

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

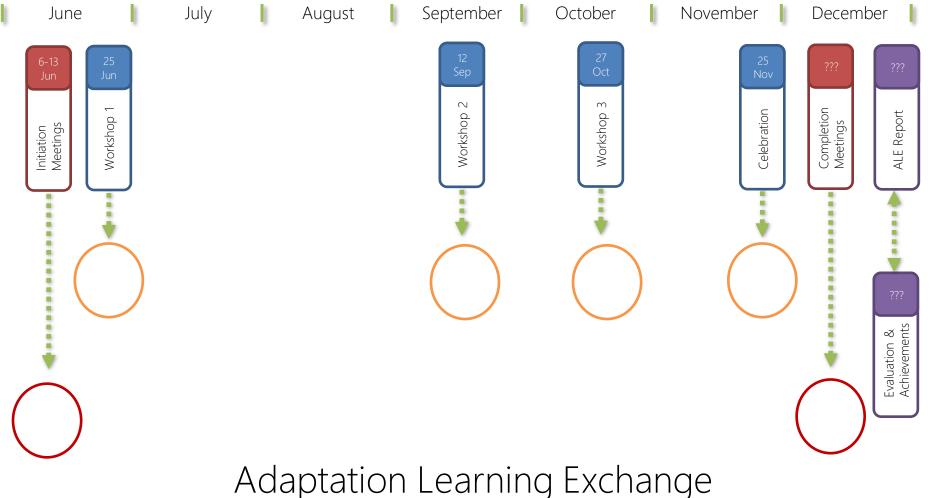
Aims: Adaptation Learning Exchange

- Progress adaptation planning individually and collectively
- Co-create solutions
- Share lessons across the public sector
- Develop and recognise leadership
- Build a peer network that lasts beyond ALE



This course has received the approval of The Chartered Institution of Water and Environmental Management (CIWEM)









Synthesis

Adaptation Learning Exch

Adaptation Learning Exchange - Risk Assessment Task Group

Example 'Bottom-Up Risk Assessment of a Natural Hazard - FOR DISCHASSION

An Adaptation Sco

Tools

Customise this page

Add Announcement



1. Introduction

By applying the draft ALE risk assessment spread sheet template to a recent natural hazard we can explore how best to align definitions and terminol methodology for of documenting and assessing an example risk(s) that arise from

The aim of this paper is to prompt discussion and attempt to develop a c approach that can be used by any public body or organisation that delivers p may be adversely affected by this type of hazard including: Local Authority Scotland: Scottish Water: Police Scotland: Scottish Fire & Rescue Service: NHS He

A 'bottom-up' assessment of risk and resilience focu concerns); looks at each hazard in turn and explores pa could propagate through an asset, system, business pro 'Bottom-up' allows detailed inputs to be applied at 'roc (and uncertainty) through a process or system. Mitie approach will be 'local' rather than 'global'

2. Description of the Hazard

14th August 2014 BBC News head lines: "Parts of Scotland affe

The Scottish Environment Protection Agency (Sepa) has almost 40 flood warnin Aberdeenshire, Speyside, Moray, Caithness and Sutherland, and Tayside.

Moray Council said it was evacuating about 200 homes at risk of flooding in Ele

And ScotRail said train travel was being severely impacted by flooding.



Maintaining and adapting Scotland's trunk roads

ace, climate

or carbon

important. We

Graham Edmond is Head of Network Maintenance for Transport Scotland and is leading efforts to ensure that Scotland's trunk roads are maintained and adapted to the impacts of climate change. He shares his views on the challenge of adapting to climate change.

I am responsible for the maintenance of Scotland's 3,600 km strategic trunk road and motorway network. Long term thinking is necessary as good maintenance is all about maximising the life

> and protecting the considerable investment we are making in ell maintained road can be a wonderful way to view our b is not without its challenges.



