

Adaptation Network



3 June 2013
Wakefield

Climate change

- the Environment Agency's role



Victoria Slingsby

Principal officer – climate change

June 2013

creating a better place

Our corporate plan 2011-2015



Act to reduce climate change and its consequences

→ Act to reduce climate change and its consequences

Our aims

- | | |
|--|--|
| 1.1 We play our full part in helping England and Wales meet greenhouse gas emissions targets in ways that minimise other environmental impacts. | 1.2 We help people and wildlife adapt to climate change and reduce its adverse impacts. |
| | 1.3 We put reducing and adapting to climate change at the heart of everything we do. |

Who we work with

- | | |
|--|---|
| <ul style="list-style-type: none">• Defra, Welsh Government, DECC, DCLG, and other government departments• the Committee on Climate Change and the Adaptation Sub-committee• the Climate Change Commission for Wales• the Carbon Trust and the Energy Saving Trust• Natural England, the Countryside Council for Wales (CCW) and the Forestry Commission• local authorities and climate change partnerships | <ul style="list-style-type: none">• Ofgem and Ofwat• energy, water and other critical infrastructure and essential service providers• professional and trade associations and other major interest groups <p>Together with Natural England, the Forestry Commission and Defra, we will contribute to the new Adaptation Delivery Group. This cross-Defra network will help us work more closely on climate change adaptation.</p> |
|--|---|

16 Environment Agency Corporate Plan Summary

We help England and Wales meet greenhouse gas emissions targets in ways that minimise other environmental impacts

We help people and wildlife adapt to climate change and reduce its adverse impacts

We put reducing and adapting to climate change at the heart of everything we do

A long track record



2003

Climate adaptation:
Risk, uncertainty
and decision-making

UKCIP Technical Report
May 2003



2004



2005

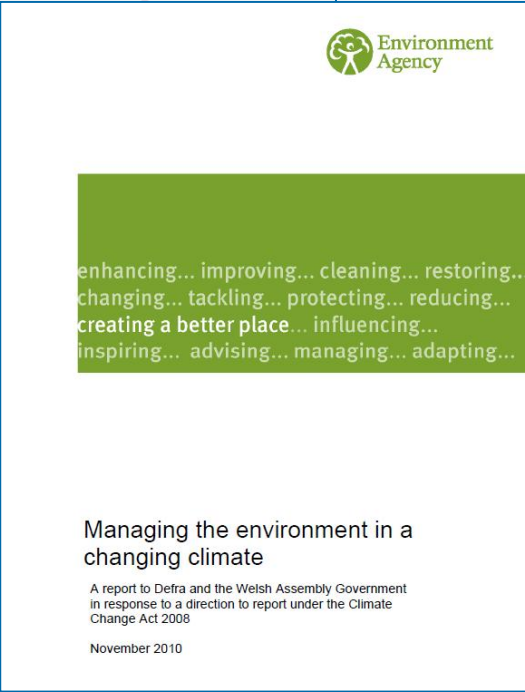


2008

the climate is
time to get rea

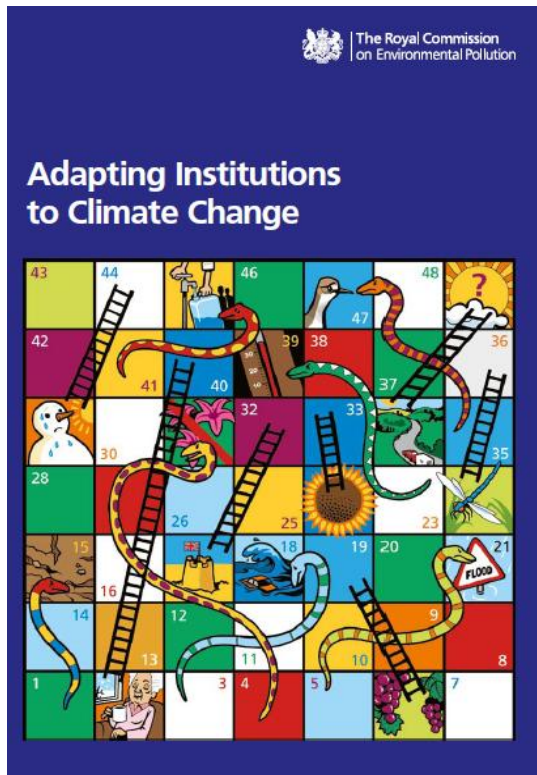


2009



2010

EA is recognised as a leading public body on adaptation



House of Commons
Environmental Audit
Committee

Adapting to Climate Change

Sixth Report of Session 2009–10

How well prepared is the
UK for climate change?



