



## Flood and Coastal Erosion Risk Management Stakeholder Forum

Wednesday 10 July 2013



#### Managing flood and coastal erosion risks in England 1 April 2012 – 31 March 2013

Emma Thomson Senior Advisor 10 July 2013

- Over 7,000 properties flooded during the year
- 43,000 hectares of agricultural land were under water during one week in November alone
- Over 200,000 properties were protected from flooding





Large scale capital projects completed this year are set to deliver £7.1 billion in benefits, a return of nearly 10:1 for every pound invested.

The risk of flooding and coastal erosion was reduced for over 59,000 properties.

Working in partnership has brought in £8.9 million in additional investment from both public and private sectors to supplement central Government funding.

Over 350 hectares of water dependent habitat was created or improved

£9.8 million was invested across 83 projects to restore and create healthy natural environments.

LLFAs continue to develop local flood risk management strategies, with 5 now completed and published and 80% in progress.



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#### The Future of Flood Insurance Defra/EA Stakeholder Forum

Date:10<sup>th</sup> July 2013

#### **Flood Insurance Announcement**



#### Why are we doing this?

Estimated impact on household income of risk reflective pricing for buildings insurance for properties with some degree of flood risk in their premium



#### **Policy Aim**

- to ensure that domestic property insurance continues to be widely available and affordable in areas of flood risk without placing unsustainable costs on wider policyholders or the taxpayer
- over time there should be a gradual transition towards more risk-reflective prices, based on robust evidence of local risk, to increase the incentives for flood risk to be managed whilst allowing time for choices to be made and appropriate action to be taken.
- Government envisages this transition taking place over the next 20-25 years

#### **Options**

#### **Improving Flood Defences**



#### **Memorandum of Understanding**

- A shared vision
  - a not-for-profit organisation run by the industry
  - eligibility thresholds at affordable levels
  - industry levy mirroring the existing cross-subsidy
  - additional ad-hoc insurer contributions to help cashflow
  - under-pinned by new legislation to avoid free-riding

Prepares the ground for parties to work together to move the vision forward

#### **Flood Re**



Solution 2018 Content for Environment, Food & Rural Affairs

Up to ~£100 million from insurers in the event of a major flood, if insufficient reserves in place

#### How does it work?

- Compulsory scheme legal powers coming from Water Bill
- Industry run re-insurance pooling scheme for high flood risk properties
  - All insurers must pay levy
  - Insurers choice as to which policies are ceded to the re-insurance pool
- Targeting/Exclusions
  - Council Tax Bands / Band H
  - Houses built since 2009
  - "Genuinely uninsurable" properties
- Operates for 20-25 years

#### **Council Tax Banding**



Department for Environment, Food & Rural Affairs

Costs estimates from: *Managing the future financial risk of flooding*; Impact Assessment, Defra1446 17

#### Dependencies

- Consultation
- Parliamentary approval
- EU State Aid approval process
- Continued insurance industry support

If Flood Re cannot be made to work and ongoing market monitoring shows high flood risk households are not able to access affordable insurance...

#### **Flood Insurance Obligation**

- Also seeking powers to create Flood Insurance Obligation
- Would require each insurer to take their share of high risk policies
  - A regulator to supervise the flood insurance obligation
  - An administrator to develop a register of properties at high flood risk
- Size of the "obligation" with all UK insurers taking a share
  - Exemptions
  - Targets/share of the market
  - System of trading credits
  - Breaches dealt with by Civil Sanctions

#### **Next Steps**

- Consultation ends 8 August 2013
- Bill Stages
  - 2<sup>nd</sup> reading in House of Commons autumn
  - Committee Stage introduction of full clauses
  - Report Stage
  - 3<sup>rd</sup> Reading
  - Enters the House of Lords (January)
  - Royal Assent in the spring
- Flood Re in place by summer 2015

#### Workshop

#### **Topics**

- Policy Objective and approach
- Policy Options
- Flood Re Eligibility for support
- Flood Re Exemptions and funding
- Flood Insurance Obligation
  - nature of the obligation and flood risk register

40 Minute Workshop Feedback Session at 12:00 Panel Discussion at 12:15





## Flood and Coastal Erosion Risk Management Stakeholder Forum

Wednesday 10 July 2013



## Climate change and flood risk

Dr Sarah Jackson, Met Office

#### www.metoffice.gov.uk

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## Global changes in precipitation

- Mid and higher northern latitude precipitation increase from 1900– 2010
- Precipitation in the tropics has likely increased over the last decade, reversing a trend of drying
- Likely that the number of heavy precipitation events has increased significantly in more regions than it has decreased since 1950
- Detection of human influence on:
  - Zonal patterns of precipitation changes

- High northern latitude precipitation changes
- Atmospheric humidity

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### What about the UK scale?