CLIMATE OUTREACH & INFORMATION NETWORK

qually balanced by those for adaptation. Transport Scotland

leads the transport sectors adaptation work for the Scottish Government and as well as my maintenance role I am also managing this adaptation work for the Agency. Road transport in particular is critical to the



Scottish Resilience Developme

functioning of the economy, even more so in parts of Scotland where isolated rural communities face lengthy and costly diversions when road links are cut by flooding, landslides or fallen trees. Predictions suggest a stormier and wetter climate in the future and the A83 at the Rest and be Thankful in Argyll, which has been the focus of Transport Scotland's efforts in the last few years, has certainly provided regular reminders of this! Continue reading --

Agenda

10:05 - 10:35	3-minute progress updates
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Workshop 2: Aims

- Motivate and inspire
- Encourage further collaboration
 - who has the same goals as you?
 - who has already done what you are trying to do?
- Identify further support needs and next steps





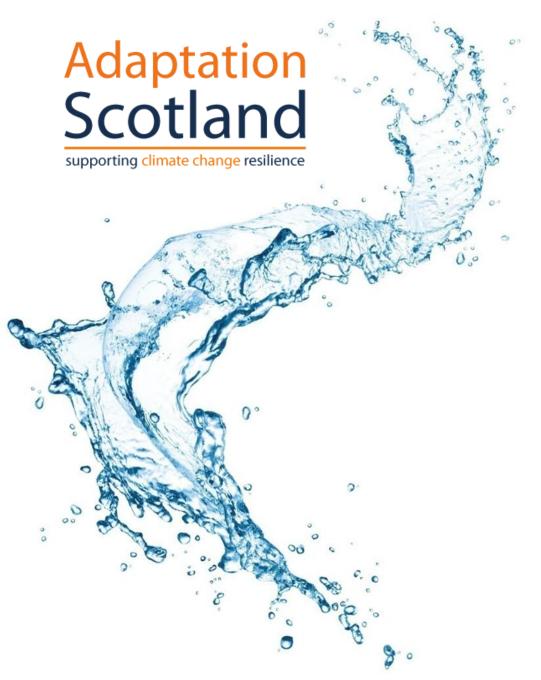
Ground rules

Be honest, open and willing to contribute

- Share your experiences, knowledge and ideas
- Chatham House Rule
- Respect the views of others
- Make the most of the opportunity to work together and learn from each other
- Give constructive feedback
- Draft workshop reports will be circulated for comment before publication



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Dovecot Studios, Edinburgh
12th September 2014

Progress updates

Visit the online collaboration group & collaborate on something (e.g. all employee event ideas)

- > Registered, browsed, posted a comment
- Collaboration to come (all employee event ideas too late for our internal process)

Find out about Regional Resilience Partnerships (SW rep)

> SW reps from our Emergency Planning team on all 3 and at all 3 levels

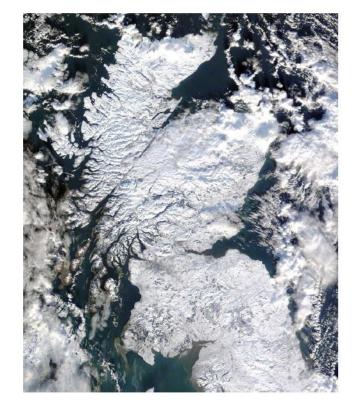
Polish the SW adaptation plan

- Due to publication dates, recent focus has been on Sustainability Report; current focus on CMP
- Adaptation Plan is next on the list!



Ayrshire Resilience Pilot Update

- Consultant appointed
- ➤ Agreement to tailor UKWIR RG06
- ➤ Launch workshop to raise awareness and gain business wide support
- Existing risk assessments being collated
- ALE Risk Assessment Task Group briefed on RG06
- Discussion paper drafted on 'bottom-up' risk assessment techniques

