

WEB MAP SERVICE ROLE IN GEOGRAPHIC INFORMATION SYSTEM DATA SHARING USED IN DETERMINING LAND-PRICES

Muhammad Iqnaul Haq^{1*} and Saddam Alkhindi²

^{1,2}Undergraduate Students Program Study of Cartography and Remote Sensing
Faculty of Geography Universitas Gadjah Mada (UGM), Bulaksumur, Yogyakarta 55281

¹iqnaul@gmail.com

²saddam.alkhindi@mail.ugm.ac.id

*Corresponding author: iqnaul@gmail.com

ABSTRACT

Web Map Service provides ability in the dissemination of spatial data, the accessibility of this service became a good benefit so that spatial data can be used by others without having to own the data (shared use). Nowadays, WMS widely used for dissemination of spatial data for a variety of purposes, this paper describes the role of WMS in determining land prices. Determining land prices use physical condition of an area by looking several physical parameters of man-made land. Identifying the parameters required some spatial data which can be gathered from various sources. These sources of data came from government agencies, private institution, organization, educational sector or individuals that provided the data in a WMS form and publicly accessed. This study makes use of WMS simulation using data that can be accessed from local network or the internet network. Accessing the data and interpret it so that the user can do further analysis to determine the land prices. Standardization of data described by the OGC about WMS made the interoperability of data can be used with a variety of GIS desktop applications. Processing the parameters to determine land prices becomes easier because the data can be accessed and used by a variety of GIS desktop software. Integrating with spatial database made a good benefit because the data originally came from variety of sources. This study aim is to describe the use of WMS concept in determining land prices so that may also visualized in the form of a web mapping application. The use of open-source software helped this study which also may give any other understanding about open-source software and its development because today the function of this software almost equal to the licensed or paid software. This research may also an alternative in use of data that came from a variety of sources with easily accessed and primarily in determining land prices.

Keywords: WMS, land prices, data sharing, GIS, open source software