

Public Bodies Duties Reporting Adapting to Climate Change

Anna Beswick | Programme Manager SSN reporting training day | 22 June 2017

The Adaptation Scotland programme is funded by the Scottish Government and delivered by sustainability charity Sniffer.





Adaptation Scotland

Enabling organisations, businesses and communities to adapt to the impacts of climate change

Adaptation Scotland is a programme funded by the Scottish Government and delivered by sustainability charity Sniffer









Our work is designed to:

- Increase understanding and confidence in tackling adaptation
- Inspire and enable collaboration and solutions to adaptation challenges
- Develop leaders who can influence adaptation across society
- Support local and global efforts to adapt









1. Introduction to adaptation

1. Adaptation planning and reporting





Introduction to adaptation



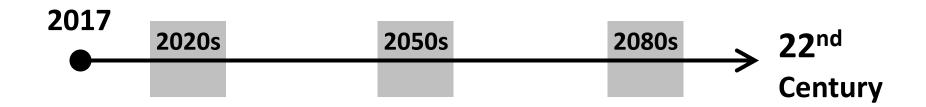
Change is constant.

environmental social legal climate legal political climate technological economic





The future? What timescale?



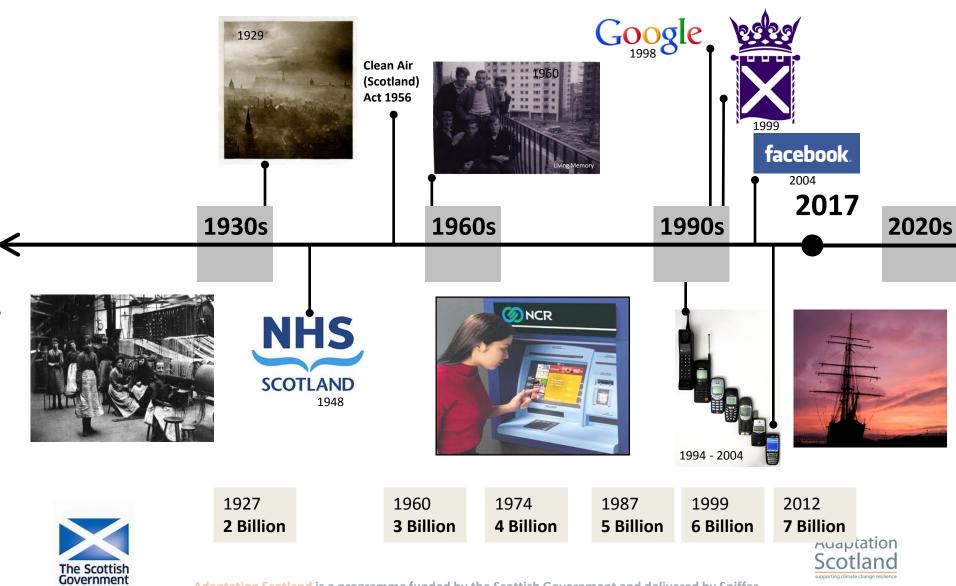












How is climate changing?

Adaptation Scotland

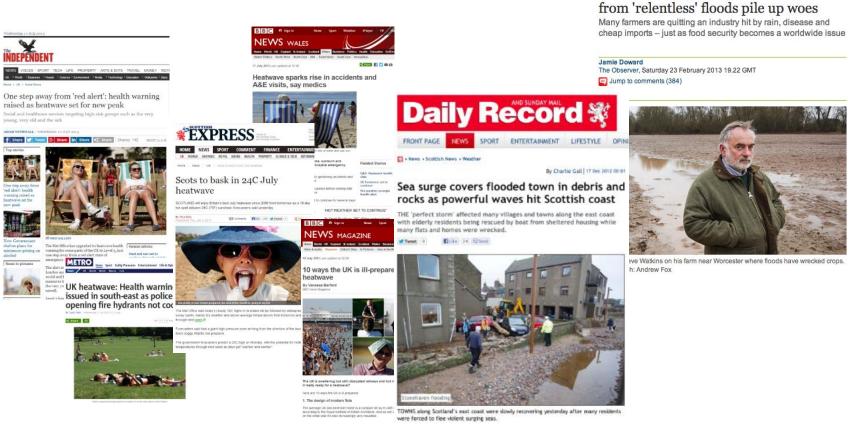
theguardian TheObserver

Environment Farming

News Sport Comment Culture Business Money Life & style

British farming in crisis as crop losses

Weather affects us.