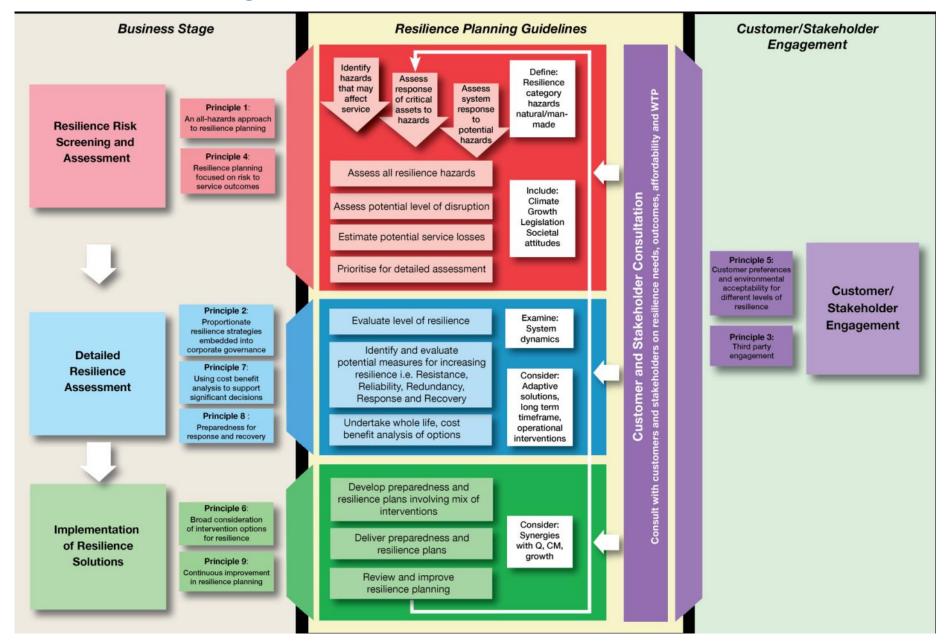








RG06 Strategic Approach for Resilience





Graham Edmond BSc CEng MICE

Head of Network Maintenance, Transport Scotland

"Discuss embedding climate change adaptation in professional training and CPD for Institute of Civil Engineering"

"TO TACKLE CLIMATE CHANGE CIVIL ENGINEERS NEED TO BE ENGAGED"



Conclusions ...

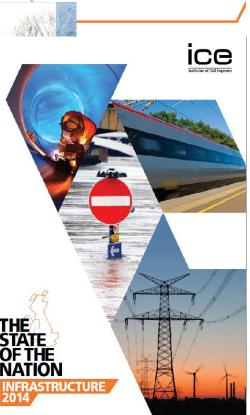
- Confusing structure!
- Some good work by ICE and professions including adaptation
- Concentration on mitigation ?
- More work still to be done
- Not yet in CPD or Training Objectives

This extra investment is required just to maintain the UK's competitiveness under current conditions; however, both population growth and a changing climate will put increased pressure on our infrastructure networks. Figure 2 shows the estimated population growth trend to 2037 with increases across the UK.

Since 1990, the UK has experienced eight of the ten warmest years on record and five of the ten wettest years - 2000 and 2012 were the wettest on record. Defra's Climate Change Risk Assessment suggest that by the 2050s, summer river flows may reduce by 35% in the driest parts of England and by 15% for the wetter river basin regions in Scotland.11 This will impact on the water available for a range of activities,

Engineering







OBJECTIVES FOR 2018

- Capital and maintenance investment in flood management should increase to meet the pressures of climate change and property development
- Flood assets that protect other infrastructure networks are being made resilient to severe weather events







Climate Change

The science is clear: Climate Change is a reality. Engineers must now be in engaged in responding to the challenges and threats which Gimate Change poses to our built environment.

Background

Climate change is a local and global challenge

It is time for Government to fully engage with the engineering profession at miligating the consequences and adapting to the challenges of climate change.

Issues of climate change are inextricably interinked to wider global concerns, notably the commitment to the United Nations' Millenrium Development Goals and poverty reduction. Climate change poses a bigger threat to the world's poor than it does to people living in the developed countries. It will further reduce access to crinking water, negatively affect the health of the economically disadvartaged, and will pose a real threat to food security in many countries in Africa. Asia, and

Conversely, developing nations which have begun to emerge from limited economic growth will, on current development patterns, increase global greenhouse gas emissions and place greater demands on diministring energy resources. On a global scale, these are shared crises needing shared solutions.