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#### Recent research has focused on looking at how human influence may have altered extreme months or seasons



#### **UK Autumn Floods of Autumn 2000**

In 9 out of 10 cases model results indicate that twentieth-century anthropogenic greenhouse gas emissions increased the risk of floods occurring in England and Wales in autumn 2000 by more than 20%

In two out of three cases the increase was more than 90%

Pall et al., 2011

#### Recent research has focused on looking at how human influence may have altered extreme months or seasons



#### **UK Autumn Floods of Autumn 2000**

For all but one (of 8) catchment, emissions are likely to have led to an increased chance of flooding in the October–December period.

#### BUT

Definitive conclusions are difficult however, as there are wide bands of uncertainty

Kay et al., 2012

## Why was 2012 so wet?

- Long term ocean processes
- Arctic Sea ice
- Solar Cycle



Changes (%) in winter and summer mean precipitation at the10, 50 and 90% probability levels for the 2080s under the Medium emissions scenario.

#### 10% probability level 50% probability level 90% probability level Very unlikely to be **Central estimate** Very unlikely to be less than greater than Winter Summer -70 -50 50 70 -30 -1030 10 Change in precipitation (%)

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### Coastal flooding Factors to Consider



- Rising sea levels
- Vertical movement of the land
- Changes in flood risk from surges





Resid (m) 0.575 0.8 1.025 1.25 1.475 1.7 1.925

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Resid (m) 0.575 0.8 1.025 1.25 1.475 1.7 1.925

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## Key Science findings

New projections of storm surges

• No significant 21st century trend

New projections of sea level

• Relative rise of 20 to 90cm

New projections of 21st century Thames river flow at Kingston

• Change by –10% to +70%

A H++ scenario for sea level and surges

• A low probability scenario of largest plausible rises

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# The coastal flooding results have been extended to rest of UK coastline



Figure 3.6: Relative sea level (RSL) rise over the 21st century showing central estimate values (thick lines) and 5th and 95th percentile limits of the range of uncertainty (thin lines) for four sample locations around the UK. Values are relative to 1990. Central estimates for each decade are given in Table 3.4.


# Flood & Coastal Erosion Risk Management Stakeholder Forum

Kylie Russell Business Resilience Lead Climate Ready FCRM Environment Agency



A support service led by the Environment Agency

## Increasing flood risk

- Today, around 490,000 properties face a significant risk of flooding.
- Even if investment is kept at current levels there will be 350,000 more properties with a significant chance of flooding by 2035
- Socio-economic and climate change projections combined suggest that flood damages in the UK could increase by a factor of 20 by the 2080s if no adaptation measures are implemented







## Legislative framework





A support service led by the Environment Agency

## **Climate Ready support service**

- Free, independent online advice and support
- Tailored support to help key sectors adapt



Vision:"A society which makes timely, far-sighted and well-informed decisions to address the risks and opportunities posed by a changing climate



## **Seven key themes**

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



#### www.environment-agency.gov.uk/climateready

A support service led by the Environment Agency



## Where are businesses now?

- Businesses are under considerable commercial pressure
- Some have "started thinking about CC" very few taken specific adaptation measures e.g. 90% SMEs have inadequate flood insurance
- The impact of extreme weather is not a recoverable loss:
  The impact of the floods in 2007 cost the economy £3bn.
  The heatwave of 2003 cost the economy £500m.
  The cold weather in Q4 2010, cost the economy 0.5% of GDP
- If this scale of event were to happen 3 or 4 times a year this would have a significant impact on UK GDP