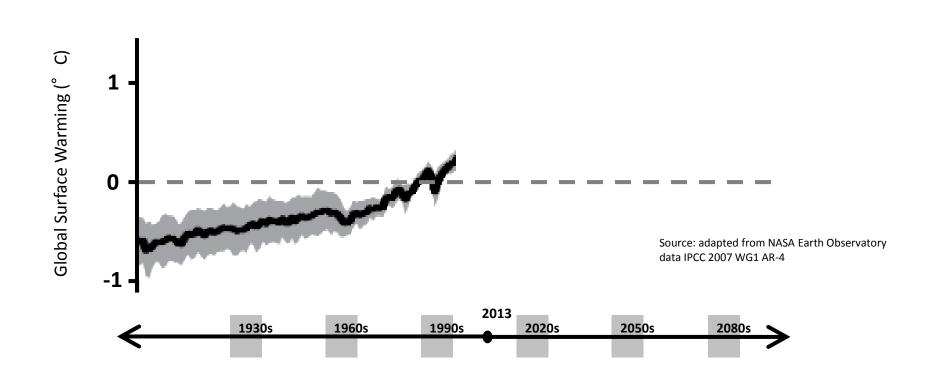


Understanding the Current Climate





Global surface temperature change







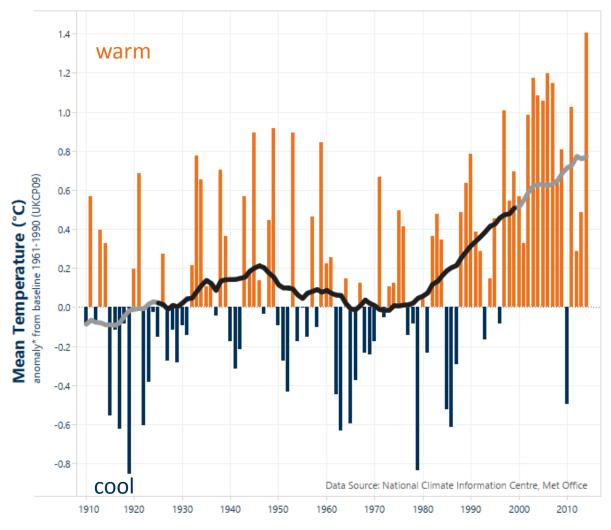
Adaptation

Scotland supporting climate change resilience

Climate Trends for Scotland



Scotland - Annual Mean Temperature (°C)



Mean Temperature

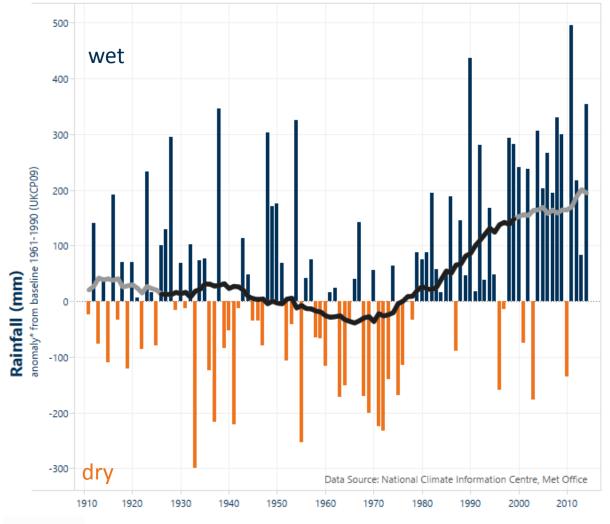




Climate Trends for Scotland

Adaptation Scotland

Scotland - Annual Rainfall (mm)





Rainfall (mm)





Observed changes



- Increase in severe weather events
- Sea level rise
- Reduced snow and ice





Are we 'adapted' to today's climate?



