

Spatial Data Quality Evaluation of Complete Map of Village Land Parcels Information Based on Participatory Mapping Result

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Key words: Land management; Spatial Data Quality; Participatory Mapping; FFP-LA; Land Registration.

SUMMARY

In order to accelerate land registration in Indonesia, the Ministry of Land Affairs and Spatial Planning / National Land Agency (BPN) implement the systematic registration programme (PTSL), so there is a need to complete data on the object and subject of land in a village administration area. To overcome the problem, a complete map of village land parcel information becomes an important thing to be realized. Tangerang Selatan Land Office with Local Government, the community, the youth organization, the village government to implement participatory mapping through inventory and verification of all parcels of land, either unregistered or registered land by utilizing general boundary delineation methods on aerial photograph map scale 1:1000 with the FFP-LA approach. It was conducted an area accuracy test based on technical guidance in Regulation of Land Affairs Minister (PMNA) Number 3 Year 1997, also spatial data quality test based on SNI-ISO 19113:2011 (near-distance, polygon, and circularity ratio). To do so, by comparing data of general boundary delineation methods and field survey data collected using terrestrial methods during government land registration program. The result of land parcels distance and area test for open area majority fulfill the standard and closed area did not. Factors affecting the accuracy in the opened areas land parcel, the boundaries are clearly visible, while the closed areas are blocked by buildings and vegetation. Based on the result of spatial data test, not all of data are in very good quality because it still contains areas that have significantly difference in geometry and position, therefore if the data complete map of village land parcel information based on participatory mapping result will be applied for land registration, it should pass the quality control (QC) according to the existing standards in the Ministry of Land Affairs and Spatial Planning / National Land Agency (BPN).

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FIG Working Week 2019

Geospatial information for a smarter life and environmental resilience

Hanoi, Vietnam, April 22–26, 2019