

Development of the National System for Greenhouse Gas Inventory and Reporting on Policies, Measures and Projections

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The implementation of study “Improving the management of sustainable land resources through creation of a digital soil database” is completed (Latvia University, Latvia University of Agriculture, total amount: EUR 516 503).

✓ Currently the final reports are being prepared and the last payment will follow.

✓ The study was focused on scanning, georeferencing and digitalizing of soil maps, and attraction of geodesic coordinates to the soil boreholes.

✓ The report on Histosol soils within the context of Latvian soil classification and report on organic soils in the context of GHG emission calculation was prepared by Latvia University of Agriculture.

*The implementation of study “**Evaluation of soil carbon stock in the arable land and grasslands**” is completed and the last payment has been transferred (Latvian State Forest Research Institute "Silava", total amount: 50 492 EUR).*

The study focused on measurements, calculations and analysis of soil carbon stock in the top layer of arable lands and perennial grasslands. It was recognized that there is no statistically significant difference in the stock of carbon in various lands, thus in case of transforming arable lands to grasslands or vice versa, the CO₂ emission coefficient remains “0”.

*The implementation of study “**Designing of GHG emissions calculation methodology and modeling tools in agricultural sector, integrating climate change**” is completed, reports for 4th, 5th periods as well as the final report are completed (Latvia University of Agriculture, total amount: 240 342, 30 EUR).*

✓ In the framework of the first sub-project, the information on the apportionment of livestock manure management systems of Latvian livestock species and groups was obtained, as well as the content of nitrogen within the livestock manure was specified. A method of determination of manure management system distribution was developed.

✓ In the framework of the second sub-project, the chemical composition of nourishment in conventional and organic cattle farms and pig farms was explored and the digestibility was assessed with the method of calculation.

✓ In the framework of the third sub-project, the development indicators forecasting information system for agricultural sector was developed. The system is based on a dynamic model and allows to assess the amount of GHG emissions.

The study "Improvement of the quality control and quality assurance system for the land-use, land-use change and forestry sector" is completed and all payments are transferred.

The study resulted in the development of quality control and quality assurance system which is compliant to the 2006 IPCC Guidelines (Latvian State Forest Research Institute "Silava", total amount is 12420 EUR).

Thank you!