



Increasing community resilience in the face of climate change

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Who we are

- Sniffer - brokering knowledge on resilience
- Adaptation Scotland - helping Scotland prepare for, and be resilient to, the impacts of climate change
- Increasing focus on communities and collaborative approaches

Overview

- Climate impacts, resilience and adaptation
- Examples of our work involving communities and our learning points
- Adaptation Learning Exchange for Community Engagement
- Learning together

Scotland's climate is changing

- Increases in winter rainfall
- Sea level rise
- Increased temperatures across all seasons
- More severe weather events
- Reduced frost and snow

Longer term trends, and shorter term variability

These changes are projected to continue for decades to come.

Far reaching consequences

- Increased flood risk
- Accelerated coastal erosion
- Damage and disruption to buildings and infrastructure
- New pests and diseases

Adaptation and resilience

Resilience: the capacity of individuals, communities, institutions, businesses and systems to survive, **adapt** and **grow** no matter what kind of acute shocks and chronic stresses they experience

Adaptation: The adjustment in economic, social or natural systems in response to actual or expected climatic change, to limit harmful consequences and exploit beneficial opportunities

Working together to adapt

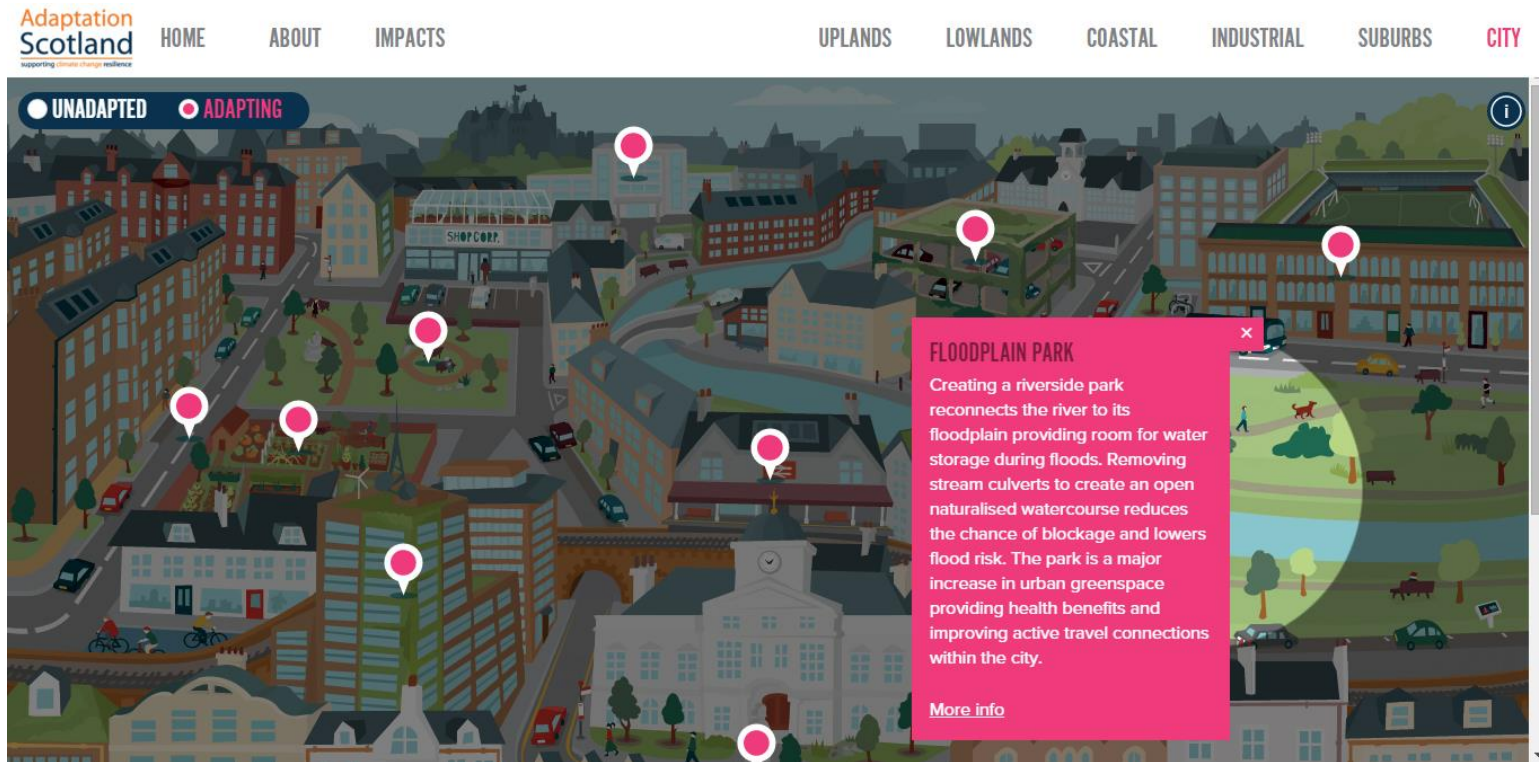
Adapting to climate change is an important part of building resilience. Examples of adaptive responses:

