “traditional” research, including literature review
- Might be useful for knowledge gathering, or when some degree of distance / independence is required
- Have a University supervisor
- Assessed wholly through written work

Climate change related projects in 2013...



UNIVERSITY OF LEEDS

- Helping YAS and the EA look at the impacts of flooding on paramedic response times
- Organisational carbon footprinting
- PFI facilities management offering CC action plans as part of their service
- What's a sustainable foodshed for Leeds?
- The carbon impacts of soil disturbance in development projects
- Site-specific ecosystems services and stakeholder views of value

What could a student do for you?



UNIVERSITY OF LEEDS

In thinking about **climate change** and **your organisation**, projects or dissertations might:

- Investigate best practice in adapting to a particular climate impact by researching others' responses
- Combine data sets in order to identify new impacts
- Engage stakeholders in order to gain new insights into possible responses
- Provide a bridge for you and another partner to look at issues of shared interest
- Undertake a risk analysis for a given spatial or social group, drawing on academic research.

Timings and next steps



UNIVERSITY OF LEEDS

If you think you might be able to use the work of an able MSc Sustainability student in 2014, please fill out the form and return to Alice!

We ask for ideas for dissertations and projects in February.

For projects, we shortlist possible students for you to interview in late Feb / early March

And try to get everyone placed by Easter!



UNIVERSITY OF LEEDS

Thank you!

Contact details:

Dr Alice Owen

a.m.owen@leeds.ac.uk

Sustainability Research Institute

School of Earth and Environment

University of Leeds

Leeds LS2 9JT

MSc Sustainability



UNIVERSITY OF LEEDS

Organisation name:

Contact name:

Email:

Possible projects or dissertation ideas?

Please return to a.m.owen@leeds.ac.uk

Climate Local

An initiative to encourage and support council-led action on climate change

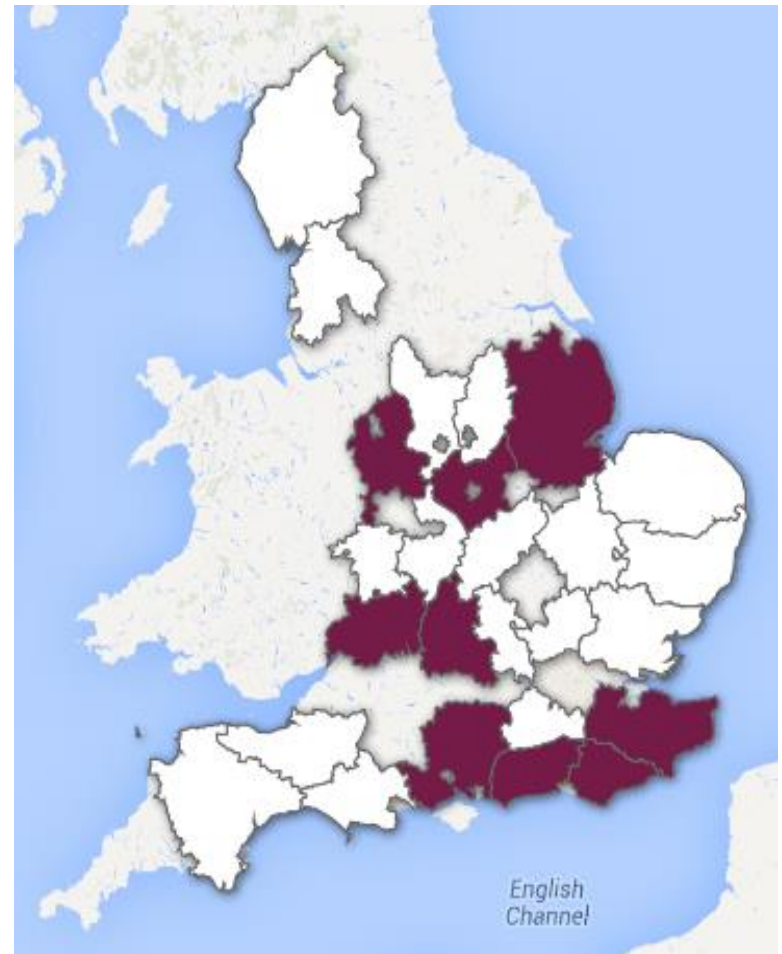
Lucy Breeze
Advisor, LGA

9th October 2013

www.local.gov.uk

What is Climate Local?

