





## 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

Ieva Licite, LIFE OrgBalt project coordinator

Latvia State Forest Research Institute "Silava" Riga street 111, Salaspils LV-2169 Phone: +371 29183320, E-mail: ieva.licite@silava.lv

## Project' "roots"



State Regional Development Agenc Republic of Latvia



**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?



State Regional Development Agency Republic of Latvia



#### **8** Partners: LSFRI Silava Latvia: LLU MA **BalticCoasts** LAMMC Lithuania: Estonia: UT LUKE Finland: Germany: MSF

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

## **5** Countries



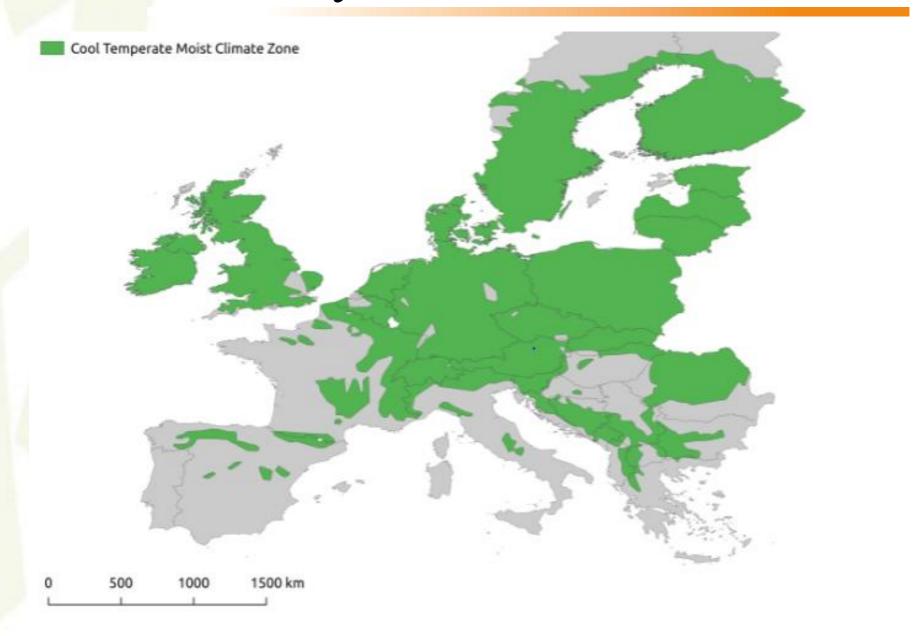
# What is the target territory?





State Regional Development Agency Republic of Latvia





# 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**:

<sup>°</sup> Improvement of GHG inventory methods and activity data for nutrient-rich organic soils

<sup>°</sup> Identifying and demonstration of cost-effective CCM measures applicable in nutrient-rich organic soils

Elaboration of tools and guidance for implementation of CCM measures

# LIFEOrgBalt structure



State Regional Development Agency Republic of Latvia



Project f<mark>ramew</mark>ork

A PREPARATION

Status quo information on EFs, activity data, mitigation measures

#### Project management

- C IMPLEMENTATION -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 socioeconomic 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 RC tool into the policy planning and proposals for policy documents

#### E COMMUNICATION DISSEMINATION

#### Scientific publications Printed booklets, e-

Newslett

ers

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









# **Considered CCM measures**



State Regional Development Agene Republic of Latvia SILAVA

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

<u>In Grassland</u>

- 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