

Web Geoportal 'BHUMI' for Easy Access to Land Information and Community Participation-Based Mapping

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SUMMARY

Indonesia has 126 million land parcels, until the end of 2022 there were 100 million land parcels that have been registered – and 15 million of the registered parcels are not yet mapped. The target of 126 million land parcels is expected to be completed by 2025, which means that within 2 years there are 26 million land parcels needed to be registered. In order to achieve this target, innovations should be taken into place – and using GIS technology (Webgeoportal) is one of the solutions that can be applied. The Government of Indonesia has been making efforts to achieve the fully complete land registration in Indonesia – including implement innovation by developing a web geoportal application called 'BHUMI'. Bhumi is a Web-based application (WebGIS) that displays spatial data – land related that can be accessed in digital manner. The purpose of developing BHUMI was to provide easy access to land information for everyone and facilitate public information disclosure. Spatial data contained in BHUMI is presented in standard Open Geospatial Consortium (OGC) protocol format, such as Web Map Service (WMS) and Web Map Tile Service (WMTS). The standardized spatial data by OGC is expected to be: Findable (easy to find), Accessible (accessible), Interoperable (can be used on various systems and platforms), and Reusable (can be reused). Public can access information of the registered land parcels in BHUMI, as well as the location information of the Systematic Land Registration Project, the variable value of buying and selling land, and also the forestry boundaries. The community can also rate the quality of the land parcels displayed – quality of both the spatial data and the information contained.

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