## **Barriers**

- Solution Short term planning
- Businesses do not see a 'business case' for adaptation
  - no immediate financial advantage
- There's no specific market for climate change adaptation advice and guidance





## **Business Support**

- Business case
- Supply Chain Guidance
- Working through others
  - S Accountants Business Resilience Health Check
  - Training and qualifications
  - Umbrella organisations
- Incorporating climate risks into business continuity standards









# Flood and Coastal Erosion Risk Management Stakeholder Forum

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#### **Climate change and social justice**



Katharine Knox, Programme Manager, Joseph Rowntree Foundation

#### **Issues to cover**

- 1. Role of JRF
- 2. JRF climate change & social justice programme
- 3. Dimensions and issues of social justice
- 4. Programme to date



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



#### **POVERTY**:

To identify the root causes of poverty and injustice

#### PLACE:

To support resilient communities where people thrive

#### AGEING SOCIETY: To respond positively to the opportunities and challenges of an ageing society



### **Climate Change & Social Justice Programme**

- 1. To examine social impacts and social justice implications of climate change for people/places in UK
- 2. To inform policy and practice responses to address needs of vulnerable people including those facing poverty/ disadvantage
- 3. To support social innovation and community resilience

2009-date

Potential for further funding 2013+



### Why does social justice matter?





# What are the issues in responding to flooding in the context of climate change?







## What is JRF doing?

#### Identifying impacts for people and places in UK e.g.

- mapping social vulnerability to river flooding and heatwaves
- analysis of pluvial flood risk and relationship with deprivation
- examining issues for key areas e.g. disadvantaged coastal communities

## Examining policy responses on mitigation and adaptation to ensure most vulnerable are protected e.g.

- assessment of the distributional impacts of domestic energy policies
- examining justice of emerging adaptation responses
- analysis of policy opportunities/concerns e.g. future of flood insurance

#### Supporting innovation through JRHT e.g.

- Good Life initiative New Earswick
- Energy efficient homes, supporting sustainable living/ behaviour change – Derwenthorpe

Focus on flooding work in discussions today



## Who is vulnerable to climate change impacts?

- Vulnerability 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

Adaptive capacity (social)	Sensitivity (personal)	Enhanced exposure (environmental)
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 (river/coastal)

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

JRF JRHT

## How will we adapt?



- Access to affordable flood insurance a key concern
  - Increasing frequency of flooding in UK esp E&W
  - Increasing premiums for those flooded or at risk
  - Low take up among low income households
  - Limits to individualistic risk based approach to insurance
  - Threat of blight to communities at highest risk
  - Flood insurance a "gateway social good"
- Socially just adaptation critical nationally and locally
- Requires greater focus on social vulnerability



## Poverty and vulnerability to flooding

- Poverty is an important factor increasing social vulnerability to flooding
- But vulnerability goes beyond income/deprivation
- Also relates to adaptive capacity (coping strategies, preparation/response/recovery)
- Urban and coastal areas = most socially vulnerable areas in UK in relation to river flooding and heatwaves
- But pluvial flooding "invisible hazard" accounts for about 1/3 of flood risk in UK
- Socially just approach to flood insurance a critical part of safety net
- Need to do more to support resilience for disadvantaged people and places



### For more information...

JRF climate change and social justice programme: http://www.jrf.org.uk/work/workarea/climate-change-and-social-justice

Lindley et al (2011) Climate change justice and vulnerability <a href="http://www.jrf.org.uk/publications/climate-change-justice-and-vulnerability">http://www.jrf.org.uk/publications/climate-change-justice-and-vulnerability</a>

Houston et al (2011) Pluvial flooding : the invisible hazard <a href="http://www.jrf.org.uk/publications/pluvial-flooding-invisible-hazard">http://www.jrf.org.uk/publications/pluvial-flooding-invisible-hazard</a>

O"Neill and O"Neill (2012) Social Justice and the future of flood insurance <a href="http://www.jrf.org.uk/publications/social-justice-flood-insurance">http://www.jrf.org.uk/publications/social-justice-flood-insurance</a>