Adaptation to Future Climate Change





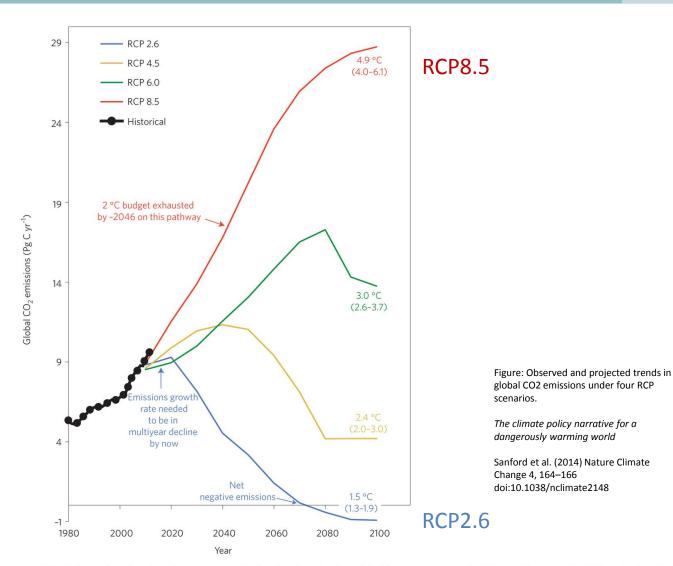
Understanding the Future Climate





Global CO₂ Emissions





knowledge brokers for a resilient Scotland



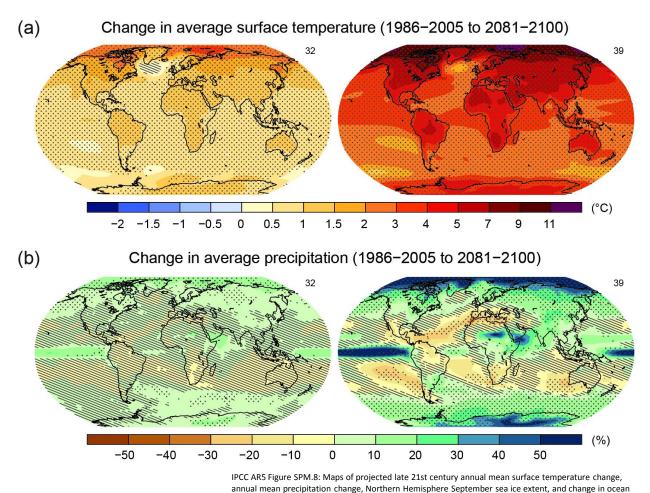
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Global Change



RCP2.6









The Adaptation Scotland programme is funded by the Scottish Government and delivered by sustainability charity Sniffer.

surface pH



Over the last few decades we have seen remarkable progress in our understanding of climate – and how humans are changing it...

... and we continue to improve on this.



Scotland has access to world leading information – the UK Climate Projections - about how our climate is likely to change over this century.

http://ukclimateprojections.metoffice.gov.uk/







The key long-term climate change trends for Scotland are:

- Weather will remain variable, it may become more variable
- Typical summer is hotter and drier
- Typical winter / autumn is milder and wetter
- Sea level rise

We can also expect to see:

- Increase in summer heat waves, extreme temperatures and drought
- Increased frequency and intensity of extreme precipitation events
- Reduced occurrence of frost and snowfall







Drivers of change

- Legislation
- Impacts





Legislation



- Climate Change Act (2008)
- UK Climate Change Risk Assessment
- Climate Change (Scotland) Act 2009
- Scottish Climate Change Adaptation Programme
- Public Bodies Climate Change Duties
- Mandatory reporting Public Bodies Climate Change Duties









Key consequences for Scotland



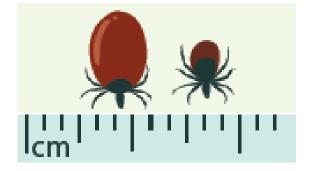


The productivity of our agriculture and forests



The occurrence of pests and disease







The health of our natural environment



The quality of our soils







The availability and quality of water





The security of our food supply



The change at our coast



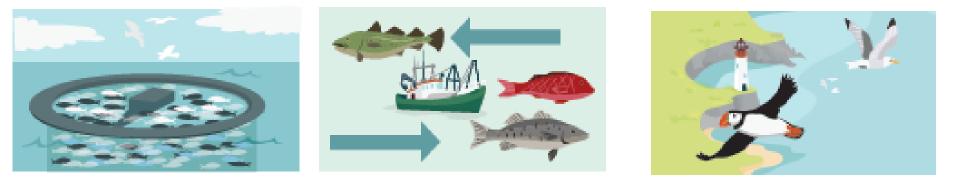
The increased risk of flooding







The health of our marine environment



Our cultural heritage and Identity



The resilience of our businesses



The health and wellbeing of our people







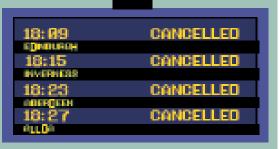
The security and efficiency of our energy supply



