ABSTRACT

Information technology has played a crucial role in the development of smart villages in Indonesia, contributing to the development and self-reliance of villages. Bengkel Village, located in Kediri District, Tabanan Regency, Bali, is one such example of a village that has adopted the smart village concept and successfully achieved the status of a self-reliant village. However, this village still faces several challenges that require further development. The implementation of the smart village concept through the design of enterprise architecture can enhance the potential and quality of life of the village community. This study uses the TOGAF ADM 9.2 framework to design an enterprise architecture that encompasses eight phases that are Preliminary Phase, Architecture Vision, Business Architecture, Data Architecture, Application Architecture, Technology Architecture, Opportunities and Solutions, and Migration Planning. The aim of this research is to produce an enterprise architecture blueprint and architecture roadmap using six pillars, focusing on three pillars: smart governance, smart economy, and smart environment. The research findings indicate that Bengkel Village has achieved several Sustainable Development Goals (SDGs) targets, but there are still disparities in village operational management, economic development, and sustainable environmental management. The enterprise architecture approach designed with the TOGAF ADM 9.2 framework offers strategic solutions for the development of a smart village in Bengkel Village. With better integration of information technology, this village has the potential to achieve sustainable development.

Keywords: Enterprise Architecture, TOGAF ADM 9.2, Six Pillars, Village Government, SDGs, Smart Village.