ABSTRACT

Animal vaccination is a crucial aspect of maintaining health and safeguarding animal populations from diseases that can potentially harm both animals and humans. The health of livestock and pets holds great significance in West Bandung Regency, as a considerable portion of its population lives in close proximity to animals due to cultural practices or economic ties, constituting a vital livelihood for many households. The Department of Fisheries and Animal Husbandry, as a local government entity, holds authority in the realm of agricultural autonomy, particularly concerning animal husbandry services, including vaccination. However, there are existing obstacles in the administration of animal vaccination services. One of the challenges is the incomplete coverage of vaccination, with a portion of the animal population not yet reaching 100% coverage due to the necessity for additional resources and personnel to meet the coverage demand. While information systems have begun to support business activities within the Department of Fisheries and Animal Husbandry in West Bandung Regency, their implementation is not yet optimized. Manual processes, such as activity documentation, recording, reporting, and a lack of system integration, persist.

A structured strategic plan is essential, encompassing the design of Enterprise architecture, to develop a comprehensive information system. This plan ensures that the functionality of animal vaccination services operates optimally and cohesively. Within this design process, the utilization of a framework is imperative to facilitate the stages of system design and development. The selection of TOGAF ADM 9.2 as the design methodology is driven by its flexibility and ease of access. The outcomes of this Enterprise architecture design span six phases: Preliminary Phase, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solutions, and Migration Planning, all within the Department of Fisheries and Animal Husbandry in West Bandung Regency. The results of this study manifest in the form of an Enterprise architecture blueprint and an IT Roadmap. These artifacts will support the implementation of information technology and serve as guidance in the development of required information technology within the Department of Fisheries and Animal Husbandry in West Bandung Regency.

Keywords: Enterprise Architecture, TOGAF ADM 9.2, Animal Vaccination.