

Where and who is measuring - demo and reference sites (C.1.1 and C.3)



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

October 24-25, 2019

*Ministry of Agriculture of Latvia
Republikas laukums 2-305, Riga, Latvia*

Lazdiņš Andis, Ieva Līcīte, Ainārs Lupiķis, Aldis Butlers
Latvia State Forest Research Institute “Silava”
Riga street 111, Salaspils LV-2169
Phone: +37 126 595 586, E-mail: andis.lazdins@silava.lv



Latvia University
of Life Sciences
and Technologies



LITHUANIAN
RESEARCH CENTRE
FOR AGRICULTURE
AND FORESTRY



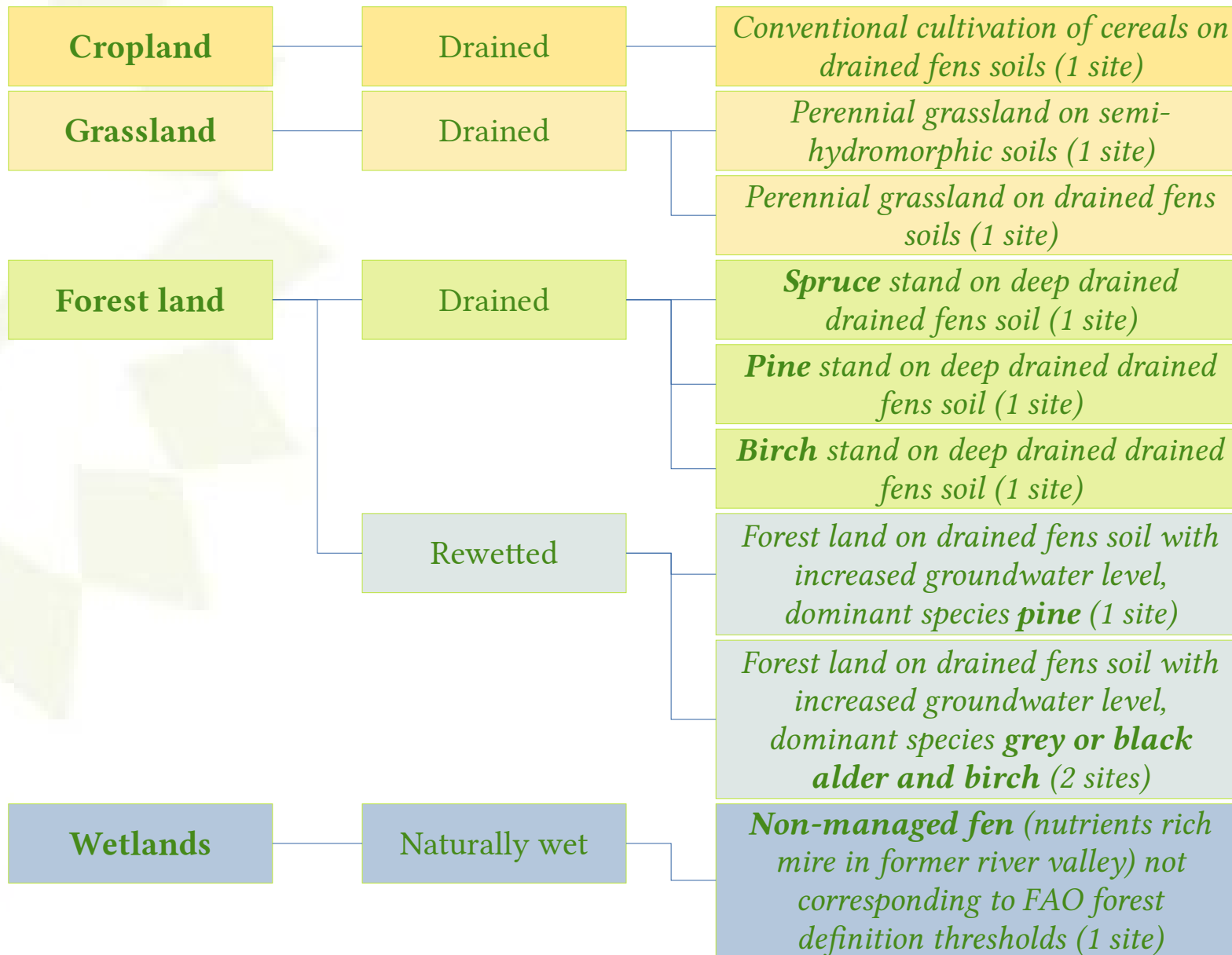
Partner in the

Scope and basic principles (C1.1)



