



## **Clim-ATIC: Climate Change - Adapting to The Impacts, by Communities in Northern Peripheral Regions**

### **Workpackage 4 - Adaptation Demonstration Projects**

---

#### **Project Plan – River Enrick river restoration planning project**

##### **1. Project Description**

**River Enrick river restoration project:** a community taking the initiative to develop a programme of flood risk reduction and adaptation projects for the entire catchment of the River Enrick, and initially focusing on the Kilmichael area and near by eroded locations to carry out at least one small physical river restoration project within the timescale of Clim-ATIC. The project is located in Glen Urquhart, Scotland

##### **Main objective**

The existing community group GULuP (a body representing local landowners and members of the public in the Glen) will instigate discussion with a variety of stakeholders, gather evidence and plan for a catchment wide long term programme of activities to be implemented in partnership with these stakeholders. One of these activities will be implemented with the financial support (up to £25,000) of Clim-ATIC as a small demonstration project, with the objective of helping to reduce the impact of flooding from the River Enrick, particularly at Kilmichael, in line with the recommendations of the local Integrated Catchment Management Plan (ICMP), these are:

- Flood alleviation of road and housing, and reduction of prolonged flooding of agricultural land
- Control of river bank erosion – use of willow and other sustainable stabilisation techniques
- Debris control
- Sediment management
- Sustainable management of riparian land
- Control of invasive species: Japanese knotweed, Himalayan balsam and White butterbur
- Natural regeneration of woodland where appropriate
- Restoration of neglected riparian woodland
- Encourage responsible access
- Maintenance and enhancement of habitat: fish as priority

This WP4 project will demonstrate in practice the successes and failures that are encountered when a small rural community living in a region of increased threat from flooding, due to climate change, attempts to make informed adaptation decisions, enter into partnerships with stakeholders, and implement local measures. The demonstration project will highlight the significant obstacles and barriers that such a process will encounter. These barriers may include lack of knowledge, regulation and restrictions, financial constraints, attitude and mind sets and time resources. It will also highlight the opportunities and

successes, so that other communities in regions in Scotland and the Northern Periphery can follow by example. The project also hopes to highlight to policy decision makers the potential for such ‘bottom up’ initiatives, and encourage policy makers to make it easier for such a community to make and implement adaptation decisions.

Total budget for the project from Clim-ATIC:

2008	2009	2010	2011	TOTAL
£5,000	£15,000	£5,000	£0	£25,000

### **Relationship to Main Project**

Flash flooding of the River Enrick has been identified as having a high impact on the community of Glen Urquhart, either directly, for example through bank erosion or flood damage to buildings and infrastructure, or indirectly, for example through disruption to fish spawning areas, reduced access up the Glen or impacts on adjacent land uses. The frequency and magnitude of these floods is forecast to increase with climate change.

This project aims to demonstrate the issues that arise when a community takes proactive measures to understand and react to the impacts of the predicted increase in frequency of extreme weather events (increase in amount and duration of precipitation), and attempts to instigate and implement sustainable adaptation measures that will help reduce the vulnerability of the community whilst ensuring full support of all stakeholders (community, government, NGO) and ensuring compliance with all regulations and legislations.

The goal of this WP4 demonstration project will be to implement some small real adaptation measures, but the primary objective is to highlight the lessons, opportunities and barriers, and provide a case study for the Clim-ATIC project on how a community can work with stakeholders to implement bottom up adaptation.

### **2. Project Funding Partners**

The Clim-ATIC project will be providing a budget of £25,000 to this demonstration project plus a portion of the UHI staff time budget for WP4, and a portion of the WP4 travel and promotion budget held by the UHI. The community (GULUP) hope that this demonstration project will succeed in leading to the planning and implementation of a wider range of adaptation projects in partnership with a number of stakeholders beyond the life of the Clim-ATIC project.

Other possible partners and funding sources for these projects include:

- ➔ Highland Council
- ➔ PRIN
- ➔ LEADER
- ➔ SRDP
- ➔ Lottery
- ➔ SEPA Habitat Enhancement Initiatives

The Clim-ATIC project also provides time in kind by the Forestry Commission Scotland up to 150hrs.

### **3. Project Management Structure**

GULuP is the local community organisation that will lead the project.

Glen Urquhart Land Use Partnership (GULUP) has been in existence for over 10 years seeking sustainable solutions to balance long term community, economic and environmental goals. GULuP meet approximately once per month.

