

ABSTRACT

DESIGNING SPBE ARCHITECTURE IN THE CIMAHI CITY GOVERNMENT FOR THE ENVIRONMENTAL MANAGEMENT FUNCTION USING TOGAF ADM AND THE NATIONAL SPBE ARCHITECTURE FRAMEWORK

By

MUHAMMAD DANINDRA ABYANTARA

NIM: 1202204142

The rapid development of Information and Communication Technology (ICT) has driven government agencies to adopt Electronic-Based Government Systems (SPBE) to create effective, efficient, transparent, and accountable governance. The Cimahi City Government has implemented SPBE with an index score of 4,02 and a “Very Good” rating, but it still faces challenges, particularly in the integration of public services, which is not yet fully optimized. One of the public services provided by the Environmental Management Function at the Cimahi City Environmental Agency, specifically the environmental approval reporting service, requires improvement and has not yet been integrated with the Cimahi City Government’s service portal, which hinders the efficiency and effectiveness of the service. This research focuses on designing the SPBE architecture for the Environmental Management Function using the TOGAF (The Open Group Architecture Framework), applied up to the Technology Architecture Phase, with reference to Presidential Regulation No. 132 of 2022 on the National SPBE Architecture. The resulting SPBE architecture for the Environmental Management Function can be used as a reference for developing SPBE architecture in other functions within the Cimahi City Environmental Agency, as well as strengthening alignment and integration across functions. Therefore, this research is expected to contribute to improving the quality of public services and supporting the achievement of more effective and efficient government objectives.

Keywords: Electronic-Based Government System (SPBE), Environmental Management Function, TOGAF ADM, Environmental Agency, National SPBE Architecture.