



Climate change mitigation targeted management practices on organic soils – summary of Life OrgBalt project sites

Implementation of climate change mitigation measures in selected demo sites – demo sites in forest land

2nd Steering group meeting

Date: July 15th, 2020

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



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The scope of establishment of demo & reference sites

*Elaboration of **activity data** for accounting of GHG emissions and CO₂ removals in organic soils in the **National GHG inventories** and methodologies for modelling of activity data for the **projections of GHG emissions***

*Elaboration **emission factors** for **nutrient-rich organic soils** in **forest land, cropland, grassland and wetlands** under conventional management conditions*

*Evaluation of **impact of the proposed climate change mitigation measures** on GHG emissions from nutrient-rich organic soils*

*Data support for **development and verification of GHG modelling solutions** for organic soils*

*Demonstration of **reduction of GHG emissions from nutrient-rich organic soils** by implementation of mitigative measures*

*Establishment of demo site for further **training, education and monitoring purposes***

Two step verification procedure of impact of the measures implemented in demo sites

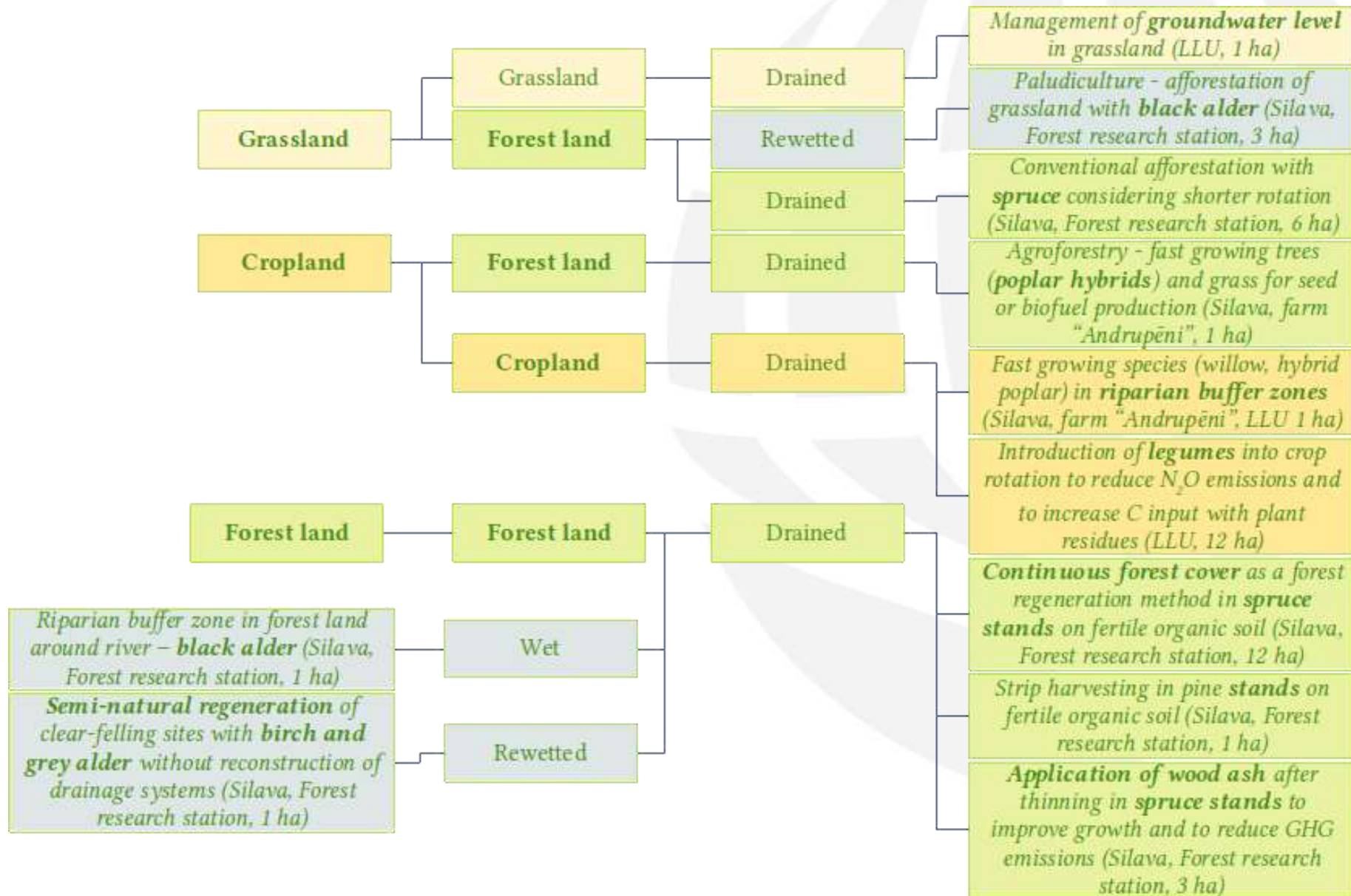
Reference site at steady stage before implementation of the measure, e.g. conventionally managed cropland with nutrient-rich organic soil

