

ABSTRACT

The Department of Livestock and Animal Health (DPKH) is a government institution that plays a role and is responsible for the development, supervision, and regulation of livestock and animal health. DPKH Brebes Regency is an agency that is very open to the presence of information technology. However, the use of information technology in Livestock Cultivation, Animal Health and Veterinary Public Health, and Infrastructure and Livestock Business sectors is still not maximally and effectively utilized due to constraints in the use of information technology. These constraints include the lack of an integrated system, requiring officers to manually input data from one application to another, resulting in cross-domain data not being accessible in real-time. Manual activities, such as supervision of livestock sales in Brebes Regency, are still carried out. The absence of a system for monitoring livestock sales has led to a decrease in the number of productive male livestock due to the sale of young livestock that should have been used as breeding stock. The majority of livestock farmers in Brebes Regency sell their livestock to livestock collectors at prices sometimes below the standard. Based on these issues, the development of a strategic plan is needed using the Enterprise Architecture (EA) approach, which aims to align business strategies with information technology strategies so that information technology can be used effectively and efficiently to support livestock business processes according to needs. This research aims to design EA for DPKH Brebes Regency. The method used to design EA in this research is the TOGAF ADM 9.2, which includes six phases: Preliminary Phase, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solutions, and Migration Planning. The result of this study is in the form of an EA design blueprint and an IT Roadmap that will support the implementation of information technology and serve as a guide in developing the necessary information technology for DPKH Brebes Regency.

Keywords: Enterprise Architecture, Animal Husbandry Department, TOGAF ADM 9.2