- **A council-led, voluntary initiative to champion action to reduce emissions and build resilience to a changing climate.**
- A source of resources and advice for councils.
- A network of councils to provide peer support and to inform the LGA's lobbying work with Government.



The Climate Local Commitment

A shared headline commitment to:

1. Set locally-owned and determined commitments and actions.
2. Publish commitments, actions and progress.
3. Share and achievements with other councils.
4. Regularly refresh commitments and actions to ensure they are current and continue to reflect local priorities.

Underpinned by locally derived and agreed commitments and actions.



Climate Local [insert council(s) name]:

Our commitment to taking action in a changing climate

We recognise that our council has an important role to help our residents and businesses to capture the opportunities and benefits of action on climate change. These include saving money on energy bills, generating income from renewable energy, attracting new jobs and investment in 'green' industries, supporting new sources of energy, managing local flood-risk and water scarcity and protecting our natural environment.

We will progressively address the risks and pursue the opportunities presented by a changing climate, in line with local priorities, through our role as:

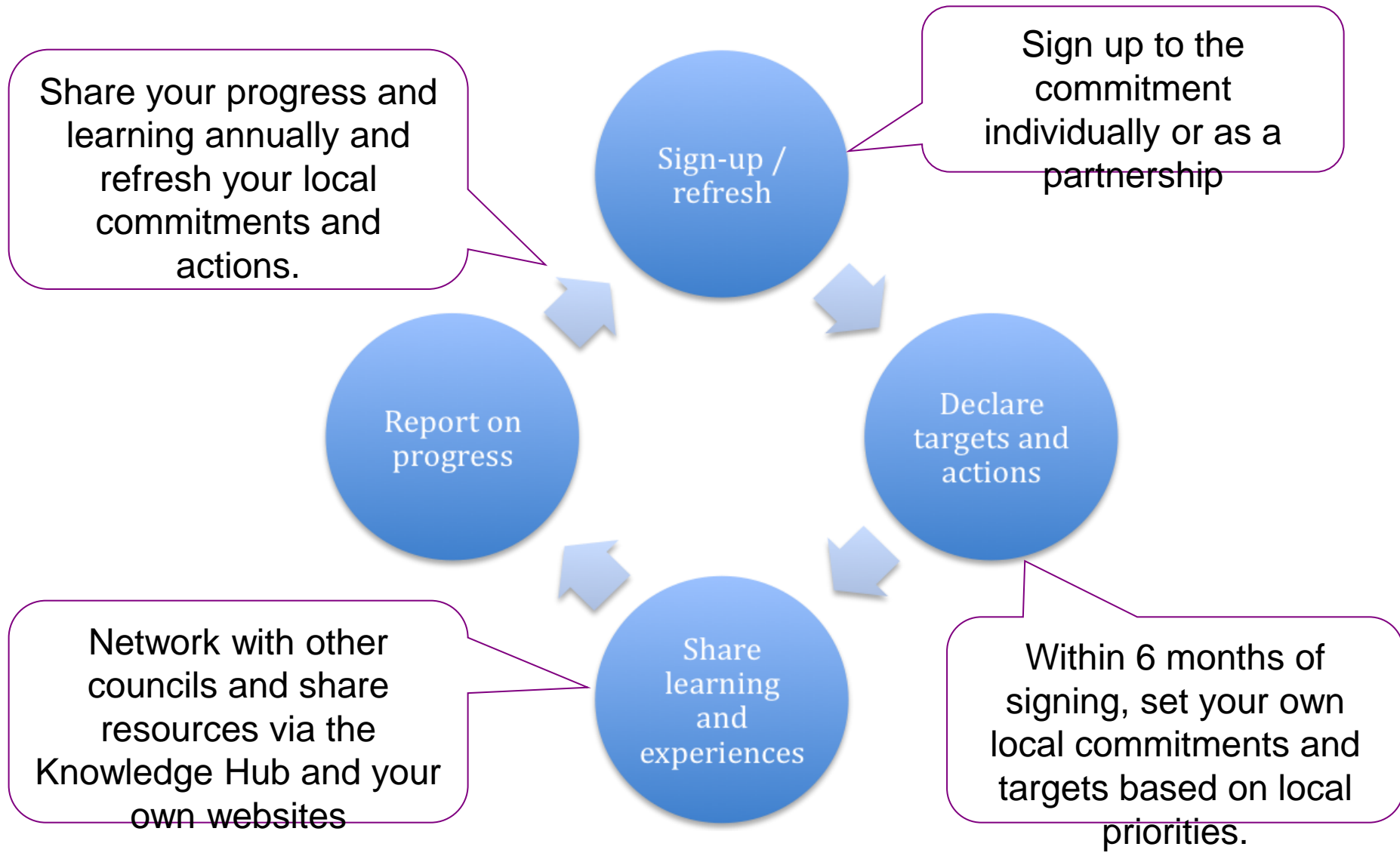
- Community leader – helping local people and businesses to be smarter about their energy use and to prepare for climate impacts;
- Service provider – delivering services that are resource efficient, less carbon intensive, resilient and that protect those who are most vulnerable to climate impacts;
- Estate manager – ensuring that our own buildings and operations are resource efficient, use clean energy, and are well prepared for the impacts of a changing climate.

