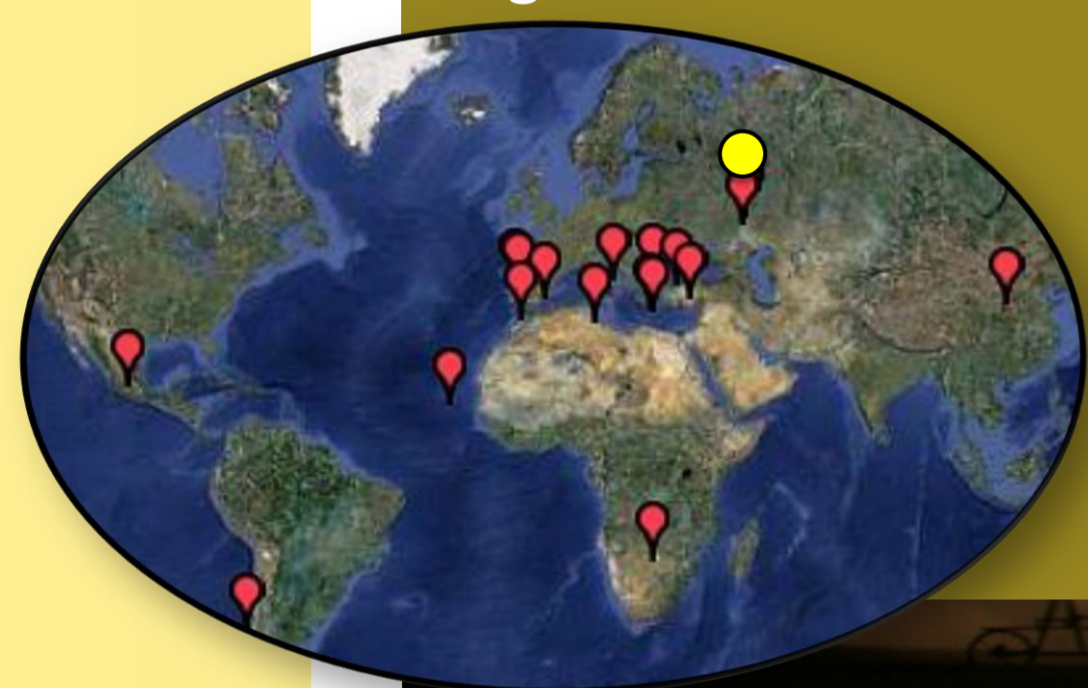


Remediating Desertification in Novy Study Site (RUSSIA)



Soil depletion and soil secondary salinity as well as pollution of local water bodies by nutrient are the main socio-environmental problems at Marksovsky District of Saratov Region (Russia). They are mainly caused by the use furrow irrigation that is inappropriate to local soil and inadequate management of sprinkler irrigation.



Priority Remediation Strategies

Both priority remediating strategies were selected with aim to cope with growing regional problems linked to soil secondary salinization and depletion due to inappropriate to local soil property technologies .

Drip irrigation was selected for testing/adaptation at agro farm level promoting minimal irrigation water percolation to groundwater as well as zero discharge to downhill water bodies.

After obtained project results it is shown that drip irrigation:

- is appropriate to local soil;
- consume in 3-6 time less water by comparison with furrow irrigation.

To appropriate existing sprinkler irrigation systems to the actual knowledge of its negative impact on agricultural lands a eco-innovative technology based on the application of spacio-variable irrigation dozes within the field was elaborated and tested.

Rank	Remediation Strategy
1	Drip irrigation of vegetables at agro farm level
2	Green manure
3	Drainage of irrigated agricultural fields
4	Phytoreclamation of soil secondary salinity at agricultural fields



Next Steps

- Dissemination of final workshop results in local newspaper (October 2011)
- Report on results of final project (October 2011)
- Presentation of DESIRE project results at meeting of Federal level Date (Moscow, November 2011) with aim to promote drip irrigation supporting at household use

Promoting Remediation in Marksovsky District

After expert discussion to promote at agro farm level of Marksovsky District the use :

- of drip irrigation against furrow irrigation regional and local administrations should modify politics of financial subsidies for vegetable irrigation;
- of eco-innovative sprinkler irrigation technology an accent should be put on the development of human resources and technical infrastructure enabling the operational management of irrigation at each field and hole irrigation system.

Key Policy Messages

An introducing of innovation irrigation technologies into practice should be supported by corresponding financial measures and investment politics into training and infrastructure.



Feedback

Workshop participants appreciated with high quotations results of both final workshop and DESIRE project at Novy study area: