

Land Parcel Mapping with Unmanned Aerial Vehicle (UAV) Technology to Accelerate Land Certification in Cisumdawu Highway Construction Area

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SUMMARY

Cisumdawu Highway will be 60 km highway from Trans Java Highway in West Java connected to Cileunyi - Sumedang - Dawuan or Padaleunyi Highway with Palimanan - Kanci Highway covering an area of 825 ha. The construction of the Cisumdawu Highway is expected to reduce the traffic jam of Sumedang - Bandung route and the road in Cadas Pangeran which is known to be prone to landslides. But just that there is also a negative impact of the Cisumdawu Highway construction. There will be loss of agricultural land area of 750 ha, and can reduce the income from local community who has restaurant in Cadas Pangeran. Beside those problem, highway construction is often found land certification problems. From map of Land National Agency (BPN), there are many land parcels in Cisumdawu Highway area that have not been legally certified. Land parcel which is not certified will affect land acquisition in there. On the Cisumdawu Highway construction, land acquisition alone has been completed by 35%. It's just that construction can not be done yet all released. So the acceleration needed to do land acquisition, so the construction of Cisumdawu Highway can also be quickly resolved. One of the solution is using Unmanned Aerial Vehicle (UAV) technology to acquire data of land parcels. Once it is done, the data can be given to district or village head as temporary notary to make certification of land. This method will be the solution of conflict that always happened when it comes to land acquisition for public facility.

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