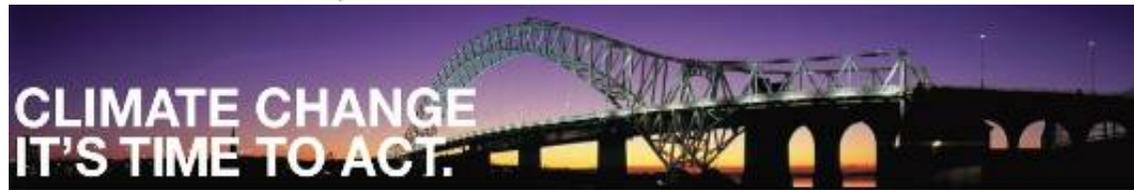




GOVERNMENT OFFICE
FOR THE NORTH WEST



North West Adaptation Framework

Paul Needham

Environment Agency/North West Climate Change Unit

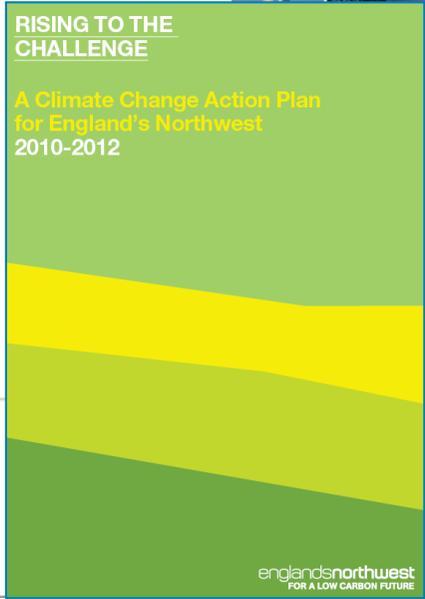
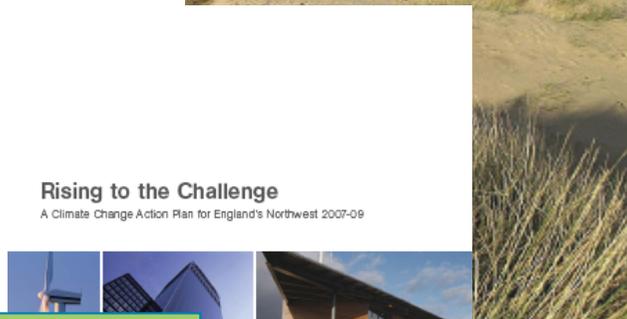
Leadership in Spatial Planning for Climate Change and a Low Carbon Future,
Manchester, 11th January 2011

Outline

- ➔ Adaptation activities in the North West
- ➔ NW Climate Action Plan adaptation enabling studies
- ➔ Flood and coastal erosion risk management programmes
- ➔ NW Adaptation Framework

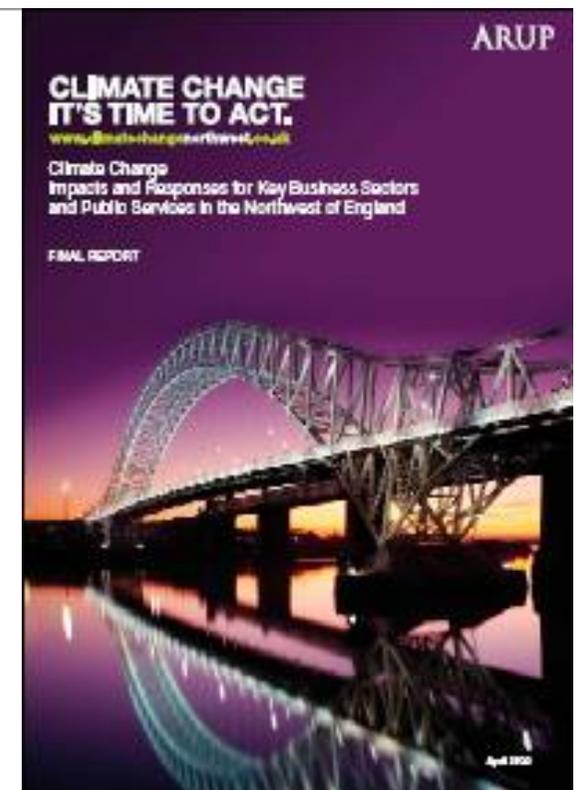
Adaptation in the Northwest?

