

Validation of the CCM measures and reporting of monitoring results (D.1.2)



LIFE OrgBalt: “Demonstration of climate change mitigation potential of nutrients rich organic soils in Baltic States and Finland” LIFE18 CCM/LV/001158
KICK – OFF MEETING

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*Ministry of Agriculture of Latvia
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Scope and involved partners



- Task D.1.2 is aimed on **elaboration of GHG emission reduction estimates in the demo sites**, monitoring of project implementation and elaboration of reporting documentation.
- Short-term effect of the applied measures will be evaluated using results of Task D.1.1 (*monitoring results during project implementation*); long-term effect will be estimated using results of Action C1 and C2 implemented in the scenario analysis model, which will be elaborated within the scope of Action C5.
- The main outputs – **initial monitoring report including monitoring guidelines, midterm monitoring report and final monitoring report.**
- Experiences gained and methodologies elaborated within the scope of LIFE REstore and other projects will be used in project monitoring guidelines.
- Responsible person at LSFRI Silava (*temporarily*): Andis Lazdiņš (andis.lazdins@silava.lv; +37 126 595 586); main contribution by LLU, UT, Luke, LRCAF.

Basic principles of estimation of the CCM effect



Initial status:

- 1) water regime
(*groundwater level and periodic changes*);
- 2) climate conditions (*air temperature, precipitation*);
- 3) nutritional regime (*N content, C:N ratio, N input*);
- 4) C input into soil (*plant residues, organic fertilizers*);
- 5) C stock changes (*living biomass, HWP, dead wood*).

Management measures:

- 1) changes in water regime;
- 2) reduction or increase of N or other nutrient input;
- 3) changes of vegetation type (*afforestation, conversion to grassland*).

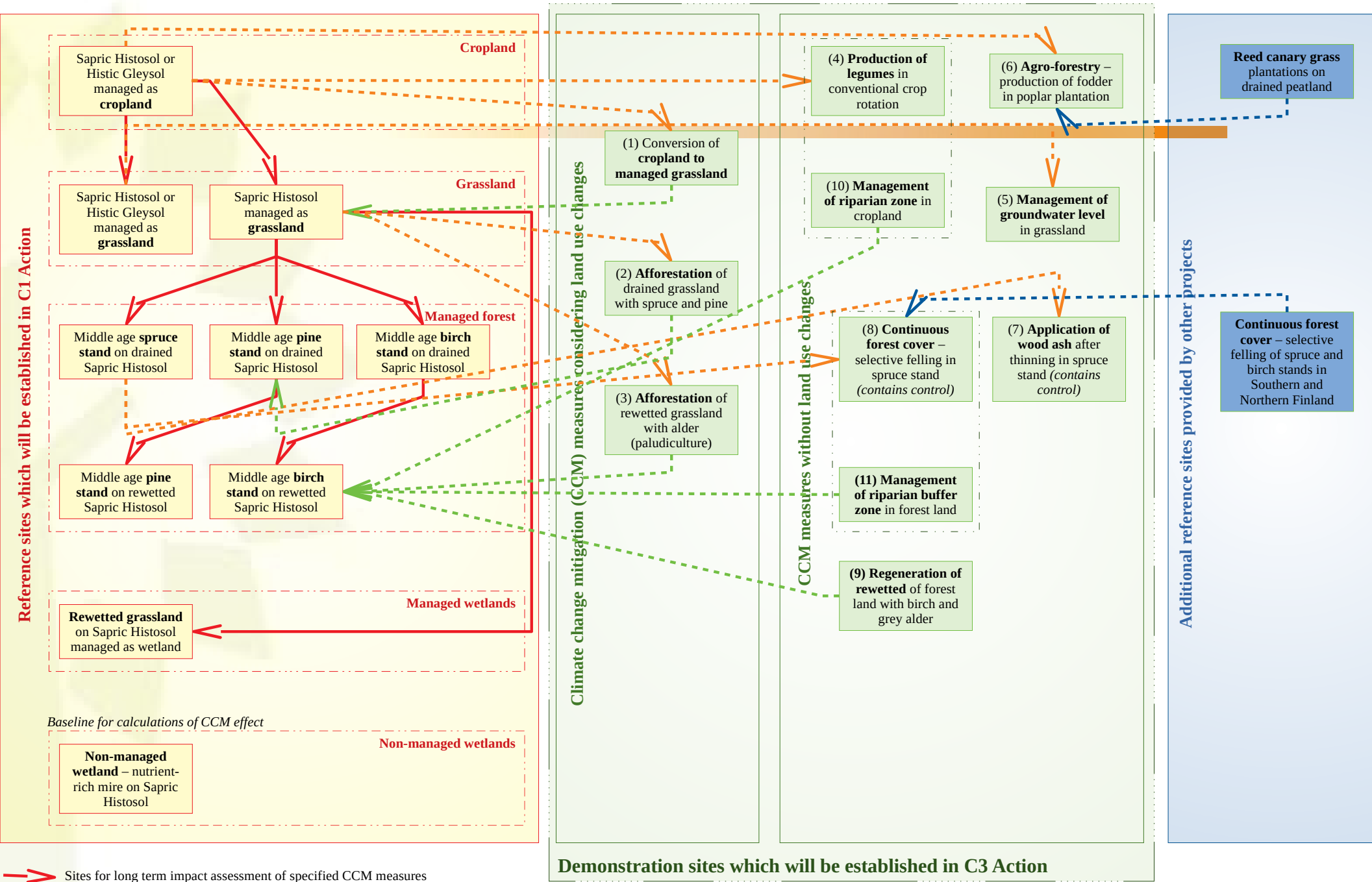
After transition period:

- 1) water regime
(*groundwater level and periodic changes*);
- 2) nutritional regime (*N content, C:N ratio, N input*);
- 3) C input into soil (*plant residues, organic fertilizers*);
- 4) C stock changes (*living biomass, HWP, dead wood*).

GHG emissions at initial status (GHG_1)

GHG emissions after transition period (GHG_2)

$$\text{GHG}_1 - \text{GHG}_2 = \Delta\text{GHG}$$



- Sites for long term impact assessment of specified CCM measures
- Contribution of additional reference sites (by other projects)
- Reference site for “starting point” for implementation of CCM measures in demo sites
- Reference site for “end point” (stable ecosystem) for implementation of CCM measures in demo sites

Measures are implemented in the same fields