

ABSTRACT

Road really important facility for the citizen, especially in transportation area. The high number of road that should have been taken care of, it cause the road can't be handled by Dinas Bina Marga especially in Road Preservation Division clearly and punctually. The problem of data storage still in tabular data and it separated in several Excel documents. In addition, they don't have standardization of scaling the condition of road, choosing priority, and controlling.

One of tool used in this study is the DSS or decision support system with the feature of geographic information uses Google Maps for mapping. Besides, it could give some information, which help to made decision about the priority of road handling based on the government's goal. The calculation of priority is used a Analytical Network Process. The ANP provides a general framework to deal with decisions without making assumptions about the independence of each level element. The referred parameter to determined the priority are level of damage, road's function, types of handling road, cost of handling road, and road's status.

From the explanation above, it can be concluded that these application is DSS with the feature of geographic information that can be used by Preservation of Road Division for manage information about the location of road handling and the supported data and that can be used to determined the priority of handling road in Bogor by Road Preservation Division.

Keywords : Road Handling, Decision Support System, Analytical Network Process (ANP), Geographic