In signing this commitment, we will:

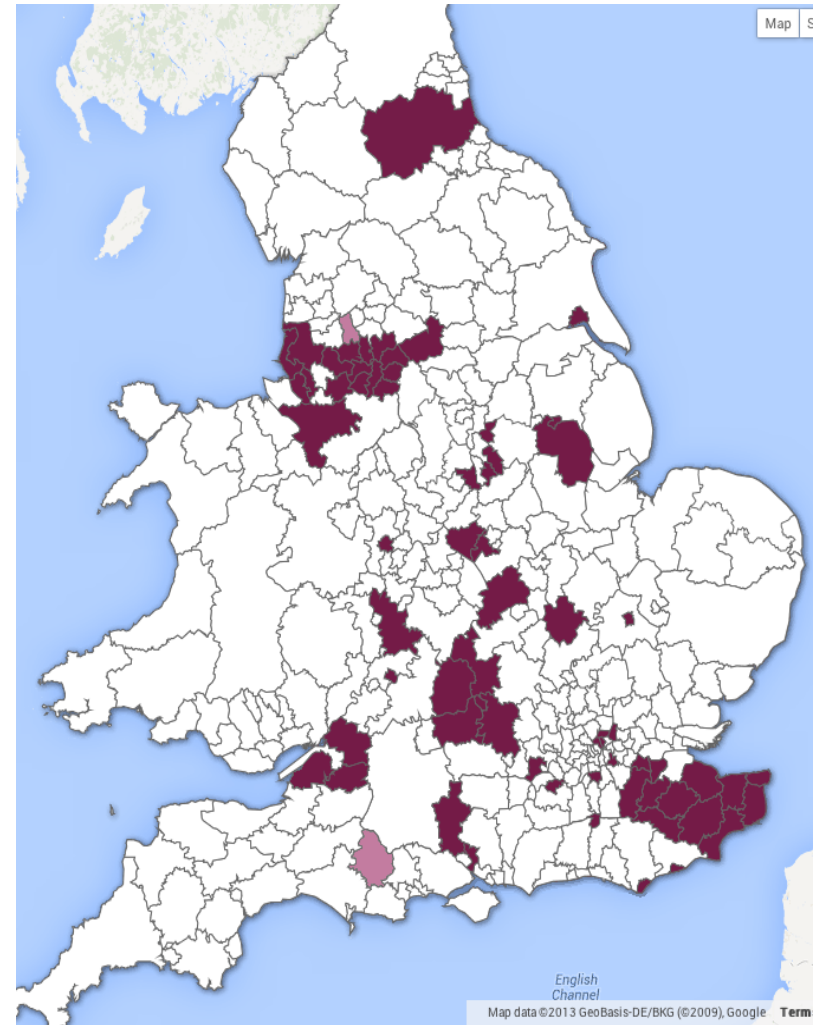
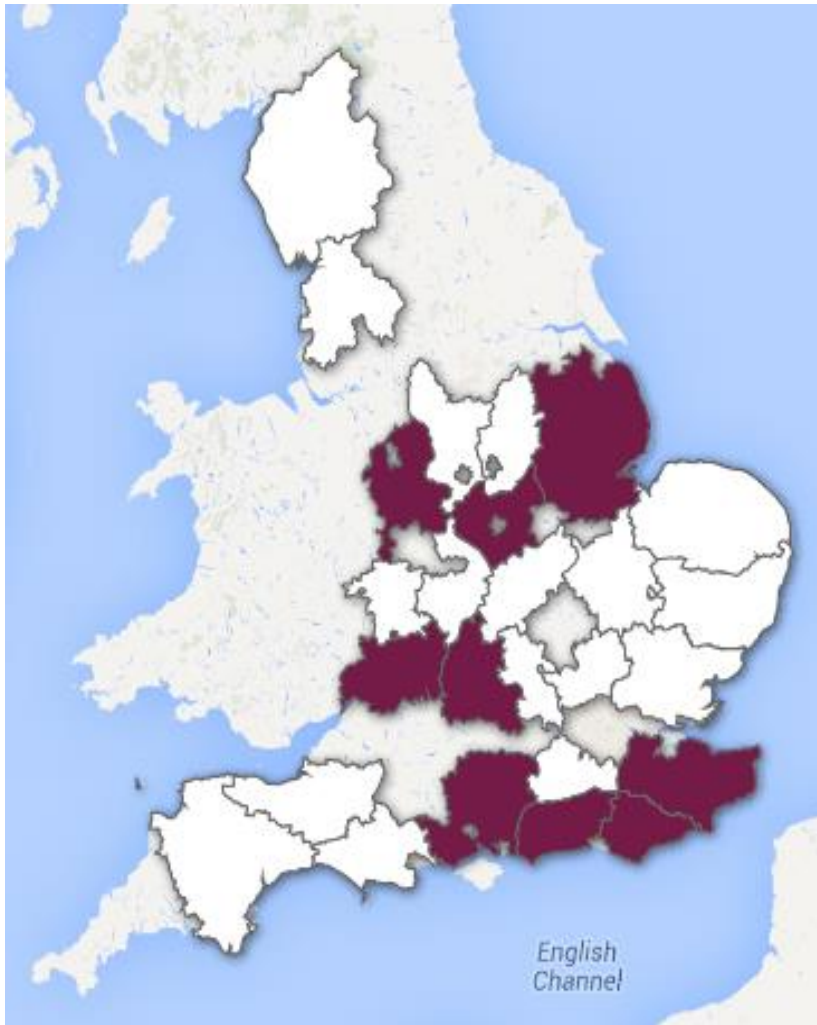
- Set locally-owned and determined commitments and actions to reduce carbon emissions and to manage climate impacts. These will be specific, measurable and challenging;
- Publish our commitments, actions and progress, enabling local communities to hold us to account;
- Share the learning from our experiences and achievements with other councils; and
- Regularly refresh our commitments and actions to ensure they are current and continue to reflect local priorities.

