



# LIFE OrgBalt progress and what`s next – overall view

2<sup>nd</sup> Steering group meeting  
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LIFE OrgBalt, LIFE18 CCM/LV/001158

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



Latvia University of Life Sciences and Technologies



BALTIJAS KRĀSTI



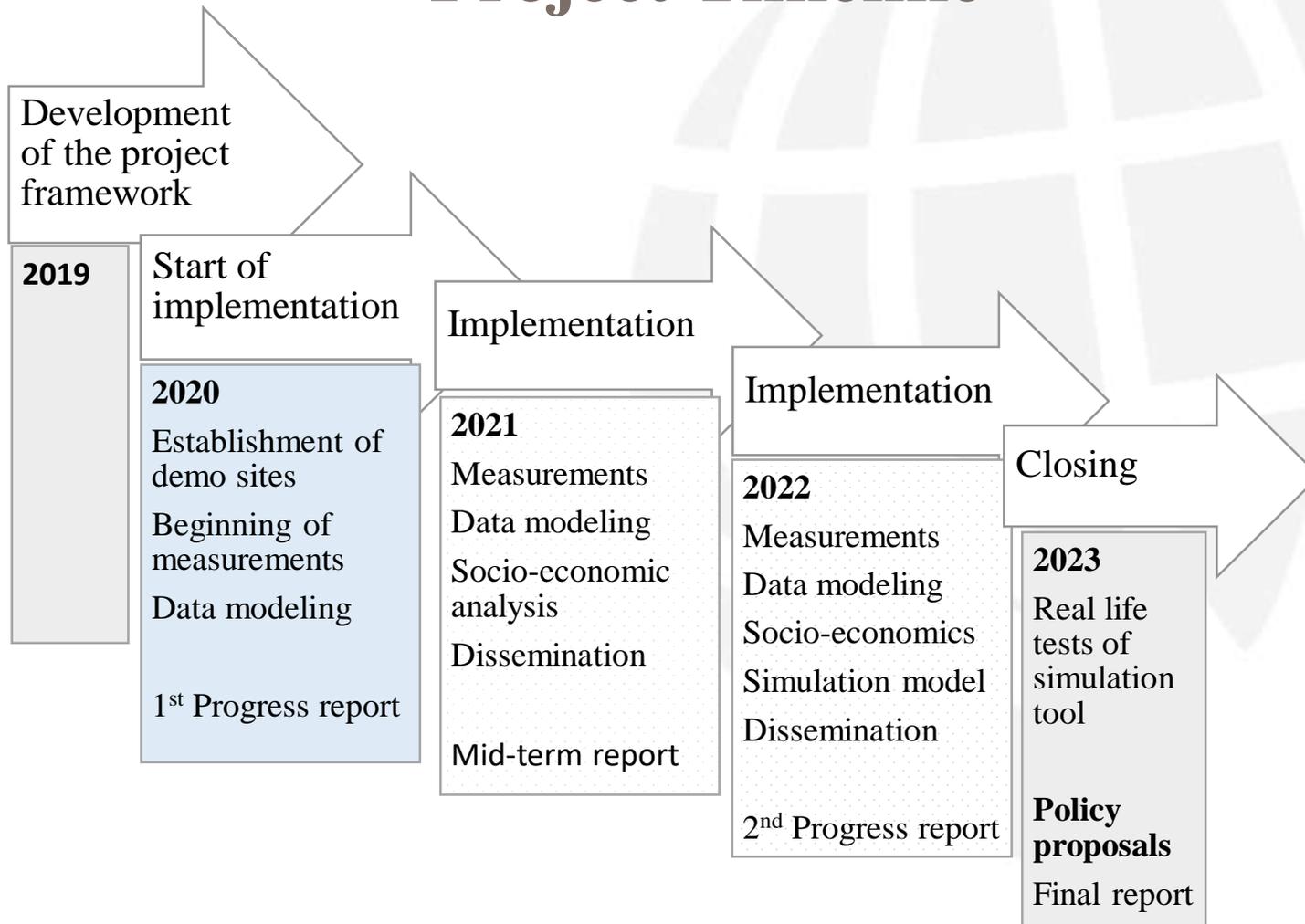
## Main idea and objectives

**Idea:** improve GHG inventory and demonstrate climate change mitigation measures on nutrient-rich organic soils to reduce GHG emissions from cropland, grassland and forest land management.