Adaptation Sub-Committee
September 2010

Compelling climate change evidence underpins our strategic planning

Environment Agency

investing for the future

Flood and coastal risk management in England
A long-term investment strategy



omes that are at threat from damage. Critical infrastructure suc
ure. It is neither technically feasible nor economically affordab
ations for new building or development in flood and coastal ri
act of flooding can reduce if we continue to invest in flood war



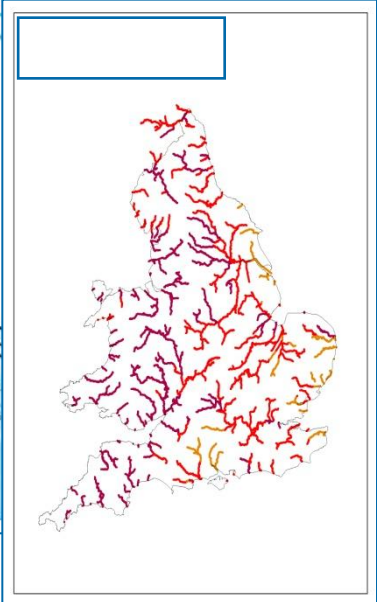
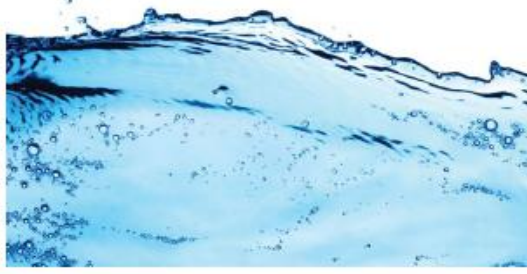
90th percentile

Agency

Environment Agency

water for people and the environment

Water Resources Strategy for England and Wales

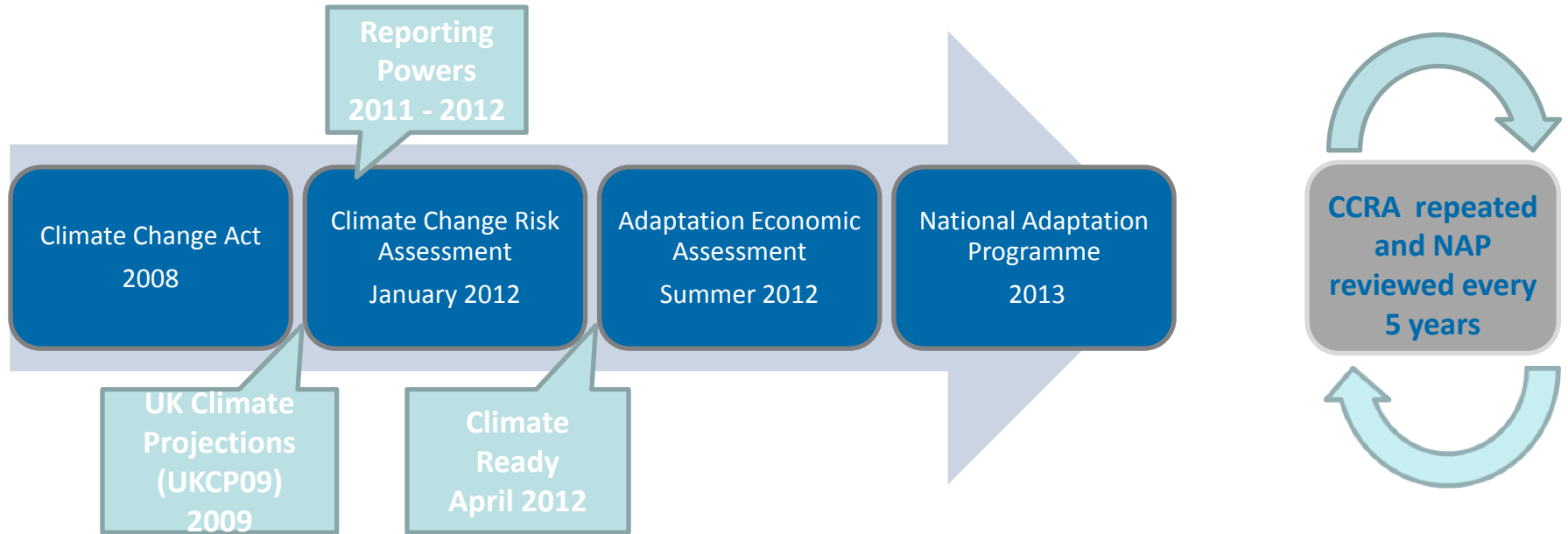
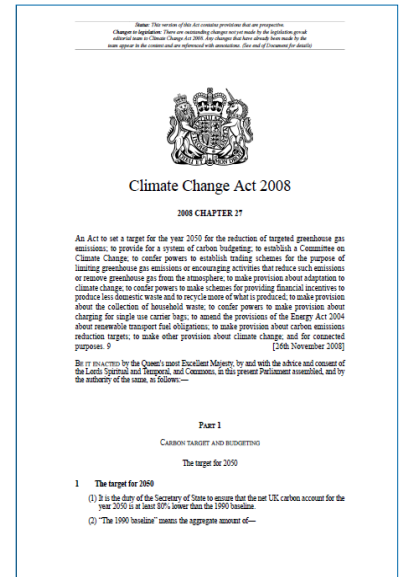


