

## ABSTRACT

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*WebGIS is a Web-based geographic information system that can be accessed online with a Web Browser. WebGIS application itself is very useful in the implementation of tasks in the field of mining, for example, to assist in monitoring the activities of mining region by the government and a media campaign to investors. Donggala is an area that has the potential of mineral non-metallic minerals and rocks, but until now this potential has not been managed optimally as the presentation of information on potential mining areas and monitoring activities that have not been optimal. This will result in a waste of resources and cause a decrease in one source of revenue. To overcome this WebGIS application was made to optimize the mining area of non-metallic minerals and rocks. This application is built with the waterfall method, using MapServer and geolocation technology and using programming language PHP and MySQL database. This application can manage and display a map of mining areas nonmetallic minerals and rocks as well as the use of geolocation in order to provide information that is informative regarding potential mining areas and information mining areas in the form of visual images or data as well as assist the monitoring technology using geolocation to determine the location of activities supervision. With the application of WebGIS, it is expected the government and investors can obtain information about the region and the potential to optimize the mining supervisory activities by the District government.*

*Keywords: WebGIS, Waterfall, Map, Geolocation.*