Infrastructure – Network Connectivity and Interdependencies







The performance of our buildings











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Adaptation planning and reporting





Outline

Five steps to managing your climate risks

A Guide for Public Bodies in Scotland



Supporting compliance with the Climate Change (Scotland) Act 2009 Public Bodies Climate Change Duties

Adaptation

4

Assessing and managing risk

4a Has the organisation assessed current and future climate-related risks? If yes, provide a reference or link to any such risk assessment(s).

4b What arrangements does the organisation have in place to manage climate Provide details of any climate change adaptation risk management adaptation policies and actions included across policy areas.

Taking action

4c What action has the organisation taken to adapt to climate change? Include details of work to increase awareness of the need to adapt and stakeholders to assess risk and implement action.







"Adaptation is a journey, not a destination"





1 Define the challenge

- Identify aims and objectives
- Ascertain where your adaptation arrangements will sit within the organisation
- Find contacts working on adaptation
- Build the business case

OUTPUT: Briefing paper for senior managers





2 Assess climate threats and opportunities

Understand recent and future climate trends







Service or department	Estates		
Manager	John Smith		
Critical function, service or asset	1: Maintain physical infrastructure		
Key performance indicator or specific objective	To continue the improvement and provision of student residential accommodation		
Is this function, service or asset	currently affected by the following? If so, explain	how.	
Heavy rainfall and flooding	Although the existing student accommodation is on high ground, access to the site does flood.		
Drought	No		
Very hot days and heat waves	No		
High winds	There have been a few minor damages caused by the wind speed of the recent storms.		
Snow and ice	One of the student halls has concrete steps that need to be gritted often in the winter months.		
Sea level rise and coastal flooding	No		
With changes in the climate in the If so, explain how.	future, could this function, service or asset be affec	cted by the following?	
Increasingly mild, wet winters	Yes. Increase in damp in older student accomm.		
Increasingly warm, dry summers	No		
Increased heavy rainfall	Yes. Potential for more surface water flooding and issues with drainage.	tation tland	
Less frost and snow	Less grit required for student halls.		ite change resilience

2 Assess climate threats and opportunities

• Gather evidence of past severe weather events and the consequences they had on your service continuity.

OUTPUT: Weather impacts table





Past w	Affected and com								
Weather variable	Description of impact	Location	Date	Consequences (costs, service disruption, injury, reputation)	Critical thresholds	Actions / plans / policies put in place to reduce this impact	Evidence of the effectiveness of these actions / plans / policies	Responsible department/ agency	Services/ communities that were affected
Frost/ice	Sub-zero ground temperatures lead to a series of road incidents	Dundee	Dec 2012	Council worker injured leading to reputational consequences; wall needing repaired – unforeseen costs	N/A	Safe winter driving plan introduced	Number of winter weather driving incidents has decreased	Transport and roads; Police	N/A







USING AN LCLIP TO ASSESS A LOCAL AUTHORITY'S VULNERABILITY TO CLIMATE CHANGE

Case study: Aberdeen City Council

Between 2008 and 2013 Aberdeen City Council was affected by 59 weather relate from flooding on the roads and fallen trees during stormy weather, to school closu and ice. Using a Local Climate Impacts Profile (LCLIP), the Council assessed its vulne events, and examined how the findings can be used to increase their resilience to f weather. This case study explains how this process was completed using a six stage

What is an LCLIP?

A Local Climate Impacts Profile is a tool

developed by UKCIP (an organisation

set up to help society adapt to climate

weather affects an organisation. The

Working through the LCLIP process

raises awareness of the impacts

of severe weather events on the

Council. In addition, it increases the

understanding of where the Council

needs to adapt its existing strategies,

policies, plans and procedures to meet

the changes. The LCLIP process has also

helped to inform the Council's Climate

Change Strategic documents which

includes an Adaptation Plan.