- ➔ First Scoping study 1998
- ➔ Visitor Economy study 2005
- ➔ First regional climate change action plan 2007 refresh 2009
- ➔ Actions on Adaptation
 - ➔ Focused largely on building adaptive capacity
 - ➔ Development of the NW adaptation framework

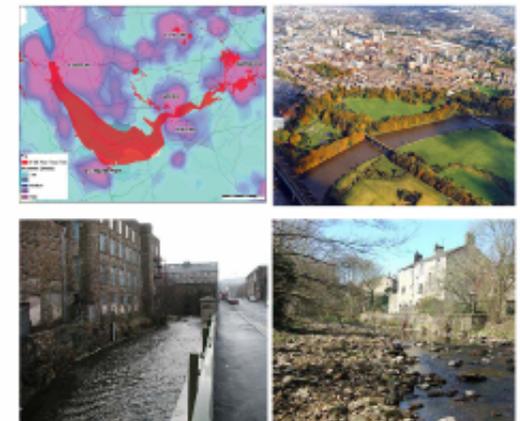


NWCCAP enabling studies

- ➔ ARUP study pioneered the approach of analysing sectoral risks from future climate change
- ➔ Base on the assessment of the business area, premises, logistics, finance, etc
- ➔ URS, study mapped the distribution of business sectors and potential economic impact
- ➔ Average annual damages estimated, with existing defences to be £34m raising to £138M



Economic Impacts of Increased Flood Risk Associated with Climate Change in the North West



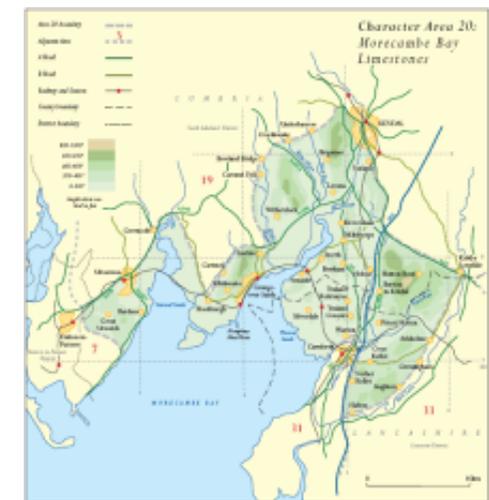
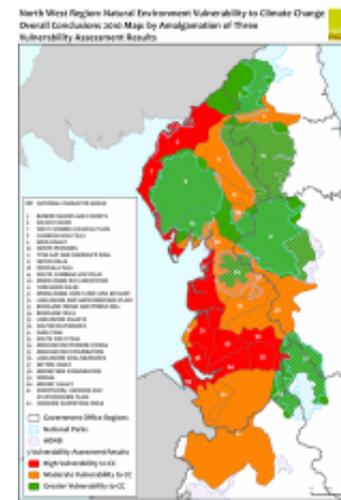
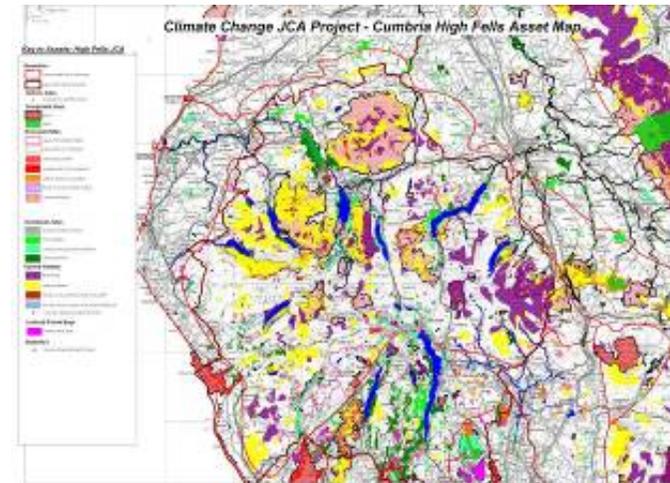
Contracted Adaptation Activities

- ➔ GRaBS project (green and blue space adaptation for urban areas and eco towns)
- ➔ Interreg IVC project UK work being undertaken by Community Forest Northwest on behalf of the NWDA
- ➔ Developing a GI action plan and have already produced a number of reports on the services GI can provide



Biodiversity Vulnerability Study

- ➔ Natural England are leading the assessment of the vulnerability region's biodiversity
- ➔ Region methodology developed from national JCA pilots
- ➔ 6 detail study areas bases on AONB
- ➔ No short term solutions and will require more joined up approach



Flood and coastal erosion risk management programmes

- ➔ NW CCAP acknowledged the strategic planning processes in place to manage this risk
 - Shoreline Management Plans
 - Catchment Flood Management
- ➔ No intention to duplicate efforts