Including engineering expertise and providing understanding of current technological capabilities will be vital to solving the challenges presented by climate change. Engineers will be able to provide solutions on the scale necessary and within current

However, there is no single, simple technological fix. Demand side issues (behaviour change) are as vital as supply side issues (changes in fuel and technology). There will be a need for inter-quernmental action and the empowering of engineers to solve potential problems within a framework which Is Internationally agreed.

TO TACKLE CLIMATE CHANGE CIVIL ENGINEERS NEED TO BE ENGAGED"

Key Statistics:

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To find Public A

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ice.org.u

¹ The Stern Re

- The government has set a target of a 60% reduction in CO2 emissions by 2050 from 1990
- Progress towards at least six of the eight United Nations Millennium Development Goals will be directly affected by Climate Change. Engineering can minimise the negative impact climate change will have on achieving these goals.
- Melting glaciers will initially increase flood

ice | scotland

Wi ma riv Edinburgh Area Branch





Adapting our Infrastructure to Cope with Climate

Dr Joseph Hagg and Karen Miller, Sniffer and Adaptation Scotland*

Graham Edmond, Head of Network Maintenance, Transport Scotland

Miranda Jacques-Turner, Technical Lead: Sustainability & Climate Change, Scottish Water Thursday 2 October 2014 at 6.45pm (Refreshments from 6pm.)

The presentation will be in three parts:

- . the science and policy context for climate change adaptation;
- adapting Scotland's transport systems to a changing climate; and

*Adaptation Scotland is a programme funded by the Scottish Government and delivered by Sniffer.

This is a Joint Meeting with the Chartered Institution of Water and Environmental Management

Please use the 'Online Booking System' to quarantee your place and assist with catering

From 6.30pm to 6.45pm, the Branch will be holding a short AGM to which all ICE members

This will be an opportunity to discuss the work of the Branch in 2013-14, hear of its aims for 2014-

For further information contact Andrew Carrie Hon Secretory ICE EAR:

t: 0779 8646 844 e: ac@acamie.net

CPD: This event may be considered for contributing to a recognised Continuing Professional Development (CPD) scheme as part of personal development. Delegates should

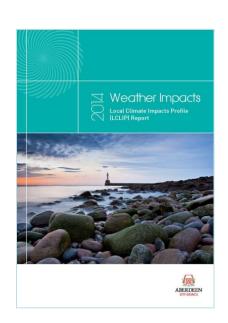
Royal Society of Edinburgh 22-26 George Street Edinburgh, EH2 2PQ.



Update since last workshop



- Weather Impact Profile
- Climate Risk Impacts aligned with new corporate structure
- Climate change duties included as a high level risk in Strategic Risk Register.
- Adaptation Communications Plan
 - Stakeholder development
 - Meeting Communications team
- Mayors Adapt info to legal team



Action update



- Meeting to discuss risk approach
- Meeting to ensure plan development aligns with other docs
- Identify clear ownership for climate change strategic risk.

Next steps



- Workshop development & progress with risk assessment
- ECMT briefing
- Survey out to NESCCP and stakeholders on climate change
- Newsletters for the NESCCP & aim to hold a stakeholder event.





Adapting to Climate Change - Facilitated discussion with Land Services plus others.

- The Problem Brief overview of evidence of changing climate and projections for the future
- The Risks Potential impacts on assets, service delivery and the wider community
- Some Solutions Practical examples of Climate Adaptation actions from across the UK and northwest Europe



Covenant of Mayors' EU Mayors Adapt initiative

- Provost signed Declaration of Intent.
- Present the Covenant of Mayors' Initiative on Adaptation to climate change, and associated Political Commitment, to the 18 September Council meeting.



Draft Adaptation Strategy

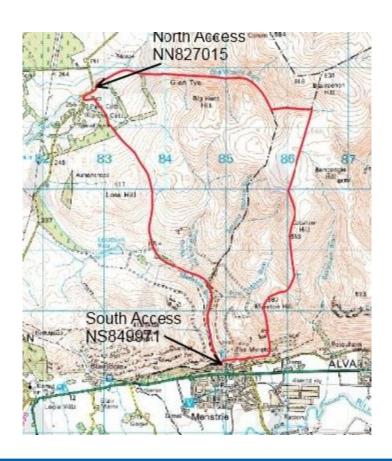
- Present to Council on 18 September.
- Action Plan adopted with actions, target dates and responsible officers identified.
- Implementation of actions managed via strategic risk management.