Demo site representing GHG fluxes directly before and after implementation of the measure, e.g. afforestation of cropland with nutrient-rich organic soil

Reference site at steady stage after implementation of the measure, e.g. forest stand with nutrient-rich organic soil

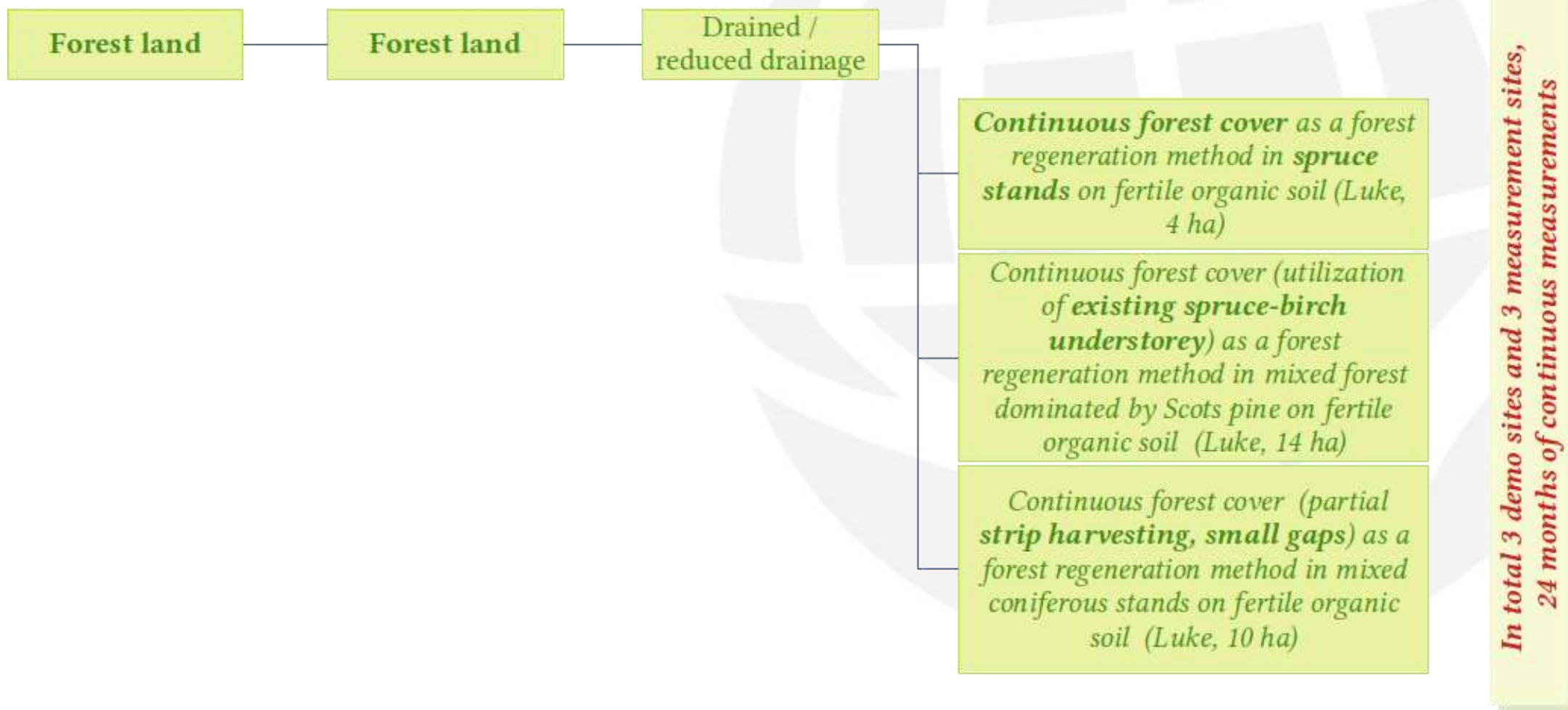
Long term monitoring of GHG fluxes to evaluate GHG emissions during the transitional stage