The Adaptation Agency ?



Towards Adaptation

The Climate Change Act 2008 creates a framework for adaptation in the UK and includes:



➔ So how has the Climate Change Act and the adaptation framework it outlines affected the Environment Agency's adaptation work?



Our Adaptation Report



"The report is thorough and accessible in its discussion of the climate change risks that the Environment Agency faces and shows clearly how you are preparing to meet these challenges."

Lord Henley

"The approach you have taken may provide a demonstrable road-map for other organisations to emulate and serves as a useful case study on the process for mainstreaming adaptation."

Jane Davidson

Climate Change Risk Assessment

Flooding and sea level rise affecting Humber Estuary, habitats, infrastructure and vulnerable groups



UK Climate Change Risk Assessment: Government Report

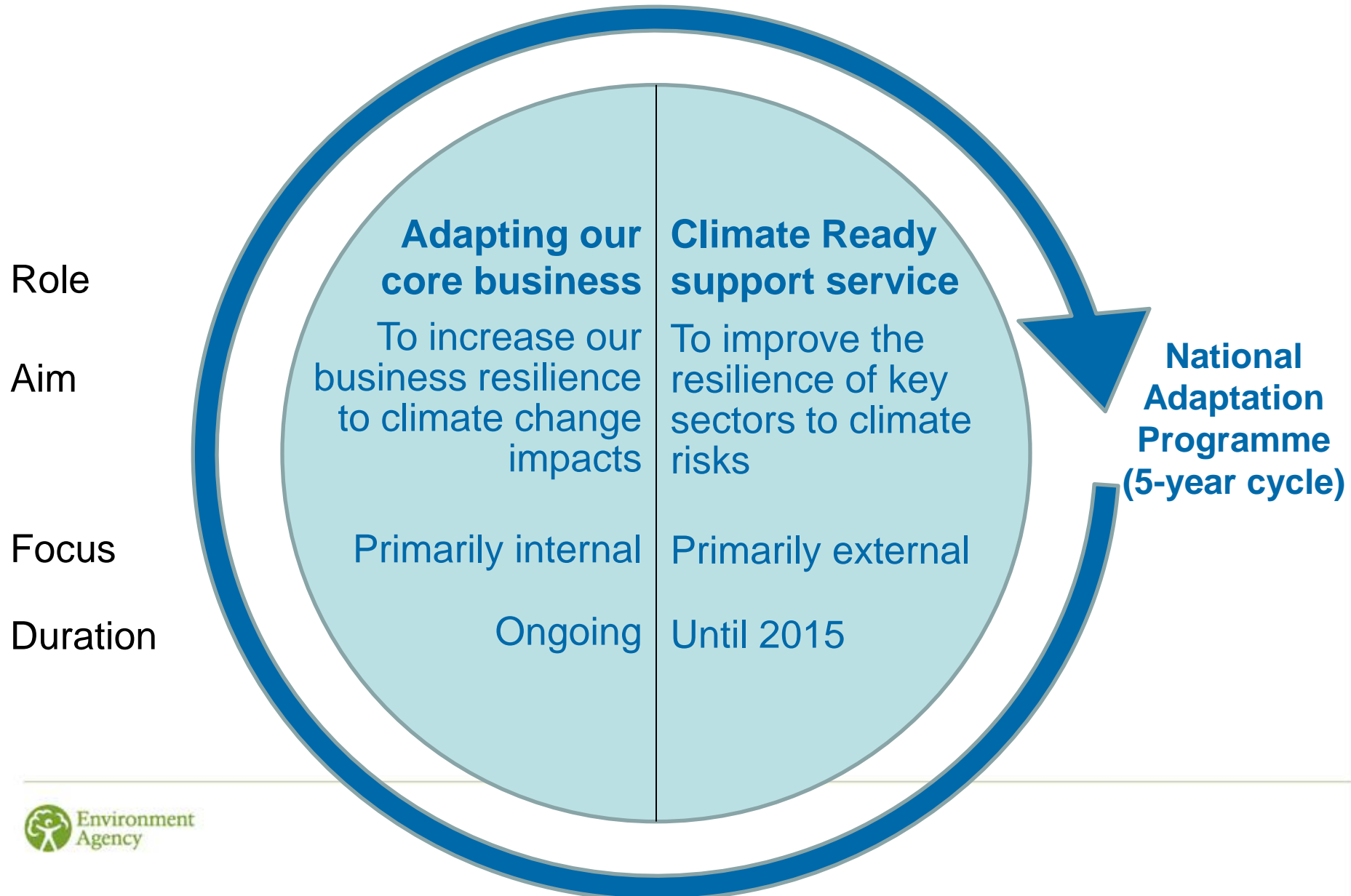
In addition to this Government Report, the UK Climate Change Risk Assessment: 2012 Evidence Report, which sets out the evidence base for the risk assessment, was laid before Parliament on 25 January 2012.