Aberdeen City Council is taking action on climate change as part of the Adaptation Lear The ALE was set up by Adaptation Scotland to support the public sector plan for the impact

interviews with key personnel.

Why do an LCLIP?

change) to understand how the current

process involves researching past weather

events through newspaper archives and

The LCLIF

The LCLIP at

stages (Figur

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How will the dimate change in East Scotland?

UK Climate Projections 2009 data for East Scotland suggests that, under a medium emissions scenario, by the 2050s the region may see:

- · An increase in summer mean temperatures of around 2.3°C, and of winter temperatures of around 1.7°C:
- · A 10% increase in winter mean precipitation and a 13% decrease in summer mean precipitation.



ASSESSING AND ADAPTING TO THE IMPACT OF PAST WEATHER EVENTS IN THE HORTICULTURE SECTOR

Case study: Royal Botanic Garden Edinburgh

Horticulture and visitor services staff at the Royal Botanic Garden Edinburgh (RBGE Regional Gardens are already adapting to climate uncertainty – dealing with flood: periods of low rainfall, unseasonable temperatures and high winds. This case studi the process used to investigate the impact of weather events across the different g how this can be used to best deal with projected climate change.

The process Scotland's changing dimate We are already seeing evidence of 1. Getting people on board The first action was to meet with the garden curators to explain the aim of the project, how it would be of value, and the output that would bo produced.

2. Gathering Information Next, visits to each garden were arranged to interview key personnel and gather information on:

· observed impacts of current weather conditions and extreme weather experienced, and any adaptive actions taken as a result:

The Gardens The Royal Botanic Garden Edinburgh was established in 1670 During the 20th century it acquired three Regional

Gardans. The four gardens experience quite different weather conditions; Inverteith in Edinburgh is the driest, Dawyck the coldest, Banmore the workest and Logan the mildest. Together they represent one of the workd's largest living collections of plants. Across the different Gardens, most kinds of extreme weather

Scotland

RBGE has presented this information as part of the Adaptation Learning Exchange (ALE) The ALE was set up by Adaptation Scotland to support the public sector plan for the impacts of a cha

have been experienced.



· risks related to w

· potential opport.

· records of garder

weather data

At each garden, the

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3. Site visit

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visitors and staff

identified:

dimate change th

ASSESSING CURRENT AND FUTURE CLIMATE THREATS AND OPPORTUNITIES

Case study: University of St Andrews

Situated on the east coast of Scotland, the University of St Andrews is tasked with the challenge of both the maintenance of historic buildings and improving the resilience of its historic and modern buildings to the impacts of a changing climate. This case study explains how the University has undertaken a climate impact assessment workshop with staff and senior managers from the Estates department.

Where does this fit in the adaptation process?

The adaptation process consists of 5 stages to help you get started with adaptation, understand and assess the impacts of current and future climate change, identify your significant climate risks and prioritise your adaptation options. It will also help you to implement your adaptation actions, evaluate them, and continuously monitor and review your work. This case study sits within stage 2 of the process. The University of St Andrews are assessing the impacts of climate change in the Estates department and intend to use this process with other departments across the University.

3 Vew the adaptation bolt secon bran wind steps to menaging your climate risks www.ade tland oro.uk

Adaptation Scotland

What is a climate impact assessment?

A climate impact assessment is a process that allows an organisation to assess their current and future climate threats and opportunities for their critical functions, and to respond by identifying strengths and weaknesses to managing the threats. The exercise is based on a SWOT analysis.

What are the benefits?

Working through a climate impact assessment raises awareness of the impacts of severe weather events facing each department, or service of an organisation. By involving Service Managers, you will be able to use their operational knowledge to inform the

process and increase their understanding of the climate threats and opportunities The approach allows others within the organisation to identify and implement actions that increase climate resilience. which encourages climate resilience to be embedded across the organisation and reduces the time pressures on one member of staff.

University of

St Andrews

The process

A climate impact assessment workshop was run with the Estates department at the University of St Andrews. The exercise involved working through the following questions: 1. What are the current climate-

related threats to the department? 2. What are the future climaterelated threats to the department?