Katharine.Knox@jrf.org.uk

Twitter: @jrf\_uk @katharineknox





#### The invisible hazard: pluvial flooding in urban areas

**University of Dundee** Alistair Geddes Alan Werritty Andrew Hoolachan University of St Andrews Donald Houston

JBA Consulting David Bassett Marion McMillan

**JRF Climate Change and Social Justice Programme** 

## Background

#### **Recent urban flooding**

- Intense bursts of rainfall embedded within longerduration storms – 'month's rain in less than 24 hours'
- urban drainage unable to evacuate resulting surface water runoff

 often in locations not identified as 'high flood risk' hence
 'invisible flood hazard'



Cayton Bay, Caravan Park North Yorkshire: 6 July 2012



Breadsall, Derbyshire: 6 July 2012



## **Policy context**

- Pitt Review 2008
- Flood Risk Management legislation (2009, 2010)
- UK Climate Projections
   2009 (UKCP09)
- UK Climate Change Risk Assessment 2012



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#### CLIMATE CHANGE AND SOCIAL JUSTICE

How will climate change affect people and places facing poverty and disadvantage in the UK?





## **Project aims**

- 1. Estimate for UK regions urban populations at risk now and in 2050s, taking into account climate change projections and projected population growth
- 2. Assess socio-economic composition of at-risk areas.
- 3. Engage stakeholders to explore awareness and responses to pluvial flood risk.

### **Climate change projections**



#### High GHG emissions: 2050s

Projected % changes in rainfall on wettest day, relative to baseline period

**But** what of short intense rainfalls lasting a few hours?





## Extreme rainfall modelling: wettest day



Uplift in rainfall on wettest day 2030s-2080s: high emissions

Uplift of 3-6 mm per day on wettest day: High emissions 2080s

### **Extreme rainfall modelling: sub-daily**

- 1 in 200 year rainfall for wettest 1.1 hr and Flood 10.5 hr durations => resulting outlines merged Handbook:
- Typical storm profile (summer)
- +10% and +20% allowances for climate change frequency



**Depth-duration-**

### **Urban areas: modelling pluvial flooding**

City	Recent history of pluvial flooding	Surface water management plan	Urban form	Age of infrastructure
Belfast	Yes	No	Victorian industrial	Victorian
Glasgow	Yes	Yes	Victorian industrial	Victorian
Luton	Yes	Yes	New town	Post-war

## **Pluvial flood outlines**

#### Example pluvial outline for Baseline event

#### Example pluvial outline for Climate Change event



Glasgow



#### **Glasgow: pluvial flood hazard**





### **National Estimates**

BASELINE		
Current urban population	45 million	
A. Population in at-risk locations	5%	
B. Living at street-level or below	87%	
	= 1.9 million	
2050s		
C. Projected population growth (national)	45%	
D. Projected increase in at-risk population due to climate change*	16%	
	= 900,000 Population growth = 300,000 Climate change	

\* Hazard of baseline rainfall +10% => +13% exposure in at-risk areas Average increase in wettest day rainfall (2050s, medium emissions): 12.3%

### Baseline Regional Estimates (applying A & B)

#### At-risk urban population



# % of overall regional population




#### Components of change: 2050s (applying C and D)





#### Local vulnerability profiles: baseline

Socio-demographic indicator	Belfast			Glasgow			Luton		
	Flood risk areas	Non- risk areas	Diff.	Flood risk areas	Non- risk areas	Diff.	Flood risk areas	Non- risk areas	Diff.
Older people (75+)	7.4%	6.8%	0.6%	6.8%	6.9%	0.0%	5.3%	5.1%	0.3%
Ethnic minority	1.2%	1.1%	0.1%	3.7%	3.7%	0.0%	29.8%	28.0%	1.8%
Limiting long-term illness	22.9%	21.6%	1.3%	24.0%	23.8%	0.2%	15.9%	15.3%	0.7%
Poor health	13.3%	12.2%	1.1%	13.7%	13.5%	0.3%	8.4%	8.0%	0.4%
Unemployed	4.8%	4.3%	0.5%	4.9%	4.8%	0.2%	4.1%	3.8%	0.2%
Lower socio- economic group	39.2%	36.7%	2.5%	28.7%	27.9%	0.8%	30.0%	29.2%	0.7%
Households with no car	37.6%	33.4%	4.2%	48.0%	46.5%	1.5%	27.8%	26.3%	1.4%
Owners (with a mortgage)	35.5%	39.0%	-3.5%	36.4%	36.9%	-0.5%	43.4%	46.4%	-3.1%
Social renters	29.2%	25.7%	3.6%	35.7%	35.1%	0.6%	17.0%	16.4%	0.6%
Private renters	8.3%	7.2%	1.1%	4.7%	4.6%	0.1%	11.2%	10.5%	0.7%
Overcrowding	8.2%	7.2%	1.0%	18.0%	18.0%	0.0%	12.4%	11.5%	0.9%
Single pensioner households	15.9%	14.6%	1.3%	15.8%	15.6%	0.2%	11.4%	11.1%	0.4%
Lone parent households	9.6%	9.3%	0.3%	9.4%	9.1%	0.3%	6.9%	6.8%	0.0%
Households at street level or below	90.8%	92.6%	-1.7%	61.6%	63.8%	-2.1%	86.7%	88.7%	-2.0%

