DETERMINING OF SCALE PRIORITY OF BRIDGE MAINTENANCE IN PANTURA ROAD EAST JAVA

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ABSTRACT

Deterioration of bridge is customary happened while guarantee times and need to identify of deterioration degree before fix the handling. Bridge Management System is a system identify for deterioration of bridge had application by Bina Marga. One of handling toward deterioration is maintenance with scale 4 of deterioration and scale 0 of traffic jam. However, many bridges need maintenance and limitation of budget make Bina Marga must have priority to maintenance handling.

This priority fixing need a plan of whole process of priority scale fixing. At the beginning is determining of variables based on theoretical studying also technical analysis has been used is Analytical Hierarchy Process (AHP). AHP is technical analysis was used to academic people also professionals for determine scale of priority. Sensitivity analysis has been used to find out criterias established to determine bridge alternatives toward bridge maintenance. This research has type as study case, which region of the research is three bridges in Pantura road in east java.

Have resulted priority sequence of bridge maintenance were the Sabrang bridge at the top priority with 54.47%, at the second was the Klompret bridge with 26.3% and the last was the Sanggrahan bridge with 19%.

Keywords: AHP method, bridge maintenance