The University of St Andrews is taking action on climate change as part of the Adaptation Learning Exchange (ALE). The ALE was set up by Adaptation Scotland to help organisations plan for the impacts of a changing climate.





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and we have been impacted by extreme weather events. These changes are projected to continue in the decades ahead The UK Climate Projections 2009 data suggests that, for Scotland: the average climate will become

seasonal with - a typical summer becoming drier, and - a typical autumn and winter becoming wetter; and see lovek will tise

We can also expect to see: increase in summer heat waves. extreme temperatures and drought: increased frequency and intensity of extreme precipitation events; and reduced occurrence of frost and snowfall loarer uktimaleprojectors metoffics govuk

Adaptation

Scotland's climate changing. Over the last few decades our climate has warmed, sea-levels have risen, rainfall patterns have changed warmer throughout the year: rainfall is likely to become more

3 Assess climate risks and identify actions

- Prioritise the threats and opportunities you have identified in the previous step through a risk assessment process.
- Identify and prioritise the actions to respond to.

OUTPUTS: Climate Change Risk Assessment and Action plan





	Weather or climate impacts		<u> </u>	2013 eren				<u> </u>	2013 idua	<u> </u>		2020 eren				2020 idua	
Climate hazard	Threat or opportunity	Consequences	Likelihood	Consequence	Risk rating	Critical thresholds	Controls	Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating		Likelihood	Consequence	Risk rating
Heavy rainfall	Flooding blocks key roads and prohibits access to hospital	Emergencies diverted to another hospital; medical supplies delayed; loss of life; reputational impact	2	4	8	Major road closures must be limited to 2 hours	Road management contingency planning; emergency planning	2	3	6	3	4	12	San	3	3	9
High temperature	Buildings overheat causing discomfort and reduced productivity	Health and safety impacts; Reputational impacts	1	3	3	Internal temperature must not exceed 28°C	Risk not currently considered	1	3	3	2	3	6	Same controls as	2	3	6
High temperature	Buildings overheat causing problems in server rooms	Disrupted services, Loss of critical data	1	3	3	Server room temperature must not exceed 27°C and relative humidity level must not exceed 60%	Risk not currently considered	1	3	3	2	3	6	s 2013	2	3	6
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likelihood of an event



consequences of an event Risk liffer

Adapt Scotlan 27 supporting climate change r



SCREENING FOR NATURAL HAZARDS TO INFORM A CLIMATE CHANGE RISK ASSESSMENT



Case Study: Historic Environment Scotland

This case study explains how Historic Environment Scotland developed a GIS-based approach to screen their properties for climate-related natural hazards such as flooding, coastal erosion and ground instability. The project has been an important component of ongoing work to assess climate change risk across the Estate.

Where does this fit in the adaptation process?

The adaptation process consists of 5 stages to help you get started with adaptation, understand and assess the impacts of current and future climate change, identify your significant dimate risks, and prioritise your adaptation options. It will also help you to implement. your adaptation actions, evaluate them, and continuously monitor and review your work. This case study sits within stage 3 of the process. HES are identifying their significant. climate risks to inform, identify and prioritise their adaptation actions.



website and access tools such as the five steps to meneging your climate raks. www.adaptationscotland.org.uk

> Adaptation Scotland

Who was involved? Historic Environment Scotland (HES)

have worked in close partnership with the British Geological Survey (BGS) and the Scottish Environment Protection Agency (SEPA) to conduct a Climate Change Risk Assessment for the 335 Properties in Care (PICs) on the Estate. This will improve decision-making for prioritising the on-going conservation and maintenance programmes, thus ensuring the long term survival of these monuments and buildings.

Why focus on natural hazards?

Many of the properties HES care for are situated in landscapes that are vulnerable to climate-related natural hazards. Although a number of the properties are well adapted to everyday weather events, changes in the climate are pushing the properties. into unchartered territory, with many

now facing challenges they were never designed to deal with. This is why this research is so crucially important.

By screening for current natural hazards we have been able to generate a set of climate-related risks across our entire Estate of 335 properties. Although these do not explicitly include climate change risk, it does inform us about sites that are likely to be most at threat from climate change - and enable better use of resources which can be targeted to particular priority sites.

