THE USE OF GEOGRAPHIC INFORMATION SYSTEM FOR THE DEVELOPMENT POTENTIAL OF THE RAILWAYS (CASE STUDY: TURI MARKET STATION TO BOJONEGORO STATION)

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ABSTRACT

Community needs for rail fresh service is currently very rapid. This should be followed by preparation by PT. Kereta api Indonesia (persero), with the improvement of information technology on railway infrastructure which already exist in order to improve the management system of railway infrastructure. So far the management potential of the railways are still managed manually in the form of tabular diagram. And do not yet have digital map of railway line, digital maps can be used in the presentation and the provision of geographical data and display process that is integrated with a database of railway infrastructure is complex, to meet the needs of PT. Kereta api Indonesia (persero) to the facilities at the station, station track form turi market station until bojonegoro station, types of trains passing throught the pathway.

By using geographic information system, can make it to the input data, display data, managing data, analyzing data, and create maps and report related to geographically referenced spatial data about the potential of the railways which include
facilities on trains originating form a digital maps

From the GIS will be produced interactive applications, which inform the infrastructure conditions at the station, information, schedules of existing railway station on the path from turi market station to bojonegoro station. Which can later be used PT.Kereta api Indonesia (persero) for various purposes.

Key words : Digital maps, GIS, Railways, Facilities and infrastructure.