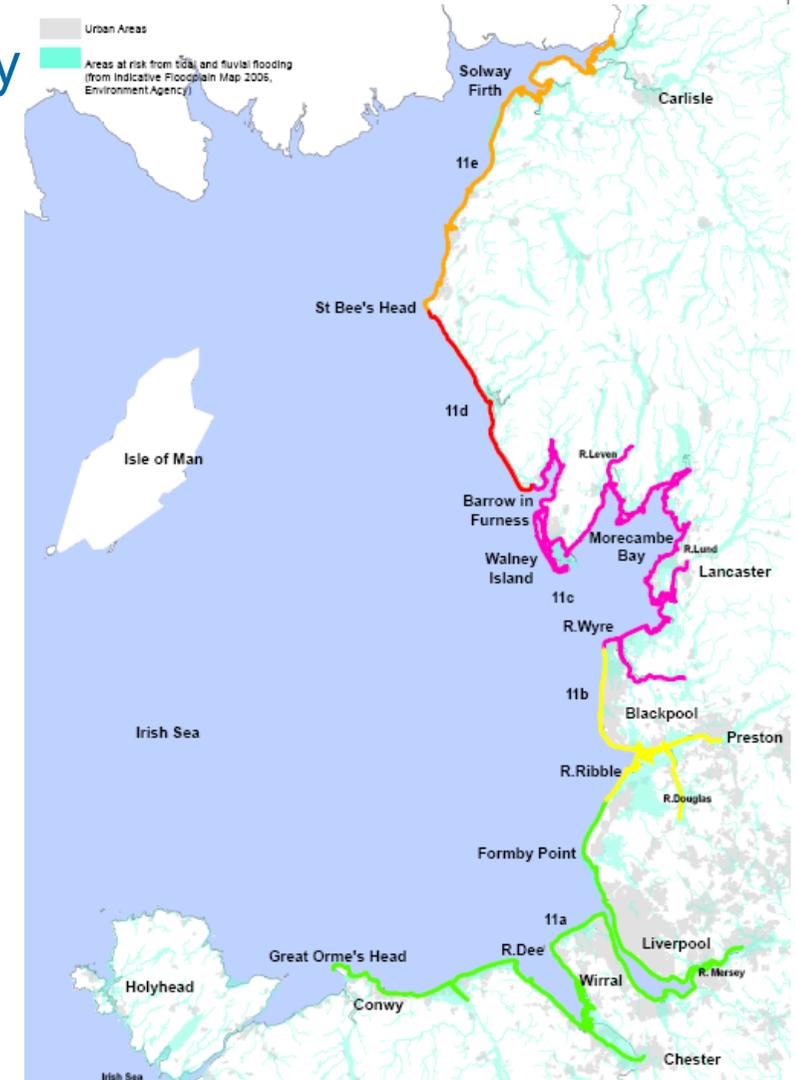


The North West England & North Wales SMP2

- ➔ Extends from Gt Ormes Head to the Solway
 - ➔ Open coast and estuaries
 - ➔ Five sub-cells, ~ 200 policy units

- ➔ Blackpool Council are lead authority
 - ➔ Project Management Board
 - ➔ Coastal Group
 - ➔ National Quality Review Group

- ➔ Stakeholder Engagement
 - ➔ Stakeholder Forums
 - ➔ Defra-funded Coastal Engagement Officer
 - ➔ Communication plans for 'hot-spots'



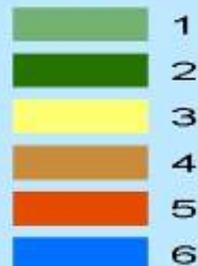
CFMPs

- ➔ Thirteen Catchments
- ➔ 138 areas where policies have been selected
- ➔ Nearly 1100 actions to implement policies in each area

Policies Selected in North West Region

Legend

POLICY



CFMP Boundaries

Policy option 1: Areas of little or no flood risk where we will continue to monitor and advise

Policy option 2: Areas of low to moderate flood risk where we can generally reduce existing flood risk management actions

Policy option 3: Areas of low to moderate flood risk where we are generally managing existing flood risk effectively