Demo sites in Latvia

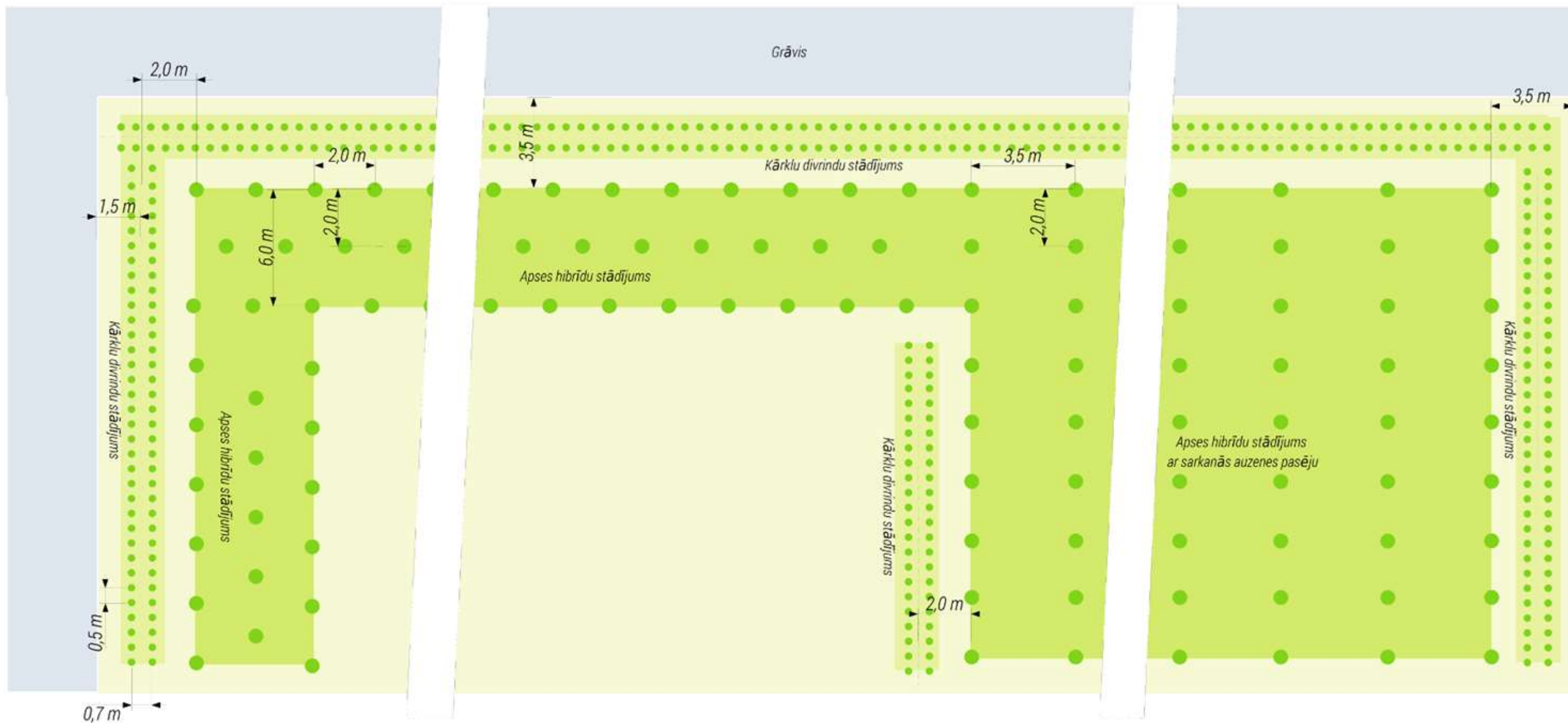


In total 11 demo sites, 24 months of continuous measurements

