

PERSENVIR

INTEGRATED STUDIES ON THE BEHAVIOUR OF PERSISTENT POLLUTANTS AND RISKS ASSOCIATED WITH THEIR PRESENCE IN THE ENVIRONMENT

Research Grant no. 132 / 2007 of Idei Programe PNCDI-II, Project ID _595

The research project is conceived within the PNCDI-Ideas Program, being an exploratory research project oriented through generation of knowledge for enhancing the contribution of Romanian scientific research to establishment of a solid base of applicative research and technological development by innovative ideas and by formation of highly qualified researcher. At the same time, the international excellence and visibility are considered by approaching some advanced researches that are interdisciplinary and complex in a field where Romania has a research potential and where a series of results that are comparable to that from European Union were achieved.

Project objectives:

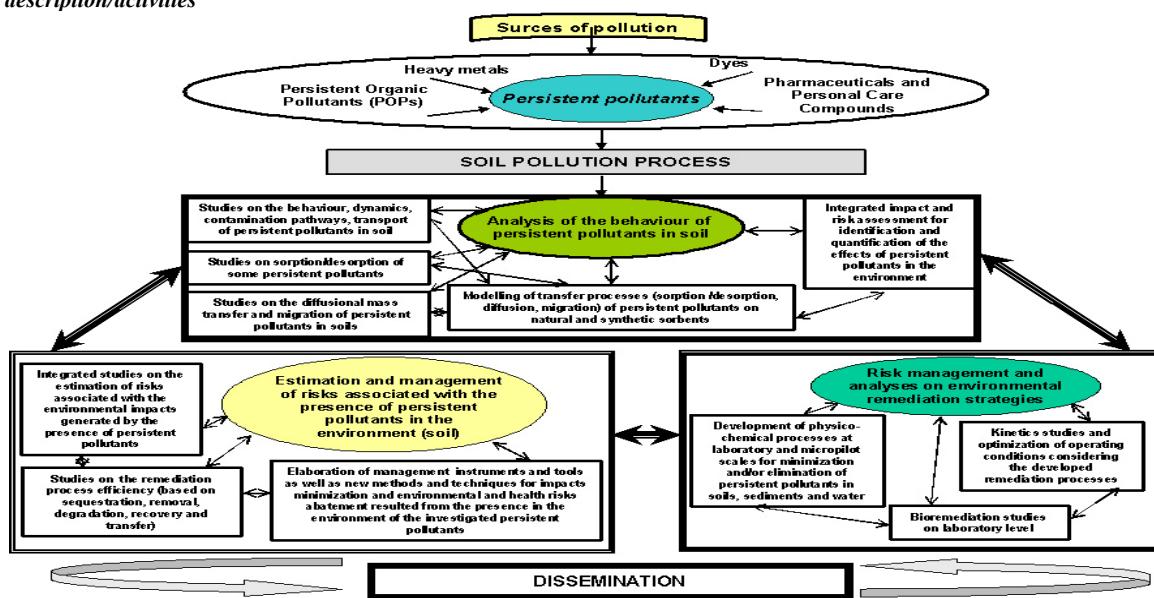
Main objective:

The project aims to contribute to a deep understanding of the environmental behaviour and effects of persistent pollutants (PCs), through elaboration and performing of experiments in the view of development of quantitative relationships and models on their fate, transport and behaviour and on the remediation alternatives of environmental components affected by pollution. The research as well as information on the ways to evaluate the risks associated with the impacts induced in the environment by PCs presence in various environmental matrices will combine both analytical methods and multivariate modeling. Based on experimental and calculated data, methods for various pollutants characterization and ranking will be developed, which facilitate the risk assessment process as well as the decisional process for risk management and remediation of the environmental components affected by the contamination with persistent pollutants.

Specific objectives:

- examine physical, chemical, and biological processes resulting in the migration of persistent pollutants through the individual environmental compartments
- describe chemical, physical, and biological parameters affecting the mobility of PCs in the environment,
- describe and possibly explain observed spatial patterns and temporal trends in the fluxes, concentrations, and relative compositions of various persistent contaminants

Project description/activities



For more information on the PERSENVIR Project, please visit: <http://persenvir.xhost.ro>

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