



A framework for the ecological rehabilitation of degraded soils in Eastern Romania

Geanina Bireescu (1), Giuseppe Lo Papa (), and Carmelo Dazzi ()

(1) Institute of Biological Research, Department of Experimental and Applied Biology, 47 Lascar Catargi Steet, 700107 Iasi, Romania (bireescugeanina@yahoo.com), (2) Dipartimento di Scienze Agrarie e Forestali - Università di Palermo, Viale delle Scienze, Ed. 4 - 90128 Palermo, Italia, (3) Dipartimento di Scienze Agrarie e Forestali - Università di Palermo, Viale delle Scienze, Ed. 4 - 90128 Palermo, Italia

In the last 20 years, particularly in the Eastern part of Romania, anthropogenic unreasonable and aggressive actions corroborated with soil water erosion, accentuated the processes of environmental degradation and decreased the productive potential of the soils.

This research starts from the practical necessity to increase the functional efficiency of these soils, through the assessment of the risk factors, for diminishing the negative impact of degradation. The target is to develop a Sustainable Management Plan based on a general matrix description of the environmental factors in the Eastern part of Romania, to intervene (in terms of scientific, technological, administrative-economical and managerial aspects) for the ecological rehabilitation of the soils. Thus, the research has an applicative character, establishing the measures for decreasing soil vulnerability to degradation and increasing the soil resilience.