



LIFE OrgBalt progress and what`s next – overall view

3rd Steering group meeting
February 4 2020, MS Teams

Ieva Līcīte
LIFE OrgBalt coordinator
Latvian State Forest Research Institute
“Silava”

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”



LIFE
BALVA
2020

LIFE Orgbalt

Nozīmīgākais ieguldījums klimata pārmaiņu risināšanā.

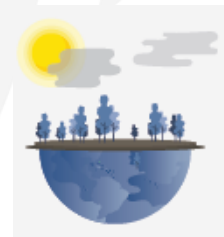
The most significant contribution to solving climate change issues!

Main idea and objectives

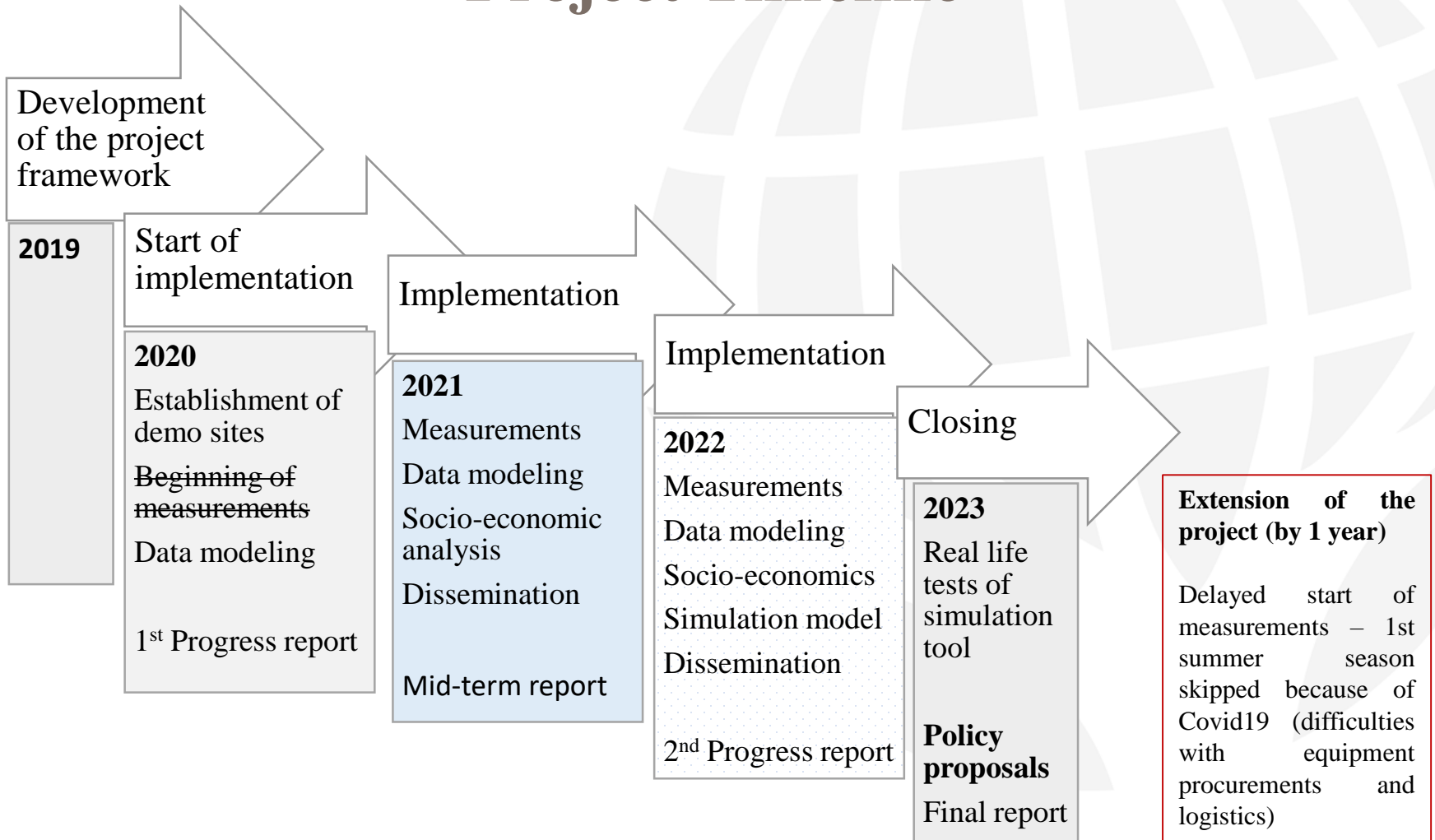
Idea: improve GHG inventory and demonstrate climate change mitigation measures on nutrient-rich organic soils to reduce GHG emissions from cropland, grassland and forest land management.

Objectives:

1. To improve GHG calculations for drained nutrient-rich organic soils by including project territory specific activity data and emission factors.
2. To identify and demonstrate sustainable and cost effective climate change mitigation measures.
3. To provide tools and guidance for the elaboration, implementation and verification of efficiency of climate change mitigation policies.



