

# Deliverable A 1/1 “Project work plan including monitoring guidelines”

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EU LIFE Programme project  
“Demonstration of climate change mitigation potential of nutrients rich organic soils in Baltic States and Finland”

LIFE OrgBalt, LIFE18 CCM/LV/001158



## About deliverable

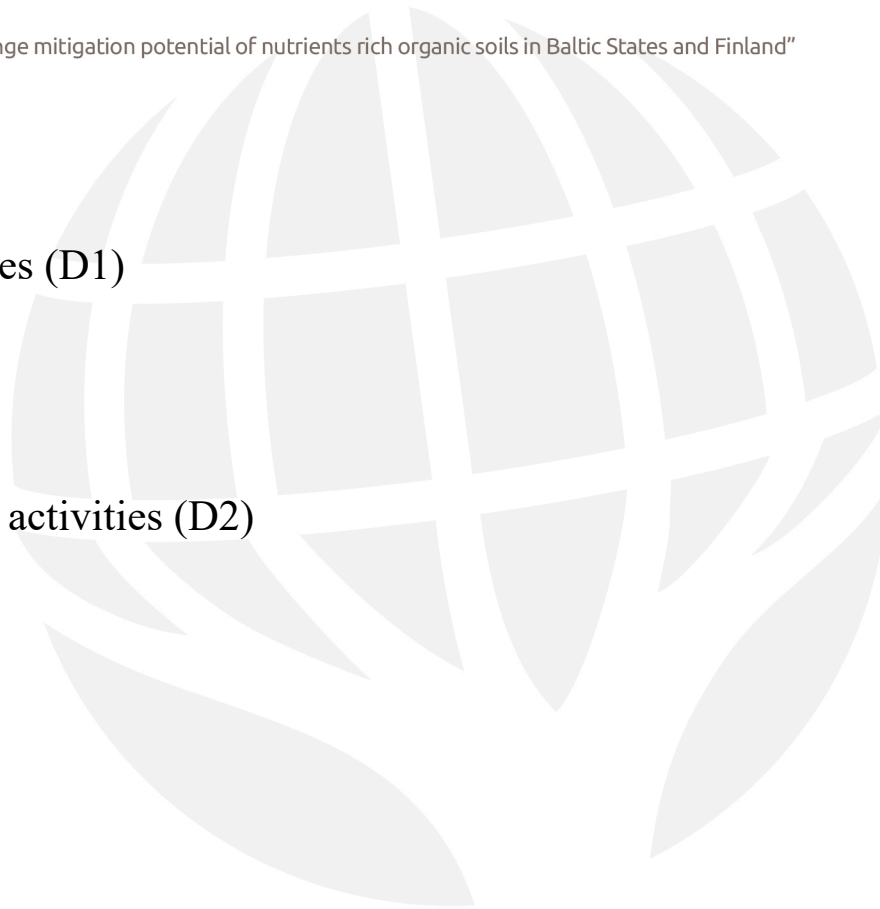
**Aim** - to establish a framework for implementation and monitoring of the progress and impact of the Project.

Developed document consist from **two parts**:

1. Project work plan;
2. Monitoring guidelines:
  - 2.1. Monitoring of the implementation of project activities (D1)
  - 2.2. Monitoring of the socio-economic impact of project activities (D2)
  - 2.3. Monitoring and measuring LIFE KPI (D3)

# Monitoring deliverables

- Monitoring of the implementation of project activities (D1)
  - Initial monitoring Report – 01/2021
  - Midterm monitoring report – 01/2022
  - Final monitoring report – 07/2023
- Monitoring of the socio-economic impact of project activities (D2)
  - Initial monitoring Report – 07/2021
  - Final monitoring report – 07/2023
- Monitoring and measuring LIFE KPI (D3)
  - Report on progress regarding LIFE KPI 08/2020
  - Report on progress regarding LIFE KPI 08/2021
  - Report on progress regarding LIFE KPI 08/2022
  - Report on progress regarding LIFE KPI 08/2023



## Project work plan (I)

- Project and activities overall aims;
- Partners – their responsibilities regarding project actions and subtasks;
- Activities, Project deliverables and deadlines;
- Developed detailed project timetable, that shows:
  - Timeline of each action;
  - Project Milestone and Deliverables;
  - Responsible partner about each activity and sub task;
  - *Timetable will be used as work tool and regularly updated to follow to Project progress and to provide quality control.*

## Project work plan (II)

- Quality assurance and quality control:
  - accurate and timely execution of Project activities;
  - effective and efficient operation of the parties involved in Project implementation;
  - compliance of the Project work quality and documents with the planned;
  - the accuracy of the submitted documentation and compliance with the Project and regulatory requirements;
  - obtaining, compiling and circulating objective information for evaluation of Project implementation;
  - transparency of Project implementation processes.

## Project work plan (III)

- Identified risks and actions to prevent them:
  - Prolongation of the Project due to unforeseen circumstances;
  - Performing poor quality work that delays completion of the activities;
  - Poor preparation, which prevents that activities will be completed in expected time;
  - Unexpected costs or price increases may adversely affect the Project budget;
  - Collaboration with landowners could be threatened, necessitating changes of demo sites;
  - Force majeure or other exceptional circumstances may affect Project implementation.