### **Objectives:**

- ✓ Improve GHG inventory methods (emission factors) and activity data for nutrient-rich organic soils
- ✓ Identify and demonstrate cost-effective climate change mitigation measures for management of nutrient-rich organic soils
- ✓ Elaboration of tools and guidance for implementation of climate change mitigation measures through national policies

# Project Timeline



# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s start-up activities (A1 and A2) - finished

### **A1 Development of the project framework**

3 reports (deliverables) available on LIFE OrgBalt web page: **A.1/1** Work plan with monitoring guidelines, **A.1/2** Current situation – applied emission factors, **A.1/3** Current situation – identified CCM practices

### **A2 Elaboration of the project communication platform**

3 reports available on LIFE OrgBalt web page: **A.2/1** Awareness rising plan, **A.2/2** Communication strategy, **A.2/3** Replicability and transferability plan

Awareness rising and communication - qualitative analysis of the communication actions, all stakeholders` groups addressed, project`s communication SWOT analysis and risk assessment (including Covid-19) developed. Communication guidelines - technical document for internal use.

Replicability and transferability – description of replicability tools and cross actions` analysis to identify the most effective transferability actions.

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s implementation activities (C1 –C5) – **in progress**

### **C1 “Filling knowledge gaps”**

Work on elaboration of GHG EFs based on in situ measurements of GHG gas fluxes and soil, litter, water sampling & analysis, plant biomass production, soil infrared spectroscopy tests, soil temperature and water level measurements, root ingrowth trials..

### Work Group “GHG flux monitoring” (LUKE):

- field protocols - site preparations, heterotrophic CO<sub>2</sub> flux monitoring, static dark chamber monitoring (incl. CH<sub>4</sub>&N<sub>2</sub>O), environment data (water & soil data), litter production and decomposition belowground, biomass production aboveground, data management (codes and storage)

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s implementation activities (C1 –C5) – **in progress**

### **C2 “Modeling tools”**

Work on improved activity data approach for GHG emissions calculations (inventory, GHG projections, tools for evaluating impact of CCM measures). Going spatial, infrared screening for characterization of peat properties.

#### Work Group “Activity data” (Silava):

Methodology including LIDAR data analysis, elaboration of approach of land use changes identification, system on how to include soil fertility information in inventory systems etc. National GHG inventory teams (LT and EE) will be involved in testing the developed methods (during middle of September). FI and DE colleagues will be involved in informative and advisory capacities.

Susi peatland simulator as tool for GHG emission calculations (to be verified with data from in situ measurements).

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s implementation activities (C1 –C5) – **in progress**

### **C3 “Establishment of demo sites”**

15 demo sites identified in Latvia and Finland and 30+ reference sites in Baltic States.

Work on establishment of demonstration sites (procurement procedures, agreements with land owners and practical work to implement particular measures). 10 demonstrations in forest land and 5 in agricultural land.

### **C4 “Policy documents”**

Work on quantitative assessment of climate change mitigation effect and proposals to include CCM measures (recommended by the Project) into policy planning documents.

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s implementation activities (C1 –C5) – **in progress**

### **C5 “Replicability tools”**

Work on web based **Simulation tool** for projections of GHG mitigation and socio-economic impact of CCM measures.

Work has just started, lead partners – LLU, MA and BC.

Tool will work as spreadsheet interface for a single parcel based calculations as well as at countries` level.

It will be tested in real life conditions in all Project partner countries and hopefully also integrated into climate policy planning process.

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s monitoring activities (D1-D3) – **in progress**

**D1 “Implementation of activities”, D2 “Socio-economic impact”, D3 “Key performance indicators”**

Work on GHG emission, socio-economic impact and communication, dissemination indicators monitoring.

Initial, midterm, final monitoring reports.

Initial monitoring reports - currently under development.