Engage with a hard-to-reach group or individual - Andy

- Addressed Community Planning (Wellbeing) Partnership Team
- 5 minute talking slot turned into 25 minute discussion
- Fire & Rescue, NHS and Corporate Strategy agreed to reconvene to identify impacts/low regret actions
- In addition have secured mandate to re-issue LCLIP request to Climate Change Implementation Group
- Agreement with Comms to discuss key messages after today's event



Address climate change issues associated with Jerah forestry proposal - Gordon



- Site Area: 1000ha Proposed Planting: 620ha
- Issues included Landscape, Access, Transport, Biodiversity, Archaeology, Water, Flood Risk
- Most significant issue for Council Flood Risk -Menstrie immediately downstream two significant flood events in recent past - damage to housing etc - last event required Care Home to be evacuated .
- Council objected to proposals on flood risk grounds

 not adequately addressed in EIA woodland
 occupying significant area of Menstrie Burn
 Catchment
- Meetings /discussions/site visits between Council staff (Roads/Sustainability), SEPA, Forestry Commission and forestry agents to address issue
- Planting proposals modified with increased stand offs from Burns, specific ploughing and planting regimes, broadleaf edges to commercial blocks
- Proposals should hold back surface water runoff + potentially lower flood risk in Menstrie Also offer wider biodiversity and access opportunities
- Awaiting new conditions before withdrawing objection
- Co benefits include biodiversity, access/recreation



Joseph Rowntree Foundation: Local climate resilient futures

- Identifying issues of concern in the localities in question
- Facilitation of dialogue and engagement between relevant stakeholders
- Supporting development and delivery of strategic responses
- Possible link with Community Wellbeing Partnership work
- Early days: expression of interest via ECCI



ALE Workshop 2 Progress update

Ann Johnstone Sustainable Development Team

One (two) action:-

"Develop a climate change (sustainability?) communication strategy working with key people."

Prepared a draft communications strategy for climate change adaptation combined with the ongoing behaviour change for carbon management.

Strategy Development plan (practically everything we need to do is either communicate or prepare information tools for other people)

So why have two separate plans?

"Post Dumfries and Galloway Community Risk Register link on to Glasscubes."

Done. Prompted revision of former D&G SCG "Hazard Risk Assessment" process which includes "Consequence Scales" for Social, Health, Economic, Environmental and Communication and Co-ordination impacts which may be useful for monitoring





Current climate – set up incident log and gathering images

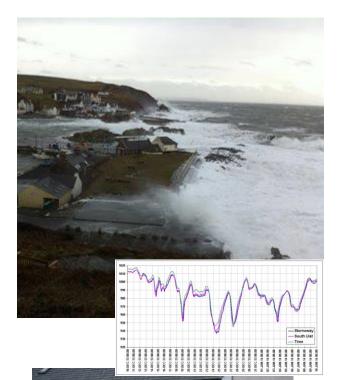
Understand trends and headline messages – research on local data

Engage with right people – drafted communications strategy which has become rolling overall development plan for strategy

Met with or arranged – Resilience Team (D&G MES), FRMT, Town Centre Regen Officer, one Service Business Manager, Risk Manager

Leadership – Report to committees on Flood Risk Management Act 2009 – Implementation Update

- Paper prepared for meeting on 17.9.14 Senior Management Team







Plan up to December 2014

17/09/2014	Brief on Climate Change Adaptation Strategy Development and the "Five Steps" (p10-12) to Senior Mangement Team
23/09/2014	Circulate 'Incident Log' (p12) for comment and to further populate
24/09/2014	Internal meeting with Risk Manager
30/09/2014	Research and produce a summary document of recent climate trends and UKCP09 projected impacts for D&G and headline messages (p16)
01/10/2014	POSSIBLY:- Critical functions-climate risk Screening questionnaire (p17)
27/10/2014	Presentation on Climate Change Adaptation at 'Winter Workshop' of D&G Major Emergency Scheme partnership
Nov-14	Workshop for (selected?) council managers - Climate Change Risk Management (CCRM) (p18-21)
Nov-14	Explore how to Embed Adaptation in business planning cycle
Nov-14	Explore how to Embed Adaptation in Impact Assessment process and SEA
Nov-14	Baseline Climate Change and Energy Staff Survey

New Connections

Biosphere Joseph Rowntree Foundation Crichton Institute

Potential:new National Resilience Centre



Re-cap and Progress

What we were going to do...