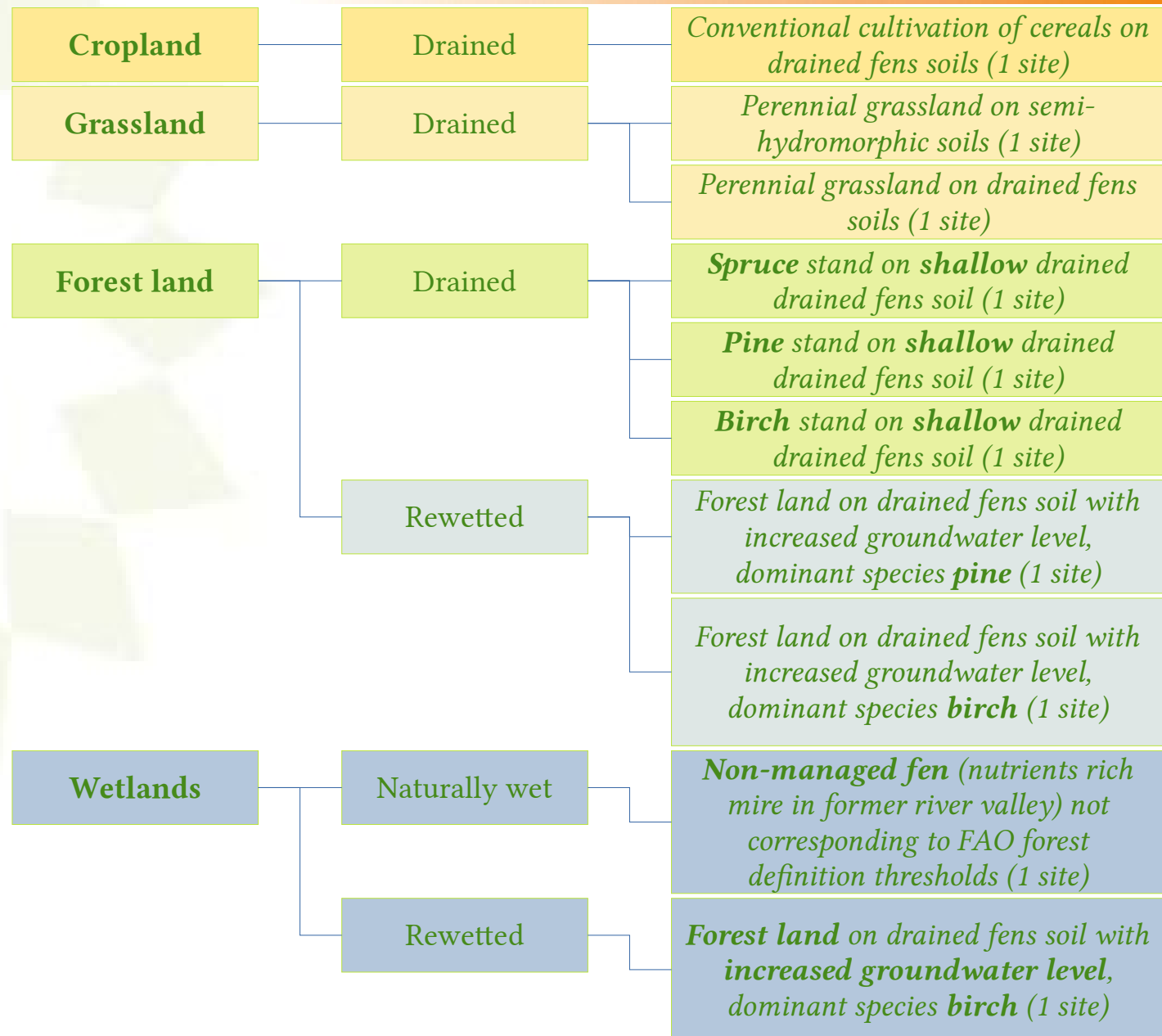
- Elaboration of climate sensitive EFs for CO₂, CH₄ & N₂O and evaluation of whether screening of soil chemistry and microbial properties can aid in explaining the variation in emissions. *Flux measurements will focus on the Baltic States.*
- GHG fluxes will be measured by closed chamber method.
- Litter inputs will be measured using litter traps, herbaceous biomass will be collected and analysed to determine C-input. Litter decomposition will be estimated by the litterbag method.
- Live fine-root biomass will be determined at a peak time. Fine-root production will be measured by the ingrowth core method. Fine-root turnover will be estimated as the ratio of production to biomass.
- Soil temperatures and water-table level will be monitored continuously by data loggers, and during gas flux monitoring events.
- Responsible person at LSFRI Silava: Ainārs Lupiķis (ainars.lupikis@silava.lv; +371 28 923 343). The main responsibility – Luke.

