



Climate Change - Adapting to The Impacts, by Communities in Northern Peripheral Regions

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

Workpackage 4 - Adaptation Demonstration Projects

Generic Project Plan

1. Project Description

Name of project: Adapting a local woodland management plan to the local impacts of climate change,

Project time: February 2009- November 2010

Background:

Lycksele municipality is a small inland municipality with about 12 500 inhabitants, of which approximately 25 percent are forest land owners. Around 72 percent of the total land area in the municipality consists of woodland. The forest sector is thus an important economic driver in the locality. All commercial forests are recommended to have some kind of woodland management plan by the Forest Authority..

The region of Västerbotten has a long history of forest cultivation that dates back to when the first “modern” settlers inhabited the area in the beginning of the 17th century. The Sami people had inhabited the area for centuries before the first “modern” settlers arrived, and the reindeer herding is also an important source of income to many people, as well as the tourism connected to it.

The Swedish University of Agricultural Sciences (SLU) is situated in the region. The main SLU campus is situated in Umeå (130 km from Lycksele), and one research station specializing in woodland management is situated in Vindeln (80 km from Lycksele). In addition, there is a Forest Museum in Lycksele where exhibitions, activities and seminars are held.

Aim of the project:

The aims of the project are three-fold:

- 1) To increase the awareness and the interest among forest owners and citizens in which ways the forest management in the area of Lycksele needs to adapt today to climate change in the future.
- 2) Develop a new process of taking the local knowledge of woodland management into account when adapting a woodland management plan to climate change
- 3) Generate new ideas and initiatives from the adaptation of the woodland management plan that will lead to increased business opportunities for the woodland owners and forest companies

Project set up:

The project will be divided into three parts:

1. Feb 2009- March 2009 Seminars on climate change connected to woodland management
2. September 2009- January 2010 Workshops on how to adapt a woodland management plan in Lycksele municipality to climate change with the help of PlanWise, a new computerized planning tool

3. February 2010- June 2010

Preparation of exhibition at the Forest Museum presenting the results from the project in an interactive way

The first part is designed to create a community interest in the impacts that climate change will have on the forest and thus on forest management in Lycksele. The seminars will be open for the public and the lecturers/facilitators will be selected with assistance from the Swedish University of Agricultural Sciences (SLU).

The second part, the workshops, will be carried out through active co-operation between a small group of woodland owners, The Forest Agency (FA), SLU and Lycksele municipality. The aim is to adapt a local woodland management plan in Lycksele municipality to the impacts of climate change. We will not carry out any field projects in the forest, but only adapt the plan. The local woodland owners' collective experience from forest management is the starting point for the workshops. We will of course also use the results from the climate scenarios produced in work package 2, the information from the seminars as well as relevant articles as a starting point for our analysis. Experts from the Forest Museum, the Forest Agency and SLU will contribute with their knowledge as participants in the workshops.

When the local woodland management plan has been analysed we will use the computerized tool, *PlanWise*, recently developed in the research programme *Heureka*, in order to analyse and visualise possible scenarios in the forest. The tool makes it possible to plot the forest into a 3-D model of the forest. This means that we will be able to visualise the forest as it looks today as well as the future forest, when its management has been adapted to the impacts of climate change.

The third part will be implemented in co-operation with the Forest Museum and it will be based on the output from part two of the project. The final product will be one of many possible adaptation outcomes of the local woodland plan and not any kind of general truth of what a "climate change adapted" woodland management plan should look like. The "adapted" woodland management plan will be exhibited with the help of 3-D techniques and by creating a sensation, in the exhibition, of entering into a future, adapted forest. It is considered that the creation of interaction in the exhibition, as well as creating a sensation of entering into a future forest, will be an important part of the dissemination activity associated with the project.

Methodology:

The methodology is based on the idea that the optimum interest in the demonstration project will be generated if the woodland owners feel some sort of ownership of the adaptation activities and if they are willing to use their experience based knowledge to adapt their own forests to local climate change.

To achieve this the project approach will always be a bottom-up perspective and the methodology of the interactive group working with climate adaptation issues in the woodland management plan will be developed with the participants in this group of local woodland owners.

It is the woodland owners who will be the ones who will need to carry out the adaptation activities in reality. Therefore, it is important for everybody involved in the project to know that the forest owners' experience derived knowledge base is also the base for the success of this project.

The idea of working with a local forest management plan in the municipality of Lycksele also gives the project a "down to earth" approach and the output will thus be easier to understand, as many people may have visited the particular forest itself or at least know where it is situated.

2. The annual and total budgets for the project:

The project budget is as below

2009 15 600 Euros

2010 21 600 Euros

Total: 37 200 Euros

(not including staff costs for the project leader and for staff at Lycksele municipality)

3. Relationship to Main Project

The demonstration project in Lycksele is based on a broad cooperation between universities, public organisations and small enterprises (SME's). The exchange of scientific data and local knowledge is emphasized in the cooperation between local woodland owners and the Swedish University of Agricultural Sciences and the Forest Agency.

The output will also be part of the general objectives of Clim-ATIC. A woodland management plan adapted to climate change will help focus on the effective future management of the forest. The emphasis on flexibility will be important in order to maintain or enhance the local economic and environmental contribution from woodlands through the adaptation process.

The testing of a computerized planning product that has been developed within the research programme *Heureka* is also important and especially when trying to develop and demonstrate its potential as a tool for small enterprises undertaking business planning in relation to climate change adaptation measures.

The dissemination of the project activities and results is a very important part of the overall aim and the involvement of the established Forest Museum will increase the effective distribution of the knowledge gained during the project.

4. Project Funding Partners

The funding partners are Lycksele municipality through its co-financing of the Clim-ATIC project and The Forest Agency contributing with 7000 Euros.

The Forest Agency will be paid as an external expert for its involvement in the project

5. Project Management Structure

The project steering group will meet approximately every third month and the group members consist of:

John-Gunnar Jönsson, Strategic planner, Lycksele municipality

john-gunnar.jonsson@lycksele.se

Ingela Forsberg, Biologist, Lycksele municipality

Ingela.forsberg@lycksele.se

Maarit Kalela_Brundin, Forest museum manager, Lycksele

Maarit.Kalelea-Brundin@lycksele.se

Annika Nordenstam, Regional project leader Clim-atic

Annika.Nordenstam@lycksele.se

Tomas Lämås, Programme Director Heureka, The Swedish University for Agricultural Sciences

Tomas.Lamas@srh.slu.se

The locally based project manager will be Annika Nordenstam, project leader, Clim-atic.
Annika.Nordenstam@lycksele.se

Maarit Kalela Brundin will be in responsible for part 3 of the project, the exhibition at the Forest Museum.

The Project steering group responsibilities are:

- Monitoring the project quality, progress and costs
- Approval of suggested changes in the project
- Dissemination of information

The local project manager will be responsible for:

- monitoring and controlling project quality, progress and costs
- suggesting changes if needed and have them approved by the local steering group
- reporting to the WP 4 leader every third month and informing the WP 4 leader if changes of the project need to be done
- Dissemination of information

6. Project Activities and Deliverables

The project will be divided into three parts with the following activities:

Part 1: Seminars on climate change adoption in the future forest

Time	Activity	Cost
Dec- Jan	Planning of seminars, book lecturers	Included in project leader costs + staff costs Lse
Jan-March	Advertising	Approx: 1000 Euros
Feb-March	Seminars on: Climate scenarios + future forests Biodiversity Biofuel Carbon capture Increased productivity	Approx: 5000 Euros

Part 2: Workshops on how to adapt a forest management plan

Time	Activity	Cost
(2009) Dec- Jan	Finding an interesting forest management plan	FA 400 Euros
Jan- June	Setting up general workshop strategy	Included in project leader cost + staff costs Lycksele (Lse) municipality + 800 Euros FA
Jan- June	Selection of forest owners who will participate in the project	Project leader cost + Lse municipality
Jan-June	Training in PlanWise	SLU, 800 Euros + project leader cost and staff costs Lycksele municipality + FA 800 Euros
October- December	Workshop: 1) Study visit to the forest which will be "adapted" 2) Definition of goals and parameters that will be used 3) Introduction of PlanWise 4) Deciding on adaptation activities in the plan (several meetings)	SLU, 1000 Euros, project leader costs and staff costs Lycksele municipality, FA 5000 Euros Travel expenses: 400 Euros Representation: 400 Euros
Dec (09)- Jan (10)	Processing of data that will be inserted into PlanWise Analyses of data in PlanWise Visualisation	SLU: 600 Euros SLU: 1500 Euros SLU: 2700 Euros
(2010) Jan	Presentation of final result and some corrections	SLU, 800 Euros + project leader

Part 3: Exhibition at the Forest Museum

(2010) Jan-June	Preparation of exhibition at the Forest Museum	Approx: 15 000 Euros
June	Exhibition starts	Advertisements 1000 Euros

a. At the end of this projects the following results will have been achieved:

- At least 4 seminars will have been given on the topic of adaptation to climate change in the local forest sector to the general public in the municipality
 - A local forest management plan in Lycksele municipality will have been adapted to climate change (based on local climate change scenarios, vulnerability assessments, latest research and local experience)
 - At least 4 workshop meetings will have been carried out trying to adapt a local forest management plan and detecting problems and opportunities when adapting it (to a selected group of woodland owners)
 - A number of local forest owners, citizens, companies as well as civil servants in Lycksele municipality will have learned more about climate adaptation in practice
 - A number of people in Lycksele will have received an introduction on how to run the computerized forest planning tool PlanWise and using its flexibility in order to plan for climate change impacts
 - An exhibition will have been held at the Forest Museum in Lycksele showing the future forest to both children and adults. The exhibition will be based on the results achieved from adapting a forest management plan into PlanWise.
 - Cooperation between SLU, The Forest Agency, local forest owners and the Forest Museum and IGIS will have taken place.
 - A non technical summary of the project results will have been posted at the Clim-ATIC homepage
- b. The community based benefits will be an increased awareness of the possibilities and threats that are connected to climate change and local woodland management planning. The opportunity to learn how to cooperate with researchers on climate change and increasing the knowledge of woodland management through computerized planning could also lead to advantages for the local forest owners and for the Forest Agency. Increased awareness as such might also lead to a competitive advantage for the forest owners and enable them to plan more effectively when it comes to adaptation to climate change.
- c. Project evaluation activities :
- All three parts will be evaluated by the participants through written evaluations at the events measuring the understanding of climate adaptation and the need to implement action
- An overall evaluation of the project will also be made by the project leader through an anonymous survey
- d. The Transnational (or potential transnational aspects of the project must be identified)
- Forestry is an important business sector in Finland, Scotland and Norway and the project results might therefore be connected to activities in these regions too . The Planning tool PlanWise could also be of interest in these countries as well.
 - The methodology when working in cooperation between researchers, authorities and local forest owners might be used in other regions
 - the opportunities for transnational co-operation will be further investigated in the early stages of the project and there will be discussion between the local project leader and the WP4 leader in this regard.
- e. How will the project continue after the completion of the Clim-ATIC project

The exhibition at the museum might become a permanent exhibition that might be adapted continuously to the latest research. The cooperation between the Forest Museum and SLU might continue.

The knowledge of using PlanWise within Lycksele municipality might become usable in the municipality's planning of future forest climate adaptation

The local forest owners' increased awareness might lead to a more flexible forest management. The increased awareness will enable them to plan the forest management from a climate adaptation perspective

7. Project Reporting

- a. Reporting to WP 4 leader will be done every 3rd month.
- b. The WP 4 leader would ideally visit the project at one of the meetings during part II of the project.
- c. After the part II of the project a comprehensive report of the project results so far will be delivered.

8. Dissemination

- a. The project will start by advertising in the local municipal paper that is distributed to every household in Lycksele municipality in December.
- b. Advertising will also be done in the local paper distributed every week where information about the seminars will be published
- c. In January/February 2009 we will ask the regional newspapers to write an article about the project
- d. Information will be published at the different associations' home pages
- e. Posters will be posted on local notice boards
- f. The forest Agency will try to engage forest owners in the project
- g. We will be seen at national home pages where climate activities are gathered
- h. Participation in courses etc
- i. The final dissemination will be at the Forest Museum
- j. Comprehensive reports will be put together

9. Links to other projects

- a. There is a direct link to the wood fuel demonstration project in Scotland, where woodland owners and manager, together with other stakeholders in the supply chain, will be involved in assessing the impacts of climate change on the biofuel sector.
- b. There is a direct link to the research programmes Heureka and Future Forests arranged by the Swedish University of Agricultural Sciences in Umeå.

- c. There is also a link to the Finnish Research Programme ISTO, Climate change research adaptation research programme
- d. Describe the links to any other NPP project
 Potential links with the ELAV project www.elavproject.com. The ELAV project will work with rural communities, municipalities, forest companies, landowners and forest authorities to action sustainable rural development based on strategic forest planning for the development of multipurpose natural/forest resources. (Project closed, 2008-03-31)
 Developing Scots Pine Developing Scots Pine – new NPP project
 –Assessing sustainability of forest based activities in rural areas of the Northern Periphery, **Northern ToSIA** – new NPP project
- e. Describe the links to any other EU funded project

10. Project Finance

- a. Provide a spreadsheet showing proposed expenditure by activity and time period (Please see point 6)
- b. Please set this up so that it is easy to compare actual project expenditure against planned expenditure (Will be handed in directly to the WP4 project leader)

11. Summary Project Programme

Feb-March 2009	Seminars start
October- December 2009	Workshop on adapting a local forest management plan to climate change
June 2010	Exhibition at the Forest Museum starts