ABSTRACT

There are several factors that need to be considered by PDAM companies, for example, how to monitor pipes and the quality of the water distributed is very important to note because this will affect consumers in terms of the comfort and feasibility of flowing water. This final project is entitled "Dashboard Web Logger on GIS-Based Water Management System Case Study of PDAM Kabupaten Madiun" a Website Dashboard that contains several indicators and information that can be used for monitoring Smart Water Management such as seeing water discharge, water quality, pump panels and diesel pressure quickly and accurately by using several types of sensors according to the needs of each IoT. On the Website Dashboard page there is also a technology called GIS (Geographic Information System). GIS-based portable web dashboards have geographic capabilities that can process and visualize data related to the position of the sensor on the map. Based on the results of this final project, it can be concluded that the GIS-based website dashboard can make it easier for users to carry out actual monitoring because the data sent is real-time. The ease of monitoring data and pipe conditions is also very easy for users because the website dashboard can be used for monitoring anywhere and anytime without the need to come directly to the location.

Keywords: *Dashboard, Debit, Website, GIS, Quality*