Project Timeline



Main activities since 2nd Steering Group meeting

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

Two possibly interesting reports/deliverables available at project website:

A.1/2 Report on current situation – **applied emission factors** and projections of greenhouse gas emissions from organic soils

A.1/3 Report on the identified **climate change mitigation targeted management practices** on organic soils

Main activities since 2nd Steering Group meeting

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

C1 “Filling knowledge gaps”

We are busy with:

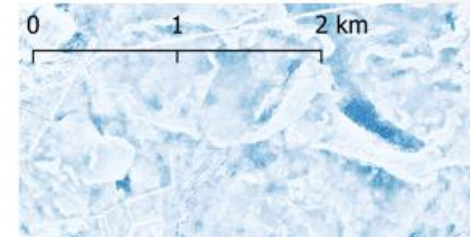
- GHG and environmental data measurements in project demo and reference sites.
- Agreeing on unified field protocols – site preparations, heterotrophic CO₂ flux monitoring, static dark chamber monitoring (incl. CH₄&N₂O), environment data (water & soil data), litter production and decomposition belowground, biomass production aboveground.
- Work on data storage and analysis system development - huge amount of data to be securely stored and analyzed.

This is activity where we are working on new regional GHG emission factors!

Main activities since 2nd Steering Group meeting

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

C2 “Modeling tools”



We are busy with:

- Investigating possibilities to adapt SUSI peatland simulator (originally created in Finland) for Baltic states to use it for calculation of GHG emissions after verification with data from project` field measurements.
- Depth to water and wet area maps generation for Baltic states to be used for organic soil data modeling and GHG projections

This is activity where we are working on improved data for GHG emissions modeling, calculations and projections!

Main activities since 2nd Steering Group meeting

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

C3 “Establishment of demo sites”

We are busy with:

- establishing of demonstration sites and preparation of explanatory materials about GHG mitigation measures to be demonstrated

16 demonstration sites in Latvia (13) and Finland (3) and 30+ reference sites in Baltic states. 11 demonstrations in forest land and 5 in agricultural land.



LIFE ORGBALT – DEMONSTRĀCIJAS VIETA | LIFE ORGBALT – DEMONSTRATION SITE

<p>LVC304 TAURINZIEŽU IZMANTOŠANA AUGU MAIŅĀ ARAMZEMĒ AR MELIORĒTU ORGANISKO AUGSNI</p> <p>Potenciālie ieguvumi no taurinziežu audzēšanas augu maiņā:</p> <ul style="list-style-type: none">■ N₂O emisiju samazinājums saistībā ar minerālmēsli izlietojuma samazinājumu un pakāpenisku, simbiotisku organismu nodrošinātu slāpekļa pievadi■ Augsnes oglekļa uzkrājuma palielināšana ar papildus biomasas ienesi	<p>LVC304 INTRODUCTION OF LEGUMES IN CONVENTIONAL FARM CROP ROTATION</p> <p>Potential benefits of legumes in conventional crop rotation:</p> <ul style="list-style-type: none">■ Reduced N₂O emissions from soil reported in agriculture sector because of avoided mineral fertilizer application and gradual nitrogen input by symbiotic organisms■ Increased carbon input with plants ensuring increased soil carbon stock
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This is activity where we are working on demonstrating cost effective GHG mitigation measures in practice!

Main activities since 2nd Steering Group meeting

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

C4 “Policy documents”

We are busy with:

- analysis of possibilities to include project knowledge in practical policy planning considering all latest turbulent climate policy developments

This is activity where we are working on finding the most appropriate ways and possibilities to make project results appropriately considered in policy planning!

Main activities since 2nd Steering Group meeting

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

C5 “Replicability tools”

We are busy with:

- elaboration of farm level simulation tool for modeling of socio economic and GHG mitigation effects of application of project GHG mitigation measures/strategies. What are costs, benefits, risks and do we need public support?
- Work has started to elaborate countries` level simulation tool – what would be socio economic outcomes and how climate change mitigation target achievement would be impacted if project measures are applied?

This is activity where we are working on convenient tools for organic soil management impacts modeling tools at farm and country level!

Main activities since 2nd Steering Group meeting

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

D1 “Implementation of activities”

D2 “Socio-economic impact”

D3 “Key performance indicators”

- On-going work on GHG emission, socio-economic impact and communication/dissemination indicators monitoring...

This is activity where we are working on monitoring ourselves 😊 - how hard working, effective and productive we are!

Main activities since 2nd Steering Group meeting

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

E1 “Information”

E2 “Training”

E3 “Networking”

- A lot of communication activities – Adelaide will impress you 😊
- Work on scientific publications in 2 work streams – GHG fluxes and climate change mitigation measures.
- Presentation of the project when ever and where ever possible 😊. To name some - 7th European Soil Partnership Plenary Assembly, CAP LIFE LAT informative event, annual thematic seminar organized by Latvian University of Life Sciences and Technologies (Faculty of Economics and Social Development).

This is activity where we are working on informing about our results and what we are doing and why!

Main activities since 1st Steering Group meeting

Project`s management activities (F1) – in progress

Project Steering Group

Once per 6 months

1st Steering Group - January 29 2020

2nd Steering Group – July 15 2020

3rd Steering Group - February 4 2021

4th Steering Group – July 2021

Project progress meetings

Two times per each 3 month period

8 meetings per year
Quarterly reports

Work group/s

Meetings as needed

WG "Measurements" (TU)

WG "Activity data" (Silava)

WG "Scientific writing" (LUKE)

WG "Economic analysis" (BC, LLU)

WG "Communication" (BC)

Importance of the steering activities

One of the main aims of the Project:

Impact national climate policy planning documents by implementing Project results..

Project results should be:

- widely discussed, understood and accepted;
- formulated in easily applicable format;
- transferable among countries and regions.

Steering Group engagement, expertise and feedback support all above mentioned!!

Thank you!



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The project "Demonstration of climate change mitigation potential of nutrients rich organic soils in Baltic States and Finland" (LIFE OrgBalt, LIFE18 CCM/LV/001158) has received funding from the LIFE Programme of the European Union and the State Regional Development Agency of Latvia.  www.orgbalt.eu

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