#### Local vulnerability profiles: baseline (Belfast)





#### Socio-spatial profile: key urban areas

	Intensity of wettest day rainfall							
	Hig > 23	gh mm	Med 17-23	ium mm	Low < 17 mm			
Indicator (2001 Census)	Baseline	2050s	Baseline	2050s	Baseline	2050s		
Poor Health (%)	10.5	10.7	10.3	9.7	9.2	8.6		
Low Occupational Status (%)*	13.1	13.3	14.7	14.9	13.8	14.6		

\* Long-term unemployed, in semi-routine or routine employment

## **Key Findings**

- c 1.9 million urban dwellers estimated as living in at-risk areas
- Population growth has potential to create *c*. 3x as many urban dwellers at risk than climate change
- More vulnerable households at slightly higher risk of pluvial flooding
- Important this not accentuated and vulnerability increased by changes to insurance provision in flood-risk locations
- Pluvial flood risk can be mitigated by avoiding highest risk locations, investment in drainage systems, flood proof building design and innovative surface water management schemes.







# Flood and Coastal Erosion Risk Management Stakeholder Forum

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#### **Coastal Change Adaptation Planning Guidance**



#### Defra Stakeholder Group: 10<sup>th</sup> July 2013 Jeremy Pickles and Jennifer Kippax

#### East Riding of Yorkshire Council





East Riding of Yorkshire Council County Hall Beverley East Riding of Yorkshire HU17 9BA Telephone 01482 887700 • www.eastriding.gov.uk 77

### Introduction

#### East Riding of Yorkshire Context

# Coastal Change Adaptation Planning Guidance

- Project Context
- Aims and Outcomes
- Document Sections
- Benefits
- Consultation and Next Steps







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## East Riding of Yorkshire Coastline



Chalk cliffs at Flamborough: 17 km





#### Dunes at Spurn: 8 km





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Defended frontages: 12 km

80

### Adaptation in the East Riding of Yorkshire

Developing new approaches to coastal change management and using erosion monitoring data to inform decision-making

ICZM Plan (2002)

Rollback policies (2003 and 2005)

East Riding Coastal Change Pathfinder (2010 – 2012)

Lobbying Government for continued assistance to support coastal change adaptation





#### East Riding Coastal Change Pathfinder (2010-12)



Relocation and adaptation support, tailored to the needs of the most vulnerable (**no** compensation)





### Project Context

#### Review Coastal Change Pathfinder (CCP)

- Interview local authorities
- · Publish report and initial conclusions

#### Launch Project to Develop Adaptation Guidance

- Appoint project lead
- Establish dialogue between project lead and CCP authorities

#### **Release Project Tender**

- · Invite specialist consultants to bid
- Appoint successful bidder: Halcrow (a CH2M Hill company)



# Coastal Change Adaptation Planning Guidance



#### **Project Aims and Outcomes**

- A user-friendly guide for coastal practitioners
- Solutions tailored to locally-specific options
- A consistent process for establishing CCMAs
- A better understanding of adaptation measures
- The basis for further "how to" guides, e.g. on the subject of engaging with coastal communities on the topic of coastal change