Main contact: Mhairi Gordon Chair of Glen Urquhart land use partnership (GULuP Ltd), Lochletter Farm. Glen Urquhart. 01456 476388 [mhairi.a.gordon@googlemail.com](mailto:mhairi.a.gordon@googlemail.com)

GULUP is a community-led partnership between the Glen Urquhart residents and those with an interest in the management of the land, lochs and river within the Glen Urquhart catchment area.

These include local businesses, farmers, foresters and fishermen, the local Community Council and Community Association, Highland Council, Ness & Beaully Fisheries Trust, Woodland Trust, SEPA, SNH, RSPB, FE, SAFER and GULUP seeks to engage with any others who also have an interest.

The local project Steering Group will comprise the directors of GULUP Ltd:

Ken Fraser	<a href="mailto:kenshewglie@btinternet.com">kenshewglie@btinternet.com</a>
Mhairi Gordon	<a href="mailto:mhairi.a.gordon@googlemail.com">mhairi.a.gordon@googlemail.com</a>
Rab Gordon	<a href="mailto:rainnea@googlemail.com">rainnea@googlemail.com</a>
Arthur Hart	<a href="mailto:acharts@btinternet.com">acharts@btinternet.com</a>
Pam Lucas	<a href="mailto:p.lucas@countryside-internet">p.lucas@countryside-internet</a>
Peter MacDonald	<a href="mailto:broombank.dal@icscotland.net">broombank.dal@icscotland.net</a>
Donald MacKenzie	01456 450488
Gordon Menzies	<a href="mailto:gordon.menziesm@btopenworld.com">gordon.menziesm@btopenworld.com</a>
Una Urquhart	<a href="mailto:una.urquhart@marchfield.plus.com">una.urquhart@marchfield.plus.com</a>

Community person time of GULuP members will be provided as required by the project, yet the community recognise that they do not have the time nor the skills to manage the design and construction aspects of project effectively and will consider employing a project manager as required to implement project activities. Additional advice and expertise will be needed from Mountain Environments Ltd and the River Restoration Centre. This will also have a cost implication.

The project will be overseen by the UHI Millennium institute, and the Centre for Mountain Studies will provide staff time and support to facilitate the implementation of the project as required.

The core group will be formed from the above pool of Directors along with invited Associates from the following list (or others as may be deemed appropriate).

Associates:

name	Organisation/s	Email/tel
Clive Bowman	Clim-ATIC project	<a href="mailto:Clive.Bowman@Perth.uhi.ac.uk">Clive.Bowman@Perth.uhi.ac.uk</a>
Richard Johnson	Mountain Environments Ltd	<a href="mailto:info@mountain-environments.co.uk">info@mountain-environments.co.uk</a>
Margaret Davidson	Local Councillor	<a href="mailto:Margaret.Davidson.Cllr@highland.gov.uk">Margaret.Davidson.Cllr@highland.gov.uk</a>
Tim Dawson	SNH	<a href="mailto:tim.dawson@snh.gov.uk">tim.dawson@snh.gov.uk</a>
Ken Fraser	Community Council	<a href="mailto:kenshewglie@btinternet.com">kenshewglie@btinternet.com</a>
Stuart Findlay	Forest Enterprise	<a href="mailto:Stuart.Findlay@forestry.gsi.gov.uk">Stuart.Findlay@forestry.gsi.gov.uk</a>
David Fraser	Chair, Glenurquhart Community Council	<a href="mailto:davidmfraser@btinternet.com">davidmfraser@btinternet.com</a>
Martina Osterloh	SEPA	<a href="mailto:Martina.Osterloh@sepa.org.uk">Martina.Osterloh@sepa.org.uk</a>
Sam MacNaughton	Highland Council	<a href="mailto:sam.macnaughton@highland.gov.uk">sam.macnaughton@highland.gov.uk</a>
Peter MacDonald	Community Council	<a href="mailto:broombank.dal@icscotland.net">broombank.dal@icscotland.net</a>
Gordon Menzies	District Fishery Board	<a href="mailto:gordon.menzies@btopenworld.com">gordon.menzies@btopenworld.com</a>
Dan Tomes	RSPB	<a href="mailto:dan.tomes@rspb.org.uk">dan.tomes@rspb.org.uk</a>

Fiona Urquhart	Local businesses/ Community Council	glenkirk@lochnessbandb.com
Malcolm Wield	Forestry Commission	malcolm.wield@forestry.gis.gov.uk
Keith Williams	Ness & Beaully Fisheries Trust	Keith.Williams7@tesco.net

#### 4. Project Activities and Deliverables

In February 2009 Richard Johnson of Mountain Environments Ltd provided GULuP with a number of possible small river restoration project opportunities that would enhance the rivers system and help to reduce the impact of future flood events. (see appendix). All of these projects will require a CARR licence and thus an application to SEPA is the next stage in the project.

