

## **ABSTRACT**

*President formed a Citarum Task Force consisting of sector commanders and sub-sector commanders to accelerate pollution control which is covered by article 12 of Presidential Regulation No.15 of 2018. Sector commanders are less efficient in monitoring and controlling sub-sector commanders because communication tools still use WhatsApp Messenger so that messages are received too many sector commanders. Sector report documentation is less organized because there is no container to store sector data so that it increases the likelihood of being lost, scattered or stolen. The sector reports that are displayed are ineffective because the information provided is not yet structured and the report display is still in a descriptive form, making it difficult to understand. Because of this problem, a management information system is needed to assist the reporting of sub-sector commanders so as to facilitate supervision of sector commanders, sector data is collected in a structured and neat manner and display information that is easy to understand using a geographic information system.*

*Software development method in this study uses agile with the SCRUM framework. The system design uses UML which consists of use case diagrams, ERD, activity diagrams and class diagrams. This research data uses the 6 Citarum River sector report in 2019 which consists of sector and sub-sector areas, the number of facilities that have been built and companies that must be supervised by the Citarum Task Force.*

*The results of this study produce a management information system with daily plan input features and daily reports for sub-sector commander reporting, an informative and effective display of information because it is displayed through geographic information systems and servers for sector data containers so that it is more tidy and organized and reduces the possibility of being lost, scattered. or got stolen.*

*Keywords: agile, Citarum, geographic information system, management information system, reporting, sector commander, sub-sector commander*