

Abstract

On this occasion, the team wanted to realize the technological development of the Citarum River basin (DAS) where the team gave the proposal title “Citarum River Pollution detection system on IoT-based rice fields“of the Citarum River has been the predicate as one of the most polluted places in the world. The unrest against the Citarum River where the soil began to erosion, the presence of deposits resulted in floods, pollution by animal cattle, household waste and factory waste. Various toxic compounds appear in the river Basin (DAS) Citarum which has a bad impact on the community in 13 districts/cities. Among the parameters to be measured are pH, temperature, and turbidity of water. This case has a heavy impact on the survival of rice fields surrounding the Citarum Basin (watershed). Therefore, the team has a solution for the farmers who will use the river Citarum polluted for irrigation and recommend the quality of the irrigation raw water. With the measurement of the parameters of chemical compounds along the river basin (DAS) Citarum containing toxins that impact the quality of rice crops and land of rice fields. The expected outcome of the tool has the intelligence of monitoring the data of the measurement results, sending the data of the measurement results, can provide the latest notice to the farmers to the quality of the water to the soil.