January 2012

www.defra.gov.uk

 HM Government

Our adaptation roles



Climate Ready 'adaptation' support service

- ➔ Climate Ready Support Service is a National service that aims to help *'key sectors increase their resilience to climate risks'*
- ➔ Helps support delivery of National Adaptation Programme (NAP) due to be published mid 2013

- ➔ Key sectors are:
 - ➔ Natural Environment
 - ➔ Agriculture & Forestry
 - ➔ Built environment
 - ➔ Infrastructure
 - ➔ Business & Economy
 - ➔ Local Authorities
 - ➔ Health & Wellbeing

Local adaptation delivery

- ➔ Continue to provide adaptation advice for our core work areas such as flood and coastal risk management and water resource management through our strategic planning and evidence base.
- ➔ Adding value locally to the National Climate Ready Support Service through our collaboration with Climate UK and the Climate Change partnerships.





Climate Ready

www.environment-agency.gov.uk/climateready

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Principal Officer - Climate Change

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➔ Examples from a few of the sectors within the Climate Ready Support Service and the work delivered so far ... in case people ask questions on what the service has achieved.

Local Government Theme

- ⇒ Funded Climate UK to develop the Kent County Council SWIMS tool now being piloted with other LA's
- ⇒ Developed the work and network of the Local Adaptation Advisory Panel
- ⇒ Informed the Local Government chapter of the Government's National Adaptation Programme
- ⇒ Highlighted opportunities and challenges on spatial planning, business and services and highways to government
- ⇒ Funded a secondment to the LGA to support the Climate Local Initiative
- ⇒ Developed guides for elected members (to be published 2013)
- ⇒ Ran internal training for Environment Agency staff on planning and development helping embed adaptation into our work with councils

Built Environment Theme

- ⇒ identified existing guidance, tools and data and will publish this information during 2013
- ⇒ developing a tool to help built environment professionals demonstrate why adaptation is important
- ⇒ wrote guidance on the limits and benefits of green infrastructure in adapting the built environment to climate risks.
- ⇒ selected resources and partners to support adaptation skills and knowledge in planning and construction
- ⇒ identified where further skills and knowledge development are needed
- ⇒ we are working with a DIY retailer to raise awareness of adaptation products for households.
- ⇒ provided input into national planning policy framework and building standards for housing to address climate change adaptation issues including overheating and limited water availability.

