

## **ABSTRACT**

PDAM Tirta Raharja is a regional company that is responsible for providing clean water services. PDAM Tirta Raharja was established in 1926 as a business entity owned by an area owned by Bandung Regency. The PDAM has one vision, namely PDAM Tirta Raharja Bandung Regency is a healthy PDAM by promoting transparency based on information technology. In order for this vision to be realized, PDAM Tirta Raharja must always carry out periodic improvements and checks in the distribution of clean water in Bandung and its surrounding areas. The part of non-revenue water is a function that aims to reduce ATR (Unbilled Water). In order for performance to be improved, an integrated information system is needed to support the function of non-revenue water. In designing information system, it often does not meet the needs of the agency / company. So that when the system development stage is needed, the design of enterprise architecture is needed. Designing enterprise architecture for information systems of Regional Water Supply Company Tirta Raharja on non-revenue water functions using TOGAF ADM with limitations, namely Preliminary phase, Architecture Vision, Business Architecture, Architecture Information Systems, Technology Architecture, Opportunities and Solutions and Migration Planning by comparing existing conditions and target state. The results in this study are in the form of architectural blueprints in the form of images of technology architecture and application architecture and there is also an overview of portfolio technology relationships in the Environment and Location Diagram which are solutions and blueprints for PDAM Tirta Raharja Bandung Regency and IT Roadmap which consists of two several application with a period of 1-5 years with the SCADA Development Application with a period of five months in the second year and the making of an e-ATR application within three months in the second year as well and this IT Roadmap as the basis for developing non-revenue water functions in

the Company Regional Drinking Water Tirta Raharja. TOGAF ADM was chosen because it can meet the needs of enterprise architecture development.

**Keywords:** PDAM, ATR, Enterprise, Architecture, TOGAF, ADM