### Coastal Change Management Areas (CCMAs)

"Local Planning Authorities should reduce risk from coastal change by avoiding inappropriate development in vulnerable areas or adding to the impacts of physical change to the coast." *Paragraph 106, National Planning Policy Framework* 

Incorporate into Local Plans or policy documents by developing CCMAs





### **Draft Guidance**

#### **Section 1: Introduction**

- Section 2: CCMAs and Mapping Techniques
- Section 3: Adaptation Approaches
- Section 4: Key Questions in Aiding Development of CCMAs through the Staged Process







### Section 2: establishing CCMAs





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### Section 2: mapping areas of risk





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#### **Draft Guidance**

	Coastal physical settings considered for adaptation						
Adaptation Approaches	Cliffs	Beaches	Sand Dunes	Estuaries	Defended Coastlines		
Rollback or relocate property, community facilities and infrastructure.	1	1	1	1			
Avoid development in vulnerable areas.	×	1	1	1			
Identify suitable type of time-limited (temporary) development that could occur.	¥.	~					
Ensure new development does not cause adverse effects / transfer coastal change risks to other areas.		*	1	1	1		
Use area action plans / neighbourhood plans to manage future development in coastal communities.		1	1	1	1		
Encourage new developments to incorporate green space to help manage future risks.				1	~		
Introduce resilience measures to property / infrastructure where relocation is not possible. To support this, provide advice to developers / property owners / businesses on the measures they can take.		*		1	1		



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#### Benefits to Coastal Practitioners and Local Authorities

A new mechanism to encourage the formation of consistent CCMAs nationally

- Sound processes for managing coastal change, all of which can be built into future policy
  - A single source of adaptation case studies from across England, on topics including:-
    - Developing planning guidance linked to coastal change adaptation
    - Working with the community to plan for adaptation
    - Encouraging / incentivising rollback through planning policy



### Consultation

Opened in June 2013 to key stakeholders including:

Chairs of Coastal Groups in England

Environment Agency

Defra

Local authorities (including those without CCP projects) E-mail <u>alan.frampton@ch2m.com\_to</u>

Request the draft guidance and consultation response sheet

Return your comments by 12 noon on Monday, 22<sup>nd</sup> July 2013





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#### **Next Steps**

- Review consultation responses and finalise guidance
  - Disseminate draft guidance
  - Halcrow to release the guidance to Defra and Coastal Groups by early August 2013
- Launch and publicise guidance
  - Potential workshops
  - Online access and wider dissemination through a number of media channels





### **Further Information**

Alan Frampton<br/>(Coastal Scientist, Halcrow)Tel: 01392 354 666E-mail: alan.frampton@ch2m.comJeremy Pickles(Principal Sustainable Communities and Coast Officer)Tel: 01482 391720E-mail: jeremy.pickles@eastriding.gov.ukJennifer Kippax<br/>(Coastal Officer)Tel: 01482 391728E-mail: jennifer.kippax@eastriding.gov.uk

#### Websites

East Riding Coastal Explorer: <u>www.coastalexplorer.eastriding.gov.uk</u> Halcrow: <u>http://www.halcrow.com</u>









# Flood and Coastal Erosion Risk Management Stakeholder Forum

Wednesday 10 July 2013

# Asset maintenance & agriculture

#### Defra/Environment Agency FCERM Stakeholder Forum 10 July 2013





The voice of British farming

## Increasing pressures on rural flood risk

Reducing rural maintenance

Reducing revenue budgets / increasing environmental barriers



Frequency of intense rainfall events exacerbated by development Barriers/bureaucracy for farmers to undertaking or funding dredging and other maintenance



**MFU** 

The voice of British farming

## What is the NFU seeking?

- Clarity of the works and maintenance the Environment Agency and other authorities plan to carry out each year.
- A **simpler process** that facilitates farmers wishing to carry out watercourse maintenance.
- Rebalance funding towards maintenance watercourses and existing structures.
- Value agricultural land, especially grade 1-3a, more accurately so that decisions on flood protection and maintenance take account of food security.
- To challenge the apparent presumption against watercourse maintenance because of alleged negative environmental impacts.