Business and Economy

- ⇒ Research to identify priority sectors, based on their vulnerability, ability to act and their influence to encourage others to act
- ⇒ Developed good practice guidance to assess and manage risks to supply chains
- ⇒ Learnt best practise and developed case studies from organisations which are already acting (available from Tomorrow's Company)
- ⇒ Reviewed tools and guidance on adaptation and identifying which to direct businesses
- ⇒ Worked with Business Continuity professionals to identify how extreme weather and climate change can be tackled through business continuity and risk management standards
- ⇒ Worked with the Institute of Environmental Management and Assessment (IEMA) to identify the business case for organisations to adapt

Health and Well Being

- ➔ developed guidance on adaptation for NHS organisations with the NHS Sustainable Development Unit
- ➔ provided flood risk data to the NHS Property Services and Durham University to update their Strategic Health Asset Planning & Evaluation (SHAPE) tool
- ➔ worked with the National Flood Forum (NFF) to capture examples of communities taking action on adaptation to extreme weather
- ➔ helped to inform the development of the Government's National Adaptation Programme
- ➔ developed and delivered a series of regional workshops to Health and Wellbeing Boards
- ➔ helped National Council of Voluntary Organisations (NCVO) to develop messages on adapting to the changing change for third sector organisations
- ➔ worked with the Climate UK, sharing knowledge and information and raising the health profile through workshops and events
- ➔ worked with the Chief Fire Officers' Association, exploring adaptation tools for their strategic plan development

Infrastructure

- ⇒ set up the Infrastructure Operators Adaptation Forum to help the sector work together on adaptation
- ⇒ Helped government to develop the National Adaptation Programme
- ⇒ With Ofgem, we ensured its framework for distribution network includes adaptation requirements
- ⇒ Helped the energy industry assess risks related to future use of water
- ⇒ Worked with the Planning Inspectorate to develop advice to help those building major infrastructure to consider climate change
- ⇒ Ensured climate risks are considered in the periodic review of the water industry (PR14)
- ⇒ Advised Department for Transport's on adaptation for its draft Aviation Policy Framework
- ⇒ Helped Defra and the Technology Strategy Board find and encourage innovations which support adaptation in the infrastructure sector

Your Climate

The Climate Change Partnership for Yorkshire & Humber



Jon Clubb

Climate Change Coordinator, LGYH

who's who

Exec Board

Jeremy Walker (Chair)

EA Board Member



Cllr Robert Light

LGA Executive Board



Cllr Arthur Baker

Chair, Yorkshire Flood & Coastal Comm



David Dangerfield

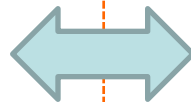
Regional Director, EA



Staff (hosted by LGYH)

Jon Clubb

Ruth Hardingham



EA (Yorkshire & North East)

Climate UK

Adaptation Network

managing risk locally

- local climate impact profiles
- risk assessments
- adaptation action plans
- vulnerability mapping



Regional and local resources

www.yourclimate.org



Project Areas:

- Leadership, Skills & Support
- Climate Change & Planning Best Practice Hub
- Heritage Assets and Low Carbon Renovation
- Community Engagement Project

All resources online at www.yourclimate.org

your climate

Supporting action for a resilient and low carbon future

Our priorities in 2013-14 are to:

- Engage clearly and simply with businesses
- Build capacity and expertise across public, education and third sectors
- Develop project to support a resilient and low carbon future
- Influence and support Natation Adaptation Plan

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 Government



www.climateuk.net



Climate Ready programme



your climate

Supporting action for a resilient and low carbon future

Forthcoming events:

- **Renewable Energy & Local Opportunities**
4 July, 9.45am – 3.45pm, York.
- **Local Highways & Climate Change,**
15 July, 9.30am – 1.00pm, Wakefield.

further information



Jon Clubb

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07970 120827 (direct dial)