[Date]
[Name of council or group of councils]
[Signature of Leader or Mayor of Council]

What's involved?



Who's signed up?



Emerging actions


Common themes

- Embedding climate change into council plans, strategies and processes.
- Energy efficiency and renewable energy on own estate.
- Projects to help householders save energy.
- Actions to support SMEs.
- Planning policies.


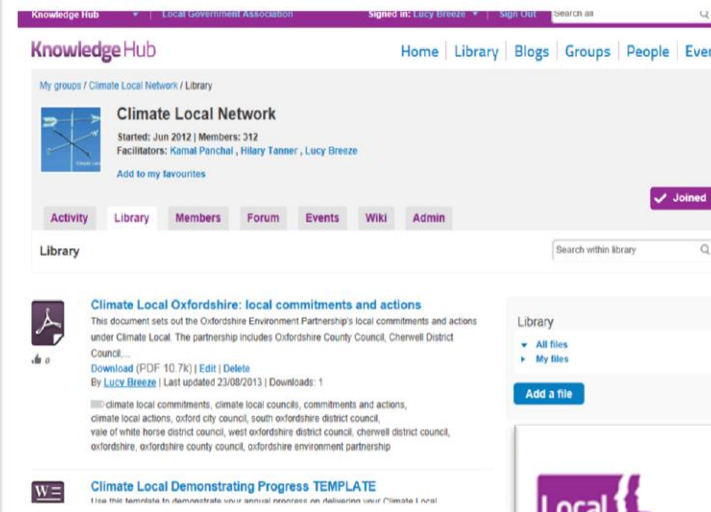
Gaps

- Adaptation actions on the whole are less developed, but very varied in scope and nature.
-

Climate Local resources



Climate Local: acting on climate change
Ward councillor workbook

Knowledge Hub
Home | Library | Blogs | Groups | People | Events

Climate Local Network
Started: Jun 2012 | Members: 312
Facilitators: Kamal Panchal, Hilary Tanner, Lucy Breeze

Activity | Library | Members | Forum | Events | Wiki | Admin

Climate Local Oxfordshire: local commitments and actions
This document sets out the Oxfordshire Environment Partnership's local commitments and actions under Climate Local. The partnership includes Oxfordshire County Council, Cherwell District Council...

Climate Local Demonstrating Progress TEMPLATE

England Compared To All English Authorities, Quantiles Das

Achievement of 5 or more A*-C grades at GCSE or equivalent, including English and Maths

Overall employment rate (working-age)

Period: 2011/12 (academic), Unit of measure: Percentage of the count of pupils at the end of KS4

Period: 2013 Q1 (rolling), Unit of measure: Percentage of the working age population



Mainstreaming climate change

Local Commitment	Local Action	Impacts (direct or indirect)
Starting out Demonstrate political commitment to acting on climate change	<ul style="list-style-type: none"> Informing the public and local stakeholders of our commitment to tackling climate change through Climate Local. Allocating sufficient human resources, supported by a clear mandate and adequate budget, to enable the council to drive action forward. 	Corporate strategy and development
Measure energy consumption and greenhouse gas emissions on our estate, our services and our local area	<ul style="list-style-type: none"> Undertaking a baseline review of the area's energy consumption and greenhouse gas emissions. Reviewing the area's potential for energy efficiency improvements and renewable energy generation. 	Measurement / data improvements
Set out a strategy with aspirational and practical targets for managing the causes of climate change across our estate, services and the wider community	<ul style="list-style-type: none"> Developing a vision for how our local area intends to cut emissions over the next 5 to 10 years. Producing a strategy for cutting emissions across the council's estates, services and the wider community. Establishing clear targets and measures of progress as well as annual reporting processes. Creating a community-wide forum or partnership to coordinate local action on climate change. This will be underpinned by sufficient resources. 	Corporate strategy and development Measurement / data improvements
Corporate commitment and skills Secure political commitment and responsibility for taking action on climate change	<ul style="list-style-type: none"> Providing briefing and training to Members and other key decision-makers on the benefits and opportunities of tackling climate change, highlighting the contribution action can make to other council priorities (local, economic, employment, environmental). Appointing a Lead Member (or Members) with responsibility for climate change. Developing guidance and training for Members and senior managers on integrating climate change into decision-making. 	Corporate strategy and development Building council capacity



