

ABSTRACT

In this era of globalization, regional developments is begin to increase over time, both in terms of technology and development, this is indicated by the large number of large-scale projects built by the government and private sector, such as the construction of roads and bridges. Indonesia has allocated a budget each year for the Village Fund program, which aims to strengthen rural communities and village infrastructure development projects.

Data from the Ministry of PUPR in the 2018 Statistical Information Book regarding the allocation of APBN funds to the Ministry of PUPR, the largest APBN is allocated to the Directorate-General for Roads with 40.04% with a total fund of Rp. 45,775,126,652, the funds include budget resources for the construction of village roads and bridges. This indicates that the government is very serious in regional development, project management is necessary to regulate all needs for the implementation of development projects.

Problems arise while implementing project management, both during planning and during project execution. Problems especially in village infrastructure development projects, are often experienced by developers, including financial difficulties such as budgeting, estimates, resources, costs not in accordance with the plan, or misappropriation of funds by irresponsible persons. This issue can occur due to several important factors such as communication and transparency.

In this Final Project, a Project Cost Management Information System has been developed to facilitate stakeholders in monitoring and to ensure that government budgeted resources can be optimally channeled and reported to minimize fraud and errors in the process development of village infrastructure. The system to be developed is divided into three modules, namely Cost Estimating, Cost Budgeting and Cost Controlling according to the Rational Unified Process (RUP) method. The system is designed in the cloud so that all parties involved in the project can control the entire process and the withdrawal of funds that occurs immediately and the infrastructure development process can proceed according to a predetermined plan.

Keywords: *Project Cost Management, Rational Unified Process, Cloud, Road and Bridge Infrastructure, Cost Estimating, Cost Budgeting, Cost Controlling*