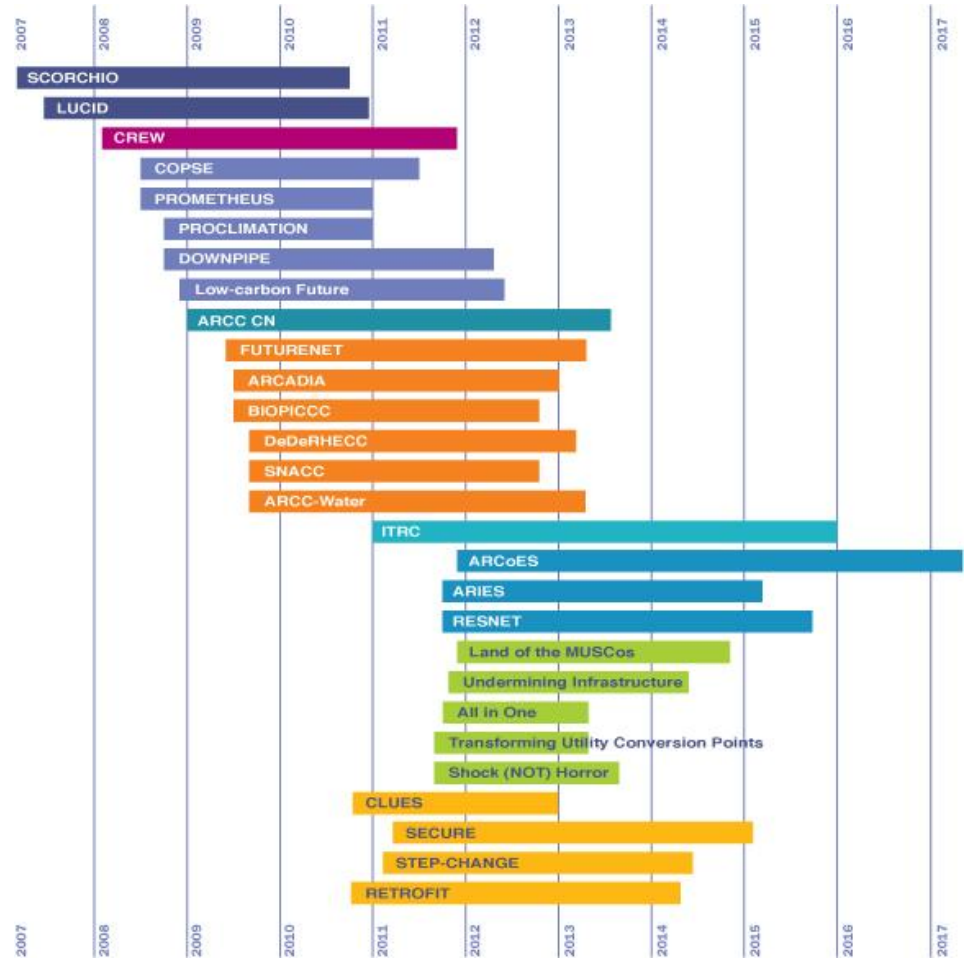
Adaptation and Resilience to a Changing Climate

Coordination Network Funded by EPSRC since January 2009 to

- promote stakeholder engagement and targeted dissemination
- maximise the potential benefits of the research to all end users
- promote collaboration of researchers
- facilitate the further exploration of related knowledge and knowledge gaps

ARCC CN – projects past and present

- An on-going program with a rolling suite of multi-disciplinary, EPSRC-funded research projects
- ARCC CN – bid to continue the work beyond July 2013
- A developing project legacy role



The Network – Researchers and Other Stakeholders

- Academic
- Local and central government (including devolved)
- Business
- Industry
- Professional organizations

Cross-project coordination, engagement and knowledge exchange to facilitate the delivery of outputs that enhance the impacts of research, including informing policy and practice

- Sound scientific evidence for decision makers
- Efficient, targeted dissemination of outputs to a range of policymakers and practitioners
- Identifying knowledge gaps and policy priorities
- Building capacity of UK researchers to engage effectively with potential users
- Expanding collaboration with similar programmes and networks internationally

Value Added – Stakeholders' Perspectives

Stakeholders see themselves as members of the Network

- Valued members of network (as well as individual projects) who identify and define gaps
- Inform and contribute to outputs

Opportunities for effective engagement

- Look to network to target their engagement (diversity, relevance and benefits)
- Awareness of broader research activities and outputs
- Focal point for access to expertise and knowledge (used in TSB Design4Climate competitions, CCRA process, LWEC partners activities, CIBSE initiatives and events, Climate UK initiatives and events)

Value added – Researchers' Perspectives

Pathways to impacts

- Increased research and effectiveness of impacts – increased interest in outputs
- Coordinate stakeholder engagement adding value to individual project outputs
- Opportunities for dissemination – target key stakeholders and other research groups and directly relevant to project and ARCC CN impacts

Engagement in Network – demonstrated value

- Researchers see themselves as members of the Network – engaged in decisions related to ARCC CN activities
- Targeted engagement where there is relevance and benefits
- Access to knowledge exchange and stakeholder engagement expertise
- Opportunities to share knowledge, data and stakeholder engagement

Your views...

- Aware of ARCC CN or its projects?
- What has it done well? What could it improve upon?
- What other academic research or KE networks do you use?
- How/where do you get research needs met?
- Where would you look for this information?