Climate Local
An introduction to the opportunities and benefits of acting on climate change

Housing and planning



Other resources

SWIMS
Severe Weather Impacts Monitoring System

You are here: SWIMS > Search Event > Maintain Event > Maintain Impact > Maintain Basic Impact Details

Navigation

- Home
- Log Event
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Please provide Basic Impact Details

Duration: 10.00
Duration Units: Days
Has flooding occurred?
Please enter the type of flooding, if flooding has occurred
Flooding Type: Surface

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3 impact categories found

Category Description
Crime
Property/Land
Schools

Cancel Add Next



The business case for action on climate change remains the same



Supporting economic growth and jobs



Saving money



Supporting vulnerable communities

How the LGA is using Climate Local

- Climate Local steering group.
- Engaging councilors.
- Evidence for LGA lobbying work.
- Demonstrating council leadership and innovation.
- Showcasing good practice.



Dealing with the deluge

How councils supported their communities during the 2012 floods

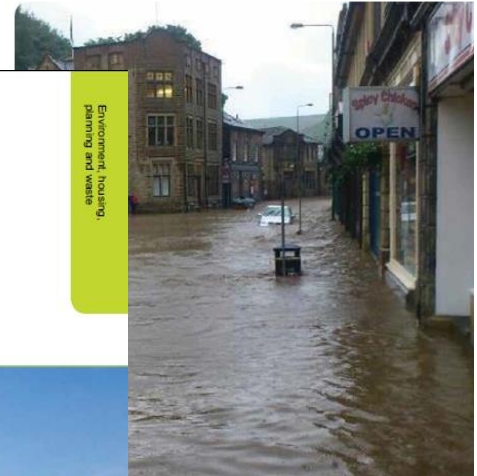
Environment, housing, planning and waste



Local climate actions:

Supporting growth, saving money and safeguarding communities

Environment, housing, planning and waste



Any questions?

Lucy Breeze

Local Government Association

lucy.breeze@local.gov.uk

Join the conversation

knowledgehub.local.gov.uk/group/climatelocal

For information on LGA and council-led action on climate change go to: local.gov.uk/climate-change

Local Adaptation Advisory Panel

Aims

DEFRA advisory panel

Adapting to Climate Change

Programme:

- CCRA
- NAP

Two way dialogue with Government

Outcomes

Local government chapter of NAP

Evidence provision to ACC

Join up Government thinking in ACC

Advice of barriers to local adaptation

Champion long term thinking

Membership

Local government (Unitary, County,
Borough, London, Core Cities)

DEFRA, DCLG

EA

Climate Local

Natural England

LGA/LGIU

Work Programme

NAP production and assessment

Theme meetings: health, natural environment, transport, business

Communicating NAP- letter to LEP's

Supporting tools: health toolkit, SWIMS, Climate Local

LAAP support

LEP's,

H&WB's,

LNP's,

Emergency Planning Forums,

EU Structural Funds

Raising Yorkshires Profile

Case Studies of good adaptation

-communities

-cross sector

Martin.budd@hullcc.gov.uk

Notice Board



Adaptation Network:

Dec 2013 – Health & Wellbeing
Feb 2013 - Business

LG Energy Workshop

21 November, Leeds

Strategic Procurement Group

Newsletter: <http://eepurl.com/gl8X1>

 @your_climate