



ABSTRACTS

12. Ioan STOIAN, Vasile NACU, Dan VELE: **CARTOGRAPHIC EXPERT SYSTEM FOR SUSTAINABLE DEVELOPMENT OF THE ADMINISTRATIVE TERRITORIAL UNITS (ATU)**

In order to realize the activity of setting up the expert system for sustainable development, the exploitation of risk maps in order to prevent natural disasters (floods, earthquakes, landslides, droughts, extreme meteorological phenomena, etc ...) in the pilot area, all started from the construction of a graphic database including descriptive information on the studied phenomena. These databases are correlated and operate within a GIS application. Cartographic data are geospatial and alphanumeric data contain the characteristic information for each type of natural risk that has been studied. Alphanumeric data refers to three categories of parameters: favorable to trigger natural disasters, to establish the vulnerability rate of the predisposed areas, and for prevention. The general objectives of the project were the realization of a system available to local and central authorities able to respond to the sustainable development principles and to the requirements of the population concerning protection in case of natural disasters as well as to reduce the material damage due to them. The specific objectives of the project are characteristic concerning the sustainable development and environmental protection. Experimental data regarding the history, periodicity, magnitude and consequences of various natural disasters as well as human and material damages produced by them are correlated with simulations of their repetition, in order to highlight the increased risk on which they are exposed to: the population, the infrastructure and the environment, and as final factor, the possibility of timely information, in order to take relevant measures, decision makers at local and central level.

Organisers



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Partners



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