Make a list of key
 people within WLC that
 will be involved in our
 risk workshop ('One
 Action').

What we did...

- Meet with David Urquhart (Fire service) to discuss flood risk update and community partner involvement.
- Meeting with flood risk manager, and emergency planning officer.









Work towards the LCLIP

• Further research into the media trawl (Arranging meetings with archives and local historian).

· Creation of questionnaire for LCLIP.

Preparing LCLIP report.









Next Steps...

- Set up our survey/questionnaire through Survey Monkey_{TM}.
- Analyse results to determine the priority risks and make the data comprehensible.
- Set a date for our risk workshop and determine attendees.





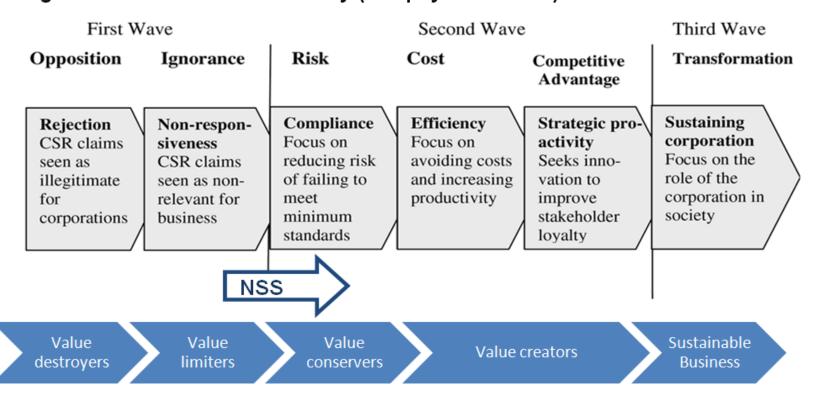




NHS National Services Scotland progress on climate adaptation



Figure 1: Waves of Sustainability (Dunphy et al. 2007)



Pilot group – SNBTS supply chain





Supply chain

- Donor Services responsible for recruitment and care of donors
- Manufacturing responsible for turning blood donations into blood components ready for transfusion
- Logistics responsible for the management of blood component stocks, delivery of blood donations, components and tissues

NSS Sustainability Strategy 2015-2020



Vision

Supporting the delivery of a sustainable world-class health and social care system.

National Services Scotland

Goals1

- 1. A healthier environment
- Boards, communities and services are ready and resilient for changing times and climates
- Every opportunity contributes to healthy lives, healthy communities and healthy environments

Actions in 2019/20

- Meet or exceed the target of a 42% reduction CO2e emissions by 2020.
- Good Corporate Citizenship score 85% met or exceeded.
- Leading organisation in transparency and valuing natural capital

Actions in 2018/19

- Staff engaged and leading organisation in resilience and adaptation.
- Evidence of enhancing communities through stakeholder engagement and improving health outcomes and reducing health inequalities.
- Scope 3 CO2e emissions from procurement quantified and published.

Actions in 2017/18

- Materiality (environmental impact) assessment completed and established across NSS.
- 2020 Vision launched for a Sustainable world class health and social care system.
- Key procurement decisions based on whole life costing, value for money analysis and factoring in cost of waste disposal.

Actions in 2016/17:

- · Climate Adaptation action plan in-depth review.
- Materiality (environmental impact) assessment to prioritise key products & services
- Staff engagement plan focusing on innovation, flexibility and transparency.