## NFU activity to date

- Dec Hosted a flood 'summit' meeting with members
- Jan EA CEO and Director of FCERM attended NFU Council

Ongoing Shared strategy with EA on tackling rural flooding issues.

- FebRaised flood funding and maintenance issues with EFRAMarch NFU Flooding issues group meeting
- April Met Benyon and Heath in Somerset regarding dredging
- June Returned comments to EA consultation on facilitating rural watercourse maintenance proposals and trials
- July British Farmer and Grower article on watercourse maintenance under existing regulations





## **NFU/EA Shared Action Plan**

The EA and NFU are working together on a shared set of actions under three topics:

- 1. Improving the understanding around Rural FRM Funding
- 2. Improving evidence and understanding
- 3. Facilitating rural watercourse maintenance





## 3. Facilitating Watercourse Maintenance

**Steps discussed with the Environment Agency:** 

- 1. Identify barriers regulation
- 2. Explain existing system of regulation.
- 3. Trial simpler regulation in pilot catchments, for 1 year from Autumn 2013
- 4. Facilitate farmers nationwide to undertake maintenance work whilst retaining essential safeguards for the water environment.





### **British Farmer and Grower article**



ERTRON 1.2: WATERCOURSES - REGITS, BENFORSHED ITES, MAINTERANCE AND RECORATION

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#### DEFINITIONS

A WATERCORNEE IS ANY NATURAL OR ARTIFICUA CULANCE ARDVA OR BULLOW GROUND THROUGH WORKI WATER HUNG. BUDA AN A WHILE MINOR SEC. (DOI: 10 MIL STREAM OR CULUER: OF CHARME OR COMMCT WITH LINGLA, AN OFFICE TO AN INTERCAL MAIN WITH MAY

#### YOUR RIGHTS AND RESPONSIBILITIES

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#### MANAGEMENT AUTHORITIES

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#### COUNTY/UNITARYAUTHORITES

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#### DISTRICT COUNCILS

Hare powers missing in the prevenues, missipation and netwolping of Dank Comage for without water courses and for multiplication places and an entited within glassing laws.

#### WATER COMPANIES Reputation to public several and public solar supply

HIGHMAYS AUTHORITIES Prevent and responsibilities to manufacture registered, taking under water that and repart registered. This may which the a local automoty or, the mayer of scalar and characteristic, that ingelines Agency. It is more cause they that lot the memory in Automatics and cause the memory in Automatics and cause the cause and characteristic many be caused and characteristic many the caused of the cause and the second of the caused of the caused of the caused of the caused of the second of the caused of the caused of the second of the caused of the caused of the second of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the second of the caused of the caused of the caused of the caused of the second of the caused of the caused of the caused of the caused of the second of the caused of the caused of the caused of the caused of the second of the caused o

#### INTERNAL DRAINAGE BOARDS

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- Gives key definitions& authorities
- Explains riparian rights and responsibilities
- Explains conducting
  maintenance under existing
  regulations and consents
- Describes best practice for de-silting / dredging works
- Provides information on source control and reducing field run off

The voice of British farming





## NFU perspective to date

- Grateful for attendance by Environment Agency at NFU Council.
- Pleased to see similar concerns being expressed within EFRA Committee report and evidence from other organisations.
- Welcome consultation by Environment Agency on steps proposed to address agricultural flooding issues.
- More needed to address:
  - maintenance funding,
  - valuation of agriculture with FCERM,
  - working within environmentally protected rivers and catchments.
- Hope to continue constructive dialogue with EA, Defra and other stakeholders on key FCERM issues affecting agriculture.





## Our response

listened and taken action improved access, content and engagement on our maintenance plans developed a co-operation agreement for working with IDBs and LLFAs made it clearer on the permissions needed

consulted on an approach to reduce red tape









## Making it easier for others:

to find out about and shape what maintenance is planned – from our website, roundtable meetings, depot open days.....

to do work on our behalf - LLFAs and IDBs

to do maintenance work themselves and protect the environment



# Shared approach to asset management and watercourse maintenance


## **Next Steps:**

consider the comments received from stakeholders on how we propose to reduce red tape

establish 8 pilot projects around the country as part of the catchment based approach trial and monitor new approaches and tools

deliver better regulation and inform EPR

share good practice and learning