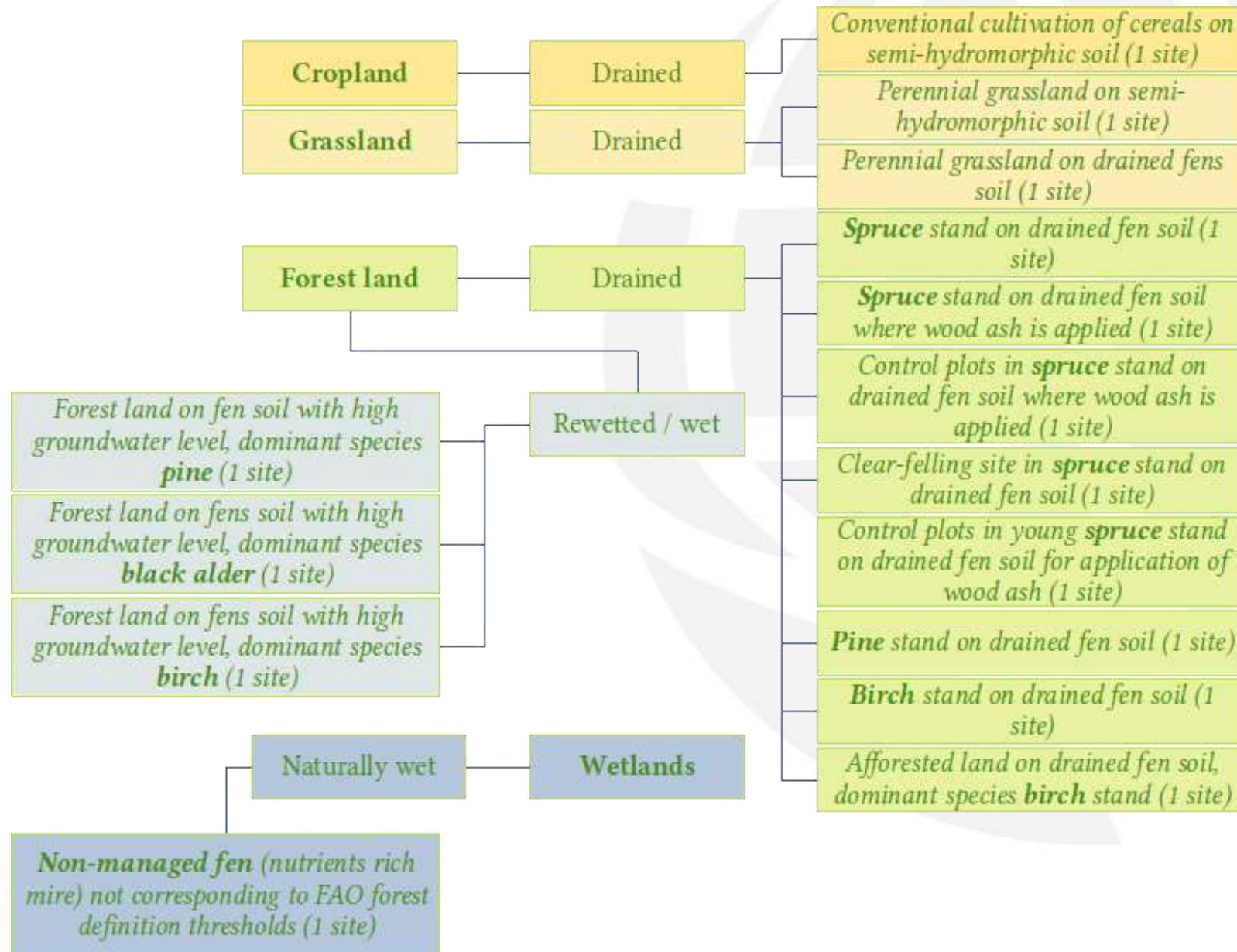
Demo sites in Finland



Example of demo field design in cropland – agroforestry, conversion to grassland, buffer zones