Actions in remainder 2014/15 & 2015/16:

- Climate risk adaptation assessment completed for implementation in 2015/16 Strategic Planning Guidance
- Develop methodology for defining materiality (Environmental Impact).
- Establish pilot for measuring materiality (Environmental Impact) of SNBTS Supply Chain.
- Staff engagement and awareness road shows continue across estate.



Task Group Meeting: 26th August 2014

Amber (East Lothian)
Caitlin & John (West Lothian)
Angela & David (Stirling)
Douglas (Scottish Water)
Louise (Borders)
Joseph & Karen (Sniffer)





What we did...

- 1. Sharing our ambitions group update
- 2. Scottish Water All Asset Resilience Risk Assessment
- 3. Look at the Adaptation Scotland Risk Approach
- 4. Agree practical approaches / next steps





What we did...

- 1. Sharing our ambitions group update
- 2. Scottish Water All Asset Resilience Risk Assessment
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Framework for managing climate change risk

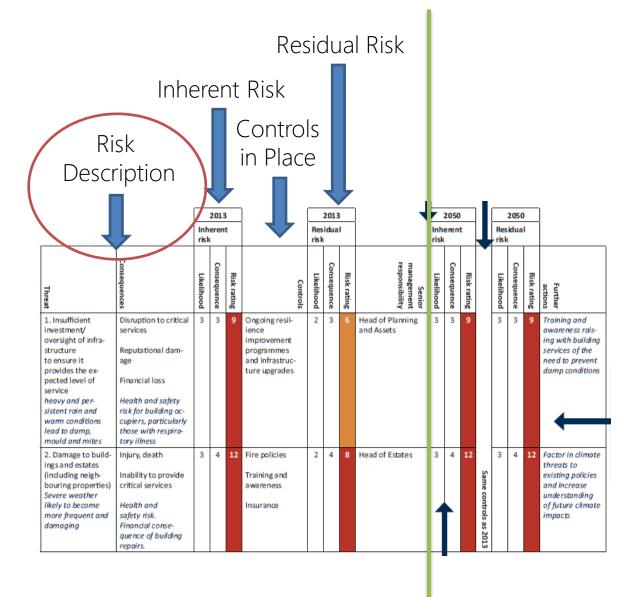




Framework for managing climate change risk









Identifying Risk

11. In order to manage risk, an organisation needs to know what risks it faces, and to evaluate them. Identifying risks is the first step in building the organisation's risk profile. There is no single right way to record an organisation's risk profile, but maintaining a record is critical to effective risk management. The identification of risk can be separated into two distinct phases. There is:

- initial risk identification (for an organisation which has not previously identified its risks in a structured way, or for a new organisation, or perhaps for a new project or activity within an organisation); and
- ongoing risk identification (which is necessary to identify new risks which did not previously arise, changes in existing risks, or risks which did exist ceasing to be relevant to the organisation).

12. In every case risks should be prioritised in relation to objectives. Care should be taken to avoid confusion between the impacts that may arise and the risks themselves, and to avoid stating risks that do not impact on objectives; equally care should be taken to avoid defining risks as simply the converse of the objectives. A statement of a risk should encompass both the possible cause and the impact to the objective which might arise.

Ownership of Risk

13. Risks should be identified at a level where a specific impact can be identified and a specific action or actions to address the risk can be identified. All risks, once identified, should be assigned to an owner who has responsibility for ensuring that the risk is managed and monitored over time. A risk owner, in line with their accountability for managing the risk, should have sufficient authority to ensure that the risk is effectively managed. The risk owner need not be the person who actually takes the action to address the risk. Risk owners should however ensure that the risk is escalated where necessary to the appropriate level of management.

"In every case risks should be prioritised in relation to objectives"

"A statement of a risk should encompass both the possible cause and the impact to the objective which might arise"





We updated the template:

URRENT CLIMATE F	ISK REGISTER								FUTURE CLIMATE CHAN	IGE RISK REGI	STER				
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	,		od Impact Risk		Likeliho	Impact Rat	sk ing			Likeliho Impact Risk od Rating	Li ka	nliho Impa od	Rating	Actions that could be taken now (2014)	Actions that may need to be taken in the future
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CURRENT CLIMATE RISK REGISTER

				2014		
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We updated the template:

CURRENT CLIMATE RISK REGISTER									FUTURE CLIMATE CHANGE RISK REGISTER									
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1. What do we want to assess?

