



*This project
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The NATO Science for Peace
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Development of a Decision Support System for reducing risk from environmental pollution in the Bosna River

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Scientists from Slovakia and Bosnia & Herzegovina started in June 2011 to collaborate on the development of a Decision Support System (DSS) in the form of a comprehensive guide for any water management and implementation of the European water policies, allowing identification of major risks related to environmental pollution in the Bosna river basin and proposing a technical solution for the reduction/removal of the pollution. The DSS is being developed for the control of the WFD Priority Substances and can be applicable to any chemical substance where a limit value in the form of a concentration has been set. A unique approach for the prioritisation of the Bosna River specific substances will be applied. After a thorough screening of all points and diffuse sources of pollution in the basin using state-of-the-art analytical techniques, the toxicity of identified individual compounds will be determined by the novel computer modelling technique. Substances frequently occurring in the water environment at concentrations exceeding the limit values will be ranked as Bosna River Priority Substances. The Bosna River will be the first river basin in Europe where this approach is applied and the developed DSS will be proposed for replication in all other river basins in Bosnia & Herzegovina and, eventually, in the entire Western Balkans area.

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