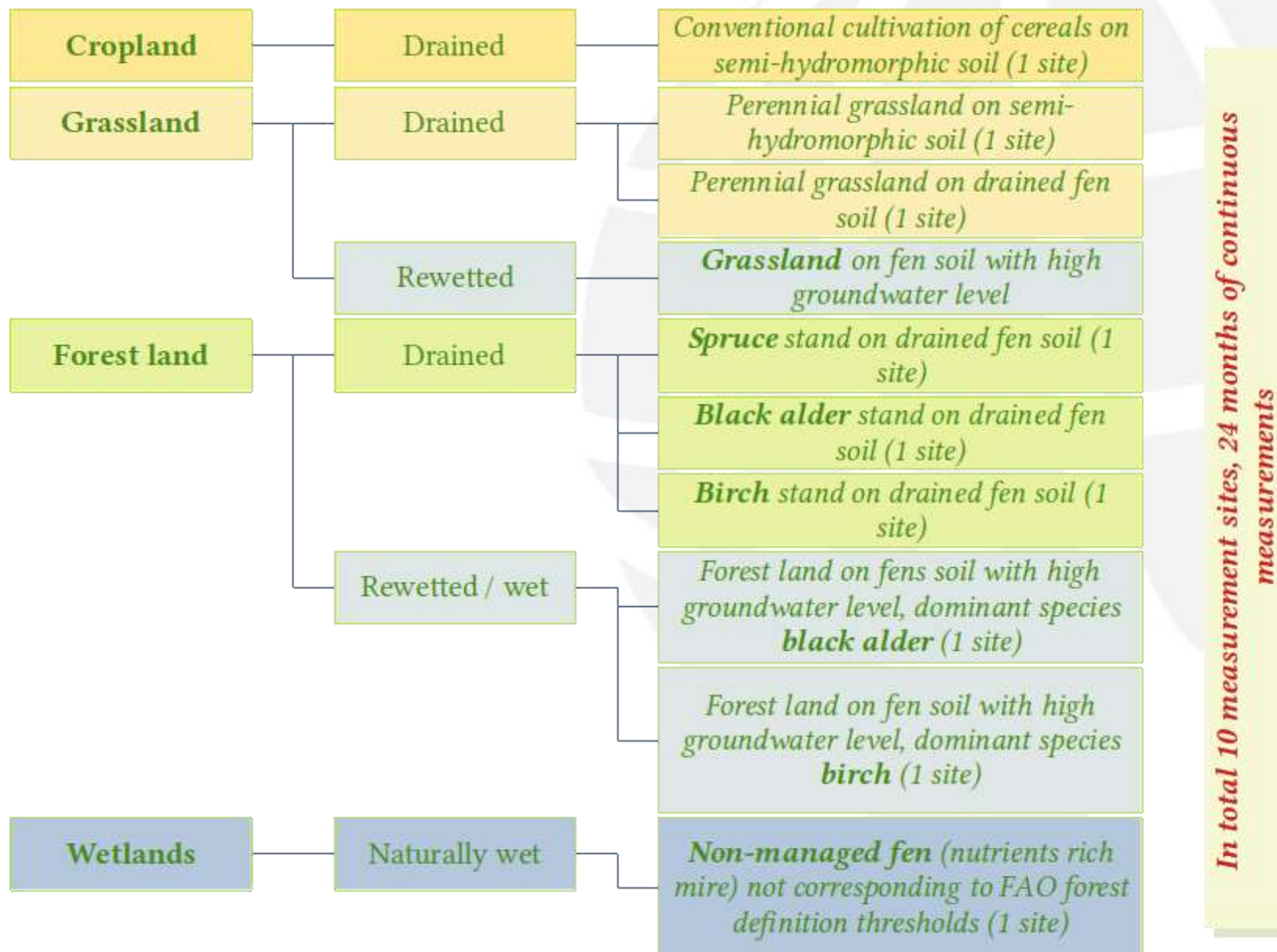


Reference sites in Latvia

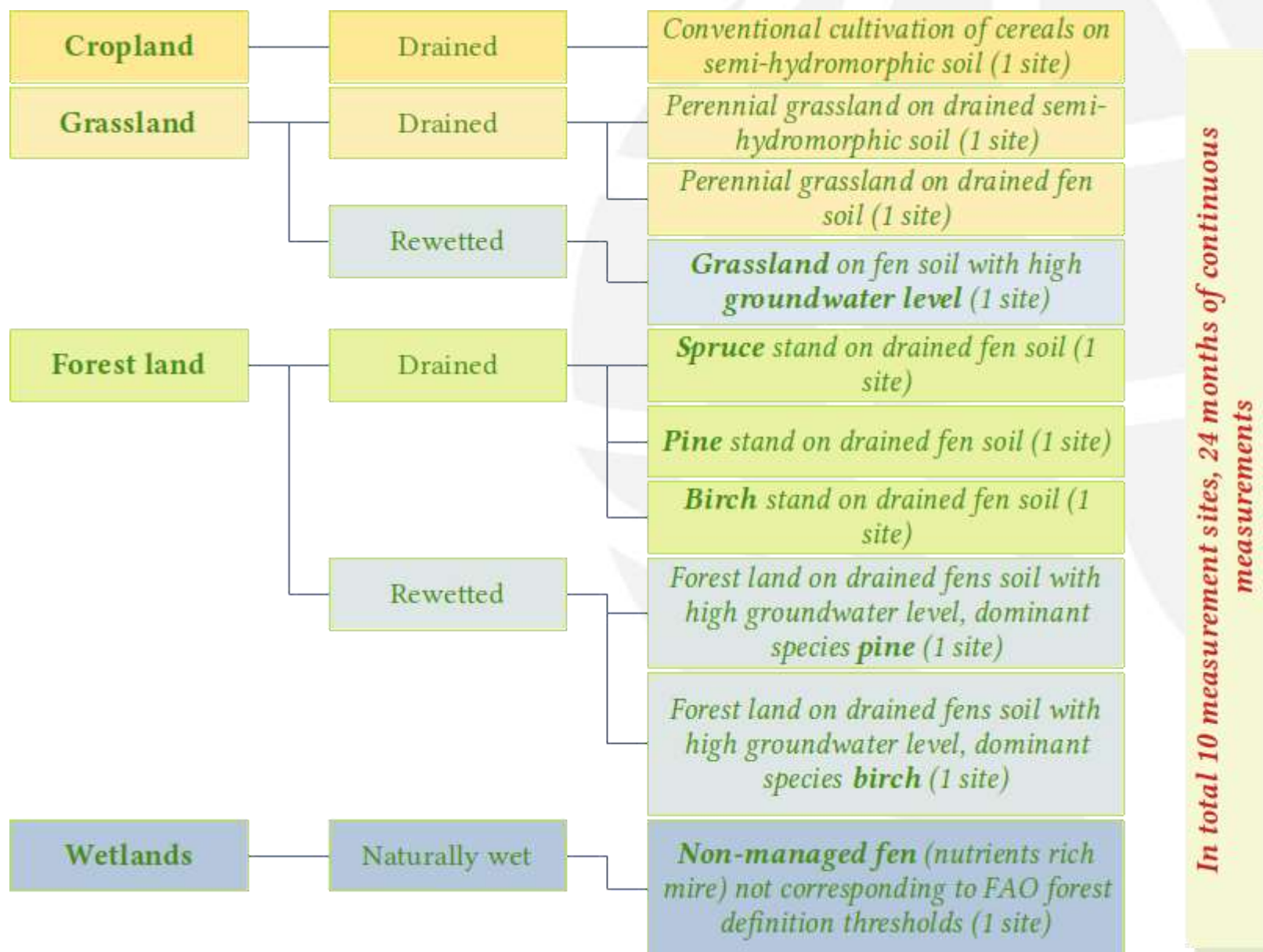


