Kajian transfer data berbasis seluler pada mitigasi bencana alam di Wilayah Kabupaten Banyumas

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Abstrak

In the rainy season, mass movement disasters often happen to areas susceptible to landslides particularly due to geological and hydrological conditions such as type of material, steep gradient of riverbed and high rainfall intensity. Additionally the occurrence of flood is tightly related with rainfall intensity and land use changes. Observation was done on such disasters, i.e. mass movement at Cibangkong village, Pekuncen District, and flood Nusadadi village, Sumpiuh District, Banyumas Regency, Central Java. The study was carried out to understand the characteristics and behavior of flood and landslide, the aims of which is the use of cellular technology as an effective early warning system. The application of such equipment will monitor the water level fluctuation and rainfall intensity whereas an extensometer will identify the enlargement of cracks in the landslide area. The collected data will be transferred to the server in the main station. Outcome of the research will provide an early warning system model by means of data transfer through cellular technology. It is expected that this system will be helpful to the community and the institution such Satlak PBP of Regional Government of Banyumas, for taking immediate actions before occurrence of flood and landslide.