We decided that this screening approach was sufficient for our needs

in our current risk assessment process. and it was more beneficial to focus further effort on the investigation of specific properties. At the propertylevel we will be able to include a wider range of climate impacts, more detailed information about the property, and the knowledge and expertise of those involved with site management.



Historic Environment Scotland has presented this information as part of the Adaptation Learning Exchange (ALE). The ALE was set up by Adaptation Scotland to help organisations plan for the impacts of a changing climate.

ASSESSING CLIMATE CHANGE **RISKS AND OPPORTUNITIES**

Case study: Scottish Water and Mott MacDonald

This case study explores how Scottish Water undertook an update of Its strategic Climate Change Risk Assessment (CCRA) for assets, to refine the understanding of future climate-related risks and to identify knowledge gaps for further research.

Why revisit the risk

assessment?

Where does this fit in the adaptation process?

The adaptation process consists of Scottish Water conducted a CCRA in identifying their significant climate

star and access took such as the five steps to meteging your climate risks www.adeptationscotland.org.uk Adaptation





м M MOTT MACDONALD

This was particularly important because the most substantial component of the work involved engaging with key staff across Scottish Water

Scottish Water have a large and diverse asset base subject to a wide range of climate-related risks. This strategic CCRA focused on risks to asset type, rather than to individual assets. The approach chosen was largely qualitative, synthesising key industry guidance and stakeholder knowledge to arrive at a best estimate of risk. Adaptation Scotland's 'Five steps to managing your climate risks' risk assessment template was used to inform the methodology, in addition to the UK Water Industry's research guidance.



Scottish Weter has presented this information as part of the Adaptation Learning Exchange (ALE). The ALE was set up by Adaptation Scotland to help organisations plan for the impacts of a changing dimate.



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5 stages to help you get started 2011-2012. An update was necessary with adaptation, understand and to incorporate new climate impact assess the impacts of current and research and resources developed by future climate change, identify the water industry. It also provided your significant climate risks and an opportunity to include an updated prioritise your adaptation options. asset base in the assessment. It will also help you to implement your adaptation actions, evaluate them, and continuously monitor and review your work. This case study sits within stage 3 of the process. Scottish Water are

risks to inform, identify and prioritise their adaptation actions.





DEVELOPING A CITY WIDE ADAPTATION VISION AND **ACTION PLAN**



THE EDINBURGH PARTNERSHIP

1. Developing a shared vision

Creating a shared action plan and

vision for Edinburgh that was truly

out to key organisations, finding

out what risks and opportunities

mattered most to them, and

helping them work together to

design shared actions to address

the challenges identified. The Task

Group invited organisations across

the city to submit potential actions

and co-designed a programme of

owned by the city required reaching

Case study: Edinburgh Adapts

Adaptation is a challenge where we really are all in it together. The Edinburgh Adapts project has created a city wide adaptation vision and action plan that is inclusive, innovative and responsive to local priorities. The project focused on identifying actions that organisations can't implement on their own and that need a joined up response from two or more partners.

Who was involved?

The process

Where does this fit in the adaptation process?

The adaptation process consists of 5 stages to help you get started with adaptation, understand and assess the impacts of current and future climate change, identify your significant climate risks, and prioritise your adaptation options. It will also help you to implement your adaptation actions, evaluate them, and continuously monitor and review your work. This case study sits within stage 4 of the process with the Edinburgh Adapts partners developing a set of ambitious adaptation actions.

View the adaptation pro website and access tooh such as the five steps to managing your climate risks, www.adeptationocotland.org.uk Adaptation Scotland

The Edinburgh Adapts project began in March 2015 as a joint initiative between the Edinburgh Sustainable Development Partnership (ESDP) and Adaptation Scotland. This focus on partnership working was built into the project from the start. The ESDP formed a dedicated Task Group that included representatives from the City of Edinburgh Council, Adaptation Scotland, Edinburgh World Heritage, Transition Edinburgh South, Edible Edinburgh, Historic Environment Scotland and the Edinburgh Centre for Carbon Innovation. The group brought valuable knowledge and expertise and

helped design the engagement process. muners Hathlesial Gra Food Food Drainage Heritage & Toleare speaith Transport A EARTHA or Austines e Halmbat & species fr the Ended adaptation Top Pale of working Tugether Grate Tymies & Inforder-min - what works heat Find preduction

The City of Edinburgh Council has presented this information as part of Adaptation Scotland's partnership projects The partnership projects break down traditional institutional barriers, and get the key players in the room so they can cruate adaptation action plans that are industed, innovative and responsive to local priorities.