In total 15 measurement sites, 24 months of continuous measurements

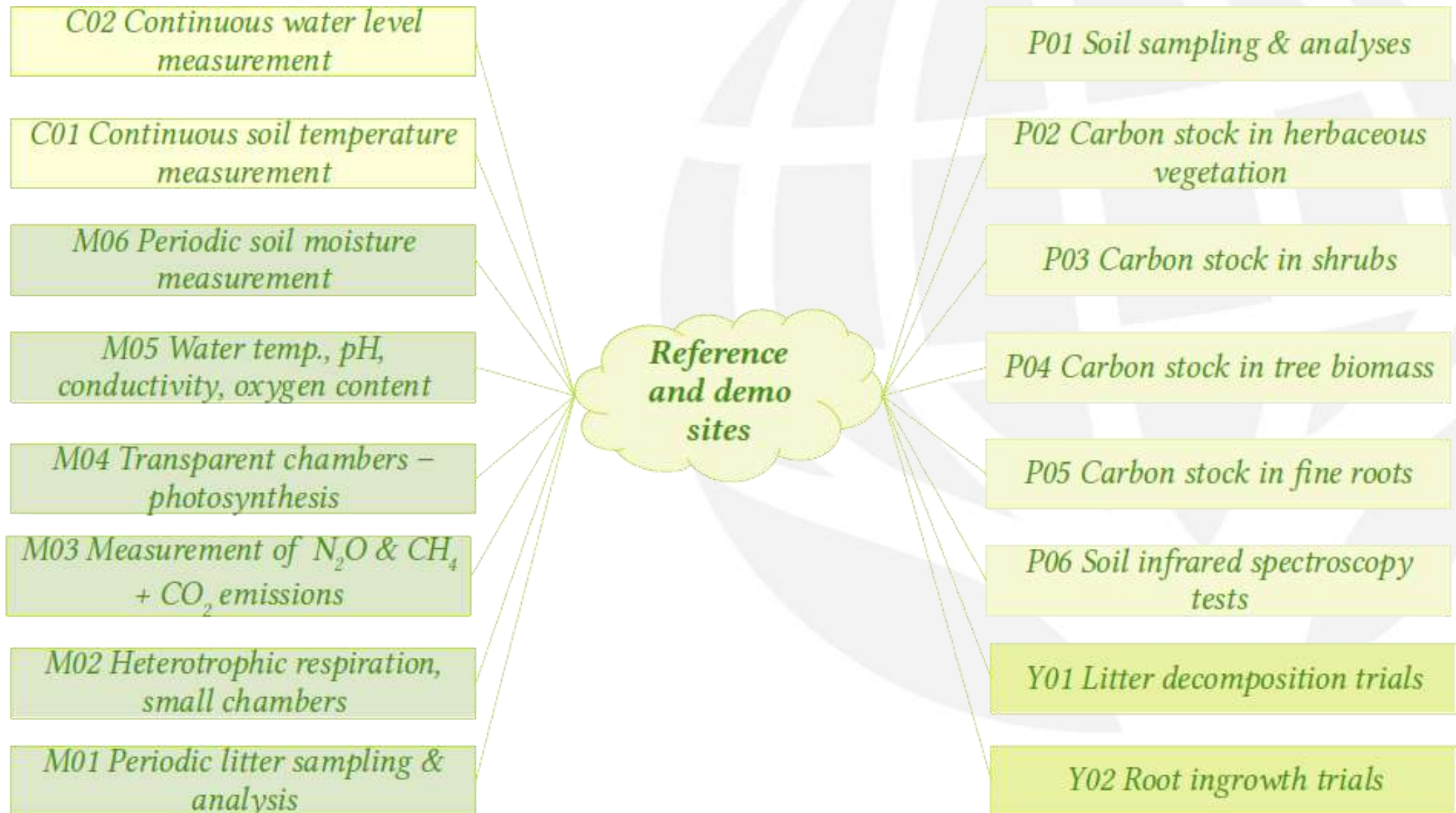
Reference sites in Lithuania



