



## **GPS navigation on historical topographic and cadastral maps in Hungary**

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Georeferencing of the scanned sheets of historical topographic (2<sup>nd</sup> and 3<sup>rd</sup> military surveys of the Habsburg Empire) and cadastral (1878 and 1895 surveys of city of Budapest) maps enables to accomplish real-time GPS navigation on these cartographic items. Using a Portable Digital Assistant (PDA) with a built-in or connected GPS receiver and the MyGPS software package to show the scanned maps and the GPS position it only needs the rectification of the map sheets. In the simple PDA GPS softwares as the MyGPS is, the georeference requires/allows to use only two ground control points defined by their WGS84 coordinates. The accuracy of the GPS navigation is significantly better than those of the georeferencing of the topographic maps (cca. 50 meters) but exceed the precisiy of the fitting of the cadastral ones (1 meter). However, the method gives an opportunity to take a virtual tour to the past, to see, what was the environment at the time of the mapping at the point of the present navigation.