

Development of a Geographic Information System for traditional bridges of Central Zagori

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Abstract

This work has been carried out in 1999, in the framework of the co-operation of N.T.U.A. with the Local Authorities of Kentriko Zagori. Its objective was to develop and produce a GIS, concerning the traditional stone-built bridges of Kentriko Zagori. The main aims of the work were (a) the easy use and friendliness of the system for any user with elementary computer knowledge and (b) the possibility for continuous updates and future extensions.

This GIS is addressed to tourists interested in obtaining information and to local authorities and engineers, for whom it is a record of these particular monuments of traditional art, hence a useful tool for the administration, protection and planning of their conservation.

The information contained in the system includes: exact position, access instructions, historic information, photographs, plans and mensuration information. Special attention was given to the aesthetic aspect of the result, as it plays an important role for the user, who needs to obtain information in the most effortless and pleasant way.

The system is built in such a way, that extension is possible, both as far as the number of bridges and the types of relevant information are concerned. In its final form, the system will be an integration of information from several aspects on all stone-built bridges in an integrated pattern, available for multiple uses.