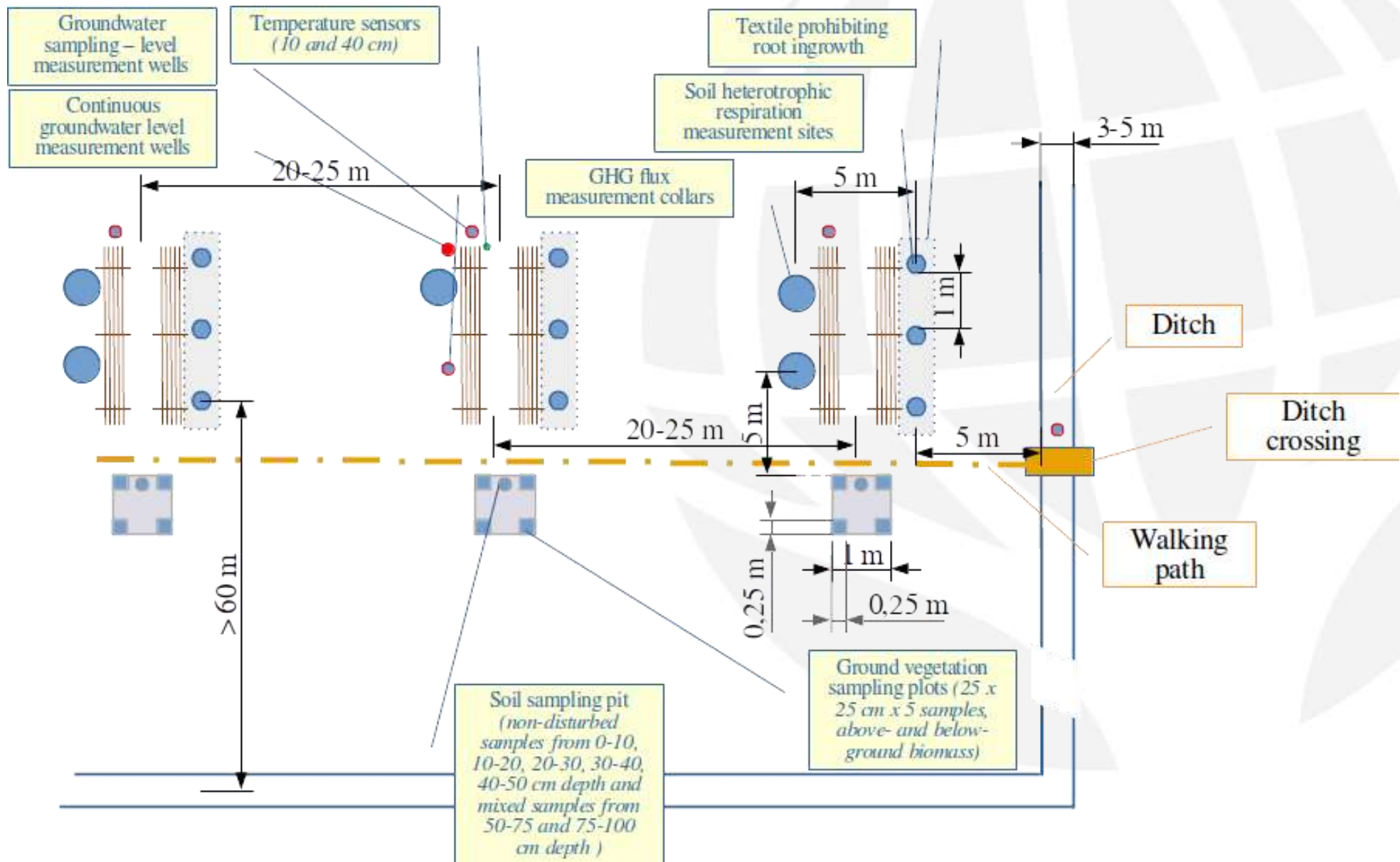
Reference sites in Estonia



Measurement procedures in reference and demo sites



Example of the measurement site design – cropland & grassland



Thank you for attention!



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