- Introducing green networks in urban areas to manage flood risk
- Managed realignment of rivers and coasts
- Retrofitting buildings

These require a systems approach where we work together

Climate Ready Places

<http://www.sniffer.org.uk/climatereadyplaces>



Adaptation Scotland
Supporting climate change resilience

HOME ABOUT IMPACTS UPLANDS LOWLANDS COASTAL INDUSTRIAL SUBURBS CITY

UNADAPTED ADAPTING

FLOODPLAIN PARK

Creating a riverside park reconnects the river to its floodplain providing room for water storage during floods. Removing stream culverts to create an open naturalised watercourse reduces the chance of blockage and lowers flood risk. The park is a major increase in urban greenspace providing health benefits and improving active travel connections within the city.

[More info](#)

Stages in the adaption process



Our work with communities



Are We Ready? Talking about the Weather

Carse of Gowrie Community Resilience mapping

Climate Ready Lambhill

Weathering Change in North Glasgow

Edinburgh Adapts

Are You Ready? Are We Ready? 'Talking about the weather'

- Participatory approach to encourage local people to talk about the weather. Video and facilitator's guide
- Initial pilot with 9 communities including St Andrews; East Neuk (St Monans, Crail, Anstruther.
- Materials now updated with input from SCCAN.

<http://www.adaptationscotland.org.uk/5/116/0/Are-you-ready.aspx>

<https://vimeo.com/162804871>



Are You Ready? Our learning

- Communities interested in starting a conversation
- Weather is a helpful 'way in'
- Resource light
- Benefit of local 'community resilience champions'
- Need to go beyond engagement and work with others



Carse of Gowrie community mapping



- Engagement on adaptation -> sustainability group
- Flooding and agricultural drainage a key priority
- Citizen science mapping - open street map training
- Members mapped features - conservation, heritage, flooding - 10,000 features in weeks
- Carse Crowdmap emergency responses + meetings with local emergency services,
- Meetings with SEPA. Access to drones.

Carse of Gowrie - our learning

- Importance of tools to enable the community
- Resource intensive over period of months
- Importance of agency involvement - Perth & Kinross council embedded in the process



Climate Ready Lambhill

To enable greenspace scotland and Glasgow City Council to include adaptation in community engagement work.

Co-designed community workshops at Lambhill stables

- what matters to people who live in the area
- how might these assets be impacted by climate change
- what adaptation action can be taken by community, in partnership with others, by others



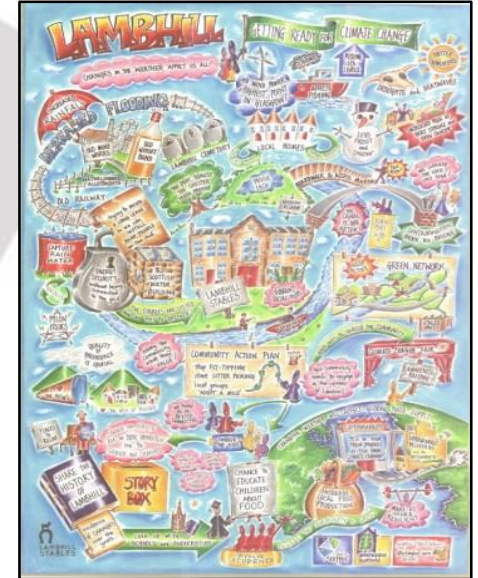
Climate Ready
Lambhill

Climate ready actions identified

- **Community actions**
- Local garden management – ‘hands-on’ training for people to reduce runoff from their homes and gardens,
- **Community and organisations in partnership**
- Work with partners eg SNH and Scottish Wildlife Trust about Possil Marshes and reducing flooding impacts
- Engage with Scottish Water and Glasgow City Council on Sustainable urban drainage systems
- Drain cleaning – a responsibility for agencies and the community
- **Other organisations**
- design new build and maintain existing buildings to be climate ready
- Incentivisation of green roofs and green infrastructure

Climate Ready Lambhill – our learning

- Valuable to help community facing organisations include adaptation in agendas
- Resource efficient
- Requires input of agencies to move from engagement to adaptation action
- Realistic for public agencies to work with interests of more than one community group



Weathering change action research



1. Engaging with communities

What is important across communities in North Glasgow?

