

ABSTRACT

ANALYSIS AND DESIGN OF ENTERPRISE ARCHITECTURE USING TOGAF ADM CLEANLINESS FUNCTION IN SMART CITY BASED WASTE MANAGEMENT SYSTEM

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Based on Law No. 23 of 2014 on Local Government, the efficiency and effectiveness of the regional administration needs to be improved with more attention to aspects of the relationship between the central government and inter-regional areas, the potential and diversity of the region, as well as the opportunities and challenges of global competition in the unitary state system of governance. Therefore, it is necessary to develop a concept that becomes the government's reference to realize Smart City. Smart City is a joint program of the Ministry of Communication and Information, the Ministry of Home Affairs, the Ministry of Public Works and Public Housing, Ministry of National Development Planning and the Presidential Staff Office. Smart City aims to guide the regions in developing Smart City master plans to integrate information and communication technology in improving community services and accelerating each region's potential. Regional Cleaning Company of Bandung is a company that provides cleaning services and waste management services to the community in Bandung. In carrying out their duties, the Regional Cleaning Company undertakes various innovations, especially technology-based innovations. The technological innovation carried out is one of the city development and management strategies as a form of the realization of Smart City. However, the implementation of technology has not been based on the design in accordance with the needs of the running business processes. For this reason, a comprehensive design is needed so that the implementation of existing

technology is controlled and in line with the company's business strategy. Based on these problems, it is necessary to have an enterprise architecture design that aims to align technology strategies with business strategies that produce blueprints for companies. The framework used is TOGAF ADM because it provides methods to build, manage and implement maintenance of enterprise architecture. Enterprise architecture (EA) is a picture or blueprint for an organization that is aligned with the organization's vision and mission with information technology. Enterprise architecture consists of data, applications and technology with the principle of aligning with corporate strategy, aligning assets and aligning customer desires with the aim of increasing satisfaction and realizing institutional growth.

Keyword: *Smart City, Enterprise Architecture, TOGAF ADM, Blueprint, Framework*