



“Gheorghe Asachi” Technical University of Iasi, Romania



WEB-BASED FLOOD INFORMATION SYSTEM: CASE STUDY OF SOMESUL MARE, ROMANIA

**Adrian Almoradie^{1*}, Andreja Jonoski¹, Florin Stoica²,
Dimitri Solomatine¹, Ioana Popescu¹**

¹UNESCO-IHE Institute for Water Education, Department of Integrated Water Systems and Governance,
P.O. Box 3015, 2601 DA Delft, The Netherlands

²Romanian National Water Authority, Somes-Tisa Branch, Cluj, Romania

Abstract

This paper presents research into conceptualisation, design and implementation of an innovative web-based virtual environment for flood information sharing and dissemination. A system intended to be used by flood management authorities and potentially-affected citizens is demonstrated. Latest technological advances for collection, archiving and sharing of environmental data using web-based Spatial Data Infrastructure (SDI) are used for system implementation. Flood-related data and models are embedded in the system.

The system was developed for the Somesul Mare catchment in Romania and it is aimed to serve as a portal for awareness rising through flood information sharing and dissemination that would increase local capacity of the communities for dealing with floods. This will enable the citizens and stakeholders to understand the areas exposed to flood risk and to equip them with the necessary knowledge on flood risk assessment and management. The platform is capable to assimilate instant feedback and relevant information from citizens and stakeholders. In future, the system is envisaged to include components for flood forecasting and warning.

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Key words: flood information dissemination, Somesul Mare, spatial data infrastructure, stakeholder participation, web-based application

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* Author to whom all correspondence should be addressed: E-mail: a.almoradie@unesco-ihe.org; Phone +3115 2151715; Fax +3115 2122921