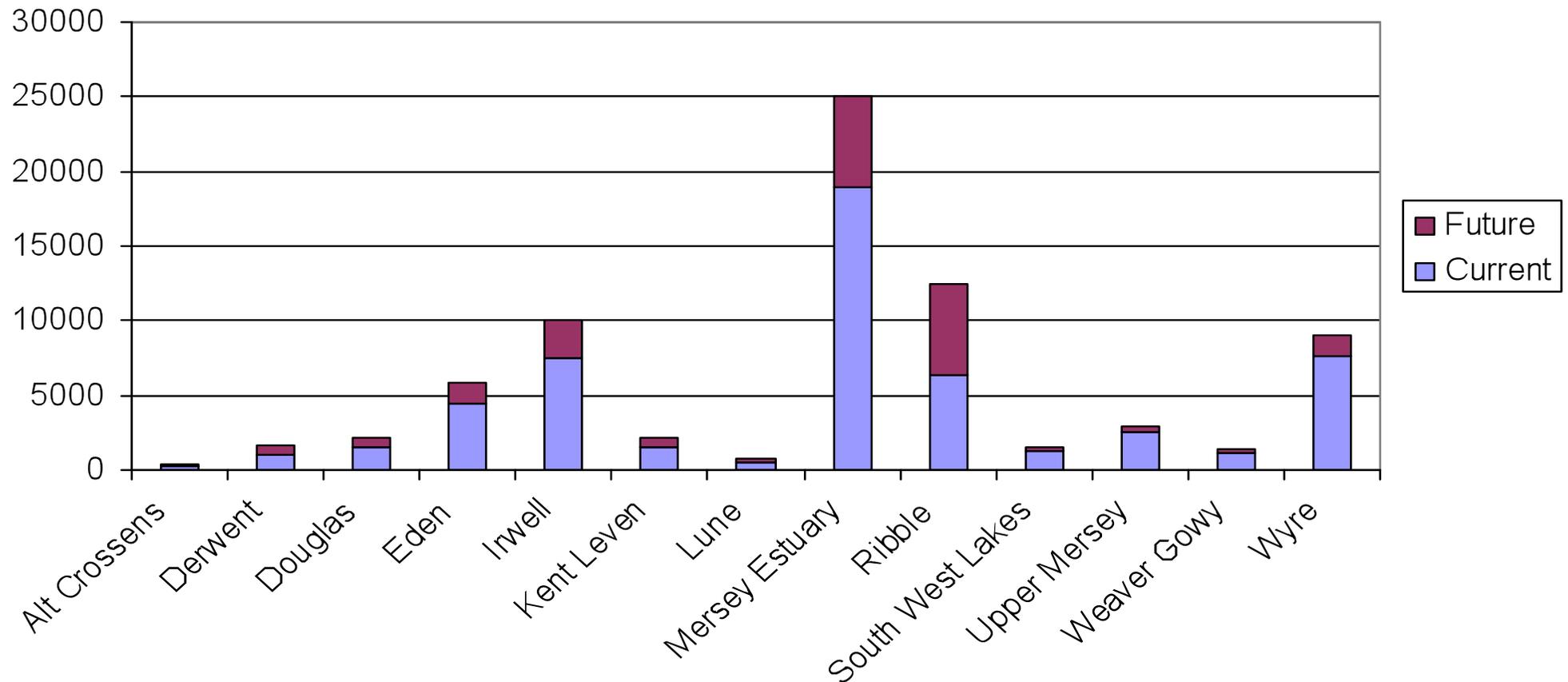
Policy option 4: Areas of low, moderate or high flood risk where we are already managing the flood risk effectively but where we may need to take further actions to keep pace with climate change

Policy option 5: Areas of moderate to high flood risk where we can generally take further action to reduce flood risk

Policy option 6: Areas of low to moderate flood risk where we will take action with others to store water or manage run-off in locations that provide overall flood risk reduction or environmental benefits



Current and future flood risk



➔ Overall there are approximately 55,000 properties at risk in a 1% AEP fluvial event in the NW region at present (taking into account defences) this could rise to over 75,000 in the future due to climate change.

Climate Change Adaptation in the North West and the Adaptation Framework

- ➔ Not a single document, it is a process
- ➔ Operating system to collect and map CC activity
- ➔ Process will be on-going



The Consultation Document

- ➔ A simple approach aimed at a wide audience
- ➔ Based on the principles that:
 - ➔ Some impacts are already planned for and managed and some are not!
 - ➔ Not everyone has to understand and plan for all impacts.
 - ➔ But everyone has to consider what's left for them to do!
- ➔ It's all about starting the process of finding out how well the North West is adapting!



Things to note

- ➔ Part A identifies and assesses activities for which LA's lead (i.e. Preliminary FR assessments)
- ➔ The Sector Based summaries are basic with no real differentiation between different types of LA or locality
- ➔ Some local information and assessments will be more informative and need to be built into the process



Initial issues

- ➔ Acknowledgement of existing processes to deal with some of the risks
- ➔ Planning has a key role to ensure the developed of resilient places
- ➔ Difficult engaging private sector and no attempt to engage with the general public
- ➔ Financial constraints likely to divert resources from this agenda

Final Messages

- ➔ Need greater awareness of activities and processes in place to manage current and future risk, threats and opportunities
- ➔ Accept that individuals will need to understand their own residual risk, capacity and ability to take action
- ➔ This will be an on going processes and the momentum achieved to date should not be lost due to financial constraints