C1.1 measurement sites in Latvia



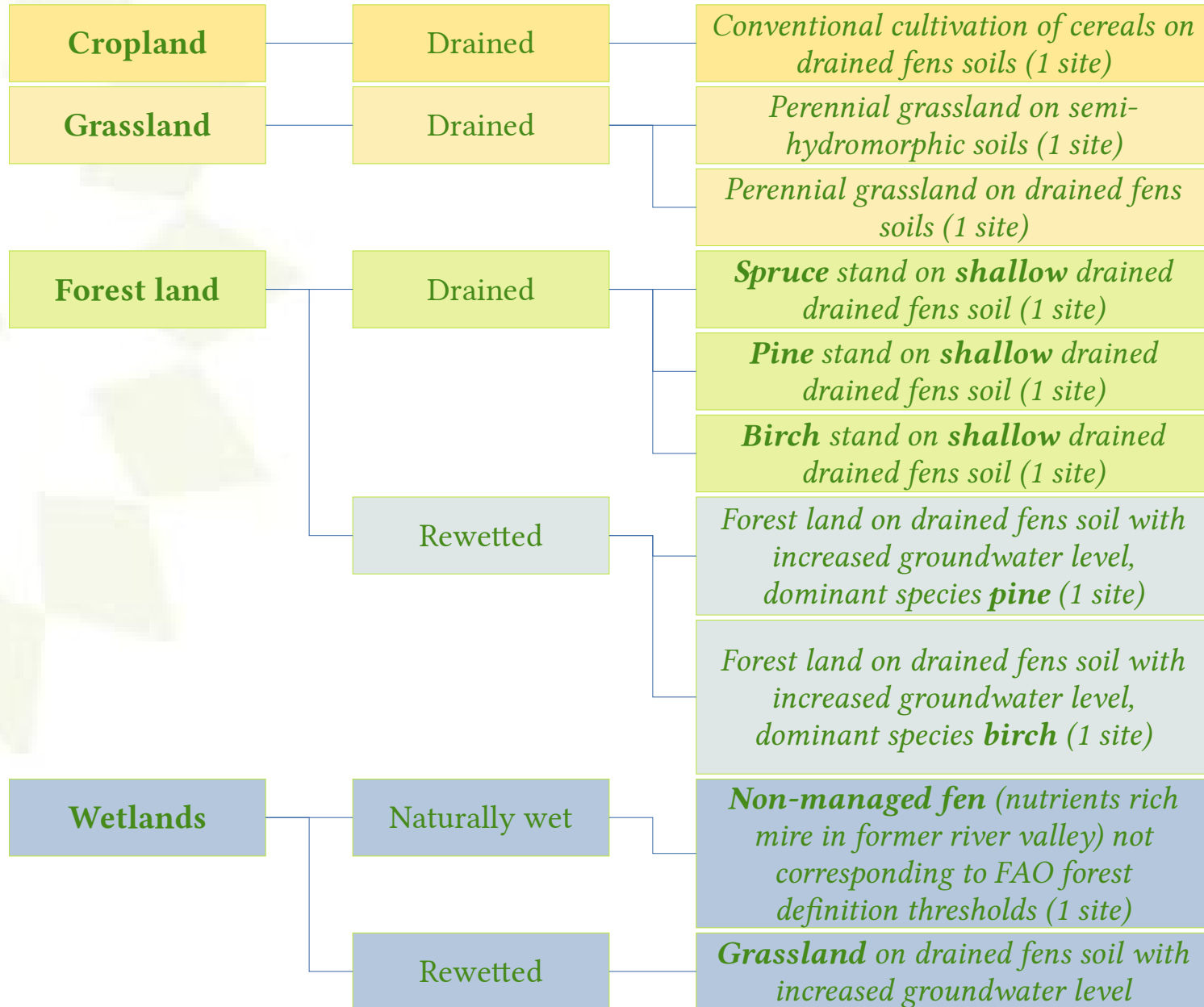
In total 10 measurement sites, 24 months of continuous measurements

