



LIFE OrgBalt: «Demonstration of climate change mitigation potential of nutrients rich organic soils in Baltic States and Finland»

Scope and objectives

LIFE18 CCM/LV/001158

Kick-off meeting, 24-25 October 2019, Riga, Latvia

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Project` “roots”



LIFE REstore project results indicated importance and necessity to continue work on elaboration of GHG inventory data:

GHG emissions calculated by using nationally calculated emission factors from the most of the land use categories with nutrient-poor organic soils were about twice as less as the emission estimates using IPCC WS default factors

*Next step is elaboration of GHG emission factors for nutrient-rich organic soils (**LIFE OrgBalt project**)*

Without scientifically sound knowledge on the accurate emission amounts policy planners are not supported with the necessary information.

Who we are?



8 Partners:

Latvia: LSFRI Silava
LLU
MA
BalticCoasts
Lithuania: LAMMC
Estonia: UT
Finland: LUKE
Germany: MSF

5 Countries



Start: 01/08/19 - End: 31/08/23

What is the target territory?



Cool Temperate Moist Climate Zone



0 500 1000 1500 km

Main idea and objectives



Idea: GHG inventory improvements and innovative Climate Change Mitigation (CCM) measures in nutrient-rich organic soils in Temperate Cool & Moist (TCM) climate region to reduce GHG emissions from cropland, grassland and forest land

Objectives:

- ⤵ Improvement of GHG inventory methods and activity data for nutrient-rich organic soils
- ⤵ Identifying and demonstration of cost-effective CCM measures applicable in nutrient-rich organic soils
- ⤵ Elaboration of tools and guidance for implementation of CCM measures

LIFE OrgBalt structure



Project framework

Project management

A PREPARATION

Status quo information on EFs, activity data, mitigation measures

C IMPLEMENTATION

STAKEHOLDERS

- Demo sites (12, LV/(FI)) and reference sites (30 - LV, EE, LT)

- Field data collection

- GHG inventory methodology improvements: EFs, activity data including litter and fine root C input (forest), peat properties characterization (infrared screening methodology)

- Elaboration GHG projections methodology and socio-economic analysis of CCM measures

- Catalogue on CCM measures

- Web based Simulation tool for projections of GHG mitigation and socio-economic impact of CCM measures

- Integration of the Simulation tool into the policy planning and proposals for policy documents to reduce GHG emissions from

E COMMUNICATION DISSEMINATION

- Scientific publications
- Printed booklets, e-Newsletters
- Experience exchange meetings
- Joint Baltic, Finnish CCM Action Program

D MONITORING

- GHG emissions in demo sites, validation of CCM measures
- Socio economic effect of CCM measures in demo sites

STAKEHOLDERS



It is team work!

Considered CCM measures



CCM measures (demo sites –long term monitoring plots – demonstration territories for training and education) with transferability potential

In Grassland

- Paludicultures (alder in grassland)
- Afforestation (shorter rotation)
- Controlled drainage of grassland

In Cropland

- Agroforestry (fast growing trees, grass)
- Conversion of cropland to grassland
- Legumes in conventional crop rotation
- Fast growing species in riparian buffer zones

In Forest land

- Continuous forest cover (spruce)
- Semi natural regeneration of clear-felling sites (birch/grey alder) without drainage systems reconstruction
- Wood ash application in spruce stands
- Alder in riparian buffer zones in forest