

## Abstract

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The project development aims to create an optimum framework for analysis, for experience exchange with end-users and stakeholders, good practice in the management domain and for strategic decision processes for efficient intervention at extreme risk events, in order to limit the consequences and re-establish the order and functionality. The comparative analysis of processes, economic-financial mechanisms and quantitative evaluation of efficiency methods of the governmental intervention, restraint of repercussions and re-establishing normality, all these base on advanced mathematic models, including personal models, specially conceived for this project. The analysis of the research present stage in the crisis management domain takes into consideration the integration and actualization of historic database regarding natural disasters and technologic accidents and comparative analysis of management methods, respectively, learning on behalf of others inefficiency and of deficiency governmental intervention concerning natural disasters. The system that ensures an efficient crisis management bases on development of especially created models for Romania's conditions and allows the analysis of decisions ration, respectively their optimizing according to the concrete situation.

The projecting of the public-private partnership for diminishing the disasters' effects is a challenging action and begins with the efficiency of the government intervention mechanism and risk transfer throughout the instruments of the capital market. The personal contribution consists in: development of interdependent security general model (ISGM), integration of the value at risk method (Var) and extreme value theory (EVT) within the dynamic finance analysis (DFA), realization of projecting the framework for some innovative financial products, including projecting the public-private partnership, elaboration of a model in order to solve the variable intensity rare disasters problems (VIRDP); all these contribute to increase the correlation between the research programs and adapting the objectives to this new major interest domain both on national and European level. The project contributes to the efficiency use of human resource and valuable materials throughout the optimising of information exchange (an extended portfolio for dissemination), identification, concentration and optimal use of resources.