C1.1 measurement sites in Estonia



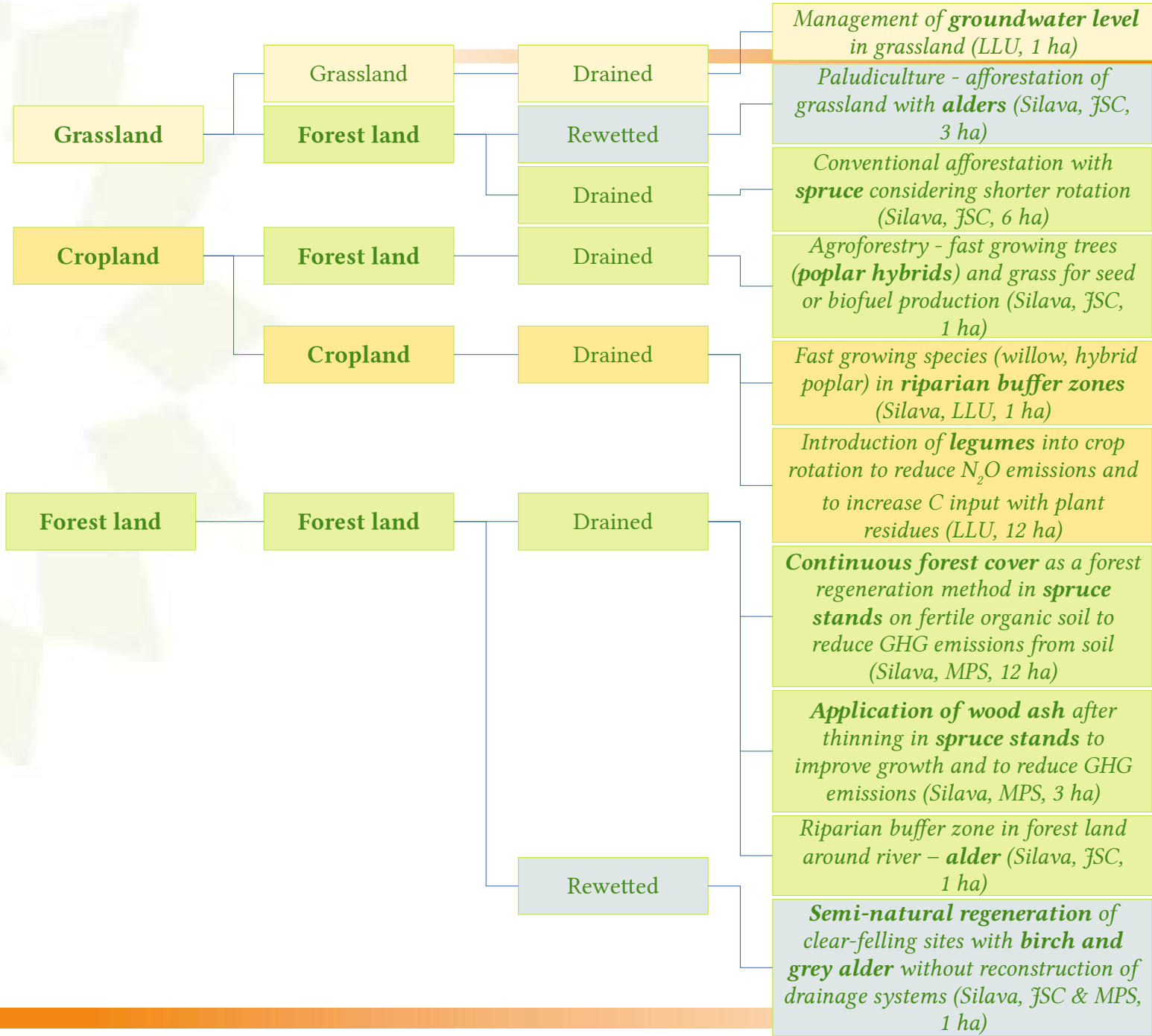
In total 10 measurement sites, 24 months of continuous measurements

C1.1 measurement sites in Lithuania



In total 10 measurement sites, 24 months of continuous measurements

C3 demo sites in Latvia



In total 11 demo sites and 25 measurement sites, 24 months of continuous measurements

Why, how, when



- Measurements & sampling in C.1.1 in Estonia by UT, in Lithuania – by LRCAF, in Latvia – by Silava & LLU.
- Measurements & sampling in demo sites (C.3 in Latvia) by Silava & LLU.
- GHG analysis from C.1.1 and C.3 sites by UT on a monthly basis.
- Soil and water analyses from C.1.1 and C.3 sites by Silava.
- Duration of measurements 24 months; in demo sites – since implementation of measures where possible.