

# **KAJIAN PERENCANAAN TATA RUANG DAN WILAYAH KAWASAN RAWAN BENCANA TANAH LONGSOR DI KABUPATEN BANYUMAS**

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## **ABSTRACT**

Banyumas is located in the western part of Central Java province has 27 districts, where there are 17 districts that have high levels risk of landslide events. Banyumas topography varies from plains to mountains in the region of Mount Slamet. Study of spatial planning based on landslides perspectives are expected to provide information for landslide potential areas and as a reference for the development of disaster-prone locations based on the level of risk.

The research was conducted using the guidelines of Public Works Ministerial Regulation No. 22/PRT/M/2007 of spatial landslide-prone areas with some modification, secondary data processing aided by technical analysis methods, combined GIS mapping and remote sensing, and qualitatively descriptive analyzed primary data obtained from field observations and interviews. Qualitative descriptive analysis was used to analyze the physical characteristics of nature, the capacity level and aspiration patterns of policy-making, reasons for landuse in landslide-prone areas, and spatial planning policy.

The results of this study are the availability of planning information and the control of spatial utilization in Banyumas based on areas prone to landslide, ground motion susceptibility maps, ground motion vulnerability maps, ground motion risk maps. Processing of risk maps / zones indicate potential ground motion that stacking and overlapping between the two weighting susceptibility maps and vulnerability map in the ratio 70% and 30% more in line with the conditions of Banyumas. Zone classification maps obtained potential ground motion is divided into 8 classes according to the three types of zones / typology and level of vulnerability. Banyumas landslides area spatial planning can be done based on the identification of potential landslide areas wheter the development and the activities management pattern are adjusted to match the characteristics of the region.

**Key words:** *spatial planning, ground motion susceptibility maps, ground motion vulnerability maps, the characteristics of the region.*