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4 Report and implement

• Implement, and collate and report your adaptation arrangements internally and externally.

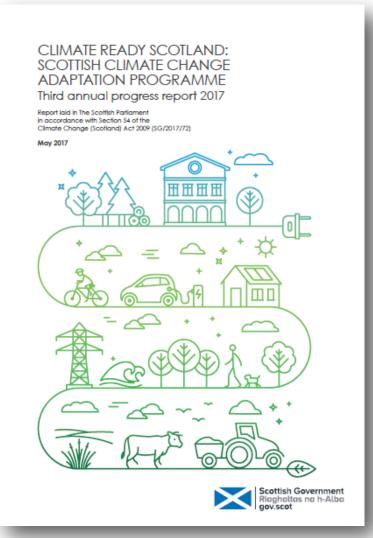
5 Monitor and review

• Establish a process for monitoring and reviewing your adaptation arrangements.









- Adapting Edinburgh's world heritage site
- Surface water management projects
- Adapting the Forth Road Bridge
- Climate Ready Clyde





Are there any questions?







How does this align with the Public Bodies Duties Climate Change Reports?

4 Adaptation

Assessing and managing risk

4a Has the organisation assessed current and future climate-related risks? If yes, provide a reference or link to any such risk assessment(s).

4b What arrangements does the organisation have in place to manage climate-related risks? Provide details of any climate change adaptation risk management procedures, strategies, action plans and any adaptation policies and actions included across policy areas.

Taking action

4c What action has the organisation taken to adapt to climate change? Include details of work to increase awareness of the need to adapt to climate change and build the capacity of staff and stakeholders to assess risk and implement action.

Section 2: Governance, Management and Strategy

- 2a How is climate change governed in the body?
- 2b How is climate change action managed and embedded in the body?
- 2c Does the body have specific climate change mitigation and adaptation objectives in its corporate plan or similar document?





Public Bodies Reports

Past w	eather imp		Affected and comr						
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Th	he Scottish overnment	Adaptation	Scotland is a pro	gramme funded by th	he Scottish Gove	rnment and deliv	vered by Sniffer	Scot supporting climate	

Public Bodies Reports

Assessing future climate change risk

	Weather or climate impacts		2013					2013			2	2020s			2	2020s	
			Inherent		t			Residual			Inherent				Residual		1
	×		risk					risk			risk			risk			
Climate hazard	Threat or opportunity	Consequences	Likelihood	Consequence	Risk rating	Critical thresholds	Controls	Likelihood	Consequence	Risk rating	Likelihood	Consequence	Risk rating		Likelihood	Consequence	Risk rating
Heavy rainfall	Flooding blocks key roads and prohibits access to hospital	Emergencies diverted to another hospital; medical supplies delayed; loss of life; reputational impact	2	4	8	Major road closures must be limited to 2 hours	Road management contingency planning; emergency planning	2	3	6	3	4	12	Same	3	3	9
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Section 4: Adaptation

- 4b. What arrangements does the body have in place to manage climate-related risks?
- 4c. What action has the body taken to adapt to climate change?





Public Bodies Reports

Objective N1 - Understand the effects resulting from climate change and their impacts on the natural environment

No.	Policy and description	How will this help deliver the Objective?	Who will deliver?
N1-2	Increase understanding of the implications of climate change for nature through data gathering, analysis and research.	Continuing research and data gathering is needed to detect, quantify and understand the impacts of climate change on nature to inform adaptation policy and management.	Scottish Government, ClimateXChange, BICCO-Net, Universities, Scottish Natural Heritage, Forestry Commission Scotland, Scottish Environment Protection Agency.





Section 4: Adaptation

- 4e. What arrangements does the body have in place to review current and future climate risks?
- 4f. What arrangements does the body have in place to monitor and evaluate the impact of the adaptation actions?









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www.adaptationscotland.org.uk



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