Therefore the project is unable to say at this stage exactly what the actual 'construction' element of the adaptation project will be, but a necessary and fundamental part of the learning from the project will be to assess in partnership with other stakeholders the range of adaptation options available, and develop a programme of adaptation measures. The Clim-ATIC project plans to implement a quick win-win project before the end of 2010.

This 'planning in partnership' phase has already begun through a series of meetings and workshops to identify issues. In addition consultants have been used to provide information and advice on the river catchment to inform any decision making.

It is anticipated that at least one of these options (chosen to meet the requirements of budget and timescale) will be implemented as part of this demonstration project but the full range of options will be implemented over the longer term by a range of stakeholders. The purpose of implementing one small adaptation 'construction' project is again so the Clim-ATIC project is able to extract lessons from this particular stage of such a project.

Proposed evaluation of results:

- Records of meetings and workshops
- Before and after environmental audit of 'construction' site
- Community questionnaire covering experiences of participants during project implementation
- Photographic records

#### 5. Project Reporting

The project steering group will report to the WP4 leader on a 3 month period basis. A key project milestone at which a comprehensive mid project review should be undertaken by the WP4 leader would coincide with the commencement the 'construction' phase.

#### 6. Dissemination

Proposed dissemination tools

- GULUP website
- Clim-ATIC website
- local meetings
- final demonstration project report
- SEPA View article

#### 7. Links to other projects

Potential links with Finland’s GIS flood risk management project

Links with other non Clim-ATIC organisations in Scotland:

River Basin Planning - case studies and experiences collected by Rachael Harding-Hill and Richard Brown of SEPA.

EU Floods Directive

European network – FLAPP stands for “Flood Awareness and Prevention Policy in border areas”. It is an EU-funded network through which local and regional flood experts from across Europe share knowledge and experience about how to prevent and forecast floods, inform people and limit the damage when floods happen.

## Project Finance

See below.....

### 8. Summary Project Programme

<b>Dates</b>	<b>Project Activities</b>	<b>Estimated Expenditure</b> (in local currency)
<b>March 2008 – July 2008</b>		
March 2008 – July 2008	Complete template information	0
May 2008	Review of existing catchment management plan by Richard Johnson of Mountain Environments Ltd Community Workshop organised by GULuP to feed in ideas into project plan	2350 0
	Ongoing project local admin and management	150
<b>August 2008 – December 2008</b>		
20 August 2008	Second community workshop organised by GULuP to develop project plan.	
November - December 2008	Second Community Workshop organised by GULuP to feed in ideas into project plan	0
	Ongoing project local admin and management	150
<b>January 2009 – June 2009</b>		
February 2008	Seek approval from Clim-ATIC steering group to proceed	0
	Review of a number possible river restoration projects by Richard Johnson of Mountain Environments Ltd. Making CAR licence applications for projects	800 500
	Ongoing project stakeholder meetings and activities to develop a programme of river restoration projects	
	Ongoing project management and meetings	100
	Participation in international exchange visits combined with regional dissemination events?	Cost covered else where
<b>July 2009 – December 2009</b>		

Clim-ATIC WP4 Project Plan 3 Scotland – February 2009

	Ongoing stakeholder meetings and project activities including planning Clim-ATIC's funded construction works	10000
	Ongoing project management and meetings	100
<b>January 2010 – June 2010</b>		
	Ongoing project activities including construction works and sourcing of funding for wider implementation of the programme of river restoration projects	5000
	Ongoing project management and meetings	100
<b>July 2010 – December 2010</b>		
	Conclusion of project activities including construction works.	5000
	Ongoing project management and meetings	100
	Project evaluation Transnational conference with final presentations and evaluations of demonstration projects.	500 Cost covered else where
<b>January 2011 – February 2011</b>		
	Preparation and publication of demonstration project reports	150
<b>TOTAL</b>		<b><u>25,000</u></b>