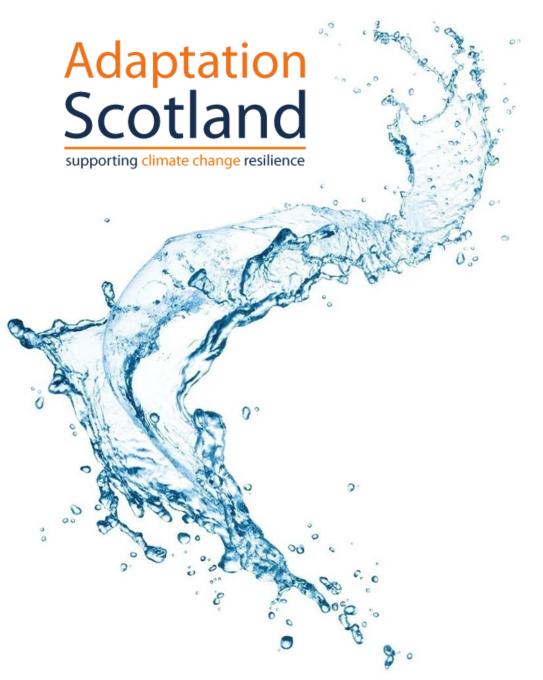
- Creating a climate risk register (risks posed by climate hazards to objectives)
- Assessing whether existing (non-climate) risks are modified by climate

2. Need to identify objectives (understand risk hierarchy)

- Review corporate and service risk registers
- Review business continuity plan (which prioritises services)







Dovecot Studios, Edinburgh

12th September 2014

Final thoughts...



- ALE is CIWEM-accredited: don't forget to record CPD hours
- Workshop 3: 27th October risk, actions
- Celebration event SSN Conference, 25th
 November "Talking Tactics"
- Monitoring and evaluation: please keep a record of milestones, achievements and key learning...and complete your feedback form!





Monitoring and evaluation

supporting dimate d

Achievement and learning record

[Insert organisation here]

To help us monitor and evaluate the Adaptation Learning Exchange, please keep a record of milestones, achievements and key learning. Try to reflect critically on successes and set-backs.

Please add any notable milestones/achievements since the beginning of the Adaptation Learning Exchange (June 2014 onwards).

Description of milestone/achievement	Key stakeholders	Critical reflection – what worked, what	Next steps – what will you do differently (if
		didn't, why?	anything) next time?
e.g. internal meeting with communications team to gain guidance on draft communications strategy	Communications team	Communications team saw the importance of adaptation but didn't see it as a priority for them; too many other competing priorities.	Understand their personal motivations as well as their organisational objectives and identify how adaptation can help meet these.
e.g. 5 minute talk at Community Planning meeting	Community Planning Partners	Unexpected positive response from Community Planning Partnership – 5 minutes became 25 minutes	Be prepared for positive reactions and have a clear idea of what you are asking stakeholders to do





Do one more thing

Please write down one action that you are going to do before the next workshop

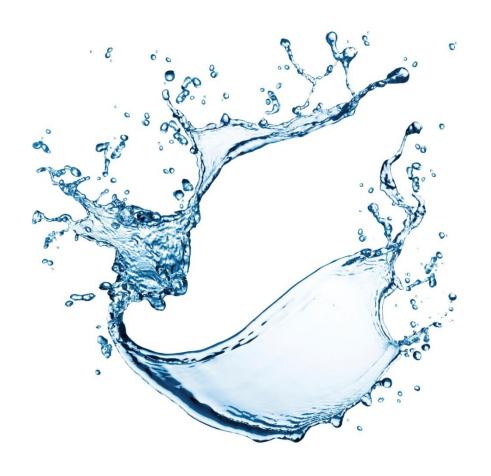






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Adaptation Scotland supporting climate change resilience

www.adaptationscotland.org.uk

- please contact us -



adaptationscotland@sniffer.org.uk



@AdaptationScot