

## **ABSTRACT**

*In today's digital and industrial revolution, the development and application of information technology is a need for organizations to support operations, Monitoring and Control, Planning and Decision, and Communication in the work environment effectively and efficiently. The development and application of information technology that is in line with the needs and objectives of the organization will be urgent for organizations that have not yet implemented it. One is the Koperasi Keluarga Besar Semen Padang (KKSP in the Savings and Loans function. Koperasi Keluarga Besar Semen Padang (KKSP) is one of the cooperatives registered with the Ministry of Cooperatives and Small and Medium Enterprises of the Republic of Indonesia as a combined business entity. KKSP took the initiative to take advantage of the development of information technology to help its business processes to run more effectively, efficiently, optimally, and automated, especially in the savings and loans function. Currently, in carrying out business processes, the savings and loans function is still ineffective and efficient and has a high potential for human errors. This is because it takes a long time to manage data because data management is still not optimal, has not been integrated, has not been real-time, and is still processed manually using Microsoft Office and Microsoft Excel, which has the potential to lack data accuracy. To meet these needs, the solution provided is the design of Enterprise Architecture for KKSP, which is specialized in the savings and loans function. The application of information technology can minimize the occurrence of risk due to human errors, the time of working on business activities in the savings and loans function will be effective and efficient, information becomes more accurate. It can be provided in real-time, and risk of data loss due to viruses or damage can be avoided. The final results of this research are in the form of a blueprint design and IT roadmap Enterprise Architecture following the needs of the KKSP savings and loans function as a reference for the development of information technology and optimizing the management of the KKSP savings and loans function and providing benefits to the organization. This research uses the TOGAF ADM 9.2 framework with design phases, namely the preliminary phase, Phase A: Architecture Vision,*

*Phase B: Business Architecture, Phase C: Information System Architecture, Phase D: Technology Architecture, Phase E: Opportunities and Solutions, and Phase F: Migration Planning.*

**Keywords:** *enterprise architecture, TOGAF ADM, blueprint, IT roadmap, and savings and loans*