

One-page expertise description

Organisation	Institute of Pedology, Agrochemistry and Soil Protection "Nicolae Dima"
Address	MD2070, Moldova Republic of, Chisinau, str. Ialoveni, nr. 100
Type of partner	University, Research Centre, Large Company
Website	

Contact person	Dr. Leonid Popov
Email	Leonid_popov@yahoo.co.uk
Telephone	+373 22284844; +37379436092
Position	Senior Researcher

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Topic(s) of interest:

WATER-2-2015: Integrated approaches to water and climate change

_ develop integrated strategies and approaches, at different spatial scales (regional, national, continental, global), integrating resource efficient land use, agricultural productivity improvements, sustainable water management and low carbon energy transition and analysing interactions with the existing regulatory frameworks in these areas and the potential barriers to implementation.

Headline:

Development and implementation of framework system to ensure optimization process for prevention, mitigation and monitoring of soil erosion.

Potential contribution:

The main concept of the project is the development and application of a framework system to optimize process for estimation, prevention, mitigation and monitoring of soil erosion located on the slopes in vine groves and field crops - a major socio-economic problem, high vulnerability of agro-ecosystems and soil security of Moldova.

Relevance of the project is that the framework system application provides for the establishment of the database which will include hydrological indicators, positioning in space of areas with eroded soil, position in space of the slopes, calculated indicators of erosion hazard. All this will allow as knowing in advance the power of action of rainfall on different soil types, in different relief conditions

This will help to increase the safety the soil from Moldova / EU regions. The complex spatial information are required and recommended for the formulation and implementation of environmental policies for both communities in the EU and Moldova, which are clearly defined in Directive INSPIRE (2007/2/CE)

Laboratory of Erosion Control has knowledge on the currently existing prevention of soil degradation methods and is also involved in the national scientifically initiative, together with State University of Moldova, State Agrarian University of Moldova and Sciences Academy of Moldova. This initiative aims to lead and developing an internationally common accepted methodology for prevention, mitigation and monitoring of soil erosion. Apart from knowledge on the existing methods, laboratory of Erosion control has **operational expertise in management** of soil quality and agriculture on the eroded soil in general and in particular for **geoinformational monitoring**, and possess **data** related to soil quantity.

References: