WEB-BASED GIS APPLICATION DEVELOPMENT FOR VALUABLE PLANTING BASED ON CASE STUDYING ALOVMAP: NGANJUK REGION, EAST JAVA

Student : FARIKHAH FARKHANI  
NRP : 5207 100 011  
Department : SISTEM INFORMASI FTIF-ITS  
Supervisor : Bambang Setiawan, S.Kom, M.T  
Faizal Johan Atletiko, S.Kom

Abstrak

Agriculture is one of the major sectors in the state of Indonesia which has a strategic role in national economic development structure. However, in fact until now there are many poor farmers who enter in Indonesia. This indicates that the government in the past is not only less but also empower farmers to the agricultural sector as a whole. There are factors that cause failures in agriculture and one of the factors that cause is the lack of knowledge of the farmers in a known state soil, so it tends to do the planting of appropriate plant species based on the belief in ancestral past, even under the uncertain weather forecast, here the farmers are not familiar with and know the main requirements on the planting of crops according to land. Referring to the above problems, the authors propose a solution in the form of making Web-Based GIS applications with AlovMap for agricultural planting suitability information Nganjuk District, East Java. Intended for local governments, especially in agriculture and plantations in order to inform the
condition of the soil so that it can reduce the risk of crop failure due to soil conditions that are not suitable for the type of plants to be in production, Web-based GIS applications will be presented in the form of an interactive website that contains information about the suitability of planting Nganjuk area.

Keywords: Agricultural Applications, Web-Based, GIS (Geographic Information System), AlovMap.