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s communication activities (E1-E3) – in progress

### **E1 “Information”, E2 “Training”, E3 “Networking”**

#### Work Group “Scientific publications” (LUKE):

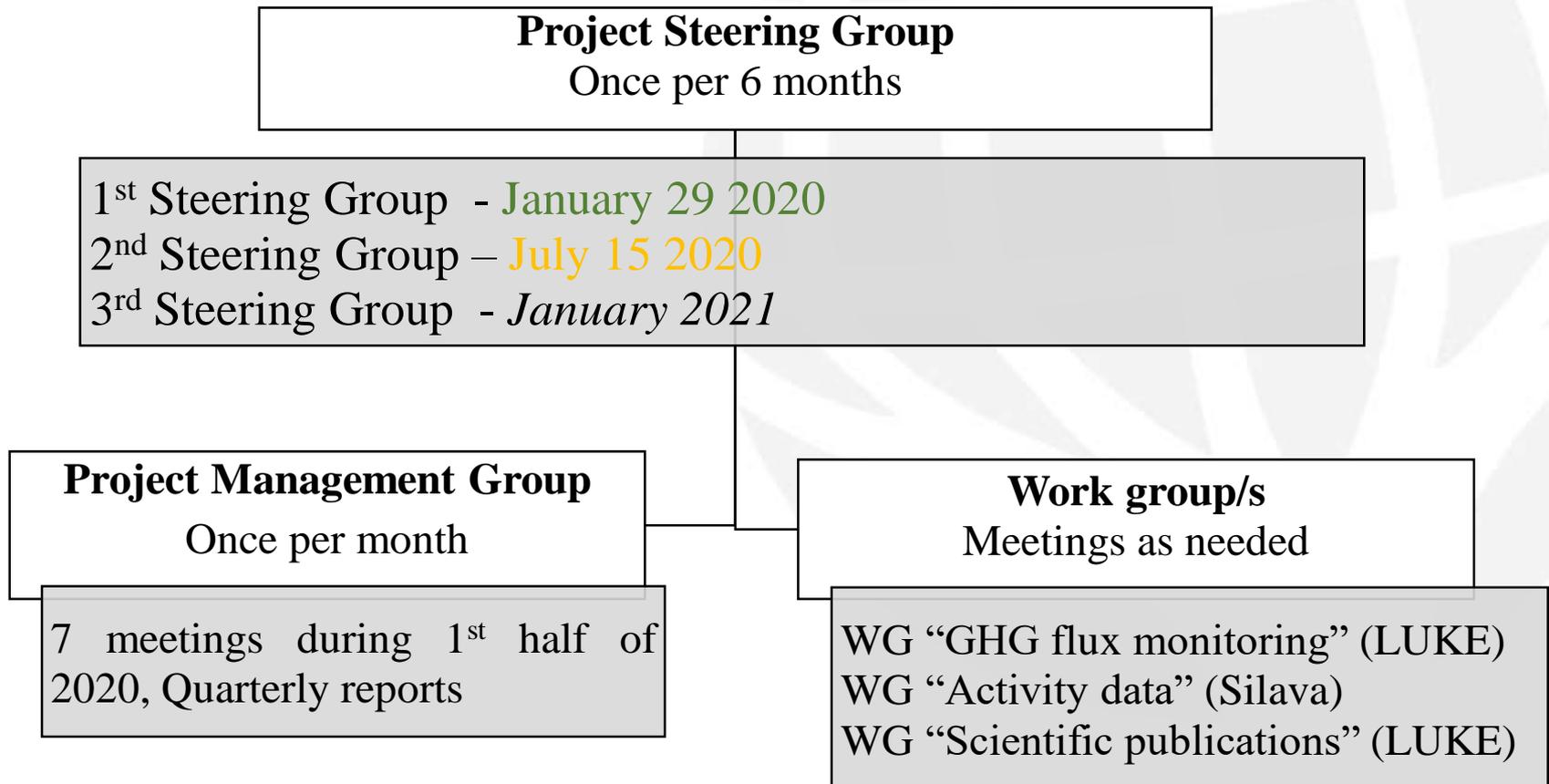
Manuscripts are discussed in two work streams:

- GHGs and carbon cycle (GHG monitoring techniques, environment characteristics & C-cycle & modeling)
- Climate change mitigation (social acceptance, CCM policies)

Work on planning of scientific articles (lead and contributing authors, scientific journals/conferences). Data basis of potential data sources (incl. unpublished data from previous research projects).

# Main activities since 1<sup>st</sup> Steering Group meeting

## Project`s management activities (F1) – in progress



# Thank you!



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