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CULTURAL MONUMENTS IN SERBIA: WEB GIS AND MAPPING OF TOPLICA DISTRICT

Abstract. The website *Cultural Monuments in Serbia* presents a digital catalogue – collection of immovable cultural heritage of exceptional and great importance (<http://spomenikulture.mi.sanu.ac.rs/>). It was created in 2004 by a group of national research and cultural institutions, with the goal to promote and to increase the public awareness of importance of the national cultural heritage. This paper presents the brief history of development of the web presentation and emphasis technical innovations that were implemented during the time, such as panoramic views of objects (<http://spomenikulture.mi.sanu.ac.rs/object.php?id=459&idobj=445>) or the timeline of cultural history (<http://spomenikulture.mi.sanu.ac.rs/timeline.php>). The paper specifically refers to the latest novelty – the web GIS and mapping of the cultural monuments from Toplica District. We discuss how the web-based mapping can help in further promoting of heritage. The web map of Toplica District is the result of six years long field research and off-site work. The paper describes some of the corresponding steps:

- a) creation of the vector data with software packages Global Mapper 13 and GeoMedia Professional 6.1.;
- b) GPS recording of the Toplica District (cca. 3034km);
- c) integration of GPS and GIS with help of software Global Mapper 13 and GeoMedia 6.1;
- c) DEM building and storage in various formats);
- d) georeferencing the topographic maps of Toplica District;
- e) adjustment of the map projection from Gauss Kruger Projection to Transverse Mercator and
- f) creation and implementation of web GIS map.

Some advantages and issues of each of the previously mentioned stages will be analyzed. The developed 3D-map will be presented.

Keywords: Cultural Monuments, Toplica DC, Global Mapper 13, Geo Media professional 6.1, WEB maps.