

ABSTRACT

APPLICATION MANAGEMENT INTEROPERABILITY OPEN DATA CITARUM USING OPEN DATASOFT

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The Citarum is the longest and largest river located at West Java and also has a very important role in every activity in the community, but the facts show that it is one of the polluted rivers in the world. To improve the condition to be better, it is necessary to monitor the quality, and the resulting data can be published so that the public knows the condition of the Citarum River whether is polluted. At this time the existing data does not provide centralized information and can't be integrated with other systems, the purpose is to facilitate the management and distribution of data. In order to facilitate the processing and distribution of data, Open Data as interoperability system is needed so that the data provided can be easily integrated with others.

There are many stakeholders in Citarum, the exchange of data must use a certain concept so it will be done smoothly, where they own and develop their own systems, the government cannot control everything and cannot make their own rules on how to use the same system. Using the interoperability approach will help all different systems communicate with one another, so that later when there is a body that wants to supply data and retrieve data it can be implemented even with a different system.

The Open Data interoperability system uses the OpenDataSoft platform which can convert data into API. With the help of this platform, published data can be used freely by each stakeholder who wants to use the data provided. In using this system using the Scrum method, where there are several processes that help research run efficiently because each process will be evaluated to improve. The results of this study will facilitate stakeholders who use and integrate data between different systems.

Keywords: *Open Data, Interoperability, Rest API.*