How might Climate Change impact these?

3. Collaborating between institutions and communities

2. Engaging with institutions

(Community PP , Scottish Canals)

- what is on the radar?
- organisational drivers, constraints
- opportunities for working with communities

Edinburgh Adapts

- Supporting Edinburgh Sustainable Development Partnership (ESDP) to improve climate resilience
- Using ESDP's [Resilient Edinburgh Climate Change Framework](#),
- Task Group drawn from ESDP members, businesses, communities, and key organisations, to support collaboration to address climate challenges
- Five year adaptation action plan and a long term vision for a climate ready Edinburgh.
- Resource rich approach but over 100 actions identified

Examples of our community engagement



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Edinburgh Adapts

Summary of key learning



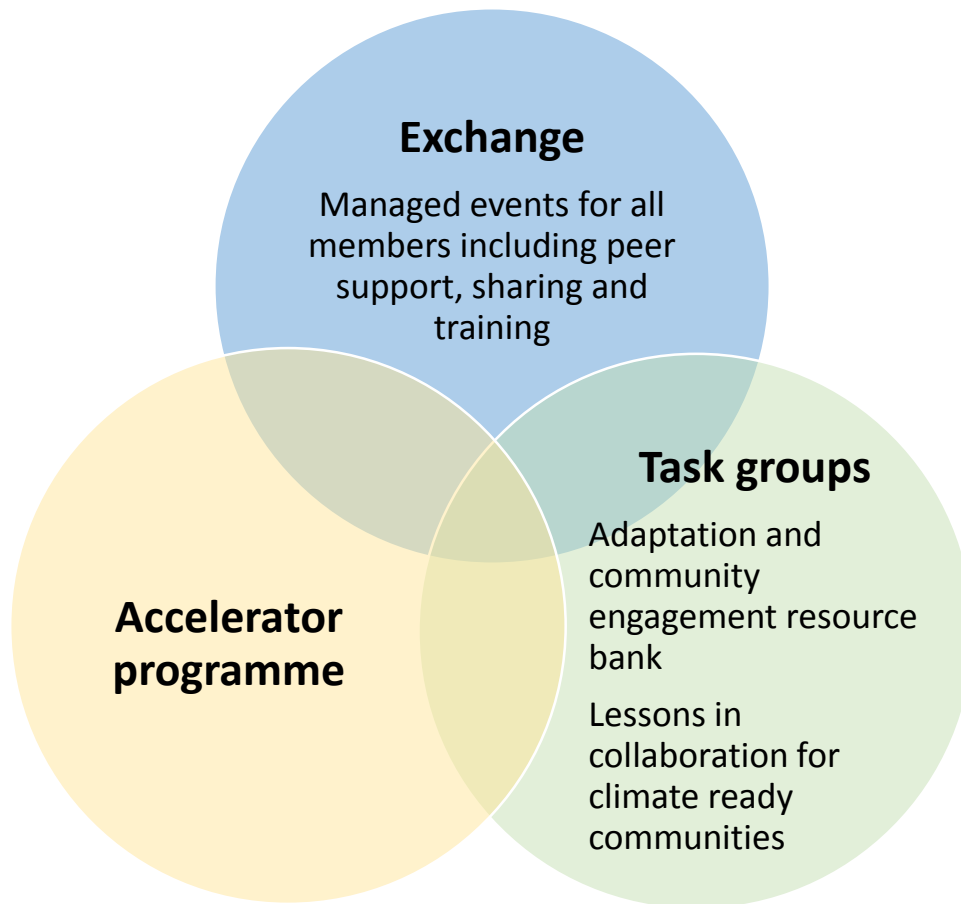
Tools such as 'Are We Ready' and place based approaches work well to engage communities

Support/ training is needed to help communities and organisations consider the impacts of climate change

Vital to bring communities and organisations/ institutions together to address longer term resilience and adaptation when making decisions that affect the places where we live.

- Brokering role,
- importance of scale, language,
- resources

Adaption Learning Exchange for community engagement



To equip those who work with communities to:

- be aware of and understand adaptation and climate resilience; and
- work in partnership with communities on adaptation.

Working together

Adaptation is a systems challenge - 'no individual or organisation can adapt in isolation'

- How can we work together?
- Could a consortium from Fife take part in the Adaptation Learning Exchange?