# Monitoring guidelines

## Aim of the Project monitoring:

- To timely identify threats or problems that could impact the Project implementation and to look for solutions and opportunities;
- To guide the incorporation of stakeholder group participation, concerns and interests into successful Climate Change Mitigation process.
- 3 types of monitoring actions:
  - Monitoring of the implementation of Project Actions (D1);
  - Monitoring of the socio-economic impact of the Project Actions (D2);
  - Monitoring and measuring of the LIFE key performance indicators (D3).

# Monitoring of the implementation of Project Actions (D1)

- To evaluate impact of implemented measures on GHG emissions in demo sites (implemented in Action C3) and to compare to target indicators set in monitoring guidelines.
- Tasks of monitoring action D1:
  1. Monitoring of GHG emissions in the demo sites;
  2. Validation of the CCM measures and reporting of monitoring results.



## Task 1 Monitoring of GHG emissions in the demo sites

- Monitoring of GHG emission from demo sites for 24 month (methodology will be set in Action C1);
- Gas, water, soil and biomass sampling and analyses.

## Task 2 Validation of the CCM measures and reporting of monitoring results

- Aimed on elaboration of GHG emission reduction estimates in the demo sites, monitoring of project implementation and elaboration of reporting documentation.

# Methodologies to evaluate project results (D1)

- **GHG flux monitoring methods**

- Chamber method will be used;
  - Method 1 - on-site gas sampling using opaque and transparent closed **static chambers**;
  - Method-2 will be used for in-situ CO<sub>2</sub> flux monitoring by using closed **dynamic chambers**;

- **Carbon fluxes mediated by vegetation will analysed**

- Measurements of plant biomass and production:
  - Estimation of tree stand above-ground and below-ground biomass;
  - Analysis of the above-ground biomass of the ground vegetation;
  - Analysis of root biomass.

## Methodologies to evaluate project results (D1)

- **Carbon inputs with dead biomass and carbon loss rates:**
  - current carbon stock in litter and dead wood will be analysed;
  - decomposition of these C pools will be estimated
- **Characterizing soil microbial communities;**
  - Topsoil (upper 10 cm) and deeper soil layer samples will be analysed;
    - Microbial diversity;
    - DNA and RNA extraction;
    - Identification of active bacterial species/processes;
    - Etc.

## Methodologies to evaluate project results (D1)

- **Soil screening with infrared spectroscopy:**
  - to summarize whole chemical composition of the sample;
  - If the comprehensive description of soil chemistry with IRS proves to have predictive power for soil GHG exchange, the methodology could revolutionize the estimation of these emissions.
- **Soil and water samples will be analysed:**
  - comprehensive evaluation of soil properties down to 80 cm depth or down to a mineral layer will be done:
    - Measurements will be repeated at a topsoil layer 3 times per vegetation season.

# Monitoring of the socio-economic impact of the Project Actions (D2)

The aim:

- to assess the success of the Project implementation;
  - to determine how implementation of Project actions has contributed to the Project objectives;
  - to provide timely identification of the risks related to separate Actions or Project in general.
- Tasks of monitoring action D2
    - To evaluate socio-economic effects of implemented CCM measures in demo sites;
    - To assess socio-economic effects of the Project outcomes in policy planning.

## Data collection methods

- Qualitative and quantitative data gathering methods will be used to
  - gather comprehensive information;
  - in-depth information.
- Surveys;
- Focus group discussion or interviews;
- Desk research.



## Indicators and criteria

- Socio-economic effects of implemented CCM measures in demo sites will be measured by detailed analysis of demo sites;
- Assessment of socio-economic effects of the Project outcomes in policy planning will be done.

# Socio-economic effects of implemented CCM measures in demo sites

## **Income:**

- Agriculture and forestry production
- Gross value
- Other income
- Income from quota or other supporting funding's

## **Territory establishment:**

- Seeds and planting costs
- Soil preparation
- Ploughing
- Levelling
- Manuring
- Harvesting costs

## **Maintenance costs:**

- Maintenance of established culture
- Repair and maintenance costs

## **Employment:**

- Engaged employee
- Total hours worked per year
- Personnel costs

- Unpaid labour

## **Other costs**

- Lease/rental payments
- Other payments (variable/non-variable costs)
- Capital costs



# Indicators to analyse socio-economic effects of the Project outcomes in policy planning

## **Policy planning:**

- Recommendations developed based on Project results
- Developed documents related with the Project
- Advisory for policy planning

## **Stakeholder and society involvement:**

- Involvement of private farmers and formation of cooperatives
- Networks, groups of interest
- Involved stakeholders
- Transfer of knowledge
- Awareness rising
- Alternative land management and use practices
- Behavioural changes

# Monitoring and measuring the LIFE key performance indicators (D3)

- To analyse the success of the Project implementation.
  - indicators are related with:
    - reduction of greenhouse gas emissions,
    - sustainable land use management,
    - economic improvements,
    - dissemination and communication
- Indicators that have to be measured and achieved during the Project implementation process have been identified and